

CICS Transaction Server for z/OS
Version 5 Release 2



Data Areas

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Version 5 Release 2



Data Areas

Note

Before using this information and the product it supports, read the information in “Notices” on page 1277.

This edition applies to the IBM CICS Transaction Server for z/OS Version 5 Release 2 (product number 5655-Y04) and to all subsequent releases and modifications until otherwise indicated in new editions.

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CICS Transaction Server for z/OS Data Areas

This information contains information about the major data storage areas used by CICS® Transaction Server for z/OS®. It contains information for IBM® service personnel, CICS system programmers and CICS application programmers.

This manual documents information NOT intended to be used as a Programming Interface of IBM CICS Transaction Server Version 5 Release 2.

Location of topics in the information center

The topics in this publication can also be found in the CICS information center. The information center uses content types to structure how the information is displayed.

The information center content types are generally task-oriented, for example; upgrading, configuring, and installing. Other content types include reference, overview and scenario or tutorial-based information. The following mapping shows the relationship between topics in this publication and the information center content types, with links to the external information center:

Table 1. Mapping of PDF topics to information center content types. This table lists the relationship between topics in the PDF and topics in the content types in the information center

| Set of topics in this publication | Location in the information center |
|-----------------------------------|------------------------------------|
| All topics | Diagnostics reference in Reference |

Data Areas

How the data areas are presented

The data areas are listed in alphabetical order of their shortened names. The shortened name usually, but not always, matches the first few characters of the data area name, disregarding the DFH prefix; for example DFHTCA is shortened to TCA. Some data areas are grouped together according to usage. If you do not find a data area under the expected short name, you should look in the table of contents or the index for the full name of the area or for the name of the macro or copy book that generates the area.

For each field in each data area, the following information is listed:

- The hexadecimal offset, in parentheses
- The data type and for bitstring values, the bit representation
- The length in bytes (decimal)
- The name (symbolic label)
- A brief description of the function

Where the name of a field is shown as an asterisk (*), the field is reserved.

Where bit settings are indicated, the symbolic labels that have been equated to the bit settings are given. These labels are used to refer to the numeric values in programs that use the data area, and are included in this book to help you understand the program listings. The offset given for one of these fields applies only to the symbolic label assigned to the field as a unit; it does not apply to the labels equated to bit settings (hex values).

Where a storage definition has a duplication factor, for example DCREGS (16), the length of the field is the length of each element of the storage. The total length of the storage is this length multiplied by the duplication factor which is shown in parentheses after the name

For EQUATE statements, the operand is shown in quotation marks in the description.

AID - Automatic initiate descriptor

```
CONTROL BLOCK NAME = DFHAIDDS
DESCRIPTIVE NAME = CICS TS Automatic Initiate Descriptor (AID).
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1991, 2008
FUNCTION =
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS = None
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
    MODULE TYPE = Control block definition
EXTERNAL REFERENCES =
    DATA AREAS =
    CONTROL BLOCKS =
    GLOBAL VARIABLES (Macro pass) = None
```

Table 2.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 152 | DFHAIDDS | AID control block |
| (0) | CHARACTER | 16 | AIDPRFX | AID prefix |
| (0) | UNSIGNED | 2 | AIDLEN | AID length |
| (2) | CHARACTER | 6 | AIDBLKID | Eye-catcher ('>DFHAP') |
| (8) | CHARACTER | 8 | AIDBLKNM | Control block name ('AID') |
| (10) | CHARACTER | 136 | AIDBODY | AID body |
| (10) | ADDRESS | 4 | AIDCHNFB | Forward chain pointer |
| (14) | ADDRESS | 4 | AIDCHNBNB | Backward chain pointer |
| (18) | CHARACTER | 128 | AIDDATA | AID data |

Substructure of AIDDATA

Table 3.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|--|
| (18) | STRUCTURE | 128 | AIDDATA_STRUCTURE | |
| (18) | CHARACTER | 4 | AIDTRMID | Terminal id |
| (1C) | CHARACTER | 4 | AIDTRNID | Transaction identification |
| (20) | CHARACTER | 1 | * | Reserved |
| (21) | CHARACTER | 4 | AIDSHSYS | Shipped via sysid |
| (25) | CHARACTER | 4 | AIDCURTR | Current terminal id |
| (29) | CHARACTER | 4 | AIDDEST | TD destination |
| (2D) | CHARACTER | 1 | AIDTYPE | Type of AID |
| (2E) | BIT(8) | 1 | AIDSTATI | AID status indicator |
| (2E) | 1... | | AIDPRIV | AID is for privileged allocate |
| (2E) | .1.. | | AIDSENT | This AID has been sent to TOR |
| (2E) | ..1. | | AIDCANCL | Cancel remote AID |
| (2E) | ...1 | | AIDROUTP | AID not yet routed to AOR |
| (2E) | 1... | | AIDSHIPD | Prevent duplicate send to tor |
| (2E) |1.. | | AIDREMX | AID for a remote transaction |
| (2E) |1. | | AIDREMT | AID for a remote terminal |
| (2E) |1 | | AIDSTTSK | Task initiated |
| (2F) | CHARACTER | 1 | * | Reserved |
| (30) | ADDRESS | 4 | AIDTCTA | TCTTE address |
| (30) | ADDRESS | 4 | AIDTCTSA | Skeleton TCTTE addr if terminal remotely owned |
| (34) | CHARACTER | 8 | AIDDATID | Data identification |
| (34) | CHARACTER | 2 | * | Request id |
| (36) | CHARACTER | 1 | * | x'FD' for BMS |
| (37) | CHARACTER | 4 | AIDMCRID | MCR identifier |

Table 3. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (37) | CHARACTER | 3 | AIDMSGID | Msg identifier |
| (3A) | CHARACTER | 1 | AIDTC | Terminal code |
| (3B) | CHARACTER | 1 | * | Reserved |
| (3C) | CHARACTER | 8 | AIDOVLY | overlay area |
| (3C) | CHARACTER | 8 | AIDNETSY | Netname/Sysid from XICTENF exit |
| (3C) | CHARACTER | 8 | AIDNETNM | Netname from XICTENF exit (from ICP to ALP via ICE) |
| (3C) | CHARACTER | 8 | * | |
| (3C) | CHARACTER | 4 | * | Reserved |
| (40) | CHARACTER | 4 | AIDSYSID | Sysid from XICTENF exit (from ICP to ALP via ICE) |
| (3C) | CHARACTER | 8 | * | AIDOVLY when AIDTYPE = AIDISC |
| (3C) | ADDRESS | 4 | AIDTCAA | Address of suspended TCA |
| (40) | CHARACTER | 4 | * | Reserved |
| (44) | CHARACTER | 8 | AIDMODEN | LU6.2 mode name |
| (4C) | CHARACTER | 1 | AIDTR | Transaction routing indicator |
| (4D) | CHARACTER | 1 | AIDFS | Function shipping indicator |
| (4E) | BIT(8) | 1 | AIDFLAGS | Flags |
| (4E) | 1... | | AIDSZ | Startcode SZ for FEPI |
| (4E) | .1.. | | AIDNPUR | Non purgeable allocate aid |
| (4E) | ..1. | | AIDPURGD | Aid purged |
| (4E) | ...1 | | AIDDYNTR | Dynamic transaction |
| (4E) | 1... | | AIDRECOV | PUT AID with recoverable TS data |
| (4E) |1.. | | AIDCRSRT | CRSR rescheduling bit |
| (4E) |1. | | AID_REROUTED | Aid is being rerouted to another TOR |
| (4E) |1 | | AIDRTST | Routable start |
| (4F) | BIT(8) | 1 | AIDFLAG2 | Second flag byte |
| (4F) | 1... | | AIDMRSCH | AID may be re-sched |
| (4F) | .111 1111 | | * | |
| (50) | CHARACTER | 4 | AIDSYST | System id of first system in route to terminal owner (usually = terminal owner) |
| (54) | CHARACTER | 4 | AIDTIMST | Time stamp |
| (58) | CHARACTER | 4 | AIDSYX | System id of first system in route to transaction owner (usually = transaction owner) |
| (5C) | BIT(8) | 1 | AIDVER | Verification flags for aid |

Table 3. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|--|
| (5C) | 1... | | AIDVERUN | Unchained |
| (5C) | .1.. | | AIDVERFR | Freed aid's storage |
| (5C) | ..1. | | AIDLTRM | AIDTRMID unknown |
| (5C) | ...1 1111 | | * | Reserved |
| (5D) | CHARACTER | 8 | AID_TERMINAL_NETNAME | Netname of target term |
| (65) | CHARACTER | 8 | AID_TOR_NETNAME | Netname of TOR |
| (6D) | CHARACTER | 8 | AID_TOR_NETNAMEO | Original TOR netname |
| (75) | CHARACTER | 1 | * | Reserved |
| (76) | HALFWORD | 2 | AID_START_DATA_LEN | Start data length |
| (78) | UNSIGNED | 4 | AID_CHANNEL_TOKEN | Channel Token |
| (7C) | CHARACTER | 12 | * | Reserved |
| (88) | CHARACTER | 4 | AIDLTID | Unknown TERMID |
| (8C) | CHARACTER | 12 | AIDVDATA | Variant structure, depending on AIDTYPE |
| (8C) | CHARACTER | 12 | AIDBMS_STRUCTURE | AIDVDATA when AIDTYPE=AIDBMS |
| (8C) | BIT(8) | 1 | AIDDOCTYP | Type of operator check reqd |
| (8C) | 1111 11.. | | * | Reserved |
| (8C) |1. | | AIDOCCL | Check operator class |
| (8C) |1 | | AIDOCID | Check operator id |
| (8D) | CHARACTER | 3 | AIDOPCHK | Operator check field |
| (90) | CHARACTER | 4 | AIDBMSTS | BMS time stamp |
| (94) | BIT(8) | 1 | AIDBMSCC | BMS control information |
| (94) | 1... | | AIDBMSMT | Message title is present |
| (94) | .111 1111 | | * | Reserved |
| (95) | CHARACTER | 3 | * | Reserved |
| (8C) | CHARACTER | 12 | AIDCRRD_STRUCTURE | AIDVDATA when AIDTYPE=AIDCRRD |
| (8C) | CHARACTER | 8 | AIDNETNA | Netname |
| (94) | CHARACTER | 4 | * | Reserved |
| (8C) | CHARACTER | 12 | AIDPUT_STRUCTURE | AIDVDATA when AIDTYPE = AIDPUT |
| (8C) | CHARACTER | 8 | * | Reserved |
| (94) | ADDRESS | 4 | AID_TRANNUM | TRANNUM of transaction that has been attached for this AID |

Constants

Table 4.

| Len | Type | Value | Name | Description |
|---------------------------------|------|-------|------|-------------|
| Length of the AID control block | | | | |

Table 4. (continued)

| Len | Type | Value | Name | Description |
|--|---------|-------|-----------------|--------------------------|
| 4 | DECIMAL | 152 | AIDAD | AID length |
| Possible values of AIDTYPE | | | | |
| 1 | HEX | 80 | AIDBMS | BMS - schedule request |
| 1 | HEX | 50 | AIDPUT | PUT - start with data |
| 1 | HEX | 40 | AIDINT | INT - start without data |
| 1 | HEX | 10 | AIDTDP | TDP - schedule request |
| 1 | HEX | 08 | AIDISC | ISC - allocate request |
| 1 | HEX | 04 | AIDCRRD | REMDL - remote delete |
| Values used in DFHIC get wait requests | | | | |
| 1 | DECIMAL | 0 | AID_GW_DATA | Resumed due to new data |
| 1 | DECIMAL | 4 | AID_GW_SHUTDOWN | Resumed due to shutdown |

AFCB - Authorized function blocks

CONTROL BLOCK NAME = DFHAFCB/AFTSTART/DFHAFCS.
 DESCRIPTIVE NAME = CICS TS (SVC) Authorised Function Blocks.
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 5655-Y04
 (C) Copyright IBM Corp. 1986, 2013
 FUNCTION = AUTHORISED FUNCTION CONTROL BLOCK.
 The CICS AFCB/AFT/AFCS structure consists of three types of control block:
 1. The AFCS. One per CICS Address Space.
 Addressed from AFTAFCS.
 2. The AFCB/AFT. One per authorised TCB.
 Addressed from TCBCAUF.
 In a Version 3 AFCB, what was previously the AFCB trailer at a variable offset from the AFCB, is now a prolog at a fixed negative offset, which can be addressed using "long displacement" instructions.
 $A(AFT) = A(AFCB) - 64$.
 LIFETIME = CICS Job.
 STORAGE CLASS =
 LOCATION =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition

 Also add AFLODRCB (for R32635)
 R63383 680 130515 HD0EGMA : Add SO domain SVC
 PRODUCT-SENSITIVE PROGRAMMING INTERFACE
 The following field forms part of the Product-Sensitive Programming Interface:
 AFCSA

Table 5.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 240 | DFHAFCB | |
| (0) | CHARACTER | 4 | AFIDENT | Eyecatcher: 'AFCX' |
| (4) | UNSIGNED | 1 | AFVER | Version and Release level. |
| (5) | UNSIGNED | 1 | AFSVCNO | CICS SVC no. |

Table 5. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (6) | HALFWORD | 2 | AFLENG | The value that must be added to the address of AFLSTBEG to obtain the address of the AFCB prolog. Negative in V3 AFCBs. |
| (8) | ADDRESS | 4 | AFCSA | ADDRESS OF CICS CSA |
| (C) | ADDRESS | 4 | AFAICB | ADDRESS OF APPL INTERFACE BLOCK |
| (10) | CHARACTER | 224 | AFLSTBEG | START OF ENTRIES |
| (10) | ADDRESS | 4 | AFCAFC | Address of AFCS block |
| (14) | ADDRESS | 4 | AFCKTCB | Address of Kernel TCB |
| (18) | ADDRESS | 4 | AFSRB | HPO SRB |
| (1C) | ADDRESS | 4 | AFHPSRB | TYPE 6 SVC ROUTINE - HPO SRB |
| (20) | ADDRESS | 4 | AFIRSVC | ADDRESS OF INTER-REGION SVC |
| (24) | ADDRESS | 4 | AFIRSUDB | Address of SUDB if logged on |
| (28) | ADDRESS | 4 | AFMON | MONITORING ROUTINE |
| (2C) | ADDRESS | 4 | AFMONCB | MONITORING CONTROL BLOCK ANCHOR |
| (30) | ADDRESS | 4 | AFSEC | SECURITY ROUTINE |
| (34) | ADDRESS | 4 | * | Security Anchor now in AFCS. |
| (38) | ADDRESS | 4 | AFPF | PAGE FIX/FREE |
| (3C) | ADDRESS | 4 | AFCHAIN | FIX/FREE RECORD CHAIN ANCH |
| (40) | ADDRESS | 4 | AFDEQ | ADDRESS OF THE DEQ ROUTINE |
| (44) | ADDRESS | 4 | AFDEQCB | ADD. OF DEQ WORK BLOCK |
| (48) | ADDRESS | 4 | AFPXT | Old VSAM subtask postexit - |
| (4C) | ADDRESS | 4 | AFPXTXA | - keep for coexistence with 2.1 |
| (50) | ADDRESS | 4 | AFSKP | Subtask Manager Routine. |
| (54) | ADDRESS | 4 | * | |
| (58) | ADDRESS | 4 | AFPSS | Spooler Routine. |
| (5C) | ADDRESS | 4 | AFPSSCB | Spooler Anchor. |
| (60) | ADDRESS | 4 | AFSDU | Old SDUMP. Keep for coexistence |
| (64) | ADDRESS | 4 | * | |
| (68) | ADDRESS | 4 | AFXRF | Xrf Routine. |
| (6C) | ADDRESS | 4 | * | |
| (70) | ADDRESS | 4 | AFINIT | AFCB Initial Authorisation. |

Table 5. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------|
| (74) | ADDRESS | 4 | * | |
| (78) | ADDRESS | 4 | AFINH | AFCB Inherit Authorisation. |
| (7C) | ADDRESS | 4 | * | |
| (80) | ADDRESS | 4 | AFLODR | Loader Routine. |
| (84) | ADDRESS | 4 | * | |
| (88) | ADDRESS | 4 | AFMFI | Monitoring Routine. |
| (8C) | ADDRESS | 4 | AFMFICB | Monitoring Auth Facil Anchor * |
| (90) | ADDRESS | 4 | AFSMR | Storage Management Routine |
| (94) | ADDRESS | 4 | * | |
| (98) | ADDRESS | 4 | AFAPR | AP Domain Bind Routine. |
| (9C) | ADDRESS | 4 | * | |
| (A0) | ADDRESS | 4 | AFDSP | Dispatcher Auth Facil routine |
| (A4) | ADDRESS | 4 | AFDSPTB | Dispatcher Auth block (DSAUTB) |
| (A8) | ADDRESS | 4 | AFDTSVC | Data Tables SVC routine |
| (AC) | ADDRESS | 4 | AFDTRGNP | Data Tables Region Anchor |
| (B0) | ADDRESS | 4 | AFXCINIT | INIT for EXCI environment |
| (B4) | ADDRESS | 4 | AFXCG | XCGLOBAL addr |
| (B8) | ADDRESS | 4 | AFXCSOMP | SDUMP routine for EXCI |
| (BC) | ADDRESS | 4 | * | Reserved |
| (C0) | ADDRESS | 4 | AFKESVC | Kernel SVC |
| (C4) | ADDRESS | 4 | * | Reserved |
| (C8) | ADDRESS | 4 | AFDUSVC | Dump SVC |
| (CC) | ADDRESS | 4 | * | Reserved |
| (D0) | ADDRESS | 4 | AFDMSVC | Domain mgr SVC |
| (D4) | ADDRESS | 4 | AFCBDMAN | DM ENF Anchor(-->DMAFS) |
| (D8) | ADDRESS | 4 | AFRXSVC | RX domain SVC routine |
| (DC) | ADDRESS | 4 | AFRXANCR | RX domain Anchor |
| (E0) | ADDRESS | 4 | AFMQSVC | CICS-MQ SVC routine |
| (E4) | ADDRESS | 4 | * | Reserved |
| (E8) | ADDRESS | 4 | AFSOSVC | SO domain SVC routine |
| (EC) | ADDRESS | 4 | * | Reserved |
| (F0) | CHARACTER | 0 | * | Ensure Double-Word length. |

Table 6.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 16 | AFTSTART | Authorized Function Prolog |

Table 6. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (0) | HALFWORD | 2 | AFTLENG | Length of AFCB Prolog. |
| (2) | BIT(8) | 1 | AFTFLG1 | Flag Byte. |
| (2) | 1... | | AFTQR | AFT for the QR TCB |
| (2) | .1.. | | AFTEXCI | AFCB belongs to an EXCI env |
| (2) | ..11 111. | | * | Reserved |
| (2) |1 | | AFTESSEN | This is an "essential" TCB |
| (3) | UNSIGNED | 1 | AFTJSKEY | CICS jobstep key |
| (4) | ADDRESS | 4 | AFTAFCS | Address of AFCS. |
| (8) | ADDRESS | 4 | AFTKTCB | Address of Kernel TCB Block. |
| (C) | HALFWORD | 2 | AFTDWLEN | Length of dword vector |
| (E) | HALFWORD | 2 | * | Reserved |
| (10) | CHARACTER | 0 | * | Ensure Double-Word length. |

AUTHORISED FUNCTION COMMON
CONTROL BLOCK

The authorised function common control block (AFCS) is used to control the authorised functions of the operating system. It is an anchor for the storage that can be shared by tasks using the CICS SVC paths. There is one AFCS per CICS address space. Each AFCB points to the single AFCS. Storage for the AFCS is obtained at initialization by DFHCSVC (MVS getmain from key 0 subpool 253), invoked from the Kernel.

Table 7.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|---|
| (0) | STRUCTURE | 136 | DFHAFCS | Auth Functions Common CB. |
| (0) | CHARACTER | 4 | AFCSID | Eye-catcher: 'AFCS' |
| (4) | UNSIGNED | 1 | AFCSVER | Version Number |
| (5) | BIT(8) | 1 | AFCS_FLAGS | Various Flags |
| (5) | 1... | | AFCS_ARM_REGISTERED | ARM register status |
| (5) | .1.. | | AFCS_3QSSBKND_XM_SUPPORTED | When 1, DFH3QSS's back-end routine resides in commonly-addressable storage and supports callers in cross-memory mode (PASN ^= HASN) |
| (6) | HALFWORD | 2 | AFCSLEN | Length of this Block. |
| (8) | ADDRESS | 4 | AFCSKCB | Kernel Anchor. |
| (C) | HALFWORD | 2 | AFCSCSVC | CICS Service SVC: X'0ANN'. |
| (E) | UNSIGNED | 1 | AFCSXRFD | If non-zero, some WTI Services Disabled |
| (F) | UNSIGNED | 1 | AFCS_CICS_KEY | CICS key N in X'N0' format |
| (10) | ADDRESS | 4 | AFCSSEC | Security Block Anchor. |

Table 7. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-------------------------------------|
| (14) | ADDRESS | 4 | AFCSDSP | Dispatcher global anchor (DSAUSB) |
| (18) | ADDRESS | 4 | AFCSCSAA | AP Domain CSA Address. |
| (1C) | CHARACTER | 8 | AFCSGAPD | Generic Applid. |
| (24) | CHARACTER | 8 | AFCSSAPD | Specific Applid. |
| (2C) | CHARACTER | 8 | AFCSCLTN | CLT Name. |
| (34) | ADDRESS | 4 | AFCSMFI | Monitoring Block Anchor. |
| (38) | CHARACTER | 8 | AFC SAXIN | Alternate Xrf Ids Table Name |
| (40) | ADDRESS | 4 | AFCSDXHP | -> DXH (SM domain) |
| (44) | ADDRESS | 4 | AFCSDMAN | -> DFHDMAPS (ENF anchor) |
| (48) | BIT(32) | 4 | AFC SCTKN | MVS WLM Connect token |
| (4C) | ADDRESS | 4 | AFCSC_EECTCB | A(CEEECTCB (LE init module)) |
| (50) | UNSIGNED | 1 | AFC SJSKY | Jobstep key |
| (51) | CHARACTER | 3 | * | Reserved |
| (54) | ADDRESS | 4 | * | Reserved |
| (58) | ADDRESS | 4 | * | Reserved |
| (5C) | ADDRESS | 4 | * | Reserved |
| (60) | ADDRESS | 4 | * | Reserved |
| (64) | ADDRESS | 4 | * | Reserved |
| (68) | ADDRESS | 4 | * | Reserved |
| (6C) | ADDRESS | 4 | AFCSC_3QSSBKND | Back-end rtn for DFH3QSS |
| (70) | ADDRESS | 4 | AFCSC_SMVA | SM MVS Storage mgr anchor |
| (74) | FULLWORD | 4 | AFC SLGLIM | Logon Limit for CICS |
| (78) | ADDRESS | 4 | AFCSGSAEP | A(GSAE header) |
| (7C) | ADDRESS | 4 | AFLODRCB | Loader Authorised Facilities Anchor |
| (80) | ADDRESS | 4 | AFC SVAT | Vendor Anchor Table |
| (84) | ADDRESS | 4 | * | reserved |
| (88) | CHARACTER | 0 | * | alignment |

Constants

Table 8.

| Len | Type | Value | Name | Description |
|-----|---------|-------|--------|--|
| 1 | DECIMAL | 1 | AFVER1 | AFCB version (Field AFVER) - CICS/OS/VS 1.7, 2.1 |
| 1 | DECIMAL | 2 | AFVER2 | AFCB version (Field AFVER) - CICS/ESA 3.1 |

Table 8. (continued)

| Len | Type | Value | Name | Description |
|-----|---------|-------|--------|----------------------------|
| 1 | DECIMAL | 3 | AFVER3 | AFCB version - CICS/TS 4.2 |

APSTG - Application domain global statistics

CONTROL BLOCK NAME = DFHAPSTG
 DESCRIPTIVE NAME = CICS TS AP Statistics Global Storage Block
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 5655-Y04
 (C) Copyright IBM Corp. 1987, 2008
 FUNCTION = This control block contains the time at which AP domain statistics were last reset and also a map of statistics resource types, statistics modules, module entry points and module status to enable DFHAPST to manage the collection of statistics in the AP domain.
 This module is part of the APPLICATION DOMAIN (AP).
 This control block is created the first time that DFHAPST is called to perform a statistics function in the AP domain. The control block persists until CICS is shutdown (whether literally or 'logically' via the 'end-of-day' command).
 LIFETIME = This control block is created by DFHAPST the first time it is called. The control block is not explicitly deleted by DFHAPST but the pointer to it is lost when CICS is terminated.
 STORAGE CLASS = n/a
 LOCATION = The address field CSAAPSTG in the CSAOPFL points to the beginning of this control block.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = n/a
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = none
 GLOBAL VARIABLES (Macro pass) = none

Standard header tag so that the block can be found in storage.
 Last-reset-time field which contains the time in MVS STCK format when statistics counters in the AP domain were last reset.
 A map of:
 Restype---->
 Module---->
 Entry point---->
 Status

The map relates resource types to the modules that access the statistics for those resource types and to an entry point for the module and to a status which shows whether statistics for that resource type/id are available.

Table 9.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-------|---------------------|-------------|
| (0) | STRUCTURE | 14672 | APST_GLOBAL_STORAGE | |
| (0) | CHARACTER | 16 | STORAGE_PREFIX | |
| (0) | HALFWORD | 2 | STORAGE_LENGTH | |

Table 9. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-------|--|-------------|
| (2) | CHARACTER | 1 | STANDARD_ARROW | |
| (3) | CHARACTER | 3 | STANDARD_DFH | |
| (6) | CHARACTER | 2 | STORAGE_DOMAIN_ID | |
| (8) | CHARACTER | 8 | STORAGE_BLOCK_NAME | |
| (10) | CHARACTER | 8 | AP_LAST_RESET_TIME | |
| (18) | CHARACTER | 24 | RESOURCE_STATE_MAP (4294967309:341915656) | |
| (18) | CHARACTER | 8 | RESOURCE_NAME | |
| (20) | CHARACTER | 8 | RESOURCE_MODULE | |
| (28) | ADDRESS | 4 | RESOURCE_MODULE_ENTRY_POINT | |
| (2C) | BIT(8) | 1 | RESOURCE_STATUS | |
| (150) | CHARACTER | 14336 | STATS_BUFFER_LARGE | |

Constants

Table 10.

| Len | Type | Value | Name | Description |
|--|-----------|----------|------------------------|-------------|
| 1 | CHARACTER | > | ARROW | |
| Resource names are <=8 char, padded to 8 char with blanks Module names are <=8 char, padded to 8 char with blanks Status of resource type/id can be one of the following | | | | |
| 1 | BIT | 00000000 | NO_STATS_AVAILABLE | |
| 1 | BIT | 01000000 | ID_STATS_UNAVAILABLE | |
| 1 | BIT | 10000000 | TYPE_STATS_UNAVAILABLE | |
| 1 | BIT | 11000000 | ALL_STATS_AVAILABLE | |
| These two variables are used to define the storage required for the AP stats control block. They are used in the call to Storage Domain to obtain the storage. | | | | |
| 8 | CHARACTER | APSTGBST | CONTROL_BLOCK_NAME | |
| 2 | DECIMAL | 14672 | CONTROL_BLOCK_LENGTH | |
| Total number of mappings is the number of resources in the AP domain for which statistics are collected. | | | | |
| 2 | DECIMAL | 13 | TOTAL_MAPPINGS | * |
| Offsets in mapping used for module loading optimisation. | | | | |
| 2 | DECIMAL | 6 | TERMINAL_MAP_OFFSET | * |
| 2 | DECIMAL | 8 | VTAM_MAP_OFFSET | * |

APXDC - Application domain trandef extension

CONTROL BLOCK NAME = DFHAPXDC
 DESCRIPTIVE NAME = CICS TS (AP) Transaction definition extension
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5655-Y04
 (C) Copyright IBM Corp. 1992, 1998
 FUNCTION = This copybook describes the AP domain transaction definition related control block.
 This copy book describes the control block which is anchored from the AP domain token in the transaction definition. The main purpose of the control block is to allow AP domain to optimize AP actions at attach/detach.
 There will be one instance of this control block for every transaction definition instance in the region.
 LIFETIME = associated with a transaction definition instance
 STORAGE CLASS = SUBPOOL(CSZAPXDS)
 CICS key, 31 bit, Fixed length
 LOCATION = This control block addressed via the first word in the AP domain transaction definition related token and can be addressed using the DFHMXDI macro.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = none
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = none
 GLOBAL VARIABLES (Macro pass) = none

Table 11.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|--------------------------------|
| (0) | STRUCTURE | 72 | DFHAPXDC | AP trandef extension |
| (0) | CHARACTER | 16 | APXD_EYE | Standard eye catcher |
| (0) | HALFWORD | 2 | APXD_EYE_LEN | control block length |
| (2) | CHARACTER | 14 | APXD_EYE_NAME | >DFHAP_APXD |
| (10) | FULLWORD | 4 | APXD_COUNT | check count for serviceability |
| (14) | BIT(8) | 1 | APXD_FLAGS1 | Various flags |
| (14) | 1... | | APXD_CEE_ENABLED | Txn uses CEE work area |
| (14) | .1.. | | APXD_TDLA | Txn uses taskdataloc(any) |
| (15) | BIT(8) | 1 | * | Reserved |
| (16) | UNSIGNED | 2 | APXD_USTG_SIZE | total size of AP_USER_TXN |
| (18) | CHARACTER | 8 | APXD_SUBPOOL | TCA subpool token |
| (20) | CHARACTER | 8 | APXD_PPF | Profile area |
| (20) | UNSIGNED | 4 | APXD_PPF_CHANGECOUNT | validation counter |
| (24) | ADDRESS | 4 | APXD_PPF_PTR | profile address |
| (28) | CHARACTER | 8 | APXD_TRPPF | Tran routing profile area |
| (28) | UNSIGNED | 4 | APXD_TRPPF_CHANGECOUNT | validation counter |
| (2C) | ADDRESS | 4 | APXD_TRPPF_PTR | profile address |
| (30) | CHARACTER | 8 | APXD_TCTS | Tran routing tcse area |
| (30) | UNSIGNED | 4 | APXD_TCTS_CHANGECOUNT | validation counter |
| (34) | ADDRESS | 4 | APXD_TCTS_PTR | TCSE address |
| (38) | CHARACTER | 8 | APXD_D2_TOKEN | CICS/DB2 token |

Table 11. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|------------------------------------|
| (38) | UNSIGNED | 4 | APXD_D2_TOKEN_COUNT | validation counter |
| (3C) | ADDRESS | 4 | APXD_D2_TOKEN_PTR | RCTE addr (entry \| pool \| comd) |
| (40) | CHARACTER | 8 | APXD_RUWA_TOKEN | LE ruwa token |
| (40) | UNSIGNED | 4 | APXD_RUWA_ONESIZE | size of one ruwa |
| (44) | UNSIGNED | 4 | APXD_RUWA_POOLSIZ | size of ruwa pool |
| (48) | CHARACTER | 0 | * | end |

A03 - VTAM global statistics

CONTROL BLOCK NAME = DFHA03DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA03PS
DESCRIPTIVE NAME = CICS TS VTAM global Statistics.
Licensed Materials - Property of IBM
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5655-Y04
(C) Copyright IBM Corp. 1986, 2008
FUNCTION = This DSECT describes VTAM global statistics.
The data described by this DSECT is placed in storage by
DFHSTVT, one of the the statistics modules in the AP domain.
It contains VTAM global statistics.
The same DSECT describes the system and user copies of the
statistics. Several copies of the statistics may exist until
the callers request has been satisfied.
LIFETIME = The storage area is created when a request for VTAM
global stats is received. It is released when the caller
has acknowledged receipt of the data .
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = DFHTCTFX TCTVRAHC
DFHTCTFX TCTVRANT
DFHTCTTE TCTEDVSC
DFHTCTFX TCTVDOC
GLOBAL VARIABLES (Macro pass) = none

Table 12.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 0 | DFHA03DS | VTAM statistics (Global) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A03LEN | Length of data area |
| (0) | ...1 .1.1 | | A03IDE | "0021" VTAM global stats mask |
| (2) | ADDRESS | 2 | A03ID | VTAM global storage id |
| (2) |1 | | A03VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A03DVERS | VTAM stats version number |

Table 12. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (5) | CHARACTER | 3 | | Reserved |
| (8) | | 4 | A03RPLXT | Times at RPL max |
| (C) | | 2 | A03RPLX | Max RPLs posted |
| (E) | BITSTRING | 2 | A03VTSOS | VTAM SOS |
| (10) | HALFWORD | 2 | A03DOC | Dynamic open count |
| (12) | HALFWORD | 2 | | Reserved |
| (14) | FULLWORD | 4 | A03LUNUM | Current LUs in session |
| (18) | FULLWORD | 4 | A03LUHWM | HWM LUs in session |
| (1C) | FULLWORD | 4 | A03PSIC | PRSS inquire count |
| (20) | FULLWORD | 4 | A03PSNC | PRSS nib count |
| (24) | FULLWORD | 4 | A03PSOC | PRSS opndst count |
| (28) | FULLWORD | 4 | A03PSUC | PRSS unbind count |
| (2C) | FULLWORD | 4 | A03PSEC | PRSS error count |
| (30) | CHARACTER | 4 | A03PSTYP | SNPS/MNPS/NOPS - Persistency |
| (34) | | 4 | A03PSDIN | PSDINT - Format 0hhmmss |
| (34) | ..11 1... | | A03END | "1%1" |
| (34) | ..11 1... | | A03CLEN | "*-A03LEN" Length of DSECT |

A04 - Autoinstall statistics

```

CONTROL BLOCK NAME = DFHA04DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA04PS
DESCRIPTIVE NAME = CICS TS Autoinstall Statistics.
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1986, 2002
FUNCTION = This DSECT describes Autoinstall statistics.
    + Shipped remote definition statistics.
    The data described by this DSECT is placed in storage by
    DFHAPST, the statistics module in the AP domain.
    It contains autoinstall statistics.
    The same DSECT describes the system and user copies of the
    statistics. Several copies of the statistics may exist until
    the callers request has been satisfied.
LIFETIME = The storage area is created when a request for
    autoinstall global stats is received. It is released when
    the caller has acknowledged receipt of the data .
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = DFHTCTFX TCTVADAT
                  DFHTCTFX TCTVADRJ
                  DFTTCTTE TCTVADLO

```


DFHTCTFX TCTVADPK
DFHTCTFX TCTVADPX
DFHTCTFX TCTVADQT
DFHTCTFX TCTVADQK
DFHTCTFX TCTVADQX
GLOBAL VARIABLES (Macro pass) = none

Table 13.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--------------------------------------|
| (0) | STRUCTURE | 0 | DFHA04DS | Autoinstall statistics (Global) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A04LEN | Length of data area |
| (0) | ...1 1... | | A04IDE | "0024" Autoinstall global stats mask |
| (2) | ADDRESS | 2 | A04ID | Autoinstall global storage id |
| (2) |1 | | A04VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A04DVERS | stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | A04VADAT | Total attempts |
| (C) | HALFWORD | 2 | A04VADSH | Times setlogon hold issued |
| (E) | CHARACTER | 2 | | Reserved |
| (10) | FULLWORD | 4 | A04VADRJ | Total rejected |
| (14) | FULLWORD | 4 | A04VADLO | Total deleted |
| (18) | HALFWORD | 2 | A04VADPK | Peak concurrent attempts |
| (1A) | HALFWORD | 2 | A04VADPX | Times peak reached |
| (1C) | FULLWORD | 4 | A04VADQT | No. queued logons |
| (20) | HALFWORD | 2 | A04VADQK | Peak of Q'd logons |
| (22) | HALFWORD | 2 | A04VADQX | No. times peak is reached |
| Remote statistics - shipped definitions | | | | |
| (24) | | 4 | A04RDINT | Shipped delete interval |
| (28) | | 4 | A04RDIDL | Shipped delete idle time |
| (2C) | FULLWORD | 4 | A04SKBLT | Remote terminals built |
| (30) | FULLWORD | 4 | A04SKINS | Remote terminals installed |
| (34) | FULLWORD | 4 | A04SKDEL | Remote terminals deleted |
| (38) | FULLWORD | 4 | A04TIEXP | Times interval expired |
| (3C) | FULLWORD | 4 | A04RDREC | # remdels received |
| (40) | FULLWORD | 4 | A04RDISS | # remdels issued |
| (44) | FULLWORD | 4 | A04RDDEL | # remdel deletes |
| (48) | FULLWORD | 4 | A04CIDCT | Current idle count |
| (4C) | CHARACTER | 8 | A04CIDLE | Current idle time |
| (54) | CHARACTER | 8 | A04CMAXI | Current maximum idle time |
| (5C) | FULLWORD | 4 | A04TIDCT | Total idle count |
| (60) | CHARACTER | 8 | A04TIDLE | Total idle time |

Table 13. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (68) | CHARACTER | 8 | A04TMAXI | Maximum idle time |
| (68) | .111 | | A04END | "15g" |
| (68) | .111 | | A04CLEN | "*-A04LEN" Length of DSECT |

A06 - Terminal statistics

CONTROL BLOCK NAME = DFHA06DS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHA06PS
 DESCRIPTIVE NAME = CICS TS Terminal Statistics.
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1986, 1995
 FUNCTION = This DSECT describes the terminal statistics maintained in the AP domain.
 The data represents the statistics maintained for each terminal. It is used by DFHAPST to map the data in the statistics domain call data buffer. It is also used by DFHSTUP and user programs to map the same data.
 LIFETIME = Duration of the domain call.
 LOCATION = Caller is passed a pointer to the head of the block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = DFHTCTTE TCTLENP
 DFHTCTTE TCTTETI
 DFHTCTTE TCTTENI
 DFHTCTTE TCTTETO
 DFHTCTTE TCTTETE
 DFHTCTTE TCTTEOT
 DFHTCTTE TCTTEOE
 DFHTCTTE TCTTESVC
 DFHTCTTE TCTETCNT
 DFHTCTTE TCTEMCNT
 DFHTCTTE TCTECCNT
 DFHTCTTE TCTTETT
 DFHTCTTE TCTEAMIB
 GLOBAL VARIABLES (Macro pass) = None

Table 14.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------------|
| (0) | STRUCTURE | 0 | DFHA06DS | Terminal Stats DSECT (RESID & TOTAL) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A06LEN | Length of data area |
| (0) | ..1. ..1. | | A06IDR | "34" Terminal RESID stats id mask |
| (0) | .1.1 ..1. | | A06IDL | "82" BTAM line stats id mask. |

Table 14. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|------------------------------------|
| The next field should be loaded with one of the two previous values | | | | |
| (2) | ADDRESS | 2 | A06ID | Terminal stats id |
| (2) |1 | | A06VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A06DVERS | Terminal statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 4 | A06TETI | Terminal id |
| (C) | BITSTRING | 1 | A06TETT | Terminal type (cf TCTTTET) |
| (D) | BITSTRING | 1 | A06EAMIB | Access method (cf TCTEAMIB) |
| (E) | CHARACTER | 2 | | Reserved |
| (10) | | 4 | A06LENP | Number of polls |
| (14) | BITSTRING | 4 | A06TENI | Input messages |
| (18) | BITSTRING | 4 | A06TEN0 | Output messages |
| (1C) | BITSTRING | 4 | A06TEOT | Number of transactions |
| (20) | FULLWORD | 4 | A06CSVC | Storage violations |
| (24) | BITSTRING | 4 | A06TETE | Transmission errors |
| (28) | BITSTRING | 4 | A06TEOE | Transaction errors |
| (2C) | FULLWORD | 4 | A06TCNT | Pipeline messages (Total) |
| (30) | FULLWORD | 4 | A06SCNT | Pipeline messages (Groups) |
| (34) | HALFWORD | 2 | A06MCNT | Pipeline messages (Max consec) |
| (36) | HALFWORD | 2 | | Reserved |
| (38) | CHARACTER | 8 | A06LUNAM | LU Name |
| (40) | CHARACTER | 1 | A06PRTY | Terminal Priority |
| (41) | CHARACTER | 3 | | Reserved |
| (44) | FULLWORD | 4 | A06STG | TIOA Storage |
| (48) | CHARACTER | 4 | A06SYSID | Owning SYSID of terminal/session |
| (4C) | BITSTRING | 8 | A06ONTM | Autoinstall logon time (Local) |
| (54) | BITSTRING | 8 | A06OFFTM | Autoinstall logoff time (Local) |
| (5C) | BITSTRING | 8 | A06GONTM | Autoinstall logon time (GMT) |
| (64) | BITSTRING | 8 | A06GOFTM | Autoinstall logoff time (GMT) |
| (64) | .11. 11.. | | A06END | "*" |
| (64) | .11. 11.. | | A06CLEN | "*-A06LEN" Length of DSECT |

A08 - LSR pool statistics

```

CONTROL BLOCK NAME = DFHA08DS
NAME OF MATCHING PLX CONTROL BLOCK = DFHA08PS
DESCRIPTIVE NAME = CICS TS Statistics for LSR Pools.
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1986, 1997
FUNCTION = This data block describes the LSR Pool Statistics
    for a specified LSR Pool and totals for all pools.
    The data described here is placed in storage by DFHAPST.
    This DSECT is also used by DFHSTUP and user programs to
    to map the statistics block.
LIFETIME = The storage area is created when a request for AP
    domain File Control statistics is received. It is
    released when the caller has acknowledged receipt of
    the data.
LOCATION = The caller is passed a pointer to the head of the block.
INNER CONTROL BLOCKS = None
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = DFHFCTSR FCTSRPID
                  DFHFCSBK FSCBKCTD
                  DFHFCSBK FSCBKDTD
                  DFHFCSBK FCSBK KYL
                  DFHFCSBK FCSBKSTN
                  DFHFCSBK FCSBKHSW
                  DFHFCSBK FCSBKHAS
                  DFHFCSBK FCSBKBSZ
                  DFHFCSBK FCSBKBFN
                  DFHFCSBK FCSBK BFF
                  DFHFCSBK FCSBKFRD
                  DFHFCSBK FCSBKUIW
                  DFHFCSBK FCSBKNUW
GLOBAL VARIABLES (Macro pass) = None
-----

```

Table 15.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 0 | DFHA08DS | LSRPOOL statistics (RESID & TOTALS) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A08LEN | Length of data area |
| (0) | ..1. .111 | | A08IDR | "39" LSR pool stats RESID id mask |
| The next field should be loaded with the previous value | | | | |
| (2) | ADDRESS | 2 | A08ID | LSR pool id |
| (2) |1 | | A08VERS | "X'01'" DSECT version number mask |
| (4) | CHARACTER | 1 | A08DVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | ADDRESS | 1 | A08SRPID | LSR pool number |
| (9) | BITSTRING | 1 | A08FLAGS | Flags |

Table 15. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|--------------------------------------|
| (9) | 1... | | A08IDSEP | "X'80" Separate index and data pools |
| (A) | CHARACTER | 2 | | Reserved |
| (C) | CHARACTER | 8 | A08LBKCD | Time pool created (Local STCK) |
| (14) | CHARACTER | 8 | A08LBKDD | Time pool deleted (Local STCK) |
| (1C) | CHARACTER | 8 | A08GBKCD | Time pool created (GMT STCK) |
| (24) | CHARACTER | 8 | A08GBKDD | Time pool deleted (GMT STCK) |
| (2C) | HALFWORD | 2 | A08BKKYL | Max key length |
| (2E) | HALFWORD | 2 | A08BKSTN | No. of strings |
| (30) | HALFWORD | 2 | A08BKHSW | Peak reqs waiting on string |
| (32) | HALFWORD | 2 | | Reserved |
| (34) | FULLWORD | 4 | A08BKTSW | Total No. reqs waiting on string |
| (38) | HALFWORD | 2 | A08BKHAS | Peak No. conc active FC strings |
| (3A) | HALFWORD | 2 | | Reserved |
| (3A) | 1.11 | | A08NBS | "11" Number of buffer sizes |
| (3C) | FULLWORD | 4 | A08TOBFN_DATA | Total no. of data buffers |
| (40) | FULLWORD | 4 | A08TOHBN_DATA | Total data hiperspace buffs |
| (44) | FULLWORD | 4 | A08TOBFF_DATA | Total no. successful look asides |
| (48) | FULLWORD | 4 | A08TOFRD_DATA | Total no. buffer reads |
| (4C) | FULLWORD | 4 | A08TOUIW_DATA | Total no. user initiated writes |
| (50) | FULLWORD | 4 | A08TONUW_DATA | Total no. non-user initiated writes |
| (54) | FULLWORD | 4 | A08TOCRS_DATA | Total no. successful CREAD |
| (58) | FULLWORD | 4 | A08TOCWS_DATA | Total no. successful CWRITE |
| (5C) | FULLWORD | 4 | A08TOCRF_DATA | Total no. failing CREAD |
| (60) | FULLWORD | 4 | A08TOCWF_DATA | Total no. failing CWRITE |
| (64) | FULLWORD | 4 | A08TOBFN_INDX | Total no. of index buffers |
| (68) | FULLWORD | 4 | A08TOHBN_INDX | Total indx hiperspace buffs |
| (6C) | FULLWORD | 4 | A08TOBFF_INDX | Total no. successful look asides |
| (70) | FULLWORD | 4 | A08TOFRD_INDX | Total no. buffer reads |
| (74) | FULLWORD | 4 | A08TOUIW_INDX | Total no. user initiated writes |
| (78) | FULLWORD | 4 | A08TONUW_INDX | Total no. non-user initiated writes |
| (7C) | FULLWORD | 4 | A08TOCRS_INDX | Total no. successful CREAD |

Table 15. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|---|
| (80) | FULLWORD | 4 | A08TOCWS_INDEX | Total no. successful CWRITE |
| (84) | FULLWORD | 4 | A08TOCRF_INDEX | Total no. failing CREAD |
| (88) | FULLWORD | 4 | A08TOCWF_INDEX | Total no. failing CWRITE |
| (88) | 1... 11.. | | A08END | "*" |
| (88) | 1... 11.. | | A08CLEN | "*-A08LEN" Length of common part of DSECT |
| (8C) | CHARACTER | 1 | A08BSTAT | Buffer size statistics for data and index buffers |
| (8C) | | 0 | A08DLEN | "*-A08LEN" Length of DSECT |

The following DSECT is repeated for each buffer size in the pool.
 If separate index and data buffers are NOT being used, there will be A08NBS repeats of this DSECT, one for each buffer. If separate data and index buffers are being used (A08IDSEP flag set) there will be A08NBS 2 repeats of this DSECT (A08NBS for the data buffers followed by A08NBS for the index buffers).

Table 16.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | A08BSSDS | Statistics by buffer size |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | ADDRESS | 2 | A08BKBSZ | Buffer size |
| (2) | HALFWORD | 2 | A08BKBFN | No. of buffers |
| (4) | FULLWORD | 4 | A08BKHBN | No. of hiperspace buffers |
| (8) | FULLWORD | 4 | A08BKBFN | No. successful look asides |
| (C) | FULLWORD | 4 | A08BKFRD | No. buffer reads |
| (10) | FULLWORD | 4 | A08BKUIW | No. user initiated buffer writes |
| (14) | FULLWORD | 4 | A08BKNUW | No. non-user initiated buffer writes |
| (18) | FULLWORD | 4 | A08BKCWS | No. successful CREAD |
| (1C) | FULLWORD | 4 | A08BKCWS | No. successful CWRITE |
| (20) | FULLWORD | 4 | A08BKCRF | No. failing CREAD |
| (24) | FULLWORD | 4 | A08BKCWF | No. failing CWRITE |
| (24) | ..1. 1... | | A08BEND | "*" End of Buffer stats |
| (24) | ..1. 1... | | A08BLEN | "*-A08BSSDS" Length of stats for a buffer size |

A09 - File specific statistics

CONTROL BLOCK NAME = DFHA09DS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHA09PS
 DESCRIPTIVE NAME = CICS TS File specific Statistics for LSR Pools.
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FUNCTION = This data block describes the LSR Pool file related Statistics for a specified LSR Pool and totals for all files in the pool.
The data described here is placed in storage by DFHAPST. This DSECT is also used by DFHSTUP and user programs to map the statistics block.

LIFETIME = The storage area is created when a request for AP domain Transient data statistics is received. It is released when the caller has acknowledged receipt of the data.

LOCATION = The caller is passed a pointer to the head of the block.

INNER CONTROL BLOCKS = None

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None

DATA AREAS = None

CONTROL BLOCKS = DFHFCTDS FCTDSDBN
DFHFCTDS FCTDSID
DFHFCTDS FCTDSIBN
DFHFCTDS FCTDSCBW
DFHFCTDS FCTDSHBW
DFHFCTDS FCTDSTBW

GLOBAL VARIABLES (Macro pass) = None

Table 17.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHA09DS | LSRPOOL statistics (File specifics) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A09LEN | Length of data area |
| (0) | ..1. 1... | | A09IDR | "40" LSR pool file stats RESID id mask |
| (0) | ..1. 1..1 | | A09IDT | "41" LSR pool file stats TOTALS id mask |
| The next field should be loaded with one of the two previous values | | | | |
| (2) | ADDRESS | 2 | A09ID | LSR pool id |
| (2) |1 | | A09VERS | "X'01'" DSECT version number mask |
| (4) | CHARACTER | 1 | A09DVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | HALFWORD | 2 | A09SRPID | LSR pool number |
| (A) | CHARACTER | 8 | A09DSID | Filename |
| (12) | HALFWORD | 2 | A09DBN | Data buffer size |
| (14) | HALFWORD | 2 | A09IBN | Index buffer size |
| (16) | HALFWORD | 2 | | Reserved |
| If this is a totals record only the next field contains data | | | | |
| (18) | FULLWORD | 4 | A09TBW | Total buffer waits |
| (1C) | HALFWORD | 2 | A09HBW | Highest buffer waits |
| (1C) | ...1 111. | | A09END | "1" > "1" |

Table 17. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (1C) | ...1 111. | | A09CLEN | "*-A09LEN" Length of DSECT |

A14 - ISC/IRC statistics

```

CONTROL BLOCK NAME = DFHA14DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA14PS
DESCRIPTIVE NAME = CICS TS ISC/IRC Statistics - system entries.
    Licensed Materials - Property of IBM
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    5655-Y04
    (C) Copyright IBM Corp. 1986, 2009
FUNCTION = This DSECT describes ISC/IRC statistics.
    The data described by this DSECT is placed in storage by
    DFHSTLK, the statistics module in the AP domain.
    It contains IRC Batch statistics.
    The same DSECT describes the system and user copies of the
    statistics. Several copies of the statistics may exist until
    the callers request has been satisfied.
    Mode entry statistics are described in the DFHA20DS DSECT.
LIFETIME = The storage area is created when a request for
    ISC/IRC Stats is received. It is released
    when the caller has acknowledged receipt of the data .
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = DFHTCTTE TCTTETI
                  DFHTCTTE TCSEALL
                  DFHTCTTE TCSESALL
                  DFHTCTTE TCSEBID
                  DFHTCTTE TCSESTAM
                  DFHTCTTE TCSE1HWM
                  DFHTCTTE TCSE2HWM
                  DFHTCTTE TCSEBHWM
                  DFHTCTTE TCSES1
                  DFHTCTTE TCSES2
                  DFHTCTTE TCSESBID
                  DFHTCTTE TCSESTAS
                  DFHTCTTE TCSESTAQ
                  DFHTCTTE TCSESTAF
                  DFHTCTTE TCSESTAO
                  DFHTCTTE TCSESTFC
                  DFHTCTTE TCSESTIC
                  DFHTCTTE TCSESTTD
                  DFHTCTTE TCSESTTS
                  DFHTCTTE TCSESTD
                  DFHTCTTE TCSESTTC
                  DFHTCTTE TCSEALRJ
                  DFHTCTTE TCSEQPCT
                  DFHTCTTE TCSEMXQT
                  DFHTCTTE TCSEALIM
                  DFHTCTTE TCSEMQPC
                  DFHTCTTE TCSEZQRJ
                  DFHTCTTE TCSEZQPU
                  DFHTCTTE TCSEZQPC
                  DFHTCTTE TCSESID

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DFHTCTTE TCSACCM
DFHTCTTE TCSEFLGS
DFHTCTTE TCSESECN
DFHTCTTE TCSEPRMN
DFHTCTTE TCSE1RY
DFHTCTTE TCSE2RY
GLOBAL VARIABLES (Macro pass) = none

Table 18.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 0 | DFHA14DS | ISC/IRC statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A14LEN | Length of data area |
| (0) | ..11 .1.. | | A14IDR | "0052" ISC/IRC RESID stats mask |
| (0) | ..11 .1.1 | | A14IDT | "0053" ISC/IRC Stats Totals Mask |
| The next field should be loaded to one of the two previous values | | | | |
| (2) | ADDRESS | 2 | A14ID | ISC/IRC id |
| (2) |1 | | A14VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A14DVERS | ISC/IRC stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 4 | A14CNTN | Connection name |
| (C) | HALFWORD | 2 | A14EALL | Aids in chain |
| (E) | HALFWORD | 2 | A14ESALL | Generic AIDS in chain |
| (10) | HALFWORD | 2 | A14EBID | Current bids |
| (12) | HALFWORD | 2 | A14ESTAM | Max outstanding allocates |
| (14) | HALFWORD | 2 | A14E2HWM | Max secondaries |
| (16) | HALFWORD | 2 | A14EBHWM | Max bids |
| (18) | FULLWORD | 4 | A14ES1 | ATIs satisfied by primaries |
| (1C) | FULLWORD | 4 | A14ES2 | ATIs satisfied by secondaries |
| (20) | FULLWORD | 4 | A14ESBID | Bids sent |
| (24) | FULLWORD | 4 | A14ESTAS | Total allocates |
| (28) | FULLWORD | 4 | A14ESTAQ | Queued allocates |
| (2C) | FULLWORD | 4 | A14ESTAF | Failed link allocates |
| (30) | FULLWORD | 4 | A14ESTAO | Failed - other reasons |
| (34) | FULLWORD | 4 | A14ESTFC | File control function shipping reqs |
| (38) | FULLWORD | 4 | A14ESTIC | Intv control function shipping reqs |
| (3C) | FULLWORD | 4 | A14ESTTD | TD function shipping reqs |
| (40) | FULLWORD | 4 | A14ESTTS | TS function shipping reqs |
| (44) | FULLWORD | 4 | A14ESTDL | DL/I function shipping reqs |

Table 18. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|-------------------------------------|
| (48) | FULLWORD | 4 | A14ESTTC | Terminal sharing reqs |
| (4C) | HALFWORD | 2 | A14E1HWM | Max primaries |
| (4E) | HALFWORD | 2 | A14EQPCT | MAXQTIME purge count |
| (50) | FULLWORD | 4 | A14EALRJ | Allocates rejected (QLIMIT) |
| (54) | HALFWORD | 2 | A14EMXQT | Max queue time |
| (56) | HALFWORD | 2 | A14EALIM | Allocate queue limit |
| (58) | FULLWORD | 4 | A14EZQRJ | XZIQUE rejects |
| (5C) | HALFWORD | 2 | A14EZQPU | XZIQUE purge count |
| (5E) | HALFWORD | 2 | A14EZQPC | XZIQUE allocates purged |
| (60) | HALFWORD | 2 | A14EMQPC | MAXQTIME allocates purged |
| (62) | CHARACTER | 6 | | Reserved |
| (68) | DBL WORD | 8 | A14GACT | AI GMT conn create time |
| (70) | DBL WORD | 8 | A14AICT | AI conn create time |
| (78) | DBL WORD | 8 | A14GADT | AI GMT conn delete time |
| (80) | DBL WORD | 8 | A14AIDT | AI conn delete time |
| (88) | FULLWORD | 4 | | Reserved |
| (8C) | CHARACTER | 8 | A14ESID | Connection netname |
| (94) | BITSTRING | 1 | A14ACCM | Access method |
| (95) | BITSTRING | 1 | A14EFLGS | Protocol |
| (96) | HALFWORD | 2 | A14ESECN | Send session count |
| (98) | HALFWORD | 2 | A14EPRMN | Receive session count |
| (9A) | HALFWORD | 2 | A14E1RY | Primaries currently used |
| (9C) | HALFWORD | 2 | A14E2RY | Secondaries currently used |
| (9E) | CHARACTER | 2 | | Reserved |
| (A0) | FULLWORD | 4 | A14ESTPC | Program Control funct ship reqs |
| (A4) | FULLWORD | 4 | A14ESTPC_CHANNEL | Program Control FS Channel reqs |
| (A8) | BITSTRING | 8 | A14ESTPC_CHANNEL_SENT | Bytes sent PC FS Channel reqs |
| (B0) | BITSTRING | 8 | A14ESTPC_CHANNEL_RCVD | Bytes received PC FS Channel reqs |
| (B8) | FULLWORD | 4 | A14ESTTC_CHANNEL | Terminal Sharing Channel reqs |
| (BC) | BITSTRING | 8 | A14ESTTC_CHANNEL_SENT | Bytes sent Term Sharing Channel |
| (C4) | BITSTRING | 8 | A14ESTTC_CHANNEL_RCVD | Bytes received Term Sharing Channel |
| (CC) | FULLWORD | 4 | A14ESTIC_CHANNEL | Interval Control FS Channel reqs |
| (D0) | BITSTRING | 8 | A14ESTIC_CHANNEL_SENT | Bytes sent IC FS Channel reqs |

Table 18. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-------------|-----|-------------------------|--------------------------------------|
| (D8) | BITSTRING | 8 | A14ESTIC_CHANNEL_RCVD | Bytes received IC FS Channel reqs |
| (E0) | CHARACTER | 8 | A14_DEFINE_SOURCE | Group installed from |
| (E8) | BITSTRING | 8 | A14_CHANGE_TIME | Change/create time |
| (F0) | CHARACTER | 8 | A14_CHANGE_USERID | Change userid |
| (F8) | BITSTRING | 2 | A14_CHANGE_AGENT | Change agent |
| (FA) | BITSTRING | 2 | A14_INSTALL_AGENT | Install agent |
| (FC) | BITSTRING | 8 | A14_INSTALL_TIME | Install/Create time |
| (104) | CHARACTER | 8 | A14_INSTALL_USERID | Install userid |
| (104) | | 0 | A14END | "*" |
| (104) | | 0 | A14CLEN | "*-A14LEN" Length of DSECT |
| Equates for testing A14ACCM. (Access Method) | | | | |
| (104) |1 | | A14VTAM | "1" |
| (104) |1. | | A14IRC | "2" |
| (104) |11 | | A14XM | "3" |
| (104) |1.. | | A14XCF | "4" |
| Equates for testing A14EFLGS. (Protocol) | | | | |
| (104) |1 | | A14APPC | "1" |
| (104) |1. | | A14LU61 | "2" |
| (104) |11 | | A14EXCI | "3" |
| The following values relate to the RDO audit information Change Agents | | | | |
| (104) |1 | | A14_CSDAPI_CHANGE | "0001" CSD API |
| (104) |1. | | A14_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (104) |11 | | A14_DREPAPI_CHANGE | "0003" DREP API |
| (104) |1.. | | A14_CREATE_CHANGE | "0004" EXEC CREATE SPI |
| (104) |11. | | A14_AUTOINSTALL_CHANGE | "0006" AUTOINSTALL Install Agents |
| (104) |1 | | A14_CSDAPI_INSTALL | "0001" CSD API |
| (104) |1.. | | A14_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (104) |1.1 | | A14_GRPLIST_INSTALL | "0005" GRPLIST |
| (104) |11. | | A14_AUTOINSTALL_INSTALL | "0006" AUTOINSTALL |

A16 - Table manager statistics

CONTROL BLOCK NAME = DFHA16DS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHA16PS
 DESCRIPTIVE NAME = CICS TS Statistics for Table manager
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1986, 1998
 FUNCTION = This data block describes the global table manager
 Statistics.

The data described here is placed in storage by DFHAPST
This DSECT is also used by DFHSTUP and user programs to
to map the statistics block.

LIFETIME = The storage area is created when a request for AP
domain Table manager statistics is received. It is
released when the caller has acknowledged receipt of the
data.

LOCATION = The caller is passed a pointer to the head of the block.

INNER CONTROL BLOCKS = None

NOTES :

DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = DFHTMSKT SKTNUMDS
DFHTMSKT SKTLNTH
DFHTMSKT SKTINFO
DFHTMSSA TMNDESG
GLOBAL VARIABLES (Macro pass) = None

Table 19.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHA16DS | Table manager statistics (GLOBAL) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A16LEN | Length of data area |
| (0) | ..11 1111 | | A16IDE | "63" Table manager stats id mask |
| (2) | ADDRESS | 2 | A16ID | Table manager id |
| (2) |1. | | A16VERS | "X'02" DSECT version number mask |
| (4) | CHARACTER | 1 | A16DVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| (5) | ...1 ...1 | | A16NTAB | "17" Number of tables |
| (5) | 1... | | A16END | "15" |
| (5) | 1... | | A16CLEN | "15"-A16LEN" Length of DSECT |

The following section is repeated for each of the 17 tables

Table 20.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------|
| (0) | STRUCTURE | 0 | A16STATS | Stats for each table |
| (0) | CHARACTER | 4 | A16TNAM | Table name |
| (4) | FULLWORD | 4 | A16TSIZE | Table size |
| (4) | 1... | | A16SEND | "15" |
| (4) | 1... | | A16SCLEN | "15"-A16STATS" Length of DSECT |

A17 - File control statistics

```

CONTROL BLOCK NAME = DFHA17DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA17PS
DESCRIPTIVE NAME = CICS TS File control Statistics
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1986, 2014
FUNCTION = This DSECT describes File Control statistics.
    The data described by this DSECT is placed in storage by
    DFHAPST, the statistics module in the AP domain.
    It contains File Control statistics.
    The same DSECT describes the system and user copies of the
    statistics. Several copies of the statistics may exist until
    the callers request has been satisfied.
LIFETIME = The storage area is created when a request for
    file control global stats is received. It is released when
    the caller has acknowledged receipt of the data .
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = DFHFCTDS FCTDSRD
                  DFHFCTDS FCTDSGU
                  DFHFCTDS FCTDSBR
                  DFHFCTDS FCTDSWRA
                  DFHFCTDS FCTDSWRU
                  DFHFCTDS FCTDSDEL
                  DFHFCTDS FCTRMDL
                  DFHFCTDS FCTDSXCP
                  DFHFCTDS FCTDSIXP
GLOBAL VARIABLES (Macro pass) = none
-----
                                CHAR(8)
R65204 690 130401 HD3BADW : Support bundle defined FILE's

```

Table 21.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHA17DS | File control statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A17LEN | Length of data area |
| (0) | .1.. ..11 | | A17IDR | "0067" File control stats mask |
| The next field should be loaded with the previous value. | | | | |
| (2) | ADDRESS | 2 | A17ID | File control id |
| (2) |1 | | A17VERS | "X'01'" DSECT version number mask |
| (4) | CHARACTER | 1 | A17DVERS | File stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | A17FNAM | File name |
| (10) | CHARACTER | 1 | A17FLOC | Set to "R" if remote |

Table 21. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (11) | CHARACTER | 1 | A17DT | Set to "R", "S", "T", "L", "K" or "X" if data table fields present |
| (11) | 11.1 1..1 | | A17DTRMT | "C'R" Table fields for remote table |
| (11) | 111. ..1. | | A17DTASS | "C'S" Table fields for associated file |
| (11) | 111. ..11 | | A17DTPRS | "C'T" SDT fields present |
| (11) | 11.1 ..11 | | A17DTCFL | "C'L' Coupling Facility data table fields present(locking model) |
| (11) | 11.1 ..1. | | A17DTCFC | "C'K" Coupling Facility data table fields present(contention model) |
| (11) | 111. .111 | | A17DTAIX | "C'X" Table fields for updates via AIX |
| (12) | CHARACTER | 1 | A17DSRLS | RLS/Non-RLS Indicator "R" = RLS mode blank = non-RLS mode |
| (12) | 11.1 1..1 | | A17RLS | "C'R" RLS file |
| (12) | .1.. | | A17NORLS | "C' " non-RLS file |
| (13) | CHARACTER | 5 | | Reserved |
| (18) | | 4 | RESFLD1 | Reserved |
| (1C) | | 4 | RESFLD2 | Reserved |
| (20) | CHARACTER | 44 | A17DSNAM | Dataset name |
| (4C) | FULLWORD | 4 | A17DSRD | GET requests |
| (50) | FULLWORD | 4 | A17DSGU | GET update requests |
| (54) | FULLWORD | 4 | A17DSBR | BROWSE requests |
| (58) | FULLWORD | 4 | A17DSWRA | ADD requests |
| (5C) | FULLWORD | 4 | A17DSWRU | UPDATE requests |
| (60) | FULLWORD | 4 | A17DSDEL | DELETE requests |
| (64) | FULLWORD | 4 | | Reserved |
| (68) | FULLWORD | 4 | A17DSXCP | VSAM EXCP requests - data |
| (6C) | FULLWORD | 4 | A17DSIXP | VSAM EXCP requests - index |
| (70) | FULLWORD | 4 | A17DSTSW | Wait on string total |
| (74) | HALFWORD | 2 | A17DSHSW | Wait on string highest |
| (76) | HALFWORD | 2 | | Reserved |
| (78) | CHARACTER | 1 | A17DTTYP | Set to "C", "S", "U", "X", "L" or "K" for close |
| (78) | 11.. ..11 | | A17DTTC | "C'C" CICS maintained table close |
| (78) | 111. ..1. | | A17DTTS | "C'S" USER table source close |

Table 21. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (78) | 11.1 .111 | | A17DTTP | "C'P'" CICS table partial close |
| (78) | 111. .1.. | | A17DTTU | "C'U'" USER maintained table close |
| (78) | 11.1 ..11 | | A17DTTL | "C'L' Coupling Facility table close (locking model) |
| (78) | 11.1 ..1. | | A17DTTK | "C'K'" Coupling Facility table close (contention model) |
| (79) | CHARACTER | 3 | | Reserved |
| (7C) | FULLWORD | 4 | A17DTRDS | Read/browse requests |
| (80) | FULLWORD | 4 | A17DTRNF | Source reads issued |
| (84) | FULLWORD | 4 | A17DTAVR | ADDs resulting from READs |
| (88) | FULLWORD | 4 | A17DTADS | ADD requests |
| (8C) | FULLWORD | 4 | A17DTARJ | ADDs rejected by exit |
| (90) | FULLWORD | 4 | A17DTATF | ADDs when table full |
| (94) | FULLWORD | 4 | A17DTRWS | REWRITE requests |
| (98) | FULLWORD | 4 | A17DTDLS | DELETE requests |
| (9C) | FULLWORD | 4 | A17DTSHI | Highest table record count |
| (A0) | FULLWORD | 4 | A17DTSIZ | Current table record count |
| (A4) | FULLWORD | 4 | A17DTALT | Storage allocated - total (KB) |
| (A8) | FULLWORD | 4 | A17DTUST | Storage in-use - total (KB) |
| (AC) | FULLWORD | 4 | A17DTALE | Storage allocated - entries (KB) |
| (B0) | FULLWORD | 4 | A17DTUSE | Storage in-use - entries (KB) |
| (B4) | FULLWORD | 4 | A17DTALI | Storage allocated - index (KB) |
| (B8) | FULLWORD | 4 | A17DTUSI | Storage in-use - index (KB) |
| (BC) | FULLWORD | 4 | A17DTALD | Storage allocated - data (KB) |
| (C0) | FULLWORD | 4 | A17DTUSD | Storage in-use - data (KB) |
| (C4) | FULLWORD | 4 | A17DTRRS | Read Retries for a SDT |
| (C8) | HALFWORD | 2 | A17DSDNB | No Buffers - Data |
| (CA) | HALFWORD | 2 | A17DSINB | No Buffers - Index |
| (CC) | BITSTRING | 1 | A17POOL | LSRPOOL Id |
| (CD) | BITSTRING | 1 | | Reserved |
| (CE) | HALFWORD | 2 | A17STRNO | No Strings |
| (D0) | CHARACTER | 8 | A17RNAME | Remote Name |
| (D8) | CHARACTER | 4 | A17RSYS | Remote Sysid |
| (DC) | CHARACTER | 1 | A17DSTYP | Dataset Type |
| (DD) | CHARACTER | 3 | | Reserved |
| (E0) | CHARACTER | 44 | A17BDSNM | Base Dataset Name |

Table 21. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-------------|-----|--------------------------|---|
| (10C) | HALFWORD | 2 | A17DSASC | No Active Strings |
| (10E) | HALFWORD | 2 | A17DSASW | No String Waits |
| (110) | CHARACTER | 8 | A17LOPNT | File open time (Local STCK) |
| (118) | CHARACTER | 8 | A17LCLST | File close time (Local STCK) |
| (120) | CHARACTER | 8 | A17GOPNT | File open time (GMT STCK) |
| (128) | CHARACTER | 8 | A17GCLST | File close time (GMT STCK) |
| (130) | FULLWORD | 4 | A17DSBRU | Browse for update count |
| (134) | FULLWORD | 4 | A17RLSWT | RLS request wait timeouts |
| (138) | FULLWORD | 4 | A17DTCON | Number of CHANGED responses for a CFDT using contention, number of lock waits for a CFDT using locking. |
| (13C) | CHARACTER | 8 | A17DTCFP | Coupling Facility Data Table Pool Name |
| (144) | FULLWORD | 4 | A17DTLDS | Number of LOADING responses |
| (148) | FULLWORD | 4 | A17FCXCC | No Exclusive Control Conflicts |
| (14C) | CHARACTER | 8 | A17_FILE_DEFINE_SOURCE | Group installed from |
| (154) | BITSTRING | 8 | A17_FILE_CHANGE_TIME | Change/create time |
| (15C) | CHARACTER | 8 | A17_FILE_CHANGE_USERID | Change userid |
| (164) | BITSTRING | 2 | A17_FILE_CHANGE_AGENT | Change agent |
| (166) | BITSTRING | 2 | A17_FILE_INSTALL_AGENT | Install agent |
| (168) | BITSTRING | 8 | A17_FILE_INSTALL_TIME | Install/Create time |
| (170) | CHARACTER | 8 | A17_FILE_INSTALL_USERID | Install userid |
| (170) | | 0 | A17END | "*" |
| (170) | | 0 | A17CLEN | "*-A17LEN" Length of DSECT |
| Equates to test A17_FILE_CHANGE_AGENT | | | | |
| (170) |1 | | A17_FILE_CSDAPI_CHANGE | "X'01" Change Agent - CSD API |
| (170) |1. | | A17_FILE_CSDBATCH_CHANGE | "X'02" Change Agent - DFHCSDUP |
| (170) |11 | | A17_FILE_DREPAPI_CHANGE | "X'03" Change Agent - DREP API |
| (170) |1.. | | A17_FILE_CREATE_CHANGE | "X'04" Change Agent - CREATE SPI |
| (170) |111 | | A17_FILE_SYSTEM_CHANGE | "X'07" Change Agent - SYSTEM |
| (170) |1.1. | | A17_FILE_TABLE_CHANGE | "X'0A" Change Agent - TABLE |
| Equates to test A17_FILE_INSTALL_AGENT | | | | |

Table 21. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|-----------------------------------|
| (170) |1 | | A17_FILE_CSDAPI_ INSTALL | "X'01" Install Agent - CSD API |
| (170) |1.. | | A17_FILE_CREATE_ INSTALL | "X'04" Install Agent - CREATE SPI |
| (170) |1.1 | | A17_FILE_GRPLIST_ INSTALL | "X'05" Install Agent - GRPLIST |
| (170) |111 | | A17_FILE_SYSTEM_ INSTALL | "X'07" Install Agent - SYSTEM |
| (170) | 1..1 | | A17_FILE_BUNDLE_ INSTALL | "X'09" Install Agent - BUNDLE |
| (170) | 1.1. | | A17_FILE_TABLE_ INSTALL | "X'0A" Install Agent - TABLE |

A20 - ISC/IRC mode entry statistics

CONTROL BLOCK NAME = DFHA20DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA20PS
DESCRIPTIVE NAME = CICS TS ISC/IRC Statistics - mode entries.
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 1986, 1994
FUNCTION = This DSECT describes ISC/IRC mode entry statistics.
The data described by this DSECT is placed in storage by DFHSTLK, the statistics module in the AP domain.
It contains IRC mode entry statistics.
The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.
System entry statistics are described in the DFHA14DS DSECT.
LIFETIME = The storage area is created when a request for ISC/IRC mode entry stats is received. It is released when the caller has acknowledged receipt of the data .
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = DFHTCTTE TCMEBID
DFHTCTTE TCMESTAM
DFHTCTTE TCME1HWM
DFHTCTTE TCME2HWM
DFHTCTTE TCMEBHWB
DFHTCTTE TCME1
DFHTCTTE TCME2
DFHTCTTE TCMEBID
DFHTCTTE TCMESTAS
DFHTCTTE TCMESTAQ
DFHTCTTE TCMESTAF
DFHTCTTE TCMESTAG
DFHTCTTE TCMESTAP
DFHTCTTE TCMESTAO
DFHTCTTE TCMESTFC
DFHTCTTE TCMESTIC

```

DFHTCTTE TCMESTTD
DFHTCTTE TCMESTTS
DFHTCTTE TCMESTDL
DFHTCTTE TCMESTTC
DFHTCTTE TCMEMODE
DFHTCTTE TCTETTI
DFHTCTTE TCMEZQPC
DFHTCTTE TCMELMAX
DFHTCTTE TCMEMCON
DFHTCTTE TCMEMAXS
DFHTCTTE TCMECONW
DFHTCTTE TCMECONL
DFHTCTTE TCME1RY
DFHTCTTE TCME2RY
GLOBAL VARIABLES (Macro pass) = none

```

Table 22.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHA20DS | ISC/IRC mode entry statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A20LEN | Length of data area |
| (0) | .1.. 11.. | | A20IDR | "0076" ISC/IRC RESID mode entry stats mask |
| (0) | .1.. 11.1 | | A20IDT | "0077" ISC/IRC Stats Totals mask |
| The next field should be loaded to one of the two previous values | | | | |
| (2) | ADDRESS | 2 | A20ID | ISC/IRC mode entry id |
| (2) |1 | | A20VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A20DVERS | ISC/IRC mode entry stats vers No. |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 4 | A20SYSN | System name |
| (C) | CHARACTER | 8 | A20MODE | Mode name |
| (14) | HALFWORD | 2 | A20ESTAM | Max outstanding allocates |
| (16) | HALFWORD | 2 | A20E2HWM | Max secondaries |
| (18) | HALFWORD | 2 | A20EBHWM | Max bids |
| (1A) | HALFWORD | 2 | A20E1HWM | Peak contention losers |
| (1C) | FULLWORD | 4 | A20ES1 | ATIs satisfied by primaries |
| (20) | FULLWORD | 4 | A20ES2 | ATIs satisfied by secondaries |
| (24) | FULLWORD | 4 | A20ESBID | Bids sent |
| (28) | FULLWORD | 4 | A20ESTAS | Total allocates |
| (2C) | FULLWORD | 4 | A20ESTAQ | Queued allocates |
| (30) | FULLWORD | 4 | A20ESTAF | Failed link allocates |
| (34) | FULLWORD | 4 | A20ESTAO | Failed - other reasons |
| (38) | FULLWORD | 4 | A20ESTAG | Generic allocates |
| (3C) | FULLWORD | 4 | A20ESTAP | Specific allocates |

Table 22. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (40) | HALFWORD | 2 | A20EBID | Current bids |
| (42) | HALFWORD | 2 | A20EQPCT | XZIQUE purge count |
| (44) | HALFWORD | 2 | A20EZQPC | XZIQUE allocates purged |
| (46) | HALFWORD | 2 | A20ELMAX | Max session count |
| (48) | HALFWORD | 2 | A20EMCON | Max contention winners acceptable |
| (4A) | HALFWORD | 2 | A20EMAXS | Current Max session count |
| (4C) | HALFWORD | 2 | A20ECONW | Current CNOS contention winners |
| (4E) | HALFWORD | 2 | A20ECONL | Current CNOS contention losers |
| (50) | HALFWORD | 2 | A20E1RY | Primaries currently used |
| (52) | HALFWORD | 2 | A20E2RY | Secondaries currently used |
| (52) | .1.1 .1.. | | A20END | "*" |
| (52) | .1.1 .1.. | | A20CLEN | "*-A20LEN" Length of DSECT |

A21 - ISC LUIT & SNA management statistics

CONTROL BLOCK NAME = DFHA21PS
 DESCRIPTIVE NAME = CICS/ESA ISC statistics - LUIT management
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1990, 1994
 FUNCTION = This copybook describes ISC statistics associated with Persistent Verification and management of entries in the LUIT tables.
 The data described by this copybook is placed in storage by DFHSTLK, one of the statistics modules in the AP Domain.
 DOMAIN. DELETED BY APAR
 The same copybook describes the system and user copies of the statistics. Several copies of the statistics may exist in the system until the caller's request has been satisfied.
 LIFETIME = The storage area is created when a request for ISC stats is received. It is released when the caller has acknowledged receipt of the data.
 LOCATION = Caller is passed a pointer to the storage
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = DFHCSAPS CSZ_LTIME
 DFHCSAPS CSZ DELETED BY APAR
 DFHSNSTA SNT DELETED BY APAR
 DFHSNSTA SNT DELETED BY APAR
 DFHSNSTA SNT DELETED BY APAR
 DFHSNSTA LUIT_TOTAL_REUSES
 DFHSNSTA LUIT_TOTAL_TIMEOUTS

DFHSNSTA LUIT_AV_REUSE_TIME
GLOBAL VARIABLES (Macro pass) = None

Table 23.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------|-----------|-----|-------------------------|--|
| (0) | STRUCTURE | 36 | DFHA21PS | ISC Statistics |
| (0) | HALFWORD | 2 | A21_STATS_LENGTH | Length of data area |
| (2) | HALFWORD | 2 | A21_STATS_ID | Statistics id |
| (4) | UNSIGNED | 1 | A21_STATS_VERSION | Stats version number |
| (5) | UNSIGNED | 3 | * | Reserved |
| (8) | UNSIGNED | 2 | * | Reserved |
| (A) | HALFWORD | 2 | A21_SIT_LUIT_TIME | Delay time for LUIT table |
| (C) | FULLWORD | 4 | * | Reserved |
| DELETED BY APAR | | | | |
| (10) | FULLWORD | 4 | * | Reserved |
| DELETED BY APAR | | | | |
| (14) | FULLWORD | 4 | * | Reserved |
| DELETED BY APAR | | | | |
| (18) | FULLWORD | 4 | A21_LUIT_TOTAL_REUSES | Total number of entries * * reused in LUIT table |
| (1C) | FULLWORD | 4 | A21_LUIT_TOTAL_TIMEOUTS | Total number of entries * * timed out in LUIT table |
| (20) | FULLWORD | 4 | A21_LUIT_AV_REUSE_TIME | Average reuse time between * * entries in the LUIT table |

Constants

Table 24.

| Len | Type | Value | Name | Description |
|------------------------------------|---------|-------|-----------------------|------------------|
| Constants defining record contents | | | | |
| 1 | HEX | 01 | A21_STATS_DCL_VERSION | |
| | | | | Version number |
| 2 | DECIMAL | 54 | A21_STATS_DCL_RESID | stats id (RESID) |

A22 - FEPI pool statistics

CONTROL BLOCK NAME = DFHA22DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA22PS
DESCRIPTIVE NAME = CICS TS FEPI pool statistics
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 1993
FUNCTION =
This data block describes the block of storage containing the statistics for a FEPI pool.
The data described by this DSECT is placed in storage by DFHAPST, the statistics module in the AP domain.
The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until

the callers request has been satisfied.
LIFETIME = The storage area is created when a request for
FEPI pool stats is received. It is released when
the caller has acknowledged receipt of the data .
STORAGE CLASS =
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = in the FEPI RM
GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHA22DS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 25.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------------|
| (0) | STRUCTURE | 0 | DFHA22DS | FEPI pool statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A22LEN | Length of data area |
| (0) | ...1 | | A22IDR | "0016" FEPI pool RESID stats mask |
| (2) | ADDRESS | 2 | A22ID | FEPI pool id |
| (2) |1 | | A22VERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | A22DVERS | Pool statistics version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 8 | A22POOL | Pool name |
| (10) | FULLWORD | 4 | A22TRGCT | # targets |
| (14) | FULLWORD | 4 | A22NDCT | # nodes |
| (18) | FULLWORD | 4 | A22CONCT | # connections |
| (1C) | FULLWORD | 4 | A22CONPK | Peak # connections |
| (20) | FULLWORD | 4 | A22ALLOC | # conversation allocates |
| (24) | FULLWORD | 4 | A22PKALL | Peak # concurrent allocates |
| (28) | FULLWORD | 4 | A22WAIT | Current # allocates waiting |
| (2C) | FULLWORD | 4 | A22TOTWT | Total # allocates waited |
| (30) | FULLWORD | 4 | A22PKWT | Peak # allocates waiting |
| (34) | FULLWORD | 4 | A22TIOUT | # allocates that timed out |
| (34) | ..11 1... | | A22END | "*" |
| (34) | ..11 1... | | A22CLEN | "*-A22LEN" Length of DSECT |

A23 - FEPI connection statistics

```

CONTROL BLOCK NAME = DFHA23DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA23PS
DESCRIPTIVE NAME = CICS TS FEPI connection statistics
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1993
FUNCTION =
    This data block describes the block of storage containing
    the statistics for a FEPI connection.
    The data described by this DSECT is placed in storage by
    DFHAPST, the statistics module in the AP domain.
    The same DSECT describes the system and user copies of the
    statistics. Several copies of the statistics may exist until
    the callers request has been satisfied.
LIFETIME = The storage area is created when a request for
    FEPI connection stats is received. It is released when
    the caller has acknowledged receipt of the data .
STORAGE CLASS =
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = in the FEPI RM
    GLOBAL VARIABLES (Macro pass) = none
-----
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHA23DS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

```

Table 26.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHA23DS | FEPI connection statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A23LEN | Length of data area |
| (0) | ...1 ...1 | | A23IDR | "0017" FEPI connection RESID stats mask |
| (2) | ADDRESS | 2 | A23ID | FEPI connection id |
| (2) |1 | | A23VERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | A23DVERS | Connection statistics version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 8 | A23POOL | Pool name |
| (10) | CHARACTER | 8 | A23TARG | Target name |
| (18) | CHARACTER | 8 | A23NODE | Node name |
| (20) | FULLWORD | 4 | A23ACQ | # acquires for connection |
| (24) | FULLWORD | 4 | A23CNV | # conversations |
| (28) | FULLWORD | 4 | A23USI | # unsolicited inputs received |

Table 26. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (2C) | FULLWORD | 4 | A23CHOUT | # characters sent on connection |
| (30) | FULLWORD | 4 | A23CHIN | # characters received on connection |
| (34) | FULLWORD | 4 | A23RTOUT | # receive timeouts |
| (38) | FULLWORD | 4 | A23ERROR | # error conditions |
| (38) | ..11 11.. | | A23END | "*" |
| (38) | ..11 11.. | | A23CLEN | "*-A23LEN" Length of DSECT |

A24 - FEPI target statistics

CONTROL BLOCK NAME = DFHA24DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA24PS
DESCRIPTIVE NAME = CICS TS FEPI target statistics
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FUNCTION =
This data block describes the block of storage containing the statistics for a FEPI target.
The data described by this DSECT is placed in storage by DFHAPST, the statistics module in the AP domain.
The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.

LIFETIME = The storage area is created when a request for FEPI target stats is received. It is released when the caller has acknowledged receipt of the data .

STORAGE CLASS =
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = in the FEPI RM
GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHA24DS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 27.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 0 | DFHA24DS | FEPI target statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A24LEN | Length of data area |
| (0) | ...1 ..1. | | A24IDR | "0018" FEPI target RESID stats mask |
| (2) | ADDRESS | 2 | A24ID | FEPI target id |

Table 27. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (2) |1 | | A24VERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | A24DVERS | Target statistics version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 8 | A24TARG | Target name |
| (10) | CHARACTER | 8 | A24POOL | Pool name |
| (18) | CHARACTER | 8 | A24APPL | Applid |
| (20) | FULLWORD | 4 | A24NDCT | # nodes |
| (24) | FULLWORD | 4 | A24ALLOC | # conversation allocates |
| (28) | FULLWORD | 4 | A24TOTWT | Total # allocates waited |
| (2C) | FULLWORD | 4 | A24WAIT | Current # allocates waiting |
| (30) | FULLWORD | 4 | A24PKWT | Peak # allocates waiting |
| (34) | FULLWORD | 4 | A24TIOUT | # allocates that timed out |
| (34) | ..11 1... | | A24END | "15g11" |
| (34) | ..11 1... | | A24CLEN | "*-A24LEN" Length of DSECT |

BRARC - BRXA definition

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This is the description of the BRXA passed to the Bridge Exit as its COMMAREA.

The BRXA header contains the following fields:

BRXA_HEADER_EYECATCHER

An eyecatcher to identify the area as an BRXA. This is initialised by CICS to the value BRXA_HEADER_EYE ('>BRAREA '), which is defined in the DFHBRACx copy book.

BRXA_HEADER_LENGTH

The length of the header.

BRXA_HEADER_VERSION_NO

The version number of the BRXA. This allows future releases to extend the BRXA. This is initialised by CICS to brxa_current_version_no.

BRXA_TRANSACTION_AREA_PTR

The address of the BRXA_TRANSACTION_AREA, which contains information relating to the Bridge Transaction and the User Transaction. This will be set by CICS, and should not be modified by the Bridge or LT Exit code.

BRXA_TRANSACTION_AREA_LEN

The length of the BRXA_TRANSACTION_AREA. This will be set by CICS, and should not be modified by the Bridge or LT Exit code.

BRXA_COMMAND_AREA_PTR

The address of the BRXA_COMMAND_AREA, which contains information relating to the command causing the Bridge Exit to be driven. This will be set by CICS, and should not be modified by the Bridge Exit code.

BRXA_COMMAND_AREA_LEN

The length of the BRXA_COMMAND_AREA. This will be set by CICS, and should not be modified by the Bridge or LT Exit code.

BRXA_USER_AREA_PTR

A user field which allows the address of a user area to be saved across Bridge Exit calls within a task. The user area should be obtained using an EXEC CICS GETMAIN.

BRXA_USER_AREA_LEN

A user fields which can be used to save the length of the user area. TRANSACTION.

BRXA_INPUT_MSG_PTR

A field used to save the address of an input message. This field is intended to be used in conjunction with a formatter.

BRXA_INPUT_MSG_LEN

A field used to save the current length of the input message.

BRXA_OUTPUT_MSG_PTR

A field used to save the address of an output message. This field is intended to be used in conjunction with a formatter.

BRXA_OUTPUT_MSG_LEN

A field used to save the current length of the output message.

Table 28.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------|-----------|-----|---------------------------|-------------|
| (0) | STRUCTURE | 56 | BRXA_HEADER | |
| (0) | CHARACTER | 8 | BRXA_HEADER_EYECATCHER | |
| (8) | FULLWORD | 4 | BRXA_HEADER_LENGTH | |
| (C) | UNSIGNED | 4 | BRXA_HEADER_VERSION_NO | |
| (10) | ADDRESS | 4 | BRXA_TRANSACTION_AREA_PTR | |
| (14) | FULLWORD | 4 | BRXA_TRANSACTION_AREA_LEN | |
| (18) | ADDRESS | 4 | BRXA_COMMAND_AREA_PTR | |
| (1C) | FULLWORD | 4 | BRXA_COMMAND_AREA_LEN | |
| (20) | ADDRESS | 4 | BRXA_USER_AREA_PTR | |
| (24) | FULLWORD | 4 | BRXA_USER_AREA_LEN | |
| new for CTS 1.3 | | | | |
| (28) | ADDRESS | 4 | BRXA_INPUT_MSG_PTR | |
| (2C) | FULLWORD | 4 | BRXA_INPUT_MSG_LEN | |
| (30) | ADDRESS | 4 | BRXA_OUTPUT_MSG_PTR | |
| (34) | FULLWORD | 4 | BRXA_OUTPUT_MSG_LEN | |

--

The BRXA transaction area contains information about the invoking Bridge transaction and the linked to transaction. This area is not meaningful when executing within the Bridge transaction and should not be referenced there. This information is completed by CICS for each invocation of the Bridge Exit. The transaction area contains the following information:

BRXA_TRAN_AREA_EYECATCHER

An eyecatcher to identify the area as an BRXA Transaction Area. This will be set by CICS, before passing control to the Bridge Exit, to the value BRXA_TRAN_AREA_EYE ('>BRTRANA'), which is defined in the DFHBRACx copy book.

BRXA_BRIDGE_TRANID

The transaction id of the Bridge Transaction.

BRXA_TRANID

The transaction id of the user transaction.

BRXA_NEXTTRANID

The transaction id of the next transaction.

BRXA_ABEND_CODE

If the User Transaction abends, then the abend code is placed here. If the transaction hasn't abended this field is blanks.

BRXA_CALLING_PROG

The name of the program in the User Transaction which issued the command causing the Bridge Exit to be invoked. For the BRXA_INIT, BRXA_BIND, BRXA_TERM and BRXA_ABEND calls this field is set to blanks.

BRXA_USERID

specifies the userid under whose authority the Linked Transaction is to run.

BRXA_STARTCODE

specifies the type of method which would normally be used to start this transaction. This value is returned in the assign command, but has no other effect on processing. The following values are allowed:

S

START command without data

SD

START command with data

TD

Terminal Input (this is the default value)

If an invalid value is specified the value TD is assumed.

On invocation of the Bridge Exit for TERM and ABEND processing, this field contains the start code appropriate to the BRXA_NEXTTRANID value.

BRXA_LOAD_ADS_DESCRIPTOR

If this one character field is set to 'Y' by the Bridge Transaction, then for BMS SEND MAP and RECEIVE MAP, CICS will load the mapset and locate the ADS descriptor for the map, and the address of this descriptor will be passed to the LT exit in the command area. The format of this descriptor is defined in ADS_descriptor. If this field has any value other than 'Y', then CICS will not attempt to load the mapset and locate the descriptor, and brxa_ads_descriptor_ptr will be set to null.

BRXA_TRACE

This field is set to 'Y' if level 2 tracing is set on for BR. The exit should use this flag to trace important information for diagnostic purposes. In particular the input and output data should be traced. Note that for BR level 2 tracing, the BRXA is already traced by CICS on input and output.

BRXA_FACILITYLIKE

The name of an installed 3270 terminal to be used as a template terminal definition for constructing the bridge facility.

If a value is not specified CICS will look for a value specified as FACILITYLIKE in the user transaction's profile. If this value is also blanks, CICS will use the new CICS-supplied definition CBRF (based on model DFHLU2).

If the specified FACILITYLIKE does not exist the Bridge CICS abends the transaction ABRJ.

It is not possible to change the FACILITYLIKE definition after the terminal has been created, so this parameter is ignored if FACILITYTYPE is specified.

If the template terminal definition is defined with QUERY(COLD) or QUERY(ALL) this will be ignored, and the predefined characteristics used.

BRXA_FACILITY_KEEP_TIME

This field specifies the time (in seconds) that the Bridge Facility will be kept after the User transaction terminates. If a non zero value is set in this field the Bridge Facility, and its pseudo conversational data will remain.

This field is initially set to zero on the BRXA_INIT call. The exit only needs to set the value in the BRXA_TERM call.

The maximum value is 1 week (604800 seconds). If a value larger than this is specified, CICS will keep the Bridge Facility for 1 week.

BRXA_FACILITYTYPE

A token representing the Bridge Facility to be used. This value can be set on the BRXA_INIT call.

Specifying a value implies reusing a Bridge Facility kept when a previous Bridge ran a user transaction, and kept the terminal.

The default value of nulls will result in CICS dynamically allocating a new Bridge Facility.

The name of the Bridge facility used is accessible to the user transaction in the EIBTRMID field of the EIB. No other TERMID's in the system will be the same, although the name may be re-used almost immediately when the user transaction finishes.

BRXA_SCREEN_HEIGHT

The current screen height

BRXA_SCREEN_WIDTH

The current screen width

BRXA_ALTERNATE_SCREEN_HEIGHT

The alternate screen height

BRXA_ALTERNATE_SCREEN_WIDTH

The alternate screen width

BRXA_IDENTIFIER

a 48 character field which can be used by the exit routine to associate the request with the specific use of the exit (for example, the MQ correlator for the MQ bridge, and the TCP/IP id for the Web).

BRXA_FORMATTER

An 8 byte character field to be used by the exit routine to specify the name of a formatter. If a value is specified in this field, then the formatter is called for BMS, TC, and IC requests. The bridge exit is only called for XM, SYNC and MSG requests.

BRXA_CALL_EXIT_FOR_SYNC

Should the bridge exit be called for syncpoint.

BRXA_NEXTTRANID_SOURCE

How was the next transid created?

BRXA_IMMEDIATE By a RETURN TRANSID IMMEDIATE command

BRXA_STARTED By a START TRANSID command

BRXA_NORMAL By a RETURN TRANSID or SET NEXTTRANSID command

BRXA_TCTUA (PTR/LEN)

Bridge facility's TCTUA

BRXA_BRDATA_PTR

Address of the data specified by the BRDATA parameter on the START TRANSID BREXIT command.

BRXA_BRDATA_LEN

Length of the BRDATA, as given on the START TRANSID BREXIT command.

Table 29.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------|-----------|-----|------------------------------|-----------------|
| (0) | STRUCTURE | 180 | BRXA_TRANSACTION_AREA | |
| (0) | CHARACTER | 8 | BRXA_TRAN_AREA_EYECATCHER | |
| (8) | CHARACTER | 4 | BRXA_BRIDGE_TRANID | |
| (C) | CHARACTER | 4 | BRXA_TRANID | |
| (10) | CHARACTER | 4 | BRXA_NEXTTRANID | |
| (14) | CHARACTER | 4 | BRXA_ABEND_CODE | |
| (18) | CHARACTER | 8 | BRXA_CALLING_PROG | |
| (20) | CHARACTER | 8 | BRXA_USERID | |
| (28) | CHARACTER | 8 | * | reserved applid |
| (30) | CHARACTER | 2 | BRXA_STARTCODE | |
| (32) | CHARACTER | 1 | BRXA_LOAD_ADS_DESCRIPTOR | |
| (33) | CHARACTER | 1 | BRXA_TRACE | |
| (34) | CHARACTER | 4 | BRXA_FACILITYLIKE | |
| (38) | UNSIGNED | 4 | BRXA_FACILITY_KEEP_TIME | |
| (3C) | CHARACTER | 8 | BRXA_FACILITY_TOKEN | |
| (44) | HALFWORD | 2 | BRXA_SCREEN_HEIGHT | |
| (46) | HALFWORD | 2 | BRXA_SCREEN_WIDTH | |
| (48) | HALFWORD | 2 | BRXA_ALTERNATE_SCREEN_HEIGHT | |
| (4A) | HALFWORD | 2 | BRXA_ALTERNATE_SCREEN_WIDTH | |
| (4C) | CHARACTER | 48 | BRXA_IDENTIFIER | |
| new for CTS 1.3 | | | | |
| (7C) | CHARACTER | 8 | BRXA_FORMATTER | |
| (84) | CHARACTER | 1 | BRXA_CALL_EXIT_FOR_SYNC | |
| (85) | CHARACTER | 1 | BRXA_NEXTTRANID_SOURCE | |
| (86) | CHARACTER | 6 | * | |
| (8C) | ADDRESS | 4 | BRXA_TCTUA_PTR | |
| (90) | FULLWORD | 4 | BRXA_TCTUA_LEN | |
| (94) | ADDRESS | 4 | BRXA_BRDATA_PTR | |
| (98) | FULLWORD | 4 | BRXA_BRDATA_LEN | |
| (9C) | CHARACTER | 4 | BRXA_INTERVAL | |
| (A0) | CHARACTER | 4 | BRXA_TIME | |
| (A4) | FULLWORD | 4 | BRXA_HOURS | |
| (A8) | FULLWORD | 4 | BRXA_MINUTES | |

Table 29. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---------------|
| (AC) | FULLWORD | 4 | BRXA_SECONDS | |
| (B0) | CHARACTER | 1 | BRXA_START_AFTER | |
| (B1) | CHARACTER | 1 | BRXA_START_AT | |
| (B2) | CHARACTER | 2 | * | For alignment |
| (B4) | CHARACTER | 0 | * | |

--

The command area contains information relating to the command which has caused the Bridge Exit to be called.

Some fields are common for all commands, and there are some fields for specific commands.

The common fields of the command area are:

BRXA_COMMAND_AREA_EYECATCHER

An eyecatcher to identify the area as an LT Command Area. This will be set by CICS, before passing control to the Bridge Exit, to the value BRXA_COMMAND_AREA_EYE ('>BRCOMMA'), which is defined in the DFHBRACx copy book.

BRXA_FUNCTION_CODE

A two character code identifying the CICS function for which the Bridge Exit is called. For calls for Initialise Transaction, Terminate Transaction and Abend Transaction this is 'XM'. For all other requests, this is the value in the first byte of EIBFN converted to character form. Valid EBCDIC characters are used for the function and command code to simplify testing of the values in User Transaction Exit programs written in all the supported languages, and to simplify passing of the codes to other systems. Constants with meaningful names are provided for all the supported languages to simplify testing.

BRXA_COMMAND_CODE

A two character code identifying the CICS command for which the Bridge Exit is called. For Initialise Transaction this is 'IN', for Terminate Transaction this is 'TM' and, for Abend Transaction this is 'AB'. For all other requests, this is the value in the second byte of EIBFN converted to character form. Valid EBCDIC characters are used for the function and command code to simplify testing of the values in User Transaction Exit programs written in all the supported languages, and to simplify passing of the codes to other systems. Constants with meaningful names are provided for all the supported languages to simplify testing.

BRXA_USER_ABEND_CODE

If this field is set to a non blank value (the default), CICS will generate a transaction abend with this code.

Note that if the exit issues an EXEC CICS ABEND requests, this will result in a CICS DUMP, and will disable the exit.

BRXA_FROM_PTR

The address of the FROM data in SEND, CONVERSE, SEND MAP, SEND TEXT and START commands. This will be zero for other commands, or if FROM not specified on the command.

BRXA_FROM_LEN

The length of the FROM data in SEND, CONVERSE, SEND MAP, SEND TEXT and START commands. This will be zero for other commands, or if FROM not specified on the command. The length is a

fullword,

BRXA_INT0_PTR

The address of the INTO data in RECEIVE, CONVERSE, RECEIVE MAP and RETRIEVE commands. This must be set by the User Transaction Exit, and CICS will copy data from this address into the INTO area specified on the command, or will copy the address into the SET parameter specified on the command.

BRXA_INT0_LEN

The length of the INTO data in RECEIVE, CONVERSE, RECEIVE MAP and RETRIEVE commands. This must be set by the User Transaction Exit, and CICS will copy this value into LENGTH, FLENGTH or INT0LENGTH parameter specified on the command, and use the value when copying data into the INTO area. The length is a fullword,

NOTE: CONVERSE is the only command which has both FROM and INTO, and the BRXA_FROM_PTR and BRXA_INT0_PTR (and corresponding lengths) could be replaced by a single BRXA_DATA_PTR (and BRXA_DATA_LEN), and in the case of CONVERSE the exit would replace the FROM address and length by the INTO address and length,

BRXA_RESP

The resp code to be set (by CICS) in EIBRESP. This will be set to zero by CICS before calling the exit, and the exit must set this value if anything other than a normal response is required.

CICS will generate an ABRN transaction abend if the value returned is not one that could normally be produced by CICS for this command. If this value is zero, CICS may itself set the EIBRESP value and raise a condition.

BRXA_RESP2

The resp code to be set (by CICS) in EIBRESP2. This will be set to zero by CICS before calling the exit, and the exit must set this value if anything other than a normal response is required.

CICS does not check the value specified for consistency with the command. If this value is zero, CICS may itself set the EIBRESP value and raise a condition.

BRXA_CPOSN

The cursor position to be set (by CICS) in EIBCPOSN for RECEIVE, CONVERSE, RECEIVE MAP commands. This will be set to zero by CICS before calling the exit, and the exit must set this value, if the User Transaction uses the value in EIBCPOSN.

BRXA_AID

The attention id (PF key code) to be set (by CICS) in EIBAID for RECEIVE, CONVERSE, RECEIVE MAP commands. This will be set to ENTER (X'7D') by CICS before calling the exit, and the exit must set this value, if the User Transaction uses the value in EIBAID. The exit can use the values defined in DFHAID copy books to set the value (these are EBCDIC values of the 3270 AID characters).

BRXA_ERASE_INDICATOR

A one character value which is set (by CICS) to indicate whether ERASE, ERASE ALTERNATE or ERASE DEFAULT is specified on SEND, CONVERSE SEND MAP, SEND TEXT or SEND CONTROL commands. Constants with meaningful names are provided for all languages to allow the Bridge Exit to test this value if necessary.

BRXA_LAST_INDICATOR

a one character field indicating whether LAST specified on SEND command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_WAIT_INDICATOR

a one character field indicating whether WAIT specified on SEND, RETRIEVE or ISSUE ERASEUP. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_FMT_RESPONSE

This field is used by the formatter to tell the CICS that the bridge exit should be called to read or write a message.

Possible values are:

BRXA_FMT_NONE

No action. The formatter has processed the request.

BRXA_FMT_OUTPUT_BUFFER_FULL

There is no room to add the next vector. Call the bridge exit to write the message, clear the buffer, then call the formatter again.

BRXA_FMT_WRITE_MESSAGE

The request required data to be flushed. Call the bridge exit to write the message.

BRXA_FMT_REQUEST_NEXT_MESSAGE

The formatter has run out of data in the message. Call the bridge exit to read a message, then call the formatter again.

BRXA_FMT_READ_MESSAGE_NOWAIT

The formatter has run out of data in the message. Check to see if there is a new message before requesting any further input. Call the bridge exit to read a message, then call the formatter again.

BRXA_READ_NOWAIT_ISSUED

This field is used by the formatter to check if it has already returned a `brxa_fmt_read_message_nowait` for this command.

BRXA_NO

A `brxa_fmt_read_message_nowait` has not been returned for this command.

BRXA_YES

A `brxa_fmt_read_message_nowait` has been returned for this command.

BRXA_REQUEST_NEXT_ISSUED

This field is used by the formatter to check if it has already returned a `brxa_fmt_request_next_message` for this command.

BRXA_NO

A `brxa_fmt_request_next_message` has not been returned for this command.

BRXA_YES

A `brxa_fmt_request_next_message` has been returned for this command.

Table 30.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|-------------|
| (0) | STRUCTURE | 48 | BRXA_COMMAND_COMMON | |
| (0) | CHARACTER | 8 | BRXA_COMMAND_AREA_EYECATCHER | |
| (8) | CHARACTER | 2 | BRXA_FUNCTION_CODE | |
| (A) | CHARACTER | 2 | BRXA_COMMAND_CODE | |
| (C) | CHARACTER | 4 | BRXA_USER_ABEND_CODE | |
| (10) | ADDRESS | 4 | BRXA_FROM_PTR | |
| (14) | FULLWORD | 4 | BRXA_FROM_LEN | |
| (18) | ADDRESS | 4 | BRXA_INT0_PTR | |
| (1C) | FULLWORD | 4 | BRXA_INT0_LEN | |
| (20) | HALFWORD | 2 | BRXA_RESP | |
| (22) | HALFWORD | 2 | BRXA_RESP2 | |

Table 30. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------|-----------|-----|--------------------------|-------------|
| (24) | HALFWORD | 2 | BRXA_CPOSN | |
| (26) | CHARACTER | 1 | BRXA_AID | |
| (27) | CHARACTER | 1 | BRXA_ERASE_INDICATOR | |
| (28) | CHARACTER | 1 | BRXA_LAST_INDICATOR | |
| (29) | CHARACTER | 1 | BRXA_WAIT_INDICATOR | |
| new for CTS 1.3 | | | | |
| (2A) | CHARACTER | 1 | BRXA_FMT_RESPONSE | |
| (2B) | CHARACTER | 1 | BRXA_READ_NOWAIT_ISSUED | |
| (2C) | CHARACTER | 1 | BRXA_REQUEST_NEXT_ISSUED | |
| (2D) | CHARACTER | 1 | BRXA_SUPPORT_ACCUM | |
| (2E) | CHARACTER | 2 | * | |

--

This command area defines actions at the initialisation and termination of the bridge. There are four functions:

Init

The purpose of this call is for the Bridge Exit pass CICS various parameters to run the transaction. Typically the BRDATA will be used to obtain this information.

The following values can be set in the transaction and common areas area for this request.

- BRXA_STARTCODE
- BRXA_LOAD_ADS_DESCRIPTOR
- BRXA_FACILITYLIKE
- BRXA_FACILITY_TOKEN
- BRXA_USER_ABEND_CODE
- BRXA_IDENTIFIER
- BRXA_FORMATTER

Requests using recoverable resources can not be made in this call.

Bind

The purpose of this call is for the Bridge Exit to obtain data to answer 3270 requests in subsequent calls.

Recoverable requests can be made in this call.

The exit must not use the TWA, as this is not setup for the Bridge.

The following values can be set in the transaction and common areas area for this request.

- BRXA_STARTCODE
- BRXA_LOAD_ADS_DESCRIPTOR

- BRXA_FACILITY_KEEP_TIME
- BRXA_USER_ABEND_CODE
- BRXA_IDENTIFIER

Term

The purpose of this call is to inform the Bridge Exit that the user transaction is terminating. It also identifies the next transaction if this has been specified by the user transaction.

This call is not made if the user transaction abends.

Recoverable requests can be made in this call.

The following values can be set in the transaction and common areas area for this request.

- BRXA_FACILITY_KEEP_TIME
- BRXA_USER_ABEND_CODE

Abend

In the event of the user transaction abending this call allows the Bridge Exit to issue non recoverable requests to the external resource, for example a non-syncpointing MQPUT can be issued for the MQ Bridge.

The call can also change the abend code.

Recoverable requests can not be made in this call.

The following values can be set in the transaction and common areas area for this request Any other values are ignored.

- BRXA_FACILITY_KEEP_TIME
- BRXA_USER_ABEND_CODE

Table 31.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------|
| (0) | STRUCTURE | 48 | BRXA_XM_COMMAND | |
| (0) | CHARACTER | 48 | * | |
| (30) | CHARACTER | 0 | * | |

--

The Terminal Control command interface overlays the common command interface, and defines some Terminal Control specific parameters.

Commands supported are SEND, RECEIVE and CONVERSE.

The terminal control specific parameters are

BRXA_CTLCHAR

The 3270 Write Control Character (WCC) passed on SEND and CONVERSE commands as CTLCHAR. If not specified on the command the default value (X'C3'- unlock keyboard, reset MDT flags) is passed to the exit.

BRXA_BUFFER_INDICATOR

a one character field indicating whether BUFFER specified on

RECEIVE command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

(BUFFER is not allowed on CONVERSE - diagnosed by translator)

BRXA_STRFIELD_INDICATOR

a one character field indicating whether STRFIELD specified on SEND or CONVERSE command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_DEFRESP_INDICATOR

a one character field indicating whether DEFRESP specified on SEND or CONVERSE command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_INVITE_INDICATOR

a one character field indicating whether INVITE specified on SEND command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

Table 32.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|-------------|
| (0) | STRUCTURE | 53 | BRXA_TC_COMMAND | |
| (0) | CHARACTER | 48 | * | |
| (30) | CHARACTER | 1 | BRXA_CTLCHAR | |
| (31) | CHARACTER | 1 | BRXA_BUFFER_INDICATOR | |
| (32) | CHARACTER | 1 | BRXA_STRFIELD_INDICATOR | |
| (33) | CHARACTER | 1 | BRXA_DEFRESP_INDICATOR | |
| (34) | CHARACTER | 1 | BRXA_INVITE_INDICATOR | |

--

The BMS command interface overlays the common command interface, and defines some BMS specific parameters.

Commands supported are SEND MAP, SEND TEXT, SEND CONTROL and RECEIVE MAP.

The BMS specific parameters are:

BRXA_MAPSET

The (unsuffixed) mapset name specified on SEND MAP or RECEIVE MAP.

BRXA_MAP

The map name specified on SEND MAP or RECEIVE MAP.

BRXA_ADS_DESCRIPTOR_PTR

The address of the ADS descriptor for BMS SEND MAP and RECEIVE MAP commands. This will be set by the interface code, if the Bridge has set the flag in the BRXA indicating that the descriptor should be loaded, and if the relevant mapset has been regenerated to include the descriptor. Otherwise this pointer will be set to 0.

BRXA_CURSOR

A halfword value containing the CURSOR position specified on SEND MAP, SEND TEXT or SEND CONTROL command, which identifies where the cursor is to be positioned on the 3270 screen. A value of -1 is passed if the application specified CURSOR with no value on SEND MAP command, indicating that symbolic cursor positioning is required, that is, that the cursor is to be positioned in the first field in the application data structure that has a value of -1 in the corresponding length field. A value of -2 is passed if the application did not specify CURSOR

on the SEND MAP command.

BRXA_MSR_DATA

The four character value specified in MSR on SEND MAP, SEND CONTROL or SEND TEXT command. Constants are provided in the copy book DFHMSRCA which will allow the exit to test the values specified.

NOTE: If we can assume that a BFB will always be constructed as if its TYPETERM was defined with MSRCONTROL(NO), then this parameter could be omitted, as for a 3270 terminal fro which MSRCONTROL(NO) is specified, BMS ignores the MSR field specified on the command.

BRXA_DATA_INDICATOR

a one character field indicating whether DATAONLY, MAPONLY or neither are specified on the SEND MAP command. Valid values are 'D' (DATAONLY), 'M' (MAPONLY) or 'N'(neither specified) and constants are provided for the exit to test this field. (Note that if MAPONLY is specified, the FROM pointer and length will be zero, as there is no Application Data Structure in this case.)

BRXA_ERASEUP_INDICATOR

a one character field indicating whether ERASAUP is specified on a SEND MAP or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_FREEKB_INDICATOR

a one character field indicating whether FREEKB is specified on a SEND MAP SEND TEXT or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_ALARM_INDICATOR

a one character field indicating whether ALARM is specified on a SEND MAP, SEND TEXT or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_MSR_INDICATOR

a one character field indicating whether MSR is specified on a SEND MAP , SEND TEXT or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_FRSET_INDICATOR

a one character field indicating whether FRSET is specified on a SEND MAP or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_TEXT_TYPE

a one character field indicating whether NOEDIT or MAPPED is specified on a SEND TEXT command. Valid values are ' ' (neither NOEDIT nor MAPPED specified), 'N' (NOEDIT specified) and 'M' (MAPPED specified) and constants are provided for the exit to test this field.

Table 33.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|-------------|
| (0) | STRUCTURE | 108 | BRXA_BMS_COMMAND | |
| (0) | CHARACTER | 48 | * | |
| (30) | CHARACTER | 7 | BRXA_MAPSET | |
| (37) | CHARACTER | 1 | BRXA_MAPSET_INDICATOR | |
| (38) | CHARACTER | 7 | BRXA_MAP | |
| (3F) | CHARACTER | 1 | * | reserved |
| (40) | ADDRESS | 4 | BRXA_ADS_DESCRIPTOR_PTR | |

Table 33. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|-------------|
| (44) | HALFWORD | 2 | BRXA_CURSOR | |
| (46) | CHARACTER | 4 | BRXA_MSR_DATA | |
| (4A) | CHARACTER | 1 | BRXA_DATA_INDICATOR | |
| (4B) | CHARACTER | 1 | BRXA_ERASEAUP_INDICATOR | |
| (4C) | CHARACTER | 1 | BRXA_FREEKB_INDICATOR | |
| (4D) | CHARACTER | 1 | BRXA_ALARM_INDICATOR | |
| (4E) | CHARACTER | 1 | BRXA_FRSET_INDICATOR | |
| (4F) | CHARACTER | 1 | BRXA_MSR_INDICATOR | |
| (50) | CHARACTER | 1 | BRXA_TEXT_TYPE | |
| (51) | CHARACTER | 1 | BRXA_ACCUM_INDICATOR | |
| (52) | CHARACTER | 1 | BRXA_RELEASE_INDICATOR | |
| (53) | CHARACTER | 1 | BRXA_RETAIN_INDICATOR | |
| (54) | CHARACTER | 4 | BRXA_RELEASE_TRANSID | |
| (58) | ADDRESS | 4 | BRXA_PAGE_HEADER_PTR | |
| (5C) | FULLWORD | 4 | BRXA_PAGE_HEADER_LEN | |
| (60) | ADDRESS | 4 | BRXA_PAGE_TRAILER_PTR | |
| (64) | FULLWORD | 4 | BRXA_PAGE_TRAILER_LEN | |
| (68) | CHARACTER | 1 | BRXA_PAGE_HEADER_PAGENO | |
| (69) | CHARACTER | 1 | BRXA_PAGE_TRAILER_PAGENO | |
| (6A) | CHARACTER | 2 | * | |

--

The Interval Control command interface overlays the common command interface, and defines some Interval Control specific parameters.

The only command supported is RETRIEVE.

The Interval Control specific parameters are:

BRXA_RTERMID

The value of RTERMID specified on START command. For the RETRIEVE command this is a field that the Bridge Exit can set to pass the RTERMID value back to the application issuing the RETRIEVE.

BRXA_RTRANSID

The value of RTRANSID specified on START command. For the RETRIEVE command this is a field that the Bridge Exit can set to pass the RTRANSID value back to the application issuing the RETRIEVE.

BRXA_QUEUE

The value of QUEUE specified on START command. For the RETRIEVE command this is a field in which the Bridge Exit can set the QUEUE value to be used by the application issuing the RETRIEVE.

Table 34.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------|
| (0) | STRUCTURE | 64 | BRXA_IC_COMMAND | |
| (0) | CHARACTER | 48 | * | |
| (30) | CHARACTER | 4 | BRXA_RTERMID | |
| (34) | CHARACTER | 4 | BRXA_RTRANSID | |
| (38) | CHARACTER | 8 | BRXA_QUEUE | |

--

This command area defines actions at syncpoint and syncpoint rollback. brxa_explicit is used to indicate whether this request originated from an explicit EXEC CICS SYNCPOINT command, or whether it is an implicit syncpoint generated by CICS. It will be set to 'Y' or 'N' prior to invoking the exit, and constants are provided for the exit to test this field. Valid values for rollback are 'Y' or 'N', and constants are provided for the exit to test this field.

Table 35.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|-------------|
| (0) | STRUCTURE | 50 | BRXA_SYNC_COMMAND | |
| (0) | CHARACTER | 48 | * | |
| (30) | CHARACTER | 1 | BRXA_EXPLICIT | |
| (31) | CHARACTER | 1 | BRXA_ROLLBACK | |

--

This command area defines actions when the bridge exit is called to read or write a message. These functions are only used if the bridge exit specified a formatter on initialisation.

This command area defines the following functions:

Init

The purpose of this call is for the Bridge Exit pass CICS various parameters to run the transaction. Typically the BRDATA will be used to obtain this information.

The following values can be set in the transaction and common areas area for this request.

- BRXA_STARTCODE
- BRXA_LOAD_ADS_DESCRIPTOR
- BRXA_FACILITYLIKE
- BRXA_FACILITY_TOKEN
- BRXA_USER_ABEND_CODE
- BRXA_IDENTIFIER

Table 36.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-------------|
| (0) | STRUCTURE | 48 | BRXA_MSG_COMMAND | |
| (0) | CHARACTER | 48 | * | |

--

The ADS descriptor is provided to allow interpretation of the BMS Application Data Structure - that is, the structure used by the application program for the data in SEND and RECEIVE MAP requests - by an exit program, without requiring the exit program to include the relevant copy book at compile time.

The ADS descriptor is only available if the map load module has been reassembled to include the descriptor, and CICS only attempts to locate the descriptor if the brxa_load_ADS_descriptor indicator is set to brxa_yes in the Bridge Exit initialisation call.

The ADS descriptor contains a header containing general information about the map, together with a field descriptor for every field which appears in the ADS, that is every named field in the map definition macro.

The header consists of the following information

ADSD_LENGTH

The length of the ADS descriptor

ADSD_EYECATCHER

An eyecatcher ('ADSD') to identify this as an ADS descriptor

ADSD_MAP_INDEX

The index of the map within the mapset. This is needed to determine the HTML template corresponding to the map.

ADSD_FIELD_COUNT

the number of fields within the ADS, that is the number of named fields in the map definition macros. A separate field is counted for each element of an array defined with the OCCURS parameter, but subfields of group fields (GRPNAME) are not counted. The field count may be zero, in which case there are no field descriptors following the header.

ADSD_STRUCTURE_LENGTH

the length of the application data structure

ADSD_ATTRIBUTE_NUMBER

the number of extended attributes in each field of the ADS, that is the number of attributes specified in DSATTS in the map definition.

ADSD_ATTRIBUTE_TYPE_CODES

one character code for the attribute types in each field, in order, derived from DSATTS

- C = COLOR

- P = PS

- H = HILIGHT

- V = VALIDN

- O = OUTLINE

- S = SOSI

- T = TRANSP

ADSD_MAP_JUSTIFY_HOR
the horizontal justification for the map, either L (LEFT) or R (RIGHT) from JUSTIFY operand on map definition.

ADSD_MAP_JUSTIFY_VER
the vertical justification for the map, from JUSTIFY operand on map definition. This can have the values F (FIRST), L (LAST) or B (BOTTOM) or blank (no vertical JUSTIFY operand).

ADSD_MAP_STARTING_LINE
the starting line for the map, from LINE operand on DFHMDI macro (LINE = NEXT will give a value of 255, LINE = SAME will give a value of 254)

ADSD_MAP_STARTING_COLUMN
the starting column for the map, from COLUMN operand on DFHMDI macro (COLUMN = NEXT will give a value of 255, COLUMN = SAME will give a value of 254)

ADSD_MAP_LINES
the number of lines in the map from SIZE= operand

ADSD_MAP_COLUMNS
the number of columns in the map from SIZE= operand

ADSD_WRITE_CONTROL_CHAR
the 3270 encoded WCC derived from CONTROL= operand

ADSD_FIRST_FIELD
the first field descriptor occurs here. Use the address of ADSD_FIRST_FIELD as the initial value of the pointer for the field descriptor (unless ADSD_field_count is 0).

The field descriptor for each field within the map consists of

ADSD_FIELD_NAME
the unaffixed field name padded with blanks

ADSD_FIELD_NAME_LEN
the number of characters in the field name

ADSD_OCCURS_INDEX
when OCCURS is specified for a field definition there will be a separate field descriptor for each element of the array, and occurs_index will indicate the array index for the particular field if OCCURS not specified, then occurs_index will be 0

ADSD_FIELD_OFFSET
the offset of the field within the ADS the offset is to the beginning of the (halfword) length field, and users must add 2 (for the length field) + 1 (for the 3270 attribute) + attribute_number (for the extended attributes specified in DSATTS) to get the offset of the data part of the field

ADSD_FIELD_DATA_LEN
the length of the field in the ADS

ADSD_FIELD_JUSTIFY
indicates whether the data is to be justified left (L) or right (R) if the supplied length is less than the length in the ADS

ADSD_FIELD_FILL_CHAR
the character (blank or '0') to be used to fill the remainder of the field in the ADS.

ADSD_NEXT_FIELD
the next field descriptor occurs here. Use the address of ADSD_NEXT_FIELD to update the pointer for the field descriptor.

Table 37.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------|
| (0) | STRUCTURE | * | ADS_DESCRIPTOR | |
| (0) | HALFWORD | 2 | ADSD_LENGTH | |
| (2) | CHARACTER | 4 | ADSD_EYECATCHER | |
| (6) | HALFWORD | 2 | ADSD_MAP_INDEX | |

Table 37. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---|-------------|
| (8) | HALFWORD | 2 | ADSD_FIELD_COUNT | |
| (A) | HALFWORD | 2 | ADSD_STRUCTURE_LENGTH | |
| (C) | HALFWORD | 2 | ADSD_ATTRIBUTE_NUMBER | |
| (E) | CHARACTER | 1 | ADSD_ATTRIBUTE_TYPE_CODES (4294967308:341913600) | |
| (1A) | CHARACTER | 1 | ADSD_MAP_JUSTIFY_HOR | |
| (1B) | CHARACTER | 1 | ADSD_MAP_JUSTIFY_VER | |
| (1C) | HALFWORD | 2 | ADSD_MAP_STARTING_LINE | |
| (1E) | HALFWORD | 2 | ADSD_MAP_STARTING_COLUMN | |
| (20) | HALFWORD | 2 | ADSD_MAP_LINES | |
| (22) | HALFWORD | 2 | ADSD_MAP_COLUMNS | |
| (24) | CHARACTER | 1 | ADSD_WRITE_CONTROL_CHAR | |
| (25) | CHARACTER | 1 | * | |
| (26) | CHARACTER | * | ADSD_FIRST_FIELD | |

Table 38.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|-------------|
| (0) | STRUCTURE | * | ADS_FIELD_DESCRIPTOR | |
| (0) | CHARACTER | 32 | ADSD_FIELD_NAME | |
| (20) | HALFWORD | 2 | ADSD_FIELD_NAME_LEN | |
| (22) | HALFWORD | 2 | ADSD_OCCURS_INDEX | |
| (24) | HALFWORD | 2 | ADSD_FIELD_OFFSET | |
| (26) | HALFWORD | 2 | ADSD_FIELD_DATA_LEN | |
| (28) | CHARACTER | 1 | ADSD_FIELD_JUSTIFY | |
| (29) | CHARACTER | 1 | ADSD_FIELD_FILL_CHAR | |
| (2A) | CHARACTER | * | ADSD_NEXT_FIELD | |

--

Table 39.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--|-------------|
| (0) | STRUCTURE | * | ADS_LONG_DESCRIPTOR | |
| (0) | FULLWORD | 4 | ADSDL_LENGTH | |
| (4) | CHARACTER | 4 | ADSDL_EYECATCHER | |
| (8) | FULLWORD | 4 | ADSDL_MAP_INDEX | |
| (C) | FULLWORD | 4 | ADSDL_FIELD_COUNT | |
| (10) | FULLWORD | 4 | ADSDL_STRUCTURE_LENGTH | |
| (14) | FULLWORD | 4 | ADSDL_ATTRIBUTE_NUMBER | |
| (18) | CHARACTER | 1 | ADSDL_ATTRIBUTE_TYPE_CODES (4294967308:341919456) | |

Table 39. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|-------------|
| (24) | CHARACTER | 1 | ADSDL_MAP_JUSTIFY_HOR | |
| (25) | CHARACTER | 1 | ADSDL_MAP_JUSTIFY_VER | |
| (26) | CHARACTER | 2 | * | |
| (28) | FULLWORD | 4 | ADSDL_MAP_STARTING_ LINE | |
| (2C) | FULLWORD | 4 | ADSDL_MAP_STARTING_ COLUMN | |
| (30) | FULLWORD | 4 | ADSDL_MAP_LINES | |
| (34) | FULLWORD | 4 | ADSDL_MAP_COLUMNS | |
| (38) | CHARACTER | 1 | ADSDL_WRITE_CONTROL_ CHAR | |
| (39) | CHARACTER | 3 | * | |
| (3C) | CHARACTER | * | ADSDL_FIRST_FIELD | |

Table 40.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|-------------|
| (0) | STRUCTURE | * | ADS_LONG_FIELD_ DESCRIPTOR | |
| (0) | CHARACTER | 32 | ADSDL_FIELD_NAME | |
| (20) | FULLWORD | 4 | ADSDL_FIELD_NAME_LEN | |
| (24) | FULLWORD | 4 | ADSDL_OCCURS_INDEX | |
| (28) | FULLWORD | 4 | ADSDL_FIELD_OFFSET | |
| (2C) | FULLWORD | 4 | ADSDL_FIELD_DATA_LEN | |
| (30) | CHARACTER | 1 | ADSDL_FIELD_JUSTIFY | |
| (31) | CHARACTER | 1 | ADSDL_FIELD_FILL_CHAR | |
| (32) | CHARACTER | 2 | * | |
| (34) | CHARACTER | * | ADSDL_NEXT_FIELD | |

CDBLK - CONVDATA block

CONTROL BLOCK NAME = DFHCDBLK

DESCRIPTIVE NAME = CICS TS CONVDATA Block.

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5655-Y04

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FUNCTION = CONVDATA interface block

This data area is specified on the CONVDATA option in GDS commands (see the CICS Distributed Transaction Processing Guide for a description of GDS commands for LU6.2).

An application program can include the Assembler or C versions of the copybook to define the area.

LIFETIME =

STORAGE CLASS =

LOCATION =

INNER CONTROL BLOCKS =

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS =

MODULE TYPE = Control block definition

```

-----
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS =
  GLOBAL VARIABLES (Macro pass) =
-----

```

Table 41.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 24 | DFHCDBLK | CONVDATA BLOCK |
| (0) | CHARACTER | 1 | CDBC COMPL | X'FF' DATA COMPLETE |
| (1) | CHARACTER | 1 | CDBSYNC | X'FF' SYNCPOINT REQUESTED |
| (2) | CHARACTER | 1 | CDBFREE | X'FF' FREE REQUESTED |
| (3) | CHARACTER | 1 | CDBRECV | X'FF' RECEIVE REQUIRED |
| (4) | CHARACTER | 1 | CDBSIG | X'FF' SIGNAL RECEIVED |
| (5) | CHARACTER | 1 | CDBCONF | X'FF' CONFIRM REQUESTED |
| (6) | CHARACTER | 1 | CDBERR | X'FF' ERROR RECEIVED |
| (7) | CHARACTER | 4 | CDBERRCD | ERROR CODE RECEIVED |
| (B) | CHARACTER | 1 | CDBSYNRB | X'FF' SYNC ROLLBACK REQUESTED |
| (C) | CHARACTER | 12 | CDBRSVD | RESERVED |

CFS6D - CFDT Server CF statistics

```

CONTROL BLOCK NAME = DFHCFS6D
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (CFDT) Statistics for list structure.
  Licensed Materials - Property of IBM
  Restricted Materials of IBM
  5655-Y04
  (C) Copyright IBM Corp. 1996, 2006
FUNCTION = CF Statistics for list structure usage and access.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
  N/A
NOTES :
  DEPENDENCIES = S/370
  MODULE TYPE = Control block definition
-----

```

Table 42.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------------|
| (0) | STRUCTURE | 0 | DFHCFS6D | , CF list structure statistics record |
| (0) | FULLWORD | 4 | S6 (0) | Start of record |
| (0) | HALFWORD | 2 | S6LEN | Length of data area |
| (0) | .111 111. | | S6IDE | "0126" List structure stats mask |
| (2) | ADDRESS | 2 | S6ID | List structure stats id |

Table 42. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|-------------------------------------|
| (2) |1 | | S6VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | S6DVERS | List structure stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| Coupling facility list structure status information. | | | | |
| (8) | CHARACTER | 16 | S6NAME (0) | Full name of list structure |
| (8) | CHARACTER | 8 | S6PREF | First part of structure name |
| (10) | CHARACTER | 8 | S6POOL | Pool name part of structure name |
| (18) | CHARACTER | 16 | S6CNNAME (0) | Name for connection to structure |
| (18) | CHARACTER | 8 | S6CNPREF | Prefix for connection name |
| (20) | CHARACTER | 8 | S6CNSYSN | Own MVS system name from CVTSNAME |
| (28) | ADDRESS | 4 | S6SIZE | Structure size in 4K pages |
| (2C) | ADDRESS | 4 | S6SIZEMX | Maximum size in 4K pages |
| (30) | FULLWORD | 4 | S6HDRS | Maximum number of list headers |
| (34) | FULLWORD | 4 | S6HDRSCT | Headers used for control lists |
| (38) | FULLWORD | 4 | S6HDRSTD | Headers available for table data |
| (3C) | FULLWORD | 4 | S6ELEMLN | Data element size as a fullword |
| (40) | ADDRESS | 4 | S6ELEMPW | Data element size as power of 2 |
| (44) | ADDRESS | 4 | S6ELEMPE | Max elements per entry (for 32K) |
| (48) | FULLWORD | 4 | S6ELEMRT | Element side of entry:element ratio |
| (4C) | FULLWORD | 4 | S6ENTRRT | Entry side of entry:element ratio |
| Usage statistics. Entry and element usage statistics. Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER. | | | | |
| (50) | FULLWORD | 4 | S6ENTRCT | Current number of entries in use |
| (54) | FULLWORD | 4 | S6ENTRHI | Highest number of entries in use |
| (58) | FULLWORD | 4 | S6ENTRLO | Lowest number of free entries |
| (5C) | FULLWORD | 4 | S6ENTRMX | Max entries returned by IXLCONN |

Table 42. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|----------|-----|--------------|------------------------------------|
| (60) | FULLWORD | 4 | S6ELEMCT | Current number of elements in use |
| (64) | FULLWORD | 4 | S6ELEMHI | Highest number of elements in use |
| (68) | FULLWORD | 4 | S6ELEMLO | Lowest number of free elements |
| (6C) | FULLWORD | 4 | S6ELEMMX | Max elements returned by IXLCONN |
| List entry counts returned by IXLLIST requests. Note that when lists are moved from free to used and vice versa, IXLLIST only returns the target information, so the counts are often slightly inconsistent. | | | | |
| (70) | DBL WORD | 8 | S6USEVEC (0) | Usage vector, five pairs of words |
| (70) | FULLWORD | 4 | S6USEDCT | Number of entries on used list |
| (74) | FULLWORD | 4 | S6USEDHI | Highest entries on used list |
| (78) | FULLWORD | 4 | S6FREECT | Number of entries on free list |
| (7C) | FULLWORD | 4 | S6FREEHI | Highest entries on free list |
| (80) | FULLWORD | 4 | S6INDXCT | Number of entries in table index |
| (84) | FULLWORD | 4 | S6INDXHI | Highest entries in table index |
| (88) | FULLWORD | 4 | S6APPLCT | Number of entries in APPLID list |
| (8C) | FULLWORD | 4 | S6APPLHI | Highest entries in APPLID list |
| (90) | FULLWORD | 4 | S6UOWLCT | Number of entries in UOW list |
| (94) | FULLWORD | 4 | S6UOWLHI | Highest entries in UOW list |
| Coupling facility I/O statistics. Statistics for each main type of CF request. | | | | |
| (98) | FULLWORD | 4 | S6RDICT | Read table index entry |
| (9C) | FULLWORD | 4 | S6WRICT | Write table index entry |
| (A0) | FULLWORD | 4 | S6RWICT | Rewrite table index entry |
| (A4) | FULLWORD | 4 | S6DLICT | Delete table index entry |
| (A8) | FULLWORD | 4 | S6CRLCT | Create list |
| (AC) | FULLWORD | 4 | S6MDLCT | Modify list |
| (B0) | FULLWORD | 4 | S6DLLCT | Delete list (1 per overall delete) |
| (B4) | FULLWORD | 4 | S6RDDCT | Read data item |
| (B8) | FULLWORD | 4 | S6WRDCT | Write data item |
| (BC) | FULLWORD | 4 | S6RWDCT | Rewrite data item |
| (C0) | FULLWORD | 4 | S6DLDCT | Delete data item |

Table 42. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|----------|-----|------------|--|
| (C4) | FULLWORD | 4 | S6INLCT | Inquire on data list |
| (C8) | FULLWORD | 4 | S6RDMCT | Read message queue |
| (CC) | FULLWORD | 4 | S6WRMCT | Write to message queue |
| (D0) | FULLWORD | 4 | S6RDUCT | Read UOW entry |
| (D4) | FULLWORD | 4 | S6WRUCT | Write UOW entry |
| (D8) | FULLWORD | 4 | S6RWUCT | Rewrite UOW entry |
| (DC) | FULLWORD | 4 | S6DLUCT | Delete UOW entry |
| (E0) | FULLWORD | 4 | S6RDACT | Read APPLID entry |
| (E4) | FULLWORD | 4 | S6WRACT | Write APPLID entry |
| (E8) | FULLWORD | 4 | S6RWACT | Rewrite APPLID entry |
| (EC) | FULLWORD | 4 | S6DLACT | Delete APPLID entry |
| Statistics for internal CF requests. | | | | |
| (F0) | FULLWORD | 4 | S6RRLCT | Reread entry for full data length |
| (F4) | FULLWORD | 4 | S6ASYCT | Number of asynchronous requests |
| IXLLIST completion statistics indexed by internal response value. | | | | |
| (F8) | FULLWORD | 4 | S6RSP1CT | Normal response, everything OK |
| (FC) | FULLWORD | 4 | S6RSP2CT | Buffer length was too short for the data, needs full length reread |
| (100) | FULLWORD | 4 | S6RSP3CT | No matching entry was found, indicates table not found in index or record not found in table |
| (104) | FULLWORD | 4 | S6RSP4CT | Entry version did not match, indicates entry updated by another system or duplicate entry exists when attempting to create entry |
| (108) | FULLWORD | 4 | S6RSP5CT | List authority comparison mismatch, caused by table status update |
| (10C) | FULLWORD | 4 | S6RSP6CT | Maximum list key reached, indicates max table size or max tables reached depending on list |
| (110) | FULLWORD | 4 | S6RSP7CT | The list structure is out of space |
| (114) | FULLWORD | 4 | S6RSP8CT | An IXLLIST return code occurred other than those described above |
| (118) | FULLWORD | 4 | S6RSP9CT | Structure temporarily unavailable, for example during rebuild |

Table 42. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------|-----|------------|--------------------------------|
| (118) | | 0 | S6END | "*" |
| (118) | | 0 | S6CLEN | "*-S6LEN" Length of this DSECT |

CFS7D - CFDT Server Table Statistics

CONTROL BLOCK NAME = DFHCFS7D
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS (CFDT) Statistics for table accesses.
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 (C) Copyright IBM Corp. 1996
 FUNCTION = CF Statistics for table accesses.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 N/A
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

Table 43.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------|-------------------------------------|
| (0) | STRUCTURE | 0 | DFHCFS7D | , CF table access statistics record |
| (0) | FULLWORD | 4 | S7 (0) | Start of record |
| (0) | HALFWORD | 2 | S7LEN | Length of data area |
| (0) | .111 1111 | | S7IDE | "0127" Table access stats mask |
| (2) | ADDRESS | 2 | S7ID | Table access stats id |
| (2) |1 | | S7VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | S7DVERS | Table access stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| Coupling facility data table access statistics. | | | | |
| (8) | CHARACTER | 16 | S7TABLE | Table name padded with spaces |
| Statistics vector. | | | | |
| (18) | BITSTRING | 60 | S7STATS (0) | Statistics vector |
| Table control request statistics. | | | | |
| (18) | FULLWORD | 4 | S7OCOPEN | Open table |
| (1C) | FULLWORD | 4 | S7OCCLOS | Close table |
| (20) | FULLWORD | 4 | S7OCSET | Set table attributes |
| (24) | FULLWORD | 4 | S7OCDELE | Delete table |
| (28) | FULLWORD | 4 | S7OCSTAT | Extract table statistics |
| Table access request statistics. | | | | |

Table 43. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (2C) | FULLWORD | 4 | S7RQPOIN | Point |
| (30) | FULLWORD | 4 | S7RQHIG | Return highest key |
| (34) | FULLWORD | 4 | S7RQREAD | Read (including read for update) |
| (38) | FULLWORD | 4 | S7RQRDDL | Read and delete |
| (3C) | FULLWORD | 4 | S7RQUNLK | Unlock |
| (40) | FULLWORD | 4 | S7RQLOAD | Load |
| (44) | FULLWORD | 4 | S7RQWRIT | Write (new record) |
| (48) | FULLWORD | 4 | S7RQREWR | Rewrite |
| (4C) | FULLWORD | 4 | S7RQDELE | Delete |
| (50) | FULLWORD | 4 | S7RQDELM | Delete multiple |
| (50) | .1.1 .1.. | | S7END | "*" |
| (50) | .1.1 .1.. | | S7CLEN | "*-S7LEN" Length of this DSECT |

CFS8D - CFDT Server Request Statistics

CONTROL BLOCK NAME = DFHCFS8D
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS (CFDT) Request statistics.
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 FUNCTION = CF data table server request statistics.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 N/A
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

Table 44.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 0 | DFHCFS8D | , CFDT request statistics record |
| (0) | FULLWORD | 4 | S8 (0) | Start of record |
| (0) | HALFWORD | 2 | S8LEN | Length of data area |
| (0) | 1... | | S8IDE | "0128" Server request stats mask |
| (2) | ADDRESS | 2 | S8ID | Server request stats id |
| (2) |1 | | S8VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | S8DVERS | Server request stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| Statistics vector. | | | | |

Table 44. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------|-----------------------------------|
| (8) | BITSTRING | 88 | S8STATS (0) | Statistics vector |
| Total table control request statistics for all tables. | | | | |
| (8) | FULLWORD | 4 | S8OCOPEN | Open table |
| (C) | FULLWORD | 4 | S8OCCLOS | Close table |
| (10) | FULLWORD | 4 | S8OCSET | Set table attributes |
| (14) | FULLWORD | 4 | S8OCDELE | Delete table |
| (18) | FULLWORD | 4 | S8OCSTAT | Extract table statistics |
| Total table access request statistics for all tables. | | | | |
| (1C) | FULLWORD | 4 | S8RQPOIN | Point to record |
| (20) | FULLWORD | 4 | S8RQHIG | Return highest key |
| (24) | FULLWORD | 4 | S8RQREAD | Read record (includes for update) |
| (28) | FULLWORD | 4 | S8RQRDDL | Read and delete record |
| (2C) | FULLWORD | 4 | S8RQUNLK | Unlock record |
| (30) | FULLWORD | 4 | S8RQLOAD | Load record at initial load time |
| (34) | FULLWORD | 4 | S8RQWRIT | Write new record |
| (38) | FULLWORD | 4 | S8RQREWR | Rewrite existing record |
| (3C) | FULLWORD | 4 | S8RQDELE | Delete record |
| (40) | FULLWORD | 4 | S8RQDELM | Delete multiple records |
| Total inquire table statistics. | | | | |
| (44) | FULLWORD | 4 | S8IQINQU | Inquire table |
| Total recovery control request statistics. | | | | |
| (48) | FULLWORD | 4 | S8SPPREP | Prepare to commit unit of work |
| (4C) | FULLWORD | 4 | S8SPRETA | Retain locks for unit of work |
| (50) | FULLWORD | 4 | S8SPCOMM | Commit unit of work |
| (54) | FULLWORD | 4 | S8SPBACK | Back out unit of work |
| (58) | FULLWORD | 4 | S8SPINQU | Inquire about unit of work |
| (5C) | FULLWORD | 4 | S8SPREST | Restart recoverable connection |
| (5C) | .11. | | S8END | "11"11 |
| (5C) | .11. | | S8CLEN | "11*-S8LEN" Length of this DSECT |

CFS9D - CFDT Server Storage Statistics

CONTROL BLOCK NAME = DFHCFSD
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (CFDT) Statistics for server storage.
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FUNCTION = CF Statistics for server main storage usage.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 N/A
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

Table 45.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--------------------------------------|
| (0) | STRUCTURE | 0 | DFHCFS9D | , CF main storage statistics record |
| (0) | FULLWORD | 4 | S9 (0) | Start of record |
| (0) | ADDRESS | 2 | S9LEN | Length of data area |
| (0) | 1... ..1 | | S9IDE | "0129" CF DT main storage stats mask |
| (2) | ADDRESS | 2 | S9ID | CF DT main storage stats id |
| (2) |1 | | S9VERS | "X'01" DSECT version number mask |
| (4) | ADDRESS | 1 | S9DVERS | CF DT main storage stats version |
| (5) | BITSTRING | 3 | | Reserved |
| <p>These are the statistics returned by the AXM page pool management routines for the pools AXMPGANY and AXMPGLOW. Storage in these pools is allocated in multiples of 4K pages on a 4K boundary. The most frequent use is for segments of LIFO stack storage. Storage is initially allocated from the pool using a bit map. For faster allocation, free areas are not normally returned to the pool but are added to a vector of free chains depending on the size of the free area (1 to 32 pages). When storage is being acquired, this vector is checked before going to the pool bit map. If there are no free areas of the right size and there is not enough storage left in the pool, free areas in the vector are put back into the pool, starting from the smallest end, until a large enough area has been created. This action appears as a compress attempt in the statistics. If there is still insufficient storage to satisfy the request, the request is failed.</p> <p>Statistics for LOC=ANY storage pool.</p> | | | | |
| (8) | CHARACTER | 8 | S9ANYNAM | Pool name AXMPGANY |
| (10) | FULLWORD | 4 | S9ANYSIZ | Size of storage pool area |
| (14) | ADDRESS | 4 | S9ANYPTR | Address of storage pool area |
| (18) | FULLWORD | 4 | S9ANYMX | Total pages in the storage pool |
| (1C) | FULLWORD | 4 | S9ANYUS | Number of used pages in the pool |
| (20) | FULLWORD | 4 | S9ANYFR | Number of free pages in the pool |
| (24) | FULLWORD | 4 | S9ANYLO | Lowest free pages (since reset) |
| (28) | FULLWORD | 4 | S9ANYRQG | Storage GET requests |
| (2C) | FULLWORD | 4 | S9ANYRQF | Storage FREE requests |

Table 45. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-------------------------------------|
| (30) | FULLWORD | 4 | S9ANYRQS | GETs which failed to get storage |
| (34) | FULLWORD | 4 | S9ANYRQC | Compress (defragmentation) attempts |
| Statistics for LOC=BELOW storage pool. | | | | |
| (38) | CHARACTER | 8 | S9LOWNAM | Pool name AXMPGLOW |
| (40) | FULLWORD | 4 | S9LOWSIZ | Size of storage pool area |
| (44) | ADDRESS | 4 | S9LOWPTR | Address of storage pool area |
| (48) | FULLWORD | 4 | S9LOWMX | Total pages in the storage pool |
| (4C) | FULLWORD | 4 | S9LOWUS | Number of used pages in the pool |
| (50) | FULLWORD | 4 | S9LOWFR | Number of free pages in the pool |
| (54) | FULLWORD | 4 | S9LOWLO | Lowest free pages (since reset) |
| (58) | FULLWORD | 4 | S9LOWRQG | Storage GET requests |
| (5C) | FULLWORD | 4 | S9LOWRQF | Storage FREE requests |
| (60) | FULLWORD | 4 | S9LOWRQS | GETs which failed to get storage |
| (64) | FULLWORD | 4 | S9LOWRQC | Compress (defragmentation) attempts |
| (64) | .11. 1... | | S9END | "15g11" |
| (64) | .11. 1... | | S9CLEN | "*-S9LEN" Length of this DSECT |

CLT - Command list table

```

MACRO NAME = DFHCLT
DESCRIPTIVE NAME = CICS TS XRF Command List Table entry macro
FUNCTION =
    This macro defines a Command List Table (CLT) for use with
    CICS XRF.
EXTERNAL REFERENCES =
    XRF Takeover Initiation program, DFHWTI
MACROS (Macro pass) =
    DFHSYS - set globals
    DFHPRMCK - operand syntax checking
    DFHSMPT - generate SMP control statements
    DFHCOVER - generate cover pages
    DFHVM - generate version etc. constants
ROUTINES (Generated code) =
    none
DATA AREAS (Generated code) =
    DFHCLTDS (DSECT name)
CONTROL BLOCKS (Generated code) =
    none
+++ COMMAND LIST TABLE
    ENTRY FORMAT
    The CLT contains the following:
        o MVS System Operator commands and WTOs to be issued
          during takeover by a CICS Alternate of a CICS Active.
```

- o Identification data for the JES systems in use.
- o Data used to verify authority to takeover.

The CLT load module is link-edited into an APF Authorized library.

During takeover, the CICS Alternate calls the XRF Takeover Initiation program to terminate the CICS Active with an MVS System Operator command and to have the commands specified in the CLT issued to, for example, request MRO related systems to takeover.

Table 46.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHCLTDS | CLT DSECT |
| TYPE=INITIAL generated fields | | | | |
| (0) | CHARACTER | 1 | | Reserved |
| (1) | BITSTRING | 1 | CLTIVER | Version of CLT |
| (1) |1 | | CLTIVER1 | "X'01'" ..Version 1 |
| (2) | BITSTRING | 1 | CLTIJESX | Type of JES |
| (2) |1. | | CLTIJES2 | "X'02'" ..JES2 |
| (2) |11 | | CLTIJES3 | "X'03'" ..JES3 |
| (3) | CHARACTER | 1 | CLTIJCHR | JES identifier character |
| (4) | ADDRESS | 4 | CLTIIND1 | Address of Index 1 |
| (4) | 1... | | CLTJTAB | "*" JES system identification |
| (8) | CHARACTER | 4 | CLTJMVS | MVS system identifier |
| (C) | CHARACTER | 4 | CLTJJESN | JES2 or JES3 subsystem name |
| (C) | ...1 | | CLTJJES | "*" |
| (10) | CHARACTER | 1 | CLTJJ2ID | JES2 shared spool member number |
| (10) | 1..1 | | CLTJTBL2 | "*-CLTJTAB" Length of table entry for JES2 |
| (10) | CHARACTER | 8 | CLTJJ3ID | JES3 name on MAINPROC |
| (10) | ...1 | | CLTJTBL3 | "*-CLTJTAB" Length of table entry for JES3 |

TYPE=LISTSTART generated fields

Table 47.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|-------------------------------------|
| (0) | STRUCTURE | 0 | CLTI1DS | CLT Index 1 DSECT |
| Index 1 entry | | | | |
| (0) | CHARACTER | 4 | CLTI1END (0) | Zero if end of Index 1 |
| (0) | CHARACTER | 8 | CLTI1APL | Specific APPLID of Alternate |
| (8) | CHARACTER | 8 | CLTI1CANN | Jobname on termination command |
| (10) | ADDRESS | 4 | CLTI1ADI2 | Address of Index 2 for this |
| (10) | ...1 .1.. | | CLTI1LEN | "*-CLTI1DS" Length of Index 1 entry |

Table 48.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------|-----------|-----|--------------|-----------------------------|
| (0) | STRUCTURE | 0 | CLTCDS | CLT COMMAND/WTO entry DSECT |
| (0) | BITSTRING | 1 | CLTCTYPE | Entry type |
| (0) |1 | | CLTCCOM | "X'01'" Type=COMMAND |
| (0) |1. | | CLTCWTO | "X'02'" Type=WTO |
| (1) | BITSTRING | 1 | CLTCCEC | CEC indicator |
| (1) |1 | | CLTCCSAM | "X'01'" ..Same |
| (1) |1. | | CLTCCSEP | "X'02'" ..Separate |
| (2) | CHARACTER | 1 | CLTCDATA (0) | |
| TYPE=COMMAND | | | | |
| (2) | BITSTRING | 1 | CLTCCOML | Length of command |
| (3) | CHARACTER | 1 | CLTCTEXT (0) | Start of command text |
| TYPE=WTO | | | | |
| (2) | CHARACTER | 1 | (2) | Reserved |
| (4) | ADDRESS | 4 | CLTCADDR | Address of WTO MF=L |

Table 49.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 0 | CLTI2DS | CLT Index 2 DSECT |
| Index 2 entry | | | | |
| (0) | ADDRESS | 4 | CLT2ADDR | Address of COMMAND/WTO entry |
| (0) |1.. | | CLT2LEN | "*-CLTI2DS" Length of Index 2 entry |

MCTDR - Monitoring Dictionary Entry

Table 50.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 0 | DICTNTRY | |

MACRO NAME = DFHMCTDR
 DESCRIPTIVE NAME = CICS/ESA Monitoring Dictionary entry
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 (C) Copyright IBM Corp. 1986, 2012
 FUNCTION = Field definitions to map a monitoring dictionary entry.
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 ATTRIBUTES = none

Table 51.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | CHARACTER | 8 | CMODNAME | NAME OF OWNER |
| (8) | CHARACTER | 1 | CMODTYPE | OBJECT-TYPE 'S' = CLOCK 'A' = COUNT 'C' = BYTE-STRING 'T' = TIMESTAMP (STCK FORMAT) 'P' = PACKED-DECIMAL FIELD |
| (9) | CHARACTER | 3 | CMODIDNT | NUMERIC ID. WITHIN OBJECT-TYPE |
| (C) | HALFWORD | 2 | CMODLENG | LENGTH OF OBJECT |
| (E) | BITSTRING | 2 | CMODCONN | ASSIGNED CONNECTOR |
| (10) | BITSTRING | 2 | CMODOFST | ASSIGNED OFFSET |
| (12) | CHARACTER | 8 | CMODHEAD | INFORMAL NAME |
| (12) | ...1 1.1. | | CMODNEXT | 11g11 |

CRB - Cross region block

CONTROL BLOCK NAME = DFHCRBPS

DESCRIPTIVE NAME = CICS TS Cross Region Block

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FUNCTION =

This DSECT describes the CICS region block, which is used by the CICS inter-region communication facility.

The block is used to control inter-region activity at a global level, as opposed to controlling the activity of individual links with other regions.

The conversational TCTE (hung off the 'ISLINK' system entry in the TCT) is the block which controls individual 'conversations' between CICS and other regions.

The CRB is allocated when the facility is started up (by the start-up program, DFHCRSP), and freed when the facility is shut down (via the IS LOGOFF COMMND).

The block contains, amongst other things, argument lists and other information required to communicate with the inter-region SVC (DFHIRCP)

LIFETIME =

STORAGE CLASS =

LOCATION =

INNER CONTROL BLOCKS =

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS =

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

DATA AREAS =

CONTROL BLOCKS =

GLOBAL VARIABLES (Macro pass) =

Table 52.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 104 | DFHCRBDS | |
| (0) | CHARACTER | 8 | CRBEYE | Eyecatcher |
| (8) | FULLWORD | 4 | CRBSVCLS | ALIST FOR SVC FULL WORD ALIGNMENT |
| (C) | CHARACTER | 40 | CRBSVCSB | SUBLIST FOR SVC |
| (34) | ADDRESS | 4 | * | Reserved |
| (38) | FULLWORD | 4 | CRBUSID | SVC USER ID ALLOC'D TO CICS |
| (3C) | ADDRESS | 4 | CRBSLCB | A(SVC'S SLCB CTL BLOCK) |
| (40) | CHARACTER | 8 | CRBIMQTK | Immed queue token for queue manager |
| (48) | CHARACTER | 8 | CRBDLQTK | Delay queue token for queue manager |
| (50) | CHARACTER | 8 | CRBSTASV | SAVE REGS 13, 14 IN STAE |
| (50) | FULLWORD | 4 | * | REGS 13 |
| (54) | FULLWORD | 4 | * | REGS 14 |
| (58) | HALFWORD | 2 | CRBSVCIN | INSTR TO INVOKE INTER-RGN SVC |
| (5A) | CHARACTER | 2 | * | Reserved |
| (5C) | BIT(8) | 1 | CRBFLG1 | FLAG BYTE |
| (5C) | 1... | | * | 80 reserved |
| (5C) | .1.. | | CRBSCSMT | 40 SUPPRESS 'QUIESCE COMPLETE' MSG TO CSMT IN CSNC. (THIS BIT SET WHEN INTER-RGN FCLY STOPPED BY STP OR SRP) |
| (5C) | ..1. | | * | 20 reserved |
| (5C) | ...1 | | * | 10 reserved |
| (5C) | 1... | | CRBABND | 08 CSNC HAS ABENDE- NRML SHUT MUSTN'T ISSUE IS STOPNML |
| (5D) | CHARACTER | 3 | * | alignment |
| (60) | ADDRESS | 4 | * | Reserved |
| (64) | ADDRESS | 4 | CRBDSTOK | DS token for work exit |

CSA - Common system area generator

CONTROL BLOCK NAME = DFHCSAPS
 MATCHING ASSEMBLER CONTROL BLOCK = DFHCSAD
 DESCRIPTIVE NAME = CICS TS COMMON SYSTEM AREA GENERATOR.
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 (C) Copyright IBM Corp. 1984, 2014
 FUNCTION =
 DFHCSAPS GENERATES THE DSECT FOR THE CICS COMMON SYSTEM AREA.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NOT APPLICABLE
 MODULE TYPE = MACRO
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE
 MACROS : DFHAFCD, DFHEJECT, DFHPRINT, DFHSYS

D

R49845 680 120601 HDLVDNM: Add new ACD subpool for ICEs
 R64250 690 130516 HDIDNCS: FE flags status report
 R75134 690 121009 HDLVDNM: Add new ACD subpool for 2 ICEs

 dummy change for apar pq48275

Table 53.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------------|---|
| (0) | STRUCTURE | 452 | DFHCSADS | SECTION - CSA |
| (0) | CHARACTER | 0 | DFHCSABA | COMMON SYSTEM AREA BEGIN ADDRESS |
| (0) | FULLWORD | 4 | CSAOSRSA (4294967314:342005568) | CONTROL SYSTEM REGISTER AREA |
| (48) | CHARACTER | 0 | CSASOSI | SHORT ON STORAGE INDICATOR |
| (48) | BIT(8) | 1 | CSASSI1 | SYSTEM SIGNAL INDICATOR 1 |
| (48) | 1... | | * | Reserved |
| (48) | .1.. | | CSAFTCAB | RMI forced TCAs below 16M |
| (48) | ..1. | | CSASDTRN | SDTRAN STARTED |
| (48) | ...1 | | CSAQUIES | FINAL QUIESCE STAGE |
| (48) | 1... | | CSASITRM | SIT RMs processed |
| (48) |1.. | | * | Reserved |
| (48) |1. | | CSACSDOP | CSD OPEN IN START-UP |
| (48) |1 | | CSASOSON | SHORT ON STORAGE CONDITION |
| (49) | CHARACTER | 0 | CSAKCMI | MAXIMUM NUMBER OF TASKS IND |
| (49) | BIT(8) | 1 | CSASSI2 | SYSTEM SIGNAL INDICATOR 2 CONDITION |
| (49) | 1... | | CSASTIM | SYSTEM TERMINATION INDICATOR MASK |
| (49) | .1.. | | CSAFNLTM | FINAL TERMINATION PHASE POSTING MASK |
| (49) | ..1. | | CSATCSCN | TCP full scan required |
| (49) | ...1 | | CSAPLTPI | PLTPI PHASE HAS COMPLETED |
| (49) | 1... | | CSATCPQM | TERMINAL CONTROL QUIESCE TASK |
| (49) |1.. | | CSATQIM | TRANSACTION QUIESCE INDICATOR MASK |

Table 53. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (49) |1. | | CSAMXTON | MAXIMUM TASK INDICATOR ON CONDITION |
| (49) |1 | | CSATCPEV | TCP-KCP PENDING EVENT. |
| (4A) | CHARACTER | 2 | * | Reserved |
| (4C) | ADDRESS | 4 | CSAQRCTCA | DO NOT USE: Non threadsafe. Previously -> TCA of current task. Now contains a fetch protected address. |
| (50) | CHARACTER | 4 | CSATODP | TIME OF DAY. A PACKED INTEGER OF THE FORM HHMMSSCT WHERE HH IS HOURS, MM IS MINUTES, SS IS SECONDS, T IS TENTHS OF A SECOND AND C IS A POSITIVE SIGN. |
| (54) | ADDRESS | 4 | CSAICEBA | INTERVAL CONTROL ELEMENT (ICE) CHAIN BEGINNING ADDRESS |
| (58) | HALFWORD | 2 | CSAICSIC | default DTIMOUT interval in seconds. |
| (5A) | BIT(8) | 1 | CSADATFT | DATE FORMAT INDICATOR |
| (5A) | 1111 1... | | * | Reserved |
| (5A) |1.. | | CSADATFY | FORMAT AS YYMMDD |
| (5A) |1. | | CSADATFD | FORMAT AS DDMMYY |
| (5A) |1 | | CSADATFM | FORMAT AS MMDDYY |
| (5B) | BIT(8) | 1 | CSAICIND | INTERVAL CONTROL INDICATOR |
| (5B) | 111. | | * | Reserved |
| (5B) | ...1 | | CSAICMNR | AUTORESETTIME INDICATOR |
| (5B) | 1... | | CSAICIMM | IMM on AUTORESETTIME |
| (5B) |1.. | | CSAICRIP | Reset is in progress |
| (5B) |1. | | CSAICITP | ADJUSTMENT TASK PENDING MASK |
| (5B) |1 | | CSAICIAJ | TIME-OF-DAY ADJUSTMENT MASK |
| (5C) | FULLWORD | 4 | CSATADJT | TIME OF DAY ADJUSTMENT VALUE. THE DIFFERENCE BETWEEN THE OPERATING SYSTEM TIME OF DAY AND THE CICS TIME OF DAY EXPRESSED IN 300THS OF A SECOND. |

Table 53. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (60) | CHARACTER | 4 | CSACTODB | CURRENT TIME OF DAY. A BINARY INTEGER OF WHICH THE LEAST SIGNIFICANT BIT REPRESENTS ONE ONE-HUNDREDTH OF A SECOND. |
| (60) | FULLWORD | 4 | CSACSCC | COMMON SYSTEM CONTROL CLOCK |
| (64) | FULLWORD | 4 | CSASBTI | SYSTEM PARTITION/REGION EXIT TIMER INTERVAL EXPRESSED IN 300THS OF A SECOND (CICS TIMER UNITS) IN THE THREE HIGH-ORDER BYTES. |
| (68) | ADDRESS | 4 | CSAEITHG | HIRED GUN TABLE ADDRESS |
| (6C) | FULLWORD | 4 | CSASITOD | SYSTEM INITIALIZATION TIME OF DAY IN BINARY SECONDS. |
| (70) | BIT(8) | 1 | CSACPSM | Used by CPSM |
| (70) | 1... | | CSAONE | PK37813 is applied |
| (70) | .111 1111 | | * | Reserved |
| (71) | BIT(8) | 1 | CSACPSMW | CPSM/WU COMPONENT FLAG |
| (71) | 1... | | CSACPSML | LMAS AGENT STARTED |
| (71) | .1.. | | CSACPSMR | RMAS AGENT STARTED |
| (71) | ..1. | | CSACPSMT | MAS TRUE ENABLED |
| (71) | ...1 | | CSACPSMD | DEBUG TRUE |
| (71) | 1111 | | * | Reserved |
| (72) | CHARACTER | 2 | * | Reserved |
| (74) | ADDRESS | 4 | CSAPLBA | PARTITION LOWER BOUNDARY ADDRESS |
| (78) | ADDRESS | 4 | CSAPUBA | PARTITION UPPER BOUNDARY ADDRESS |
| (7C) | CHARACTER | 4 | CSAJYDP | A PACKED INTEGER OF THE FORM 0CYYDDDS WHERE YY IS YEARS, DDD IS DAYS, C IS A CENTURY INDICATOR (0=1900 1=2000, 2=2100 etc) AND S IS A POSITIVE SIGN. |
| (80) | ADDRESS | 4 | CSASPFPA | ADDRESS OF SPECIAL FETCH- PROTECTED STORAGE AREA |
| (84) | BIT(8) | 1 | CSATRMF1 | TRACE SYSTEM MASTER FLAGS |

Table 53. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (84) | 1... | | CSATRMAS | TRACE MASTER FLAG. IF ON, TRACING OCCURS OF SYSTEM AND USER ENTRIES - ACCORDING TO INDIVIDUAL FLAGS |
| (84) | .1.. | | CSATRSYS | SYSTEM MASTER FLAG. IF ON, SYSTEM ENTRIES ARE TRACED |
| (84) | ..1. | | CSATRUSE | USER MASTER FLAG. IF ON, USER ENTRIES ARE TRACED |
| (84) | ...1 11.. | | * | Reserved |
| (84) |1. | | CSATRFEP | TRACE FEPI |
| (84) |1 | | * | Reserved |
| (85) | BIT(8) | 1 | CSATRMF2 | TRACE SYSTEM SELECTION FLAGS |
| (85) | 1... | | CSATRMKC | TRACE TASK CONTROL |
| (85) | .1.. | | CSATRMSC | TRACE STORAGE CONTROL |
| (85) | ..1. | | CSATRMPC | TRACE PROGRAM CONTROL |
| (85) | ...1 | | CSATRMIC | TRACE INTERVAL CONTROL |
| (85) | 1... | | CSATRMDC | TRACE DUMP CONTROL |
| (85) |1.. | | CSATRMFC | TRACE FILE CONTROL, DL/I |
| (85) |1. | | CSATRMTD | TRACE TRANSIENT DATA |
| (85) |1 | | CSATRMRI | TRACE RMI LEVEL 1 |
| (86) | BIT(8) | 1 | CSATRMF3 | TRACE SYSTEM SELECTION FLAGS |
| (86) | 1... | | CSATRMR2 | TRACE RMI LEVEL 2 |
| (86) | .1.. | | CSATRMEI | TRACE EXEC INTERFACE |
| (86) | ..1. | | CSATRMRA | TRACE RES MAN ADAPTER LVL |
| (86) | ...1 | | CSATRMSP | TRACE SYNC POINT |
| (86) | 1... | | CSATRMTC | TRACE TERMINAL CONTROL |
| (86) |1.. | | CSATRMA2 | TRACE RES MAN ADAPTER LVL |
| (86) |1. | | CSATRMBM | TRACE BMS |
| (86) |1 | | CSATRMJC | TRACE JOURNAL CONTROL |
| (87) | BIT(8) | 1 | CSATRMF4 | TRACE SYSTEM SELECTION FLAGS |
| (87) | 1... | | CSATRMIS | TRACE ISC |

Table 53. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (87) | .1.. | | CSATRMUE | TRACE USER EXIT INTERFACE |
| (87) | ..1. | | CSATRMS5 | Reserved |
| (87) | ...1 | | CSATRMS4 | Reserved |
| (87) | 1... | | CSATRMS3 | Reserved |
| (87) |1.. | | CSATRMS2 | Reserved |
| (87) |1. | | CSATRMS1 | Reserved |
| (87) |1 | | CSATRMLF | LIFO FLAG |
| (88) | BIT(8) | 1 | CSATRMF5 | TASK STORAGE SELECTION FLAGS |
| (88) | 1... | | * | Reserved |
| (88) | .1.. | | CSATSKCR | TASK STORAGE = CURRENT |
| (88) | ..1. | | CSASTGFZ | storage freeze on |
| (88) | ...1 1111 | | * | Reserved |
| (89) | BIT(8) | 1 | CSATRMF6 | TERMINAL STORAGE SEL. FLAGS |
| (89) | 1... | | CSATRMCR | TERMINAL STORAGE = CURRENT |
| (89) | .111 | | * | reserved |
| (89) | 1... | | CSAGTRAP | GTRAP invoked ! |
| (89) |1.. | | CSATRAP | TRAP invoked ! |
| (89) |1. | | CSAUSTG | defined not used |
| (89) |1 | | CSATRMFQ | defined not used |
| (8A) | UNSIGNED | 1 | CSAUSKEY | USER KEY IN IC/SPKA FORM |
| (8B) | UNSIGNED | 1 | CSACIKEY | CICS KEY IN IC/SPKA FORM |
| (8C) | ADDRESS | 4 | CSASITBA | SYSTEM INITIALIZATION TABLE (SIT) ADDRESS |
| (90) | FULLWORD | 4 | CSAUNQID | UNIQUE IDENTIFICATION COUNTER (BINARY FULLWORD COUNTER) |
| (94) | FULLWORD | 4 | CSAAIDBA | Reserved and must not be used |
| (98) | HALFWORD | 2 | CSASTIME | SNT tuning parm (from SIT) |
| (9A) | HALFWORD | 2 | CSALTIME | LUIT tuning parm (from SIT) |
| OPERATING SYSTEM AND CICS LEVEL INDICATORS | | | | |
| (9C) | CHARACTER | 1 | CSAOPSYS | OPERATING SYSTEM |
| (9D) | CHARACTER | 1 | CSAOPREL | OPERATING SYSTEM RELEASE |
| (9E) | CHARACTER | 1 | CSACICS | CICS SYSTEM |
| (9F) | BIT(8) | 1 | CSACIREL | CICS RELEASE |

Table 53. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------|-----------|-----|------------|---|
| (A0) | ADDRESS | 4 | CSAKCNAC | Task control |
| (A4) | ADDRESS | 4 | CSASCNAC | Storage control |
| (A8) | ADDRESS | 4 | CSAPCNAC | Program control |
| (AC) | ADDRESS | 4 | CSAICNAC | Time control |
| (B0) | ADDRESS | 4 | CSADCNAC | Dump control |
| (B4) | ADDRESS | 4 | CSATCNAC | Terminal control |
| (B8) | ADDRESS | 4 | CSATCTCA | TERMINAL CONTROL TASK CONTROL AREA ADDRESS |
| (BC) | ADDRESS | 4 | CSAROCSA | Read-only CSA (for PL/1) |
| (C0) | ADDRESS | 4 | CSAICEXP | IC expiry TXN TCA addr |
| (C4) | CHARACTER | 1 | CSASSI3 | Reserved (former ICVSW) |
| (C4) | 1... | | * | Reserved |
| (C4) | .1.. | | CSASTPRO | Storage Protect flag |
| (C4) | ..1. | | CSATRISO | Tran Isolation Flag |
| (C4) | ...1 | | CSAFRCQR | 1=> FORCEQR=FORCE |
| (C4) | 1... | | CSAIPICY | Is IPIC in use in region? |
| (C4) |1.. | | CSAAUDIT | is audit command on? |
| (C4) |1. | | CSAAUDSW | is audit disabled |
| (C4) |1 | | * | |
| (C5) | UNSIGNED | 1 | CSACIMOD | CICS modification level in hex |
| (C6) | HALFWORD | 2 | * | Reserved |
| (C8) | ADDRESS | 4 | CSAOPFLA | CSA OPTIONAL FEATURES LIST ADDRESS |
| (CC) | ADDRESS | 4 | CSAECSSA | Addr of DFHECSS or 0 if event capture disabled |
| (D0) | CHARACTER | 8 | * | Reserved |
| (D8) | ADDRESS | 4 | * | Reserved |
| CONSTANTS | | | | |
| (DC) | CHARACTER | 4 | * | MEMORY CONSTANT - CNST |
| MISCELLANEOUS CONSTANTS | | | | |
| (E0) | HALFWORD | 2 | * | Reserved |
| (E2) | HALFWORD | 2 | CSALEN | Length of CSA |
| (E4) | ADDRESS | 4 | CSACWAA | Address of CWA |
| (E8) | HALFWORD | 2 | CSACWAL | Length of CWA |
| (EA) | HALFWORD | 2 | * | Reserved |
| (EC) | CHARACTER | 8 | CSATCA31 | 31 bit TCA subpool token |
| (F4) | CHARACTER | 8 | CSATCA24 | 24 bit TCA subpool token |
| (FC) | CHARACTER | 8 | * | Reserved |
| (104) | ADDRESS | 4 | CSATCADF | ADDR(proforma TCA) |

Table 53. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (108) | ADDRESS | 4 | CSAQRTCB | QR TCB address |
| (10C) | ADDRESS | 4 | CSAEIPAD | EIP ADCON LIST (DFHEIP00) |
| (110) | ADDRESS | 4 | CSABRSAA | BR State Area |
| (114) | UNSIGNED | 4 | CSAQRTOK | Modename token of QR |
| SYSTEM CONTROL TABLE BEGINNING ADDRESSES | | | | |
| (118) | ADDRESS | 4 | CSATRRAT | Return addr to be traced |
| (11C) | ADDRESS | 4 | CSAAINAC | Entry point of DFHAPIN |
| (120) | ADDRESS | 4 | * | Reserved |
| (124) | ADDRESS | 4 | CSATCTBA | ADDRESS OF TERMINAL CONTROL TABLE |
| (128) | ADDRESS | 4 | CSAFCSBA | ADDRESS OF FILE CONTROL STATIC STORAGE |
| (12C) | ADDRESS | 4 | * | Reserved |
| OPEN & CLOSE LIST | | | | |
| (130) | ADDRESS | 4 | * | Reserved |
| (134) | ADDRESS | 4 | CSATOLA | TERMINAL DATA SET OPEN LIST ADDRESS |
| (138) | ADDRESS | 4 | * | Reserved |
| TIME OF DAY CONTROL | | | | |
| (13C) | FULLWORD | 4 | CSABACL2 | LAST VIRT. MIDNIGHT VALUE (4.096 MSEC RESOLUTION) |
| (140) | FULLWORD | 4 | CSABASCL | BASE TIME-OF-DAY CLOCK VALUE (4.096 MILLISECONDS RESOLUTION) |
| (144) | FULLWORD | 4 | CSABASTU | BASE TIMER UNITS VALUE EXPRESSED IN 300THS OF A SECOND RESOLUTION |
| CICS EXECUTION STATUS | | | | |
| (148) | CHARACTER | 3 | CSAXST | CICS EXECUTION STATUS FLAGS |
| (148) | BIT(8) | 1 | CSAXST1 | CICS EXECUTION STATUS |
| (148) | 1... | | * | Reserved |
| (148) | .1.. | | CSAXSTMC | CICS CONTROLLED SHUTDOWN.. |
| (148) | ..1. | | CSAXSTMI | CICS IMMEDIATE SHUTDOWN.. ..IF CSAXSTM IS ALSO SET |
| (148) | ...1 | | CSAXSTMX | CICS HAS BEEN CANCELLED.. ..IF CSAXSTM IS ALSO SET |

Table 53. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------|-----------|-----|------------|---|
| (148) | 1... | | * | Reserved |
| (148) |1.. | | CSAXSTM | CICS TERMINATION |
| (148) |1. | | CSAXSEX | CICS EXECUTION |
| (148) |1 | | CSAXSI | CICS INITIALIZATION |
| (149) | BIT(8) | 1 | CSAXST2 | CICS EXECUTION STATUS |
| (149) | 11.. | | * | Reserved |
| (149) | ..1. | | CSAXSQ2 | 2ND-STAGE OF QUIESCE |
| (149) | ...1 | | CSAXSQ1 | 1ST-STAGE OF QUIESCE |
| (149) | 1... | | * | Reserved |
| (149) |1.. | | CSAXSI3 | 3RD-STAGE INITIALIZATION |
| (149) |1. | | CSAXSI2 | 2ND-STAGE INITIALIZATION |
| (149) |1 | | CSAXSI1 | 1ST-STAGE INITIALIZATION |
| (14A) | BIT(8) | 1 | CSAXST3 | CICS EXECUTION STATUS |
| (14A) | 1111 111. | | * | Reserved |
| (14A) |1 | | CSAXSINC | CICS INITIALIZATION COMPLETE |
| (14B) | BIT(8) | 1 | * | Reserved |
| (14C) | ADDRESS | 4 | CSANULLP | Non 0 null address |
| (150) | ADDRESS | 4 | CSASPPF2 | addr of another fetch protected area |
| (154) | ADDRESS | 4 | * | Available for future use |
| (158) | ADDRESS | 4 | CSATDNAC | Transient data entry |
| (15C) | ADDRESS | 4 | CSATSNAC | Temp storage entry |
| (160) | ADDRESS | 4 | CSATCRWE | TCP read/write entry |
| (164) | ADDRESS | 4 | CSAWTOAD | Write-to-operator routine |
| (168) | ADDRESS | 4 | CSATRNAC | Trace entry |
| (16C) | ADDRESS | 4 | CSASPNAC | Sync point entry |
| (170) | ADDRESS | 4 | * | Reserved |
| TIME MANAGEMENT STORAGE | | | | |
| (174) | FULLWORD | 4 | CSATODTU | BINARY TIME OF DAY IN 300THS OF A SECOND |
| (178) | FULLWORD | 4 | CSATCNDT | TERMINAL CONTROL'S NEXT DISPATCH TIME OF DAY IN 300THS OF A SECOND |
| (17C) | FULLWORD | 4 | * | Reserved |
| (180) | CHARACTER | 2 | * | Reserved |
| (182) | BIT(8) | 1 | CSARDATC | RELATIVE DATE COUNTER (BINARY) |
| (183) | BIT(8) | 1 | * | Reserved |

Table 53. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------|-----------|-----|------------|-----------------------------|
| WORKAREA | | | | |
| (184) | CHARACTER | 8 | * | MEMORY COMMENT - 'WORKAREA' |
| SYSTEM STATISTICS | | | | |
| (18C) | ADDRESS | 4 | CSAFASTL | -> FAST LINK WORK AREA |
| (190) | CHARACTER | 4 | * | Reserved |
| (194) | UNSIGNED | 4 | CSAPPFN | PPF change counter |
| (198) | UNSIGNED | 4 | CSATCTSV | TCTS change counter |
| (19C) | ADDRESS | 4 | CSAPFTRR | relay link PFT address |
| (1A0) | ADDRESS | 4 | CSAPFTRS | relay link PFT address |
| (1A4) | CHARACTER | 8 | * | Reserved |
| (1AC) | ADDRESS | 4 | CSABRLKA | DFHBRLK entry point |
| (1B0) | ADDRESS | 4 | CSABRAIA | DFHBRAI entry point |
| (1B4) | ADDRESS | 4 | CSABRFRA | DFHBRFR entry point |
| (1B8) | ADDRESS | 4 | CSABRFMA | DFHBRFM entry point |
| (1BC) | ADDRESS | 4 | CSABRTBA | DFHBRTB entry point |
| (1C0) | ADDRESS | 4 | CSABRTQA | DFHBRTQ entry point |
| (1C4) | CHARACTER | 0 | CSACSAEA | END OF CSA |

OPTIONAL FEATURE LIST

Table 54.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|------|------------|--|
| (0) | STRUCTURE | 1448 | CSAOPFL | FEATURE LIST DSECT |
| (0) | ADDRESS | 4 | * | Reserved |
| (4) | ADDRESS | 4 | CSASNSTA | LOCATION OF DFHSNSTA - SIGNON STATISTICS RECORDS |
| (8) | ADDRESS | 4 | * | Reserved |
| (C) | ADDRESS | 4 | CSACCNVA | Address of CCNV anchor |
| (10) | ADDRESS | 4 | * | Reserved |
| (14) | ADDRESS | 4 | CSASRNAC | SYSTEM RECOVERY PROGRAM ENTRY ADDRESS |
| (18) | ADDRESS | 4 | CSASRTBA | ADDRESS OF SYSTEM RECOVERY TABLE |
| (1C) | ADDRESS | 4 | * | Reserved |
| (20) | ADDRESS | 4 | CSAXLTBA | ADDRESS OF SYSTEM TERMINATION TRANSACTION LIST TABLE |
| (24) | ADDRESS | 4 | * | Reserved |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------|-----------|-----|------------|---|
| (28) | ADDRESS | 4 | CSACQSTA | Address of static storage for CQ (Console Queue) |
| (2C) | ADDRESS | 4 | CSATSTBA | ADDRESS OF TEMPORARY STORAGE TABLE |
| (30) | ADDRESS | 4 | CSAAIINN | DFHAIIN Entry point for AITM * |
| (34) | ADDRESS | 4 | CSACPINN | DFHCPIN Entry point for CPIN * |
| (38) | ADDRESS | 4 | CSAPRINN | DFHPRIN Entry point for PRIN * |
| (3C) | ADDRESS | 4 | CSAKCSC | ADDRESS of KC query program * |
| (40) | ADDRESS | 4 | CSABRSPA | Address of Bridge exit interface routine (SP) |
| (44) | ADDRESS | 4 | CSASRAA | ADDRESS OF SRB CONTROL AREA * |
| (48) | ADDRESS | 4 | CSAMROQA | ANCHOR BLOCK FOR MRO W-Q |
| (4C) | ADDRESS | 4 | CSADINAC | DATA INTERCHANGE MODULE ADDRESS |
| (50) | ADDRESS | 4 | CSASTYDP | CICS START-UP DATE IN THE FORM 0CYYDDDS WHERE YY IS THE YEAR, DDD IS THE DAY, C IS THE CENTURY INDICATOR AND S IS A POSITIVE SIGN |
| (54) | ADDRESS | 4 | CSAFCXAD | ADDRESS OF DFHFCIN |
| (58) | ADDRESS | 4 | CSACSAAD | ADDRESS OF CSA |
| (5C) | ADDRESS | 4 | CSAMGNAC | ADDRESS OF DFHMGP MESSAGE PROGRAM |
| (60) | ADDRESS | 4 | CSAMGTAC | ADDRESS OF MESSAGE TABLE |
| (64) | CHARACTER | 8 | CSACOMTK | SUBPOOL TOKEN FOR TERMINAL COMMAREA ABOVE THE LINE (CICS KEY STORAGE) |
| MODULE ADDRESSES AND TOKENS | | | | |
| (6C) | ADDRESS | 4 | * | Reserved |
| (70) | ADDRESS | 4 | CSAXFPNA | ADDRESS OF EXEC TRANSFORMER PROGRAM |
| (74) | ADDRESS | 4 | CSAISPNA | ADDRESS OF EXEC INTERSYSTEM PROGRAM |
| (78) | ADDRESS | 4 | CSAXTPNA | ADDRESS OF TERMINAL SHARING TRANSFORMER PROGRAM |
| EXEC INTERFACE MODULE ADDRESS | | | | |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------------|-----------|-----|-------------------|---|
| (7C) | ADDRESS | 4 | CSAEINAC | ADDRESS OF DFHEIP Exec nucleus * |
| (80) | ADDRESS | 4 | CSAEIGNA | ADDRESS OF DFHEIG |
| (84) | CHARACTER | 8 | CSAICA31 | Subpool token ICE |
| (8C) | CHARACTER | 8 | CSAECATK | Subpool token for APECA |
| Special area for Language Interface | | | | |
| (94) | ADDRESS | 4 | CSACEEPI | Address of CEEPIPI |
| (98) | ADDRESS | 4 | CSACLQPI | Address of CELQPIPI |
| (9C) | FULLWORD | 4 | CSACEEIL | Special interface level |
| (A0) | CHARACTER | 4 | CSACEEFG | Flags |
| (A0) | BIT(8) | 1 | CSACEEF1 | Flag Byte |
| (A0) | 1... | | CSACEELD | CEECCICS loaded |
| (A0) | .1.. | | CSACEEIN | LE/370 initialized |
| (A0) | ..1. | | CSA_GLBLOPTS_SET | Global options processed |
| (A0) | ...1 | | CSA_THREADSAFE | Global default THREADSAFE |
| (A0) | 1... | | CSA_QUASIRENT | Global default QUASIRENT |
| (A0) |1.. | | CSA_OPENAPI | Global default OPENAPI |
| (A0) |1. | | CSA_REQUIRED | Global default REQUIRED |
| (A0) |1 | | CSA_LOCK_VALID | LE Lock is valid |
| (A1) | BIT(8) | 1 | CSALANG | Language byte |
| (A1) | 1... | | ASMINIT | Assembler initialized by LE/370 * |
| (A1) | .1.. | | CINIT | C initialized by LE/370 |
| (A1) | ..1. | | COBINIT | Cobol initialized by LE370 * |
| (A1) | ...1 | | PLIINIT | PL/I initialized by LE/370 * |
| (A1) | 1... | | RPGINIT | RPG initialized by LE/370 |
| (A2) | BIT(8) | 1 | CSALEFUN | active CICS/LE functions |
| (A2) | 1... | | CSA_PROG_TYPE3 | type 3 objects supported |
| (A2) | .1.. | | * | reserved |
| (A2) | ..1. | | CSA_LE_OTE | OTE support active |
| (A2) | ...1 | | CSA_REUSABLE_RUWA | RUWAs are reusable |
| (A2) | 1... | | CSA_ABEND_CANCEL | ABEND with CANCEL |
| (A2) |1.. | | CSA_DUMP_SUPPRESS | dump suppression |
| (A2) |1. | | CSA_LE_OTE_2 | OTE stage2 support active |
| (A2) |1 | | CSA_LE_LDMDNAME | include module name in PGMINFO1 (storage tuning exit) |
| (A3) | BIT(8) | 1 | CSALEFUN2 | active CICS/LE functions |
| (A3) | 1... | | CSA_LE_TUNE_SUP | LE supports automatic storage * tuning |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------------|--|
| (A3) | .1.. | | CSA_LE_AUTODST | LE will perform automatic storage tuning |
| (A3) | ..1. | | CSA_LE_REUSABLE_ENCLAVES | LE supports reusable enclaves |
| (A3) | ...1 | | CSA_LE_SERVICE_RTNS | LE can use the CICS service routines |
| (A3) | 1... | | CSA_LE_REAL_ENTRY | LE supports XPCFTCH real entry point |
| (A3) |1.. | | CSA_LE_DEBUG_INFO | LE supports DPCC debugger information in PGMINFO1 |
| (A3) |1. | | CSA_LE_GOTO | LE drives goto |
| (A3) |1 | | CSA_LE_EXT_REG | LE supports extended regs |
| (A4) | CHARACTER | 8 | CSACEEPT | LE/370 Partition token |
| (AC) | ADDRESS | 4 | CSACEERA | Address of interface routine * |
| (B0) | FULLWORD | 4 | CSACEETL | Length of pre-allocated Thread storage |
| (B4) | CHARACTER | 4 | CSA_INIT | CICS Initialization status flags |
| (B4) | BIT(8) | 1 | * | |
| (B4) | 1... | | CSAPINIT | Partition Initialization for Languages has completed |
| (B4) | .111 1111 | | * | Reserved |
| (B5) | BIT(24) | 3 | * | Reserved |
| (B8) | ADDRESS | 4 | CSALIRNA | Address of DFHLIRET |
| (BC) | CHARACTER | 8 | CSA_PLB_SPTOKEN | Program Language Block Subpool Token |
| (C4) | ADDRESS | 4 | CSABRMSA | Address of Bridge exit interface routine (BMS) |
| (C8) | ADDRESS | 4 | CSABRTCA | Address of Bridge exit interface routine (TC) |
| (CC) | ADDRESS | 4 | CSABRICA | Address of Bridge exit interface routine (IC) |
| FURTHER EXECUTION INTERFACE MODULE ADDRESSES | | | | |
| (D0) | ADDRESS | 4 | CSAEISR | Address of DFHEISR service routine |
| (D4) | ADDRESS | 4 | CSAEIGR | Address of DFHEIGR service routine |
| (D8) | ADDRESS | 4 | CSAERMNA | ADDRESS OF RESOURCE MANAGER I/F |
| (DC) | ADDRESS | 4 | CSAETLNA | ADDRESS OF LU6.2 MAPPED STUB |
| (E0) | ADDRESS | 4 | CSAEBUNA | ADDRESS OF FMH BUILDER |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|--|
| (E4) | ADDRESS | 4 | CSAEEXNA | ADDRESS OF FMH EXTRACTOR |
| TERMINAL CONTROL MODULE ADDRESSES | | | | |
| (E8) | ADDRESS | 4 | CSATCNCA | ADDRESS OF DFHZCA |
| (EC) | ADDRESS | 4 | CSATCNCB | ADDRESS OF DFHZCB |
| (F0) | ADDRESS | 4 | CSATCNCC | ADDRESS OF DFHZCC |
| (F4) | ADDRESS | 4 | CSATCNCP | ADDRESS OF DFHZCP |
| (F8) | ADDRESS | 4 | CSATCNCW | ADDRESS OF DFHZCW |
| (FC) | ADDRESS | 4 | CSATCNCX | ADDRESS OF DFHZCX |
| (100) | ADDRESS | 4 | CSATCNCY | ADDRESS OF DFHZCY |
| (104) | ADDRESS | 4 | CSATCNCZ | ADDRESS OF DFHZCZ |
| BASIC MAPPING SUPPORT MODULE ENTRY ADDRESSES | | | | |
| (108) | ADDRESS | 4 | CSARLREA | ADDRESS OF ROUTE LIST RESOLUTION PROGRAM |
| (10C) | ADDRESS | 4 | CSAPBPEA | ADDRESS OF PAGE BUILD PROGRAM |
| (110) | ADDRESS | 4 | CSAM32EA | ADDRESS OF 3270 MAPPING PROGRAM |
| (114) | ADDRESS | 4 | CSAMCXEA | ADDRESS OF BMS FAST PATH MODULE |
| (118) | ADDRESS | 4 | CSATPPEA | ADDRESS OF TERMINAL PAGING PROGRAM |
| (11C) | ADDRESS | 4 | CSAIIPEA | ADDRESS OF NON-3270 INPUT MAPPING PROGRAM |
| (120) | ADDRESS | 4 | CSADWEXA | ADDRESS OF DWE PROCESSING EXIT |
| (124) | ADDRESS | 4 | CSADSBEA | ADDRESS OF DATA STREAM BUILD PROGRAM |
| (128) | ADDRESS | 4 | CSAPHPEA | ADDRESS OF PARTITION HANDLING PROGRAM |
| (12C) | ADDRESS | 4 | CSAML1EA | ADDRESS OF LU TYPE 1 MAPPING PROGRAM |
| MISCELLANEOUS PROGRAM ADDRESSES | | | | |
| (130) | ADDRESS | 4 | CSARTSUA | Address of DFHRTSU Surrogate interface |
| (134) | ADDRESS | 4 | CSAPCNNA | ADDRESS OF NON-WORKING SET PROGRAM CONTROL PROGRAM |
| (138) | ADDRESS | 4 | CSAGCAAC | ADDRESS OF GET_CAA ROUTINE * |
| (13C) | ADDRESS | 4 | CSASCAAC | ADDRESS OF SET_CAA ROUTINE * |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------|-----|------------|--|
| (140) | ADDRESS | 4 | CSATMPNA | ADDRESS OF TABLE MANAGER PROGRAM |
| (144) | ADDRESS | 4 | CSACMPAC | ADDRESS OF MONITORING PROGRAM * |
| (148) | ADDRESS | 4 | CSAERMRS | Address of RMI Resync module * |
| (14C) | ADDRESS | 4 | CSACRLBA | ADDRESS OF BIND TIME LOGGING PROGRAM FOR OLD-MRO/LU6.1 |
| (150) | ADDRESS | 4 | CSAACPNA | ADDRESS OF ABNORMAL CONDITION PROGRAM |
| (154) | ADDRESS | 4 | CSAIRPNA | ADDRESS OF INTER-REGION COMMUNICATION PROGRAM |
| (158) | ADDRESS | 4 | CSAUEHNA | ADDRESS OF USER EXIT HANDLER PROGRAM |
| (15C) | ADDRESS | 4 | CSALETRU | Address of DFHLETRU |
| (160) | ADDRESS | 4 | CSAMCYEA | addr BMS MAPPINGDEV module DFHMCY |
| (164) | ADDRESS | 4 | CSAXFXNA | ADDRESS OF FAST-PATH TRANSFORMER PROGRAM |
| (168) | ADDRESS | 4 | CSAPSNAC | ADDR SYSTEM SPOOLING INTERFACE CONTROL MODULE |
| (16C) | ADDRESS | 4 | CSASKMNA | ADDRESS SUBTASK MANAGEMENT MODULE |
| (170) | ADDRESS | 4 | CSAAPRRA | Addr IPIC TR router |
| (174) | ADDRESS | 4 | CSAAPRXA | Addr IPIC TR transformer |
| (178) | ADDRESS | 4 | CSAZBANA | ADDRESS ZC BIND ANALYSIS |
| (17C) | ADDRESS | 4 | CSATBSNA | ADDRESS TABLE BLDR SERVS |
| (180) | ADDRESS | 4 | CSAXQONA | ADDRESS DFHZXQO |
| (184) | ADDRESS | 4 | CSAAPRDA | ADDRESS OF AP RD GATE |
| (188) | ADDRESS | 4 | CSAZCQNA | ADDRESS OF ZCQ INST/DELETE |
| MISCELLANEOUS TABLE AND CONTROL BLOCK ADDRESSES | | | | |
| (18C) | ADDRESS | 4 | CSASSA | ADDRESS OF STATIC STORAGE AREA ADDRESS LIST |
| (190) | ADDRESS | 4 | CSATCSEA | ADDRESS OF LOCAL TERMINAL CONTROL SYSTEM ENTRY |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------------|-----------|-----|------------|---|
| (194) | ADDRESS | 4 | CSAUETBA | ADDRESS OF USER EXIT TABLE |
| (198) | ADDRESS | 4 | CSAMROQP | Address of MRO work Q manager * |
| (19C) | ADDRESS | 4 | CSACRBA | ADDRESS OF CICS REGION BLOCK * |
| (1A0) | ADDRESS | 4 | CSAAUDTA | ADDRESS USED IN EITL |
| (1A4) | ADDRESS | 4 | * | Reserved |
| (1A8) | ADDRESS | 4 | CSAPSCBA | ADDR OF SYS SPOOLING INTERFACE GLOBAL CONTROL BLOCK(PSG). |
| (1AC) | ADDRESS | 4 | * | Reserved |
| (1B0) | CHARACTER | 8 | CSAURDTK | URD/non-task DWE subpool token |
| CATALOG CONTROL FLAG BYTE | | | | |
| (1B8) | BIT(8) | 1 | CSACATFL | CATALOG flag byte |
| (1B8) | 1... | | CSACATDF | CATALOG defined |
| SYSTEM LOG COMMUNICATION FLAG BYTE | | | | |
| (1B9) | BIT(8) | 1 | CSALOGFL | SYSTEM LOG flag byte |
| (1B9) | 1... | | CSALOGDF | SYSTEM LOG defined .. |
| (1BA) | BIT(8) | 1 | * | Reserved |
| (1BB) | BIT(8) | 1 | * | Reserved |
| INTER-REGION COMMUNICATION FLAG BYTES | | | | |
| (1BC) | BIT(8) | 1 | CSACRFL1 | CICS REGION FLAG BYTE |
| (1BC) | 1... | | CSACRNTC | DFHTCP GENERATED WITHOUT IRC |
| (1BC) | .11. | | * | Reserved |
| (1BC) | ...1 | | CSACRSTF | HIGH-LEVEL STAE FAILED |
| (1BD) | BIT(8) | 1 | CSACRFL2 | CICS REGION FLAG BYTE 2 |
| (1BD) | 1... | | CSACRASS | ASSOCIATE has been issued |
| (1BD) | .1.. | | CSACRWEA | MRO work queue elems acquired |
| BASIC MAPPING SUPPORT FLAG BYTE | | | | |
| (1BE) | BIT(8) | 1 | CSABMSFL | BMS FLAG BYTE |
| (1BE) | 1... | | CSACSPQI | TRANSACTION CSPQ HAS BEEN INITIATED |
| (1BE) | .1.. | | CSAALIGN | PRE 1.6 MAPS ARE ALIGNED |
| (1BE) | ..1. | | CSANDDS | NO DEVICE DEPENDENT SUFFIXING |
| (1BE) | ...1 | | CSANSKR | NO SINGLE KEY RETRIEVAL |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------|---|
| (1BF) | BIT(8) | 1 | * | Reserved |
| DFHPILSQ flags BA49155C | | | | |
| (1C0) | BIT(8) | 1 | CSAPIFLG | DFHPILSQ flags |
| (1C0) | 1... | | CSAPIMSG_ISSUED | Indicates msg DFHPI0118 issued - prevents multiple msgs |
| SIGNON COMPONENT FIELDS | | | | |
| (1C1) | BIT(8) | 1 | CSASNFLG | SIGNON COMPONENT FLAGS |
| (1C1) | 1... | | CSASNXRF | COPY OF SITXSFRG FLAG |
| (1C2) | BIT(8) | 1 | * | Reserved |
| (1C3) | BIT(8) | 1 | * | Reserved |
| WEB STORAGE ANCHOR ADDRESS | | | | |
| (1C4) | ADDRESS | 4 | CSAWEBAN | Stg anchor for Web |
| EXECUTABLE SUPERVISOR CALL INSTRUCTIONS | | | | |
| (1C8) | FULLWORD | 4 | * | Reserved |
| (1CC) | CHARACTER | 2 | CSASVSVC | SERVICE SVC... |
| (1CC) | BIT(8) | 1 | * | |
| (1CD) | BIT(8) | 1 | CSASVSNO | SERVICES SVC NUMBER |
| (1CE) | CHARACTER | 2 | CSASISVC | SERVICE INITIATION SVC... |
| (1CE) | BIT(8) | 1 | * | |
| (1CF) | BIT(8) | 1 | CSASISNO | SERVICE INIT.SVC NUMBER |
| STATISTICS FIELDS | | | | |
| (1D0) | HALFWORD | 2 | * | Reserved |
| (1D2) | HALFWORD | 2 | CSATBSDD | DFHBSMSG DIAGNOSTIC DUMP CODE |
| CICS SERVICE-LEVEL SUPPORT FIELD | | | | |
| (1D4) | ADDRESS | 4 | CSACICNA | ADDRESS OF SERVICE-LEVEL ENTRYPT |
| (1D8) | ADDRESS | 4 | * | Reserved |
| (1DC) | CHARACTER | 8 | CSATGOTK | Subpool token ICE DSTGODR |
| (1E4) | CHARACTER | 8 | CSA_ACD_TK | Subpool token ICE DSTGACD |
| (1EC) | CHARACTER | 8 | CSA_2ACD_TK | Subpool token ICE DSTG2ACD |
| (1F4) | CHARACTER | 8 | CSA_ICUS_TK | Subpool token ICE_ICUS |
| (1FC) | CHARACTER | 8 | CSA_TFUS_TK | Subpool token TCTTE TFUS |
| CICS SYSTEM DEFINITION USER COUNT | | | | |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (204) | FULLWORD | 4 | CSACSDCT | NUMBER OF CURRENT USERS OF CICS SYSTEM DEFINITION |
| FURTHER MISCELLANEOUS PROGRAM ADDRESSES AND OTHER INFORMATION | | | | |
| (208) | CHARACTER | 0 | CSAOPF5S | START OF BLOCK 5 |
| (208) | BIT(8) | 1 | CSAPLTSC | PLTPI security options |
| (208) | 1... | | CSAPLTCM | Command level check |
| (208) | .1.. | | CSAPLTRS | Resource level check |
| (208) | ..11 111. | | * | Reserved |
| (208) |1 | | CSAPLTYS | PLTPI requested |
| (209) | CHARACTER | 11 | CSAPLTID | PLTPI user id |
| (209) | UNSIGNED | 1 | CSAPLTIL | PLTPI user id length |
| (20A) | CHARACTER | 10 | CSAPLTIV | PLTPI user id value |
| (214) | CHARACTER | 8 | CSAAID31 | AID token |
| (21C) | ADDRESS | 4 | CSAEXNQS | EXEC enqueue pool (string) |
| (220) | ADDRESS | 4 | CSAEXNQA | EXEC enqueue pool (address) |
| (224) | ADDRESS | 4 | CSAEXNQG | EXEC enqueue pool (global) |
| (228) | ADDRESS | 4 | * | Reserved |
| (22C) | CHARACTER | 8 | CSABMSPT | BMS CICS LIFETIME SP TOKEN |
| (234) | CHARACTER | 8 | CSAEDFTK | EDF Subpool token |
| (23C) | ADDRESS | 4 | CSADBCR | address of DFHDBCR |
| (240) | ADDRESS | 4 | CSASKCEP | Entry point of DFHSK |
| (244) | ADDRESS | 4 | CSADLI | DL/I interface entry |
| (248) | ADDRESS | 4 | CSABFNAC | Built-in function |
| (24C) | ADDRESS | 4 | CSABMS | BMS control entry |
| (250) | ADDRESS | 4 | CSAJCNA1 | Journal control entry |
| (254) | ADDRESS | 4 | CSAJCNA2 | Journal control entry |
| (258) | ADDRESS | 4 | CSADLIM | Entry point of DFHDLI |
| FURTHER MISCELLANEOUS CONTROL BLOCK ADDRESSES AND OTHER INFORMATION | | | | |
| (25C) | CHARACTER | 4 | * | Reserved |
| (260) | CHARACTER | 8 | CSAAPXDS | Subpool for trandef ext |
| (268) | CHARACTER | 8 | CSADRPGN | DYNAMIC ROUTING PROGRAM NAME |
| (270) | ADDRESS | 4 | CSAFCEP | FILE CONTROL ENTRY POINT |
| (274) | ADDRESS | 4 | CSATCNCR | Address of DFHZXCR |
| START OF XRF SPECIFIC ADDRESSES | | | | |
| (278) | ADDRESS | 4 | CSAXRPNA | Address of DFHXRP |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (27C) | ADDRESS | 4 | CSAXRFNT | Address of DFHWMS |
| END OF XRF SPECIFIC ADDRESSES AP Domain: Domain storage control areas | | | | |
| (280) | CHARACTER | 8 | CSADWETK | DWE subpool |
| (288) | CHARACTER | 8 | CSADS24T | Subpool token for storage below 16M |
| (290) | CHARACTER | 8 | * | Reserved |
| (298) | CHARACTER | 8 | CSADSANT | Subpool token for storage above 16M |
| AP Domain: MISC. MODULES AND SUBROUTINES | | | | |
| (2A0) | ADDRESS | 4 | CSAAPDSN | Dispatcher TASK_REPLY gate * |
| (2A4) | ADDRESS | 4 | CSAAPJCN | Journaling gate service * |
| (2A8) | ADDRESS | 4 | CSAAPEPN | User exit gate program |
| (2AC) | ADDRESS | 4 | CSALELTKN | LE Lock Token |
| (2B0) | ADDRESS | 4 | CSAAPSTN | Statistics gate service |
| (2B4) | ADDRESS | 4 | CSAAPTIN | Timer gate service |
| (2B8) | ADDRESS | 4 | CSAAPTRN | Trace gate service |
| (2BC) | ADDRESS | 4 | CSASUSXN | XRF Security Subroutine |
| (2C0) | ADDRESS | 4 | CSASUWTN | WTO Interface Subroutine * |
| (2C4) | ADDRESS | 4 | CSASUZXN | ZC Trace Controller Subroutine * |
| (2C8) | ADDRESS | 4 | CSAAPTIM | midnight task module |
| (2CC) | ADDRESS | 4 | CSAAPTIX | expiry task module |
| (2D0) | ADDRESS | 4 | CSAAPSTG | AP Domain - statistics global storage |
| (2D4) | ADDRESS | 4 | CSATDNA2 | Transient Data Internal Entry - address of DFHTDQ |
| (2D8) | FULLWORD | 4 | CSAHPOCT | HPO count |
| (2DC) | ADDRESS | 4 | CSAZCUTN | attachsec userid table mgr |
| (2E0) | ADDRESS | 4 | CSASMATK | SM access token (for SMSR INQUIRE_ACCESS function) |
| (2E4) | ADDRESS | 4 | CSASMITK | SM isolation token (for SMSR SWITCH_SUBSPACE function) |
| (2E8) | ADDRESS | 4 | CSATSITK | TS inquire token (for TSSH INQUIRE_POOL_TOKEN func |
| (2EC) | ADDRESS | 4 | CSASZADA | FEPI Adapter prog address |
| (2F0) | CHARACTER | 8 | CSADU24T | Subpool token for USER key storage below 16M |
| (2F8) | CHARACTER | 8 | CSADUANT | Subpool token for USER key storage above 16M |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (300) | CHARACTER | 16 | CSADS64T | Subpool token for CICS key storage above bar |
| (310) | CHARACTER | 16 | CSADU64T | Subpool token for USER key storage above bar |
| (320) | CHARACTER | 0 | CSAOPF5E | END OF BLOCK 5 |
| VECTOR of Addresses of EXEC Command Processor Modules Listed in order of Group Code Named as the modules, with CSA replacing DFH | | | | |
| (320) | CHARACTER | 512 | CSAEXECS | Base for vector |
| Group Command Group | | | | |
| (320) | ADDRESS | 4 | CSAEIP | 00 DFHEIP (slot left null) * |
| (324) | ADDRESS | 4 | CSAE EI | 02 Assign, etc |
| (328) | ADDRESS | 4 | CSAETC | 04 Terminal |
| (32C) | ADDRESS | 4 | CSAE IFC | 06 File |
| (330) | ADDRESS | 4 | CSAETD | 08 Transient Data |
| (334) | ADDRESS | 4 | CSAE ITS | 0A Temporary Storage |
| (338) | ADDRESS | 4 | CSAESC | 0C Storage |
| (33C) | ADDRESS | 4 | CSAEPC | 0E Program |
| (340) | ADDRESS | 4 | CSAE IIC | 10 Time |
| (344) | ADDRESS | 4 | CSAE KC | 12 Task |
| (348) | ADDRESS | 4 | CSAE JC | 14 Journalnum |
| (34C) | ADDRESS | 4 | CSAE ISP | 16 Syncpoint |
| (350) | ADDRESS | 4 | CSAEMS | 18 BMS |
| (354) | ADDRESS | 4 | CSAETR | 1A Trace |
| (358) | ADDRESS | 4 | CSAEDC | 1C Dump |
| (35C) | ADDRESS | 4 | CSAEDI | 1E Issue ... |
| (360) | ADDRESS | 4 | CSAE BF | 20 BIF |
| (364) | ADDRESS | 4 | CSAU EM | 22 Enable/disable exits * |
| (368) | ADDRESS | 4 | CSAE GL | 24 GDS ... |
| (36C) | ADDRESS | 4 | CSAE IML | 26 XML transform cmd |
| (370) | ADDRESS | 4 | CSAE IEC | 28 Event Processor cmd |
| (374) | ADDRESS | 4 | * | 2A Available-was EIDEF |
| (378) | ADDRESS | 4 | * | 2C Available-was EIDEL |
| (37C) | ADDRESS | 4 | * | 2E Available-was EIINS |
| (380) | ADDRESS | 4 | CSAE IC RE | 30 All CREATE commands |
| (384) | ADDRESS | 4 | * | 32 Reserved |
| (388) | ADDRESS | 4 | CSAE IBAM | 34 All BAM commands |
| (38C) | ADDRESS | 4 | CSAE IEM | 36 Event Manager |
| (390) | ADDRESS | 4 | CSAE IWB | 38 Web commands |
| (394) | ADDRESS | 4 | CSAE IQRR | 3A Reserved |
| (398) | ADDRESS | 4 | CSAE IDH | 3C Document Commands |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|------------|------------------------------|
| (39C) | ADDRESS | 4 | CSAEISO | 3E Sockets Commands |
| (3A0) | ADDRESS | 4 | * | 40 Used by DL/I |
| (3A4) | ADDRESS | 4 | CSAEIQTM | 42 INQ/REM Autinstmodel * |
| (3A8) | ADDRESS | 4 | CSAEIQPN | 44 INQ/REM Partner |
| (3AC) | ADDRESS | 4 | CSAEIQPF | 46 INQ/REM Profile |
| (3B0) | ADDRESS | 4 | CSAETRX | 48 Trace (enhanced) |
| (3B4) | ADDRESS | 4 | CSAEIDTI | 4A Asktime/Formattime |
| (3B8) | ADDRESS | 4 | CSAEIQDS | 4C INQ/SET/REM File |
| (3BC) | ADDRESS | 4 | CSAEIQSP | 4E INQ/SET/REM Program |
| (3C0) | ADDRESS | 4 | CSAEIQSX | 50 INQ/SET/REM Transaction * |
| (3C4) | ADDRESS | 4 | CSAEIQST | 52 INQ/SET/REM Terminal * |
| (3C8) | ADDRESS | 4 | CSAEIQSA | 54 INQ/SET System |
| (3CC) | ADDRESS | 4 | CSAEPS | 56 Spooler |
| (3D0) | ADDRESS | 4 | CSAEIQSC | 58 INQ/SET/ Connection |
| (3D4) | ADDRESS | 4 | CSAEIQSM | 5A INQ/SET Modename |
| (3D8) | ADDRESS | 4 | CSAEIQSQ | 5C INQ/SET Tdqueue |
| (3DC) | ADDRESS | 4 | CSAEIQSK | 5E INQ/SET Task |
| (3E0) | ADDRESS | 4 | CSAEIQSJ | 60 INQ/SET Journalnum |
| (3E4) | ADDRESS | 4 | CSAEIQSV | 62 INQ/SET Volume |
| (3E8) | ADDRESS | 4 | CSAEIPSE | 64 PERF Security Rebuild * |
| (3EC) | ADDRESS | 4 | CSAEIQDU | 66 INQ/SET ...dump... |
| (3F0) | ADDRESS | 4 | CSAEIQVT | 68 INQ/SET VTAM |
| (3F4) | ADDRESS | 4 | CSAESE | 6A Query Security |
| (3F8) | ADDRESS | 4 | CSAEOP | 6C WTO, etc. |
| (3FC) | ADDRESS | 4 | CSAEIQIR | 6E INQ/SET IRC |
| (400) | ADDRESS | 4 | CSAEIQMS | 70 INQ/SET Monitor, Stats * |
| (404) | ADDRESS | 4 | CSAEIPRT | 72 PERF Resettime |
| (408) | ADDRESS | 4 | CSAESN | 74 Sign-on/off |
| (40C) | ADDRESS | 4 | CSAEIPSH | 76 PERF Shutdown |
| (410) | ADDRESS | 4 | CSAEIQTR | 78 INQ/SET Trace.. |
| (414) | ADDRESS | 4 | CSAEIQDN | 7A INQ/SET Dsname |
| (418) | ADDRESS | 4 | CSAEIQMT | 7C old CEMT commands |
| (41C) | ADDRESS | 4 | CSAEDCP | 7E Dump Transaction/System * |
| (420) | ADDRESS | 4 | CSAEIQTS | 80 INQ TSQUEUE |
| (424) | ADDRESS | 4 | CSAESZ | 82 FEPI - API |
| (428) | ADDRESS | 4 | CSAEIQSZ | 84 FEPI - SPI |
| (42C) | ADDRESS | 4 | CSAEIACQ | 86 ACQUIRE |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|------------|--------------------------------|
| (430) | ADDRESS | 4 | CSAEIQUE | 88 INQ Exitprogram |
| (434) | ADDRESS | 4 | CSAEIQRQ | 8A INQ Reqid |
| (438) | ADDRESS | 4 | CSAEMEX | 8C ME Domain exec |
| (43C) | ADDRESS | 4 | * | 8E Reserved |
| (440) | ADDRESS | 4 | CSAEIUOW | 90 INQ UOW UOWENQ UOWLINK |
| (444) | ADDRESS | 4 | CSAEIQSL | 92 Inq Journalmodel |
| (448) | ADDRESS | 4 | CSAEIQD2 | 94 Inq/set CICS/DB2 objects |
| (44C) | ADDRESS | 4 | CSAEIQBA | 96 Inq/set BAM objects |
| (450) | ADDRESS | 4 | CSAEIQCF | 98 Inq CFDTPOOL |
| (454) | ADDRESS | 4 | CSAEIQOP | 9A Inq Requestmodel |
| (458) | ADDRESS | 4 | CSAEIQSO | 9C Inq TCPIPService |
| (45C) | ADDRESS | 4 | CSAEIQDH | 9E Inq DOCTEMPLATE |
| (460) | ADDRESS | 4 | * | A0 Used by CEDA |
| (464) | ADDRESS | 4 | CSAEIQCS | A2 CSD SPI |
| (468) | ADDRESS | 4 | * | A4 Reserved for CEDA |
| (46C) | ADDRESS | 4 | * | A6 Reserved |
| (470) | ADDRESS | 4 | * | A8 Reserved |
| (474) | ADDRESS | 4 | * | AA Reserved |
| (478) | ADDRESS | 4 | * | AC Reserved |
| (47C) | ADDRESS | 4 | * | AE Reserved |
| (480) | ADDRESS | 4 | CSAEIQSY | B0 INQ/SET JVMPOOL |
| (484) | ADDRESS | 4 | CSAEIQEJ | B2 INQ EJB Commands |
| (488) | ADDRESS | 4 | CSAEIQBR | B4 INQ BRFacility |
| (48C) | ADDRESS | 4 | CSAEIQDI | B6 INQ/SET DISPATCHER |
| (490) | ADDRESS | 4 | CSAEIQWR | B8 INQ/SET WORKREQUEST |
| (494) | ADDRESS | 4 | * | BA Reserved for CSDUP |
| (498) | ADDRESS | 4 | CSAEIQPI | BC INQ/SET Pipeline |
| (49C) | ADDRESS | 4 | CSAEIQWB | BE INQ/SET WEB, URIMAP |
| (4A0) | ADDRESS | 4 | CSAEIPI | C0 WEBSERVICE API |
| (4A4) | ADDRESS | 4 | CSAEIQIS | C2 INQ IPCONN |
| (4A8) | ADDRESS | 4 | CSAEIQAS | C4 INQ ASSOCIATION |
| (4AC) | ADDRESS | 4 | CSAEIQLD | C6 INQ LIBRARY |
| (4B0) | ADDRESS | 4 | CSAEIQLR | C8 INQ BUNDLE |
| (4B4) | ADDRESS | 4 | CSAEIQEC | CA INQ EVENTBINDING |
| (4B8) | ADDRESS | 4 | CSAEIQW2 | CC INQ ATOMSERVICE |
| (4BC) | ADDRESS | 4 | CSAEIQMQ | CE INQ MQINI |
| (4C0) | ADDRESS | 4 | * | D0 Reserved |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------------------|-------------|
| (4C4) | ADDRESS | 4 | * | D2 Reserved |
| (4C8) | ADDRESS | 4 | * | D4 Reserved |
| (4CC) | ADDRESS | 4 | * | D6 Reserved |
| (4D0) | ADDRESS | 4 | * | D8 Reserved |
| (4D4) | ADDRESS | 4 | * | DA Reserved |
| (4D8) | ADDRESS | 4 | * | DC Reserved |
| (4DC) | ADDRESS | 4 | * | DE Reserved |
| (4E0) | ADDRESS | 4 | * | E0 Reserved |
| (4E4) | ADDRESS | 4 | * | E2 Reserved |
| (4E8) | ADDRESS | 4 | * | E4 Reserved |
| (4EC) | ADDRESS | 4 | * | E6 Reserved |
| (4F0) | ADDRESS | 4 | * | E8 Reserved |
| (4F4) | ADDRESS | 4 | * | EA Reserved |
| (4F8) | ADDRESS | 4 | * | EC Reserved |
| (4FC) | ADDRESS | 4 | * | EE Reserved |
| (500) | ADDRESS | 4 | * | F0 Reserved |
| (504) | ADDRESS | 4 | * | F2 Reserved |
| (508) | ADDRESS | 4 | * | F4 Reserved |
| (50C) | ADDRESS | 4 | * | F6 Reserved |
| (510) | ADDRESS | 4 | * | F8 Reserved |
| (514) | ADDRESS | 4 | * | FA Reserved |
| (518) | ADDRESS | 4 | * | FC Reserved |
| (51C) | ADDRESS | 4 | * | FE Reserved |
| End of EXEC module address vector Vector of routines provided to Language Environment | | | | |
| (520) | CHARACTER | 136 | CSA_CEL_SERVICE_VECTOR | |
| (520) | FULLWORD | 4 | CSA_CEL_SERVICE_VECTOR_LENGTH | |
| (524) | BIT(32) | 4 | CSA_CEL_SERVICE_FLAGS | |
| (524) | BIT(8) | 1 | CSA_CEL_SERVICE_FLAG_BYTE1 | |
| (524) | 1... | | CSA_DFHGCAA_AVAIL | |
| (524) | .1.. | | CSA_DFHSCAA_AVAIL | |
| (524) | ..1. | | CSA_DFHLEGM_AVAIL | |
| (524) | ...1 | | CSA_DFHLEFM_AVAIL | |
| (524) | 1... | | CSA_DFHLEAS_AVAIL | |
| (524) |1.. | | CSA_DFHLEDS_AVAIL | |
| (524) |1. | | CSA_DFHLEGQ_AVAIL | |
| (524) |1 | | CSA_DFHLEFQ_AVAIL | |
| (525) | BIT(8) | 1 | CSA_CEL_SERVICE_FLAG_BYTE2 | |
| (525) | 1... | | CSA_DFHLETR_AVAIL | |

Table 54. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------------------|-------------|
| (525) | .1. | | CSA_DFHLEDT_AVAIL | |
| (525) | ..1. | | CSA_DFHLERO_AVAIL | |
| (525) | ...1 1111 | | * | Reserved |
| (526) | BIT(8) | 1 | CSA_CEL_SERVICE_ FLAG_BYTE3 | Reserved |
| (527) | BIT(8) | 1 | CSA_CEL_SERVICE_ FLAG_BYTE4 | Reserved |
| (528) | CHARACTER | 128 | CSA_CEL_SERVICE_ ROUTINES | |
| (528) | ADDRESS | 4 | CSA_DFHGCAA_ADDRESS | |
| (52C) | ADDRESS | 4 | CSA_DFHSCAA_ADDRESS | |
| (530) | ADDRESS | 4 | CSA_DFHLEGM_ADDRESS | |
| (534) | ADDRESS | 4 | CSA_DFHLEFM_ADDRESS | |
| (538) | ADDRESS | 4 | CSA_DFHLEAS_ADDRESS | |
| (53C) | ADDRESS | 4 | CSA_DFHLEDS_ADDRESS | |
| (540) | ADDRESS | 4 | CSA_DFHLEGQ_ADDRESS | |
| (544) | ADDRESS | 4 | CSA_DFHLEFQ_ADDRESS | |
| (548) | ADDRESS | 4 | CSA_DFHLETR_ADDRESS | |
| (54C) | ADDRESS | 4 | CSA_DFHLEDT_ADDRESS | |
| (550) | ADDRESS | 4 | CSA_DFHLERO_ADDRESS | |
| (554) | ADDRESS | 4 | * (4294967317:341920080) | Reserved |
| End of service routine vector END OF OPTIONAL FEATURES LIST | | | | |
| (5A8) | CHARACTER | 0 | * | Reserved |

Constants

Table 55.

| Len | Type | Value | Name | Description |
|--|-----------|-------|--------|----------------------------------|
| CONSTANTS OPERATING SYSTEM AND CICS LEVEL INDICATORS CSAOPSYS - OPERATING SYSTEM | | | | |
| 1 | CHARACTER | E | CSAVSE | DOS/VSE |
| 1 | CHARACTER | M | CSAMVS | OS/MVS |
| 1 | CHARACTER | X | CSAMVX | MVS/ESA |
| CSAOPREL - OPERATING SYSTEM RELEASE CSACIREL - CICS RELEASE | | | | |
| 1 | HEX | 14 | CSAC14 | VERSION 1, RELEASE 4 |
| 1 | HEX | 15 | CSAC15 | VERSION 1, RELEASE 5 |
| 1 | HEX | 16 | CSAC16 | VERSION 1, RELEASE 6 |
| 1 | HEX | 17 | CSAC17 | VERSION 1, RELEASE 7 CICS/MVS |
| 1 | HEX | 21 | CSAC21 | VERSION 2, RELEASE 1 CICS/ESA |
| 1 | HEX | 31 | CSAC31 | VERSION 3, RELEASE 1 |

Table 55. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|----------------------|
| 1 | HEX | 32 | CSAC32 | VERSION 3, RELEASE 2 |
| 1 | HEX | 33 | CSAC33 | VERSION 3, RELEASE 3 |
| 1 | HEX | 41 | CSAC41 | VERSION 4, RELEASE 1 |
| 1 | HEX | 51 | CSAC51 | VERSION 5, RELEASE 1 |
| 1 | HEX | 52 | CSAC52 | VERSION 5, RELEASE 2 |
| 1 | HEX | 53 | CSAC53 | VERSION 5, RELEASE 3 |
| 1 | HEX | 61 | CSAC61 | VERSION 6, RELEASE 1 |
| 1 | HEX | 62 | CSAC62 | VERSION 6, RELEASE 2 |
| 1 | HEX | 63 | CSAC63 | VERSION 6, RELEASE 3 |
| 1 | HEX | 64 | CSAC64 | VERSION 6, RELEASE 4 |
| 1 | HEX | 65 | CSAC65 | VERSION 6, RELEASE 5 |
| 1 | HEX | 66 | CSAC66 | VERSION 6, RELEASE 6 |
| 1 | HEX | 67 | CSAC67 | VERSION 6, RELEASE 7 |
| 1 | HEX | 68 | CSAC68 | VERSION 6, RELEASE 8 |
| 1 | HEX | 69 | CSAC69 | VERSION 6, RELEASE 9 |
| 1 | HEX | 00 | CSAMOD00 | modification level 0 |
| 1 | HEX | 01 | CSAMOD01 | modification level 1 |
| 1 | HEX | 02 | CSAMOD02 | modification level 2 |
| 1 | HEX | 03 | CSAMOD03 | modification level 3 |

CTXPA - DL/I General purpose macro

MACRO NAME = DFHDLP
 DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
 FUNCTION =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 PATCH LABEL = NONE
 MODULE TYPE = EXECUTABLE

Table 56.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|--------------|--------------------------------|
| (0) | STRUCTURE | 0 | DFHCTXPA | , |
| (0) | ADDRESS | 4 | CTEINIT | Init Token - Addresses the DGB |
| (4) | CHARACTER | 4 | CTEDBCTL | DCBTL ID |
| (8) | CHARACTER | 2 | CTEOFUNC (0) | DRA Over-all function code |
| (8) | CHARACTER | 1 | CTEFUNC | DRA Function code |
| (8) |1. | | CTERSYN | "X'02'" Resync |
| (8) |1.1 | | CTEFAIL | "X'05'" DRA/DBCTL Failure |
| (9) | BITSTRING | 1 | CTESFUNC | DRA Sub-function code |
| (9) |1 | | CTEIDFL | "X'01'" IDENTIFY Failed |
| (9) |1. | | CTECANC | "X'02'" INIT request failed |

Table 56. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|--|
| (9) |11 | | CTEDBCF | "X'03" DBCTL has terminated |
| (9) |1.. | | CTEDRAF | "X'04" DRA Abnormally terminating |
| (9) |1.1 | | CTEDBCC | "X'05" /CHR FREEZE issued |
| (A) | HALFWORD | 2 | CTEIDLEN | In-doubt List Length (-1 indicates failure in Adapter) |
| (C) | ADDRESS | 4 | CTEIDPTR | In-doubt List pointer |
| (10) | CHARACTER | 8 | CTEJOBNM | Jobname of active DBCTL sub-system |
| (18) | CHARACTER | 1 | CTECRC | DBCTL Command Recognition character |
| (19) | CHARACTER | 1 | CTERGTY | DBCTL Region type |
| (19) |1 | | CTEDBCX | "X'01" DB/DC with XRF |
| (19) |1. | | CTEDBCO | "X'02" DB/DC Only |
| (19) |1.. | | CTEDBCL | "X'04" DBCTL |
| (1A) | BITSTRING | 2 | CTEMITCB | Minimum number of TCBs |
| (1C) | BITSTRING | 2 | CTEMATCB | Maximum number of TCBs |
| (1E) | CHARACTER | 1 | CTERCOD | DBCTL Failure reason code |
| (1E) |1 | | CTESSF | "X'01" MVS SSI Failure |
| (1E) |1. | | CTEABND | "X'02" DBCTL Abend |
| (1E) |11 | | CTEGMF | "X'03" DRA Getmain Failure during INIT |
| (1E) |1.. | | CTEOPC | "X'04" System Operator cancelled Init |
| (1E) |1.1 | | CTEDBNZ | "X'05" DBCTL set non-zero ret on Identify |
| (1E) |11. | | CTEESTF | "X'06" DRA could not establish ESTAE |
| (1E) |111 | | CTEDRAA | "X'07" DRA abended |
| (1E) | 1... | | CTENTUP | "X'08" DBCTL is not active |
| (1E) | 1..1 | | CTENOSS | "X'09" DBCTL does not exist |
| (1E) | 1.1. | | CTENINT | "X'0A" DBCTL is in initialisation process |
| (1E) | 1.11 | | CTERSTN | "X'0B" DBCTL init done, waiting for restart |
| (1E) | 11.. | | CTERST | "X'0C" DBCTL is in restart process |
| (1E) | 11.1 | | CTEBRST | "X'0D" Backup in ERE mode |
| (1E) | 111. | | CTETKOV | "X'0E" Takeover mode |
| (1E) | 1111 | | CTEITCF | "X'0F" Internal DRA TERM after CHEFZ |

Table 56. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| DS CL3 | | | | |
| (1F) | BITSTRING | 4 | CTEPARETC | PAPARETC |
| (23) | BITSTRING | 2 | CTEASID | DBCTL ASID |
| (25) | CHARACTER | 8 | CTEJOBID | DBCTL JES Job ID |
| (2D) | CHARACTER | 8 | CTERSEN | DBCTL RSE Name |
| (38) | FULLWORD | 4 | CTENOMITHD | Number of times min thread hit |
| (3C) | FULLWORD | 4 | CTENOMATHD | Number of times max thread hit |
| (40) | FULLWORD | 4 | CTEELMAX | Elapsed time at max thread |
| (44) | FULLWORD | 4 | CTEHIWAT | Highest number of threads attached |
| (44) | .1.. 1... | | CTELNGTH | "*-DFHCTXPA" End of Control Exit Parameter List |

CWE - DL/I General purpose macro

MACRO NAME = DFHDLP
 DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
 FUNCTION =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 PATCH LABEL = NONE
 MODULE TYPE = EXECUTABLE

Table 57.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-----------------------------|
| (0) | STRUCTURE | 0 | DFHCWE | , |
| (0) | FULLWORD | 4 | CWELEN | Length of CWE |
| (4) | ADDRESS | 4 | CWEFCHN | Forward chain |
| (8) | ADDRESS | 4 | CWEBCHN | Backwards chain |
| (C) | BITSTRING | 1 | CWEFLAG | CWE flags |
| (C) | 1... | | CWEINUSE | "X'80" CWE in use bit |
| (D) | BITSTRING | 1 | CWETYPE | Type of CWE entry |
| (D) | 11.. 1..1 | | CWETERM | "C'I" Terminate CWE |
| (E) | BITSTRING | 1 | (2) | reserved |
| (10) | BITSTRING | 1 | CWEDUMMY (0) | CWE function dependent area |
| (10) | ...1 | | LCWETERM | "*-DFHCWE" |

DSB - DBCTL Scheduling block

CONTROL BLOCK NAME = DFHDSB
 (In DFHDBCOP, invoked via DFHDBMAC)
 (Invoked by DFHDLP DSB=DSECT)
 DESCRIPTIVE NAME = CICS TS DBCTL Scheduling Block

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FUNCTION =
 Used to store task-related information
 regarding the CICS-DBCTL interface.
 LIFETIME =
 The DBCTL Scheduling Block (DSB) is acquired when a task issues
 its first schedule request to DBCTL. It is cleared just before
 each subsequent schedule request from the same task is processed.
 It is released at task termination.
 LOCATION = PAPL token -> DSB
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control Block definition

EXTERNAL REFERENCES =
 TCA, DGB, PCB list.
 CONTROL BLOCKS =
 DBCTL exit addresses
 GLOBAL VARIABLES (Macro pass) = None

Table 58.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (0) | STRUCTURE | 656 | DFHDSB | |
| Fields common to all DSBs | | | | |
| (0) | CHARACTER | 8 | DSBDESC | Set to DFHDSB |
| (8) | ADDRESS | 4 | DSBTCA | Address of the TCA |
| (C) | ADDRESS | 4 | DSBDGB | Address of the DGB |
| (10) | ADDRESS | 4 | DSBTOK | Task Token |
| Contains address of DSB | | | | |
| (14) | ADDRESS | 4 | DSBTECB | Task ECB used by Suspend and |
| Resume exits | | | | |
| (18) | ADDRESS | 4 | DSBRESPW | Pointer to the response word - |
| This field is set by DFHDBAT | | | | |
| (1C) | ADDRESS | 4 | DSBSSX | pointer to the status exit extn |
| (20) | CHARACTER | 1 | DSBRTYP | Request Type |
| I: Connection Request T: Disconnection Request P: PSB Schedule Request D: DL/I Request R: Resync S: CICS Shutdown | | | | |
| Fields relating to Schedule Requests These fields are relevant for the duration of a schedule Term cycle. | | | | |
| (21) | BIT(8) | 1 | DSBFLAGS | |
| (21) | 1... | | DSBSCHED | Indicator for schedule 1 : DBCTL PSB scheduled successfully during task 0 : DBCTL PSB never schedule |

Table 58. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (21) | .1.. | | DSBIOREQ | Indicator for IOPCB 1 : IOPCB required 0 : IOPCB not required |
| (21) | ..1. | | DSBINRMC | This task in DFHRMCAL This bit is set and reset in a single request |
| (21) | ...1 | | DSB_WAIT | Wait in IMS request ind. |
| (21) | 1... | | DSBTRLV2 | Trace Flag used by DBREX 1 : RMI lvl 2 trace active 0 : RMI lvl 2 trace inactive |
| (21) |1.. | | DSBPREP | We have seen prepare |
| (21) |1. | | DSBDPL | Was this DPL'd to |
| (21) |1 | | DSBPSK | DRA supports PSK |
| (22) | CHARACTER | 8 | DSBPSBNM | PSB name |
| (2A) | UNSIGNED | 1 | DSBWRTH | Deadlock worth |
| (2B) | CHARACTER | 1 | DSBLSFL | Long-Short flag |
| (2C) | ADDRESS | 4 | DSBPCBL | Address of PCB List |
| (2C) | FULLWORD | 4 | DSBTIMEO | Shutdown timeout value |
| (30) | ADDRESS | 4 | DSBDBPCB | Address of first DBPCB |
| (34) | FULLWORD | 4 | DSBMAXIO | Maximum IO size |
| (38) | FULLWORD | 4 | DSBMAXKE | Maximum key length |
| (3C) | ADDRESS | 4 | DSBADGMA | Addr getmn'd area |
| (40) | FULLWORD | 4 | DSBLATFM | Lgth area to free |
| (44) | CHARACTER | 1 | DSBPLTY | PSB language type |
| Fields relating to DL/I requests | | | | |
| (45) | CHARACTER | 1 | DSBALTY | Application language type |
| (46) | CHARACTER | 1 | * | Reserved |
| (47) | CHARACTER | 1 | DSBCTLCT | DBCTL Inv'n count |
| (48) | FULLWORD | 4 | DSBSEGL | Segment length |
| (4C) | ADDRESS | 4 | DSBSEGA | Segment address |
| Area to contain R1 parameter list to the Adapter | | | | |
| (50) | CHARACTER | 64 | DSBPARGS | Parameters to interface with the Adapter |
| Monitoring and trace areas are placed at the end of the DSB so that the rest of the DSB can be traced by DFHDBREX without the need for multiple GTRACE requests (255 byte limit). Monitoring area used on schedule and term requests. | | | | |
| (90) | CHARACTER | 256 | DSBMONI | Monitoring info from DBCTL |
| Trace area used to build GTF trace entry output by DFHDBREX. | | | | |
| (190) | CHARACTER | 256 | DSBGTRACE | Trace area used by GTRACE |

R1 Parameter List for a Connection Request to the Adapter

Table 59.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|------------------------------------|
| (0) | STRUCTURE | 64 | DSBINIP | |
| (0) | ADDRESS | 4 | DSBINRTYPA | Address of the Request Type |
| (4) | ADDRESS | 4 | DSBINTTOKA | Address of the Task Token |
| (8) | ADDRESS | 4 | DSBINRESPA | Address of Adapter Response word |
| (C) | ADDRESS | 4 | DSBINDBID | Address of input DBCTL id(if any) |
| (10) | ADDRESS | 4 | DSBINAGNA | Address of CICS AGN - not used |
| (14) | ADDRESS | 4 | DSBINSTSUA | Address of Startup Table Suffix |
| (18) | ADDRESS | 4 | DSBINAPLID | Address of CICS APPLID |
| (1C) | ADDRESS | 4 | DSBINSUSXA | Address of Suspend Exit |
| (20) | ADDRESS | 4 | DSBINRESXA | Address of Resume Exit |
| (24) | ADDRESS | 4 | DSBINCTLXA | Address of Control Exit |
| (28) | ADDRESS | 4 | DSBININTKA | Address of Connect Token |
| (2C) | ADDRESS | 4 | DSBINMONXA | Address of Monitoring Exit |
| (30) | ADDRESS | 4 | DSBINTOKXA | Address of Token Exit |
| (34) | ADDRESS | 4 | DSBINSTAXA | Address of Statistics Exit |
| (38) | ADDRESS | 4 | DSBINSTSXA | Address of status exit |
| (3C) | ADDRESS | 4 | DSBINPCTOKN | Address of Call Token-Prev Session |

Response From a Connection Request to the Adapter

Table 60.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 16 | DSBINIR | |
| (0) | HALFWORD | 2 | DSBINRESPL | Length of the response |
| (2) | CHARACTER | 1 | * | Reserved |
| (3) | CHARACTER | 1 | * | Reserved |
| (4) | UNSIGNED | 4 | DSBINPRETC | Return code from the PAPL |
| (8) | CHARACTER | 4 | DSBINDBCID | DBCTL ID |
| (C) | ADDRESS | 4 | DSBINCTOKN | Call Token |

R1 Parameter list for a Disconnection Request to the Adapter

Table 61.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | 20 | DSBTERP | |
| (0) | ADDRESS | 4 | DSBTERTYPA | Address of the Request Type |
| (4) | ADDRESS | 4 | DSBTETTOKA | Address of the Task Token |

Table 61. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|------------|------------------------------------|
| (8) | ADDRESS | 4 | DSBTERESPA | Address of Adapter response word |
| (C) | ADDRESS | 4 | * | Reserved |
| (10) | ADDRESS | 4 | DSBTETTYPA | Address of Disconnection Type Flag |

Response from a Disconnection Request to the Adapter

Table 62.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | 24 | DSBTERR | |
| (0) | HALFWORD | 2 | DSBTERESPL | Length of the response |
| (2) | CHARACTER | 1 | * | Reserved |
| (3) | CHARACTER | 1 | * | Reserved |
| (4) | UNSIGNED | 4 | DSBTEPRETC | Return code from the PAPL |
| (8) | FULLWORD | 4 | DSBTEMATHD | Max thread hits |
| (C) | FULLWORD | 4 | DSBTEMITHD | Min thread hits |
| (10) | CHARACTER | 4 | DSBTEELMAX | Elapsed time at max threads |
| (14) | FULLWORD | 4 | DSBTEHIWAT | Hi-Water for No. of threads |

R1 parameter list for PSB Schedule request to the Adapter

Table 63.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (0) | STRUCTURE | 36 | DSBPSBP | |
| (0) | ADDRESS | 4 | DSBPSRTYPA | Address of the Request Type |
| (4) | ADDRESS | 4 | DSBPSTTOKA | Address of the Task Token |
| (8) | ADDRESS | 4 | DSBPSRESPA | Address of Adapter Response Word |
| (C) | ADDRESS | 4 | DSBPSUSERA | Address of Userid field |
| (10) | ADDRESS | 4 | DSBPSMONIA | Address of Monitoring Area |
| (14) | ADDRESS | 4 | DSBPSALTYA | Address of Language Type |
| (18) | ADDRESS | 4 | DSBPSDEADA | Address of Deadlock Worth |
| (1C) | ADDRESS | 4 | DSBPSLSFLA | Address of LONG-SHORT Flag |
| (20) | ADDRESS | 4 | DSBPSPSBNA | Address of PSBNAME |

Response from a PSB Schedule request to the Adapter

Table 64.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (0) | STRUCTURE | 24 | DSBPSBR | |
| (0) | HALFWORD | 2 | DSBPSRESPL | Length of the Response |
| (2) | CHARACTER | 1 | DSBPSPLTY | PSB Language Type |

Table 64. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---------------------------|
| (3) | BIT(8) | 1 | DSBPSFLAGS | |
| (3) | 1111 1... | | * | Reserved |
| (3) |1.. | | DSBPSP31 | PCB Loc 31 |
| (3) |1. | | * | Reserved |
| (3) |1 | | DSBPSPSK | DRA supports PSK |
| (4) | UNSIGNED | 4 | DSBPSPRETC | Return Code from the PAPL |
| (8) | ADDRESS | 4 | DSBPSPCBL | Address of PCB list |
| (C) | ADDRESS | 4 | DSBPSPBPCB | Address of first DBPCB |
| (10) | FULLWORD | 4 | DSBPSPMAXIO | Maximum IO size |
| (14) | FULLWORD | 4 | DSBPSPMAXKE | Maximum key length |

R1 Parameter list for DL/I request to Adapter

Table 65.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------------|
| (0) | STRUCTURE | 24 | DSBDLIP | |
| (0) | ADDRESS | 4 | DSBDLRTYA | Address of the Request Type |
| (4) | ADDRESS | 4 | DSBDLTTOKA | Address of the Task Token |
| (8) | ADDRESS | 4 | DSBDLRESPA | Address of Adapter Response Word |
| (C) | ADDRESS | 4 | * | Reserved |
| (10) | ADDRESS | 4 | DSBDLAPR1A | Address of Application Parameter List |
| (14) | ADDRESS | 4 | DSBDLALTYA | Address of Language Type |

Response from a DL/I request to the ADAPTER

Table 66.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 12 | DSBDLIR | |
| (0) | HALFWORD | 2 | DSBDLRESPL | Length of the Response |
| (2) | CHARACTER | 1 | * | Reserved |
| (3) | CHARACTER | 1 | * | Reserved |
| (4) | UNSIGNED | 4 | DSBDLPRETC | Return Code from the PAPL |
| (8) | FULLWORD | 4 | DSBDLSEGL | Segment length |

Format of PAPLRETC response code from the DRA

Table 67.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------------|
| (4) | STRUCTURE | 4 | DSBPRETC | |
| (4) | BIT(8) | 1 | DSBPRETC_FLAGS | Flag values |
| (5) | BIT(12) | 2 | DSBPRETC_SYSTEM | System abend code |

Table 67. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|---------------|-----------------|
| (6) | BIT(12) POS(5) | 2 | DSBPRETC_USER | User abend code |

Constants

Table 68.

| Len | Type | Value | Name | Description |
|--|-----------|-------|----------------|-----------------------------|
| Possible values of DSBTERT | | | | |
| 1 | CHARACTER | O | DSBTERT_ORD | |
| 1 | CHARACTER | I | DSBTERT_IMM | |
| 1 | CHARACTER | A | DSBTERT_ABND | |
| Possible values of DSB RTP | | | | |
| 1 | CHARACTER | I | DSBINIT_REQ | initialization DSB |
| 1 | CHARACTER | T | DSBTERM_REQ | termination DSB |
| 1 | CHARACTER | P | DSBPSB_REQ | schedule DSB |
| 1 | CHARACTER | D | DSBDLI_REQ | DLI req DSB |
| 1 | CHARACTER | R | DSBRES_REQ | resync DSB |
| 1 | CHARACTER | S | DSBSHU_REQ | shutdown DSB |
| Possible values of DSBALTY and DSBPLTY | | | | |
| 1 | HEX | 01 | DSBLPLI | PL/I |
| 1 | HEX | 02 | DSBLCOB | COBOL |
| 1 | HEX | 03 | DSBLFOR | Fortran |
| 1 | HEX | 04 | DSBLASM | assembler |
| 1 | HEX | 08 | DSBLAIB | AIB |
| Value of DSBWRTH | | | | |
| 1 | DECIMAL | 87 | DSBWRTH_CICS | |
| Value of DSLSFL | | | | |
| 1 | HEX | 80 | DSLSFL_CICS | CICS tasks classed as short |
| Possible values of DSBTETYP, i.e. the field that DSBTETYP_A points to. | | | | |
| 1 | CHARACTER | C | DSBTETYP_CHKPT | |
| 1 | CHARACTER | F | DSBTETYP_FAST | |
| 1 | CHARACTER | S | DSBTETYP_SLOW | |
| Values of bit flags | | | | |
| 0 | BIT | 1 | DSB_ON | |
| 0 | BIT | 0 | DSB_OFF | |
| Values of DFHDBAT'S Return codes in R15 | | | | |
| 4 | DECIMAL | 4 | DSBUNSUP | Call not understood |
| 4 | DECIMAL | 8 | DSBIFDUP | Redundant interface Call |
| 4 | DECIMAL | 12 | DSBINNLD | Connect load failure |
| 4 | DECIMAL | 16 | DSBTRPRE | Disconnect Preempted |

Table 68. (continued)

| Len | Type | Value | Name | Description |
|-----|---------|-------|-------------------------|-----------------------|
| 4 | DECIMAL | 24 | DSBADNRY | Adapter not ready |
| 4 | DECIMAL | 28 | DSBADDIS | Adapter is disabled |
| 4 | DECIMAL | 32 | DSBCANCD | Thread is cancelled |
| 4 | DECIMAL | 36 | DSBCADUP | Redundant Cancel Call |
| 1 | HEX | 80 | DSBPRET_C_ABEND_SNAP | abend + snap |
| 1 | HEX | 88 | DSBPRET_C_ABEND | abend |
| 1 | HEX | 84 | DSBPRET_C_ABEND_DRASNAP | |
| | | | | abend + DRA snap |
| 1 | HEX | 40 | DSBPRET_C_STATUS | status code |
| 1 | HEX | 00 | DSBPRET_C_RETURN | return code |

DGB - DBCTL-CICS Global Block

CONTROL BLOCK NAME = DFHDGB
 (In DFHDBCOP, invoked via DFHDBMAC)
 (Invoked by DFHDLPG DGB=DSECT)
 DESCRIPTIVE NAME = CICS TS DBCTL-CICS Global Block
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FUNCTION =
 Used to store connection/disconnection information
 regarding the CICS-DBCTL interface.

LIFETIME =
 The DBCTL Global Block (DGB) is acquired when initialisation
 of the CICS-DBCTL interface is first attempted.
 It is used to store connection/disconnection information
 regarding the CICS-DBCTL interface.
 It is released at the end of the CICS session.

LOCATION = CSA->OPFL->DLP->DGB

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control Block definition

EXTERNAL REFERENCES =
 CSA, DLP, Control Transaction Area, DBCTL-XRF area

DATA AREAS =
 Values from MVS and JES control blocks concerning DBCTL

CONTROL BLOCKS =
 DBCTL exit addresses

GLOBAL VARIABLES (Macro pass) = None

Table 69.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 248 | DFHDGB | Based DGB |
| (0) | CHARACTER | 8 | DGBDESC | Set to DFHDGB |
| (8) | ADDRESS | 4 | DGBCSA | Address of the CSA |
| (C) | ADDRESS | 4 | DGBDLP | Address of the DLP |
| (10) | ADDRESS | 4 | DGBCTA | Address of the Control Txn Area |

Table 69. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------|-----------|-----|------------|--|
| (14) | ADDRESS | 4 | DGBDXBA | Address of the DBCTL-XRF area |
| (18) | ADDRESS | 4 | DGBSMTOK | Storage Manager Token |
| (1C) | ADDRESS | 4 | DGBCTOKN | Call Token - Returned on response to INIT from the Adapter |
| (20) | FULLWORD | 4 | DGBDSENO | Session Number of CICS-DBCTL |
| (24) | CHARACTER | 4 | DGBDSTATCS | Status Fields |
| (24) | CHARACTER | 1 | DGBDSTAT | Status of the CICS-DBCTL interface |
| (25) | UNSIGNED | 3 | DGBDSTCT | Count incremented by 1 when DGBDSTAT is updated or when the control exit is notified by DBCTL of a change in DBCTL's state |
| (28) | CHARACTER | 4 | DGBCFLAGCS | Added for CS logic |
| (28) | CHARACTER | 1 | DGBCFLAG | Cleanup flag |
| (28) | 1... | | DGBDFAIL | DBCTL or DRA has failed |
| (28) | .1.. | | DGBATEN | Indicator for adapter enable 1 0 : Not enabled yet |
| (28) | ..1. | | DGBDXERR | Indicator for XRF proc's 0 : Enabled 1 : Disabled due to error |
| (28) | ...1 | | DGBCABORT | CICS aborted the connection.. |
| (28) | 1... | | DGBMNPND1 | MN call 1 got back POINT_NOT_DEFINED |
| (28) |1.. | | DGBMNPND2 | MN call 2 got back POINT_NOT_DEFINED |
| (28) |11 | | * | Reserved |
| (29) | UNSIGNED | 3 | DGBDRMCT | Count of number of DFHRMCAL requests active in the ADAPTER/DRA |
| (2C) | FULLWORD | 4 | DGBPSBSU | Total number of successful PSB schedule requests |
| Connection information | | | | |
| (30) | CHARACTER | 2 | DGBSTSU | Startup Table Suffix |
| (32) | CHARACTER | 4 | DGBIDBID | DBCTL id Override (if any) |
| (36) | CHARACTER | 8 | DGBCAPLD | CICS APPLID |
| (3E) | CHARACTER | 2 | * | Reserved |
| (40) | CHARACTER | 4 | DGBABORTCS | Added for CS logic |
| (40) | CHARACTER | 1 | DGBABORTRC | Reason for connection abort |
| (40) | 1... | | DGBNOPSK | Storage protect active but DRA does not support storage protection |

Table 69. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (40) | .111 1111 | | * | Reserved |
| (41) | CHARACTER | 3 | * | Reserved |
| (44) | ADDRESS | 4 | DGBINITT | The INIT Token contains the address of the DGB |
| (48) | CHARACTER | 4 | DGBIECB | the Initialisation ECB |
| Exit details Exit details - if the order of the exit fields is altered then DFHDBCON and DFHDBDI will require alteration | | | | |
| (4C) | CHARACTER | 8 | DGBSPXE | Exit name |
| (54) | ADDRESS | 4 | DGBSPXA | Address of the Suspend exit |
| (58) | CHARACTER | 8 | DGBREXE | Exit name |
| (60) | ADDRESS | 4 | DGBREXA | Address of the Resume exit |
| (64) | CHARACTER | 8 | DGBCTXE | Exit name |
| (6C) | ADDRESS | 4 | DGBCTXA | Address of the Control exit |
| (70) | CHARACTER | 8 | DGBMOXE | Exit name |
| (78) | ADDRESS | 4 | DGBMOXA | Address of the Monitoring exit |
| (7C) | CHARACTER | 8 | DGBTXE | Exit name |
| (84) | ADDRESS | 4 | DGBTXA | Address of the Token exit |
| (88) | CHARACTER | 8 | DGBSTXE | Exit name |
| (90) | ADDRESS | 4 | DGBSTXA | Address of the Statistics exit |
| (94) | CHARACTER | 8 | DGBSSXE | Exit name |
| (9C) | ADDRESS | 4 | DGBSSXA | Address of the Status exit |
| (A0) | CHARACTER | 8 | DGBATE | Exit name |
| (A8) | ADDRESS | 4 | DGBATA | Address of the ADAPTER-Transformer |
| End of exit details | | | | |
| (AC) | CHARACTER | 8 | DGBCTIME | Connect time |
| Connection information returned from DBCTL | | | | |
| (B4) | CHARACTER | 4 | DGBDBCID | DBCTL ID |
| (B8) | CHARACTER | 8 | DGBJOB | DBCTL job name |
| (C0) | UNSIGNED | 2 | DGBASID | DBCTL ASID |
| (C2) | CHARACTER | 8 | DGBJOBI | DBCTL JES Job Id |
| (CA) | CHARACTER | 1 | DGBCRC | DBCTL command recognition character |
| (CB) | CHARACTER | 1 | DGBRGTY | DBCTL region type |
| (CC) | HALFWORD | 2 | DGBMITHD | Minimum number of threads |
| (CE) | HALFWORD | 2 | DGBMATHD | Maximum number of threads |
| (D0) | CHARACTER | 8 | DGBRSEN | DBCTL RSE Name |
| IMS Support information | | | | |

Table 69. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|------------------------------|
| (D8) | CHARACTER | 1 | DGBDLEV | Support flags(from PAPLDLEV) |
| (D8) | 1111 | | * | Reserved |
| (D8) | 1... | | DGBOTCB | IMS supports OTE environment |
| (D8) |1.. | | DGBLPL31 | PCB in 31 bit storage |
| (D8) |1. | | DGBSUPD | DRA supports single updater |
| (D8) |1 | | DGBPSK | DRA supports PSK |
| Disconnection information | | | | |
| (D9) | CHARACTER | 1 | DGBDISTY | Disconnection type |
| (DA) | CHARACTER | 8 | DGBDIME | Disconnect time |
| Disconnection information returned from DBCTL These fields relate to the previous CICS-DBCTL session | | | | |
| (E2) | CHARACTER | 2 | * | Reserved |
| (E4) | FULLWORD | 4 | DGBNOMATHD | Max thread hits |
| (E8) | FULLWORD | 4 | DGBNOMITHD | Min thread hits |
| (EC) | CHARACTER | 4 | DGBELMAX | Elapsed time at Max Threads |
| (F0) | FULLWORD | 4 | DGBHIWAT | Hi-Water for no. of Threads |
| (F4) | ADDRESS | 4 | DGBALOAD | Load addr ADAPTER-XFORMER |

Table 70.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 52 | DFHDBGCTA | |
| Control transaction information | | | | |
| (0) | ADDRESS | 4 | DGBCWEHD | Control trans. work elements header |
| (4) | CHARACTER | 1 | DGBCTL | Control transaction flag |
| (4) | 1... | | DGBCTLATT | Control transaction attached |
| (4) | .111 1111 | | * | Reserved |
| (5) | CHARACTER | 3 | * | Reserved |
| (8) | ADDRESS | 4 | DGBCECB | Control transaction ECB |
| (C) | CHARACTER | 8 | DGBDTIM | Time DRA last abnormally terminated |
| (14) | CHARACTER | 16 | DGBCWEERR | storage for control exit error CWE |
| (14) | ADDRESS | 4 | DGBCWEERRA | work ptr used in Building CWEERR |
| (18) | CHARACTER | 12 | * | Reserved |
| (24) | CHARACTER | 16 | DGBCWETERM | storage for control exit term CWE |

Table 70. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-------------|
| (24) | ADDRESS | 4 | DGBCWETERMA | |
| (28) | CHARACTER | 12 | * | Reserved |

Constants

Table 71.

| Len | Type | Value | Name | Description |
|---|------|-------|----------|--|
| Possible values of DGBDSTAT | | | | |
| 1 | HEX | 00 | DGBDSHUT | Interface shut |
| 1 | HEX | 01 | DGBDPHS1 | Connection phase 1 |
| 1 | HEX | 02 | DGBDPHS2 | Connection phase 2 |
| 1 | HEX | 04 | DGBDREDY | Interface ready |
| 1 | HEX | 08 | DGBDORDT | Orderly termination , i.e. phase 1 of termination |
| 1 | HEX | 10 | DGBDIMMT | Immediate termination, i.e. phase 2 of termination |
| 1 | HEX | 20 | DGBDDEAD | Interface dead, i.e. interface is unusable |
| Possible values of DGBRGTY - DBCTL region types | | | | |
| 1 | HEX | 01 | DGBDBCX | DB/DC with XRF |
| 1 | HEX | 02 | DGBDBCO | DB/DC only |
| 1 | HEX | 04 | DGBDBCT | DBCTL |
| Possible values of DGBDISTY | | | | |
| 1 | HEX | 01 | DGBORDDI | Orderly termination request input |
| 1 | HEX | 02 | DGBIMMDI | Immediate termination request input |

DLP - DL/I General purpose macro

MACRO NAME = DFHDLP
 DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
 FUNCTION =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 PATCH LABEL = NONE
 MODULE TYPE = EXECUTABLE

Table 72.

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 0 | DFHDLPDS | DL/I INTERFACE PARM DSECT |
| CICS - DL/I INTERFACE PARAMETERS | | | | |
| (0) | CHARACTER | 8 | DLPEYE | DLP Eyecatcher |
| (8) | FULLWORD | 4 | | Reserved |

Table 72. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (C) | ADDRESS | 4 | DLPDLI | ADDR OF ENTRY TO DFHDLI |
| (10) | BITSTRING | 1 | DLPDLFLG | DLI support flags |
| (10) | .1.. | | DLPDLRE | "X'40" Remote DLI is supported |
| (10) | ...1 | | DLPXRF | "X'10" XRF takeover was performed |
| (11) | ADDRESS | 3 | | Reserved |
| (14) | ADDRESS | 4 | DLPDGB | Address of the DBCTL global block |
| (18) | ADDRESS | 4 | DLPDPEP | Address of DFHDLIDP (the DBCTL call processor) |
| (1C) | ADDRESS | 4 | DLPRPEP | Address of DFHDLIRP (the Remote call processor) |
| (20) | ADDRESS | 4 | | Reserved |
| (24) | ADDRESS | 4 | DLPEDPEP | Address of DFHEDP (the EXEC DLI program) |
| (28) | ADDRESS | 4 | DLPRPDIR | Address of the remote PDIR |
| (2C) | ADDRESS | 4 | | Reserved |
| (30) | BITSTRING | 1 | DLPFLG | Flag Byte |
| (30) |1. | | DLPPSBCK | "X'02" User Security Checking Required CF DFHSIT PSBCHK=YES\|NO |
| (31) | ADDRESS | 3 | | Reserved |
| (34) | ADDRESS | 4 | DLPLCKDGB | Lock Manager Token for DFHDGB |
| (38) | ADDRESS | 4 | DLPLCKGWA | Lock Manager Token for Global Work Area |
| (38) | ..11 11.. | | DLPDFEND | "*" End of dlp |
| (38) | 1... | | DLPDISPL | "8" DISPLACEMENT IN PDIR FROM COUNT FIELD TO START OF THE DIRECTORY |

RPD - DL/I General purpose macro

CONTROL BLOCK NAME = DFHRPD
 DESCRIPTIVE NAME = CICS TS CICS DL/I General Purpose Macro
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 5655-Y04
 (C) Copyright IBM Corp. 1986, 2012
 FUNCTION =
 Provide the remote PDIR entry.
 NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = NONE
 MODULE TYPE = EXECUTABLE

Table 73.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 28 | DFHRPD | |
| (0) | HALFWORD | 2 | RPDLTH | Length of RPDIR Entry |
| (0) | CHARACTER | 1 | RPDIREND | Stop Byte (FF after last entry) |
| (2) | CHARACTER | 1 | RPDFLG1 | Flag Byte 1 |
| (3) | CHARACTER | 1 | RPDFLG2 | Flag Byte 2 |
| (4) | CHARACTER | 8 | RPDNAME | PSB name on this system |
| (C) | CHARACTER | 8 | RPDRNAME | PSB name on remote system |
| (14) | CHARACTER | 4 | RPDRSYS | Remote system name |
| (18) | FULLWORD | 4 | RPDMXSSA | Max SSA Size |

RSB - DL/I General Purpose Macro

MACRO NAME = DFHDLP
 DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
 FUNCTION =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 PATCH LABEL = NONE
 MODULE TYPE = EXECUTABLE
 REMOTE SCHEDULING BLOCK

Table 74.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------|-----------|-----|-------------|-------------------------------|
| (0) | STRUCTURE | 0 | DFHRSBDS | |
| (0) | FULLWORD | 4 | | STORAGE ACCOUNTING |
| (4) | FULLWORD | 4 | | STORAGE ACCOUNTING |
| (4) | 1... | | RSBSTART | "*" START OF RSB |
| (8) | ADDRESS | 4 | RSBPDIR | A(REMOTE PDIR ENTRY) |
| (C) | CHARACTER | 4 | RSBSYSID | REMOTE SYSTEM ID |
| PLIST FOR IS CONVERSE | | | | |
| (10) | FULLWORD | 4 | RSBISPL (0) | |
| (10) | CHARACTER | 1 | (0) | REQUEST TYPE |
| (10) | CHARACTER | 1 | | RETURN CODE |
| (11) | CHARACTER | 1 | | MODIFIER, REQUEST INDEPENDENT |
| (12) | CHARACTER | 1 | | MODIFIER, REQUEST DEPENDENT |
| (13) | CHARACTER | 1 | | RESERVED |
| (14) | FULLWORD | 4 | | TCTTE ADDRESS |
| (18) | FULLWORD | 4 | (0) | XFR ADDRESS |
| (18) | CHARACTER | 4 | | TRANSACTION ID |
| (1C) | CHARACTER | 4 | | REMOTE SYSTEM ID |

Table 74. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (20) | CHARACTER | 8 | | TRANSACTION ROUTING PROFILE |
| (28) | HALFWORD | 2 | | Number of send sessions |
| (2A) | HALFWORD | 2 | | Number of receive sessions |
| (2C) | CHARACTER | 8 | | Connectee NETNAME |
| (34) | CHARACTER | 8 | | Security name |
| (3C) | FULLWORD | 4 | | Address of LCL entry |
| (40) | FULLWORD | 4 | | Address of CRB |
| TRANSFORMER'S (DFHXFP'S) INTERFACE BLOCK CONTROL BLOCK NAME = DFHXFRDS NAME OF MATCHING PLS CONTROL BLOCK = None DESCRIPTIVE NAME = CICS TS Function Request Shipping Request Control Block. STATUS = 6.9.0 MACROS = DFHXFSTG FUNCTION = Defines the data transformation (XF) control block as used in batch and online environments. | | | | |
| (48) | DBL WORD | 8 | XFRSTART (0) | XF control block - start |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO AN ONLINE ENVIRONMENT NOTE: There is a copy of this storage up to XFRFLAGA in DFHEPC and up to XFRAADPT in DFHEIIC. These programs must also be changed if the offset of XFRFLAGA (or XFRAADPT for DFHEIIC) changes. The field names in these programs are TFRFLAGA and TFRAADPT. | | | | |
| SYSTEM/SESSION RELATED FIELDS | | | | |
| (48) | CHARACTER | 4 | XFRSYSNM | N(SYSID) |
| (4C) | ADDRESS | 4 | XFRATCSE | A(TCTSE) |
| (50) | ADDRESS | 4 | XFRATCTE | A(TCTTE) OR 0 |
| (54) | ADDRESS | 4 | XFRATIOA | A(TIOA) OR 0 |
| (58) | CHARACTER | 4 | XFRLUCCD | LU6.2 ERROR (SENSE) CODE |
| (5C) | CHARACTER | 4 | XFRSTRAN | Server transaction code |
| (60) | BITSTRING | 1 | XFRFLAGA | |
| (60) | 1... | | XFRSEVR | "X'80" Server transaction supplied |
| (60) | .1.. | | XFRNORM | "X'40" Normal transformer to be used |
| (60) | ..1. | | XFRSYNC | "X'20" SYNCONRETURN requested |
| (60) | ...1 | | XFRNOATN | "X'10" CONVERSE with NOATNI required |
| (60) | 1... | | XFRLINK | "X'08" LINK request |
| (60) |1.. | | XFRRTDST | "X'04" Dynamically routed START request |
| (60) |1. | | XFRRESUN | "X'02" RESUNAVAIL condition supported |

Table 74. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------|--|
| (60) |1 | | XFRCHAN | "X'01'" CHANNEL request |
| (62) | HALFWORD | 2 | XFRRTRLN | Length of router commarea or 0 |
| (64) | ADDRESS | 4 | XFRRTRAD | A(DFHDSRP) or 0 |
| (68) | BITSTRING | 4 | XFRCHTOK | Channel Token |
| (6C) | BITSTRING | 1 | XFRFLAGB | |
| (6C) | 1... | | XFRRSTRT | "X'80'" dynamic and routable start |
| (6D) | BITSTRING | 1 | | reserved |
| (6E) | HALFWORD | 2 | XFRADPLN | Length of adapter data |
| (70) | ADDRESS | 4 | XFRAADPT | Address of adapter data |
| (74) | FULLWORD | 4 | XFRFSPEC (0) | Origin for function specific storage |
| DL/I RELATED FIELDS | | | | |
| (74) | ADDRESS | 4 | XFRAUIB | A(UIB) |
| (78) | FULLWORD | 4 | XFRDLILN | Maximum length os SETS I/O area so far |
| FILE CONTROL RELATED FIELDS | | | | |
| (7C) | FULLWORD | 4 | FCBUFLN | Shipped buffer length |
| (80) | HALFWORD | 2 | FCKEYLEN | Shipped record identifier length |
| (82) | BITSTRING | 1 | FCEID (9) | ARG 0 OF EIP PARAMETER LIST (EID) |
| (8B) | BITSTRING | 1 | (17) | RESERVED |
| (9C) | FULLWORD | 4 | (0) | MAKE LENGTH MULTIPLE OF 4 |
| This DSECT describes the entries required for remote program link | | | | |
| (9C) | FULLWORD | 4 | DFHPCENT (0) | PC LINK entries begin here |
| (9C) | CHARACTER | 4 | XFR_PC_ATT_TRAN | Transaction code - for mirror attach FMH |
| (A0) | CHARACTER | 4 | XFR_PC_EIB_TRAN | Transaction code - for mirror EIBTRNID |
| (A4) | FULLWORD | 4 | XFR_PC_CCSID | Character data conversion 0 => no conversion -1 => conversion required use client code page defined via DFHCNV n => conversion requird use n as override to code page defined via DFHCNV |
| (A8) | FULLWORD | 4 | XFR_PC_NDIAN | Binary data conversion 0 => no conversion X'01020304' => data held in big endian format X'04030201' => data held in little endian format |
| (AC) | CHARACTER | 8 | XFRPNAME | name of program |

Table 74. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------|--|
| (B4) | HALFWORD | 2 | XFRCOMML | length of commarea |
| (B6) | HALFWORD | 2 | XFRDATAL | length of data to be sent |
| (B8) | CHARACTER | 4 | XFRABCD | Abend code returned from mirror |
| (BC) | BITSTRING | 1 | XFRFLAG4 | Flag byte |
| (BC) | 1... | | XFRHTRAN | "X'80" hex tranid present |
| (BC) | .1.. | | XFRDATAV | "X'40" valid DATALENGTH supplied |
| (BC) | 1111 | | ESCARGN | "240" Special id for escape sequence |
| Fields used for passing terminal error information between MIRS/ISP and the transformer | | | | |
| (BD) | BITSTRING | 4 | XFRTCERR | Terminal error |
| (C1) | CHARACTER | 4 | XFRTCABE | Terminal control abend code |
| (C5) | BITSTRING | 4 | XFRTCSNS | Terminal control sense data |
| (D0) | DBL WORD | 8 | CONTAINER_LIST (0) | |
| (D0) | ADDRESS | 4 | CONTAINER_LIST_P | Address of container list |
| (D4) | FULLWORD | 4 | CONTAINER_LIST_N | Length of container list |
| (D8) | FULLWORD | 4 | XFRCHOUT | # outbound channel bytes |
| (DC) | FULLWORD | 4 | XFRCHIN | # inbound channel bytes |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT | | | | |
| (48) | ADDRESS | 4 | XFRASTG1 | ADDRESS OF STG CONTAINING THE FLATTENED PLIST. THE TRANSFORMER GETS NEW STG IF XFRASTGE IS 0 OR REUSES THE CURRENT STG IF THIS PROVES LARGE ENOUGH |
| (4C) | ADDRESS | 4 | XFRASTG4 | ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I. |
| (50) | FULLWORD | 4 | XFRASTGL | LENGTH OF THE FLATTENED REPLY IN THE DL/I BUFFERS |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE COMMON TO A BATCH AND ONLINE ENVIRONMENTS | | | | |
| (E0) | ADDRESS | 4 | XFRPLIST | ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSF'R |
| (E4) | ADDRESS | 4 | XFRATABN | A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE |

Table 74. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-------------|-----|------------|--|
| (E8) | ADDRESS | 4 | XFRATAB2 | A(2ND TABLE ENTRY) - E.G. PDIR OR 0 |
| (EC) | CHARACTER | 1 | XFRFORMN | THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS |
| (EC) | .... .. |  | XFRTRAN1 | "0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS |
| (EC) |1. | | XFRTRAN2 | "2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS |
| (EC) |1.. | | XFRTRAN3 | "4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES |
| (EC) |11. | | XFRTRAN4 | "6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES |
| (ED) | CHARACTER | 2 | XFRARCHD | USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE |
| (EF) | CHARACTER | 1 | XFRGROUP | THE GROUP IDENTIFIER FOR THE CURRENT REQUEST |
| (EF) |11. | | XFRFCGRP | "X'06" - THE CICS FC GROUP |
| (EF) |1... | | XFRTDGRP | "X'08" - THE CICS TD GROUP |
| (EF) |1.1. | | XFRTSGRP | "X'0A" - THE CICS TS GROUP |
| (EF) | ...1 | | XFRICGRP | "X'10" - THE CICS IC GROUP |
| (EF) | ...1 ..1.. | | XFRJCGRP | "X'14" - THE CICS JC GROUP |
| (EF) | ..1. | | XFRDLGRP | "X'40" - THE DL/I GROUP |
| (F0) | CHARACTER | 1 | XFRFUNCT | THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST |
| (F1) | CHARACTER | 1 | XFRFLAGS | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| (F1) | 1... | | XFREILST | "X'80" THE ARGUMENT LIST COMES FROM OR GOES TO EIP |
| (F1) | ..1. | | XFRDLLST | "X'40" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I |

Table 74. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (F1) | ..1. | | XFRDLCNT | "X'20" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS |
| (F1) | ...1 | | XFRDLPLI | "X'10" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS |
| (F1) | 1... | | XFRATHDR | "X'08" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA |
| (F1) |1.. | | XFRLNGRN | "X'04" THE MIRROR TASK NEEDS TO BE LONG RUNNING |
| (F1) |1. | | XFRNRPLY | "X'02" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED |
| (F1) |1 | | XFRPRTCT | "X'01" THE REQUEST IS TO BE SHIPPED PROTECTED |
| (F2) | CHARACTER | 1 | XFRFLAG1 | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| (F2) | 1... | | XFRLCLQ | "X'80" THE REQUEST MAY BE QUEUED BEFORE SHIPPING |
| (F2) | .1.. | | XFRFCTK | "X'40" FC Token can be shipped |
| (F2) | ..1. | | XFRFCRQ | "X'20" Shipped FC request |
| (F2) | ...1 | | XFRTMERR | "X'10" Terminal error in xformer layer |
| (F2) |1. | | XFRESCAP | "X'02" Escape sequence preceding 4-byte legths may be found |
| (F2) |1 | | XFRCHANL | "X'01" This is a CHANNEL request |
| (F3) | CHARACTER | 1 | XFRFLAG2 | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| (F3) | 1... | | XFRHAENT | "X'80" DFHMIRVM has handled an abend; the abend code is to be found in the TACB |
| (F3) | .1.. | | XFRLNFD | "X'40" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally |
| (F3) | ..1. | | XFRCHNSP | "X'20" Other end of MRO link supports channels |

Table 74. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (F3) | ...1 | | XFRICRX | "X'10" Other end of MRO link supports ICRxs |
| (F3) | 1... | | XFRLCHAN | "X'08" Link with prog or tran chan |
| (F3) |1.. | | XFRCACX | "X'04" Other end supports propagation of current app ctxt |
| (F3) |1. | | XFRODRP | "X'02" Other end supports propagation of Origin Data |
| (F3) |1 | | XFRCTX | "X'01" Other end supports propagation of initial app ctxt |
| (F4) | CHARACTER | 1 | XFRFLAG3 | PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED |
| (F5) | CHARACTER | 2 | XFRCODES (0) | FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER |
| (F5) | CHARACTER | 1 | XFRCODE1 | THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS |
| (F5) |1.. | | XFR1TO4 | "4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4 |
| (F5) | 1... | | XFR1TOC | "8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I |
| (F5) |1. | | XFR1XLNF | "2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS |
| (F5) | 11.1 1.11 | | XFRLNKUN | "219" RESUNAVAIL condition raised in remote region |
| (F5) | ...1 111. | | XFRLNKAP | "30" Allocate request in ISP has been purged |
| (F5) | ...1 11.. | | XFRLNKAR | "28" Allocate request in ISP has been rejected |
| (F5) | ...1 1.1. | | XFRLNKNI | "26" no sessions immediately available for allocate request |

Table 74. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (F5) | ...1 1... | | XFRLNKP | "24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING |
| (F5) | ...1 .11. | | XFRLNKSV | "22" TRANSID invalid, we are already in session with a different mirror transaction. |
| (F5) | ...1 .1.1 | | XFRDWNLV | "21" The remote system does not support a keyword on this request |
| (F5) | ...1 .1.. | | XFRLNKG | "20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID |
| (F5) | ...1 .1. | | XFRLNKSP | "18" SYNCONRETURN invalid, we are already in session with a mirror |
| (F5) | ...1 | | XFRLNKLQ | "16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT |
| (F5) | 111. | | XFRLNKAB | "14" xform 4 has processed ABCODE data |
| (F5) | 11.. | | XFRLNKNA | "12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE |
| (F5) | 1.1. | | XFRLNKSF | "10" CONVERSE in DFHISP has failed |
| (F5) | 1..1 | | XFRLNKCP | "9" Special for CPSM only equ of XFRLNKSH. |
| (F5) | 1... | | XFRLNKSH | "8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE |
| (F5) |11. | | XFRLNKNS | "6" Type of request (either LINK or START CHANNEL) is not supported over LU6.1 connections |
| (F5) |1.. | | XFRLNKSY | "4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE |
| (F6) | CHARACTER | 1 | XFRCODE2 | THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS |

Table 74. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-----------|-----|-------------|--|
| (F6) | 1.. | | XFR2TO3 | "4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3 |
| (F6) | 1... | | XFRNEGR | "8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT |
| (F7) | CHARACTER | 1 | XFRABCDE | ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM |
| (F8) | ADDRESS | 4 | XFRRESR9 | resumption base for DL/I function shipping |
| (FC) | ADDRESS | 4 | XFRRESRE | resumption address for DL/I function shipping |
| (100) | ADDRESS | 4 | XFRBEGOP | address of Arg0 options bytes |
| (104) | FULLWORD | 4 | XFRARGS (0) | ORIGIN FOR ARGUMENTS |
| (104) | 1.11 11.. | | XFRLNGTH | "*-XFRSTART" |
| TRANSFORMER'S RESOURCE TABLE | | | | |
| (108) | DBL WORD | 8 | DRXSTRT (0) | START OF DFHDRX |
| (108) | FULLWORD | 4 | DRXSSASZ | MAX SSA SIZE AS PERCEIVED BY THIS SYSTEM |
| (10C) | CHARACTER | 8 | DRXRPSB | NAME OF PSB TO BE USED ON REMOTE SYSTEM |
| (114) | ADDRESS | 4 | DRXPCBAL | A(LOCAL PCB ADDRESS LIST) THIS FIELD IS SET BY XFR4 DURING SCHEDULE CALL AND IS USED DURING DB CALLS |
| (118) | ADDRESS | 4 | DRXCHAIN | CHAIN OF STORAGE SEGMENTS OBTAINED BY TRANSFORMER 4 |
| (11C) | ADDRESS | 4 | DRXIOAWK | A(READ SET BUFFER); BEFORE DRXBUFAL SET ON CONTAINS LENGTH FOR BUFFER |
| (120) | HALFWORD | 2 | DRXINDEX | THE PCB INDEX FOR THE CURRENT DATABASE CALL |
| (122) | BITSTRING | 1 | DRXISC | ISC FLAGS |
| (122) | 1... | | DRXPCBM | "X'80" PRESENT TO RETAIN SDB - DL/I SIMILARITY |

Table 74. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|---|
| (122) | .1.. | | DRXBUFAL | "X'40" READ-SET BUFFER HAS BEEN ALLOCATED; THE ADDRESS IS IN DRXIOAWK |
| (122) | ..1. | | DRXCHKP | "X'20" PCB SCHED. ISSUED DURING CHKP CALL; XFR4 SHOULD USE STG FOR OLD PCBs AND LIST |
| (123) | BITSTRING | 1 | DRXISCO | ISC OUTBOUND FLAGS |
| (123) | 1... | | DRXSYNC | "X'80" PRESENT TO RETAIN SDB - DL/I SIMILARITY |
| (123) | .1.. | | DRXHLPI | "X'40" HLPI COMMAND WITH SSA AND I/O LENGTHS GIVEN |
| (124) | BITSTRING | 1 | DRXISCI | ISC INBOUND FLAGS |
| (124) | 1... | | DRXFUNC | "X'80" FUNCTION STRING INVALID |
| (124) | .1.. | | DRXCALL | "X'40" USER CALL PARM LIST INVALID |
| (124) | ..1. | | DRXLNKNA | "X'20" LINK DOES NOT EXIST |
| (124) | ...1 | | DRXLNKSH | "X'10" LINK IS OUT OF SERVICE |
| (124) | 1... | | DRXNOSTT | "X'08" PRESENT TO RETAIN SDB - DL/I SIMILARITY |
| (125) | BITSTRING | 1 | DRXFCTR | RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCAFCTR (SET BY XFR4) |
| (126) | BITSTRING | 1 | DRXDLTR | RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCADLTR (SET BY XFR4) |
| (127) | BITSTRING | 1 | DRXLANG | LANGUAGE TYPE, USED BY XFR1 ON SCHEDULE CALL. IF PL/I THEN LEVEL OF INDIRECTION ADDED TO PCB LIST |
| (127) | 11.. ...1 | | DRXASM | "C'A" ASSEMBLER |
| (127) | 11.. ...11 | | DRXCOB | "C'C" COBOL |
| (127) | 11.1 .111 | | DRXPLI | "C'P" PL/I |
| (128) | BITSTRING | 1 | DRXFLG1 | FLAG BYTE |

Table 74. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (128) | 1... | | DRXCMPT | "X'80" COMPAT OPTION USED (HENCE A DUMMY PCB MUST BE ADDED TO LIST, AND TAKEN ACCOUNT OF IN DB CALL) |
| (128) | .1.. | | DRXSPIE | "X'40" TELL SPIE THAT IF PGM CHECK OCCURS, THEN INVOKE RETRY |
| (128) | ..1. | | DRXDPCB | "X'20" THE DUMMY PCB HAS YET TO BE CREATED BY TRANSFORMER 4 |
| (12C) | FULLWORD | 4 | DRXRETAD | ADDRESS OF POINT IN TRANSFORMER TO WHICH RETRY ROUTINE SHOULD RETURN |
| (130) | FULLWORD | 4 | DRXIOLEN | I/O AREA LENGTH FOR HLPI COMMAND - VALID IF DRXHLPI IS SET |
| (134) | CHARACTER | 1 | DRXATPN | TYPE LAST ATTACH HEADER LAST SENT. THERE IS PROBABLY A BETTER PLACE TO HOLD THIS. ONLINE THE INFO IS HELD IN THE TCTTE |
| (135) | CHARACTER | 6 | DRXRCODE (0) | RETURN CODE FROM AN EXEC CICS REQUEST |
| (135) | CHARACTER | 1 | DRXRCDE1 | RESPONSE CODE |
| (136) | CHARACTER | 1 | DRXRCDE2 | RESERVED |
| (137) | CHARACTER | 1 | DRXRCDE3 | RESERVED |
| (138) | CHARACTER | 1 | DRXRCDE4 | RESERVED |
| (139) | CHARACTER | 1 | DRXRCDE5 | RESERVED |
| (13A) | CHARACTER | 1 | DRXRCDE6 | RESERVED |
| (13A) | ..11 ..11 | | DRXLLEN | "*-DRXSTRT" LENGTH OF DFHDRX |
| (13C) | ADDRESS | 4 | RSBEXPRM | ADDR OF EDP'S DBLWD FOR LOCATE MODE RETRIEVAL |
| (13C) | | 0 | RSBLEN | "*-RSBSTART" LENGTH OF RSB |

DBU - DBCTL unsolicited statistics

CONTROL BLOCK NAME = DFHDBUDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHDBSTA
 DESCRIPTIVE NAME = CICS TS DBCTL Unsolicited Statistics
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 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1987, 1993
 FUNCTION = This DSECT describes the DBCTL unsolicited statistics

This copybook maps DBCTL unsolicited statistics. The storage area is built at the end of each DBCTL session. The copybook is used by DFHSTUP and user programs requiring access to DBCTL statistics data. For Local DL/I statistics see DFHA18DS.

LIFETIME = Duration of the domain call to statistics domain
LOCATION = Caller is passed a pointer to the head of the block.
INNER CONTROL BLOCKS = None

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = none

MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None

DATA AREAS = None

CONTROL BLOCKS = In DBCTL

GLOBAL VARIABLES (Macro pass) = None

and STADTIME to 'local STCK'

Table 75.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------------|
| (0) | STRUCTURE | 0 | DFHDBUDS | DBCTL USS |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | DBULEN | Length of data area |
| (0) | ...1 11.. | | DBUIDE | "28" DBCTL USS id mask |
| (2) | ADDRESS | 2 | DBUID | DBCTL USS stats id |
| (2) |1 | | DBUVERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | DBUDVERS | DBCTL USS version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | STATSENO | CICS-DBCTL session No |
| (C) | CHARACTER | 4 | STATDBID | DBCTL id |
| (10) | CHARACTER | 8 | STARSEN | RSE name |
| (18) | BITSTRING | 8 | STACTIME | Connect time (GMT STCK) |
| (20) | BITSTRING | 8 | STADTIME | Disconnect time (GMT STCK) |
| (28) | HALFWORD | 2 | STAMITHD | Minimum number of threads |
| (2A) | HALFWORD | 2 | STAMATHD | Maximum number of threads |
| (2C) | FULLWORD | 4 | STANOMITHD | No. of times min threads hit |
| (30) | FULLWORD | 4 | STANOMATHD | No. of times max threads hit |
| (34) | BITSTRING | 8 | STAEIMAX | Elapsed time at max threads |
| (3C) | FULLWORD | 4 | STAHIWAT | Hi-water for No. of threads |
| (40) | FULLWORD | 4 | STAPSBSU | Total No. successful PSB schedules |
| (44) | BITSTRING | 8 | STALCTIM | Connect Time (Local STCK) |
| (4C) | BITSTRING | 8 | STALDTIM | Disconnect Time (Local STCK) |
| (4C) | .1.1 .1.. | | DBUEND | "*" End of DSECT |

Table 75. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (4C) | .1.1 .1.. | | DBUCLEN | "*-DBULEN" Length of DSECT |

DCR - Transaction dump record formats

CONTROL BLOCK NAME = DFHDCRPS
 DESCRIPTIVE NAME = CICS TS Transaction Dump Record Formats
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 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1987, 2012
 FUNCTION = Contains the structures for transaction dump records

DUMP DATASET RECORD

THIS DSECT DESCRIBES THE FORMAT OF THE DIFFERENT TYPES OF RECORDS WRITTEN TO THE DUMP DATASET FOR TRANSACTION DUMPS. IT IS USED BY DU DOMAIN TO CREATE RECORDS AND BY DFHDUxxx TO READ THEM.

BLOCK FORMAT

Table 76.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-----------------------|
| (0) | STRUCTURE | 4 | BLOCK_HEADER | |
| (0) | UNSIGNED | 2 | DCBLKLEN | BLOCK LENGTH |
| (2) | UNSIGNED | 2 | * | PADDING INIT(0) |
| (4) | CHARACTER | 0 | DCRECST | START OF FIRST RECORD |

STANDARD RECORD HEADING

Table 77.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-------------------------|
| (0) | STRUCTURE | 8 | RECORD_HEADER | |
| (0) | UNSIGNED | 2 | DCRECLN | RECORD LENGTH |
| (2) | UNSIGNED | 2 | * | PADDING INIT(0) |
| (4) | BIT(8) | 1 | DCIRTSI | RECORD TYPE |
| (5) | BIT(8) | 1 | DCIND1 | EXCESS LENGTH INDICATOR |
| (5) | 111. | | * | SPARE |
| (5) | ...1 | | DCLAST | |
| (5) | 1... | | DCRESTR | |
| (5) |1.. | | DCDUPLS | |
| (5) |1. | | DCCONTN | |
| (5) |1 | | DCOVLN | |
| (6) | BIT(8) | 1 | DCIND2 | ERROR INDICATOR |
| (6) | 1... | | DCBADSEG | |
| (6) | .1.. | | DCMVFAIL | |

Table 77. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (6) | ..1. | | * | SPARE |
| (6) | ...1 | | DCBADCHN | |
| (6) | 1... | | DCPGMCHK | |
| (6) |1.. | | DCNCICIC | |
| (6) |1. | | DCNONCIC | |
| (6) |1 | | DCBADSAA | |
| (7) | BIT(8) | 1 | DCSPACE | SPACING CONTROL |
| (8) | CHARACTER | 0 | DCDATST | START OF TYPE SPECIFIC DATA |

STORAGE AREA RECORD

Table 78.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (0) | STRUCTURE | 12 | INDEX_AREA | |
| (0) | FULLWORD | 4 | DCADDR | ADDRESS OF AREA DUMPED |
| (4) | UNSIGNED | 4 | DCLENG | LENGTH OF AREA DUMPED |
| (8) | UNSIGNED | 4 | DCINDX | INDEX OF FIRST BYTE |
| (8) | UNSIGNED | 4 | * | |
| (C) | CHARACTER | 0 | DCDATA | START OF DATA |

DUMP HEADER RECORD

Table 79.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|------------------------|
| (0) | STRUCTURE | 48 | DUMP_HEADER_RECORD | |
| (0) | CHARACTER | 8 | DCIDRC | INIT('IDRECORD') |
| (8) | CHARACTER | 4 | DCTASKID | TASK ID FROM PCTTI |
| (C) | CHARACTER | 4 | DCDUMPC | DUMP CODE FROM TCADCDC |
| (10) | CHARACTER | 9 | DCDUMPST | DUMP ID |
| (19) | CHARACTER | 6 | DCTIME | TIME OF DAY (HHMMSS) |
| (1F) | BIT(8) | 1 | DCDATFM | FULL DATE FORMAT |
| (20) | CHARACTER | 8 | DCDATE | DATE |
| (28) | CHARACTER | 8 | DCAPPLID | SYSTEM APPLID |

TRACE TABLE HEADER RECORD

Table 80.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|----------------------|
| (0) | STRUCTURE | 36 | TRACE_TABLE_HEADER | |
| (0) | CHARACTER | 32 | DCTHDR | TRACE HEADER |
| (20) | FULLWORD | 4 | DCHDRA | TRACE HEADER ADDRESS |

LINE SEGMENT OR ERROR MESSAGE RECORD

Table 81.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 132 | LINE_SEG | |
| (0) | CHARACTER | 132 | DCLINE | |

LIFO INTERPRETATION RECORD

Table 82.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------------|
| (0) | STRUCTURE | 62 | LIFO_INT | |
| (0) | CHARACTER | 26 | DCLIFOP1 | INIT('LIFO STACK ENTRY OWNED BY ') |
| (1A) | CHARACTER | 8 | DCLIFOWN | MODULE-NAME |
| (22) | CHARACTER | 11 | DCLIFOP2 | INIT(' / LINK-REG') |
| (2D) | CHARACTER | 10 | DCLIFOP3 | ' OFFSET = ' OR ' IS EMPTY.' |
| (37) | CHARACTER | 7 | DCLIFFOFF | LINK-REG OFFSET |

PSW RECORD

Table 83.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 16 | PSW_RECORD | |
| (0) | CHARACTER | 16 | DCPSW | PSW |
| (0) | CHARACTER | 8 | * | |
| (8) | CHARACTER | 8 | DCINT | |

CONTROL BLOCK INDEX ITEM RECORD

Table 84.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 10 | CONT_INDEX | |
| (0) | FULLWORD | 4 | DCCBST | DATA START POINT |
| (4) | CHARACTER | 6 | DCCBNAME | CONTROL BLOCK NAME |
| (A) | CHARACTER | 0 | DCCBEND | DATA END POINT |
| (A) | CHARACTER | 0 | DCCBHDR | HEADING DATA |

MODULE INDEX ITEM RECORD

Table 85.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-------------|
| (0) | STRUCTURE | 30 | MODULE_INDEX | |
| (0) | CHARACTER | 8 | PROGRAM_NAME | |
| (8) | FULLWORD | 4 | PROGRAM_LENGTH | |
| (C) | ADDRESS | 4 | ENTRY_POINT | |

Table 85. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------|-------------|
| (10) | ADDRESS | 4 | LOAD_POINT | |
| (14) | FULLWORD | 4 | INSTANCE_USE_COUNT | |
| THE VALUES OF THE FOLLOWING FIELDS ARE DEFINED IN THE STRUCTURE 'DFHLDLDA'. | | | | |
| (18) | CHARACTER | 1 | PROGRAM_TYPE | |
| (19) | CHARACTER | 1 | PROGRAM_USAGE | |
| (1A) | CHARACTER | 1 | PROGRAM_ATTRIBUTE | |
| (1B) | CHARACTER | 1 | SPECIFIED_AMODE | |
| (1C) | CHARACTER | 1 | SPECIFIED_RMODE | |
| (1D) | CHARACTER | 1 | LOCATION | |

Interupt PSW, Registers, Bear, & Tea

Table 86.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------------|--------------------------------|
| (0) | STRUCTURE | 112 | INT_DATA | |
| (0) | CHARACTER | 8 | INT_PSW (4294967298:341935240) | INTERRUPT PSW |
| (10) | CHARACTER | 16 | INT_PSW16 | INTERRUPT 16-BYTE PSW |
| (20) | CHARACTER | 8 | INT_BEAR | BEAR |
| (28) | CHARACTER | 8 | INT_TEA | TEA |
| (30) | CHARACTER | 64 | INT_REGS | REGISTERS AT TIME OF INTERRUPT |

0 - 15

Table 87.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------------|-----------------------|
| (0) | STRUCTURE | 176 | INT_DATA64 | |
| (0) | CHARACTER | 8 | INT_PSW64 (4294967298:341936616) | INTERRUPT PSW |
| (10) | CHARACTER | 16 | INT_PSW1664 | INTERRUPT 16-BYTE PSW |
| (20) | CHARACTER | 8 | INT_BEAR64 | BEAR |
| (28) | CHARACTER | 8 | INT_TEA64 | TEA |
| (30) | CHARACTER | 128 | INT_REGS64 | 64-BIT REGISTERS AT |

 SIZE OF SUCCESSFUL GETMAIN FOR TRACE TABLE

Table 88.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------------|
| (0) | STRUCTURE | 13 | GMAIN_DATA | |
| (0) | FULLWORD | 4 | TDTR_SIZE_GMAIN | ALLOCATED STORAGE |
| (4) | FULLWORD | 4 | TDTR_SIZE_DUA | RQUESTED SIZE |
| (8) | FULLWORD | 4 | TDTR_SIZE_INT | INTERNAL TR TAB SZ |

Table 88. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------|
| (C) | CHARACTER | 1 | TDTR_TYPE | SELECTION TYPE |

Constants

Table 89.

| Len | Type | Value | Name | Description |
|--|------|-------|----------|----------------------------|
| EQUATES FOR VALUE OF RECORD IDENTIFIER FIELD (DCIRTSI) | | | | |
| 1 | HEX | 01 | DCSSIC | SEGMENT STORAGE |
| 1 | HEX | 03 | DCCSAIC | CSA STORAGE |
| 1 | HEX | 05 | DCTCUA | TCTTE USER AREA |
| 1 | HEX | 08 | DCTERMIC | TERMINAL STORAGE |
| 1 | HEX | 09 | DCFCADIC | FCA DEST. CONTROL TABLE |
| 1 | HEX | 0A | DCFCATIC | FCA TERMINAL CONTROL TABLE |
| 1 | HEX | 0B | DCPCTIC | PROGRAM CONTROL TABLE |
| 1 | HEX | 0C | DCPPTIC | PROCESSING PROGRAM TABLE |
| 1 | HEX | 0D | DCFCTIC | FILE CONTROL TABLE |
| 1 | HEX | 0E | DCDCTIC | DESTINATION CONTROL TABLE |
| 1 | HEX | 0F | DCTCTIC | TERMINAL CONTROL TABLE |
| 1 | HEX | 10 | DCDTIC | JULIAN DATE & TIME OF DAY |
| 1 | HEX | 12 | DCCOMIC | COMMUNICATION AREA |
| 1 | HEX | 13 | DCTCLUC | TCTTE LUC EXTENSION |
| 1 | HEX | 14 | DCTCLCSB | TCTTE LUC SEND BUFFER |
| 1 | HEX | 15 | DCTCLCRB | TCTTE LUC RECEIVE BUFFER |
| 1 | HEX | 16 | DCTCBMEX | TCTTE BMS EXTENSION |
| 1 | HEX | 17 | DCTLRIC | TRANSACTION TRAILER RECORD |
| 1 | HEX | 18 | DCPROGAB | PROG.CHECK ASSOCIATED STG. |
| 1 | HEX | 19 | DCTU24IC | USER24 SUBPOOL STORAGE |
| 1 | HEX | 1A | DCTC31IC | CICS31 SUBPOOL STORAGE |
| 1 | HEX | 1B | DCTCAPP | INT PSW & REGS 0 - 15 |
| 1 | HEX | 1C | DCDBLIC | DYNAMIC LOG STORAGE |
| 1 | HEX | 1D | DCTC24IC | CICS24 SUBPOOL STORAGE |

Table 89. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|-----------|-----------------------------|
| 1 | HEX | 1E | DCTU31IC | USER31 SUBPOOL STORAGE |
| 1 | HEX | 20 | DCPROGIC | PROGRAM STORAGE |
| 1 | HEX | 21 | DCMCBIC | MESSAGE CONTROL BLOCK |
| 1 | HEX | 23 | DCSITIC | SYSTEM INITIALIZATION TABLE |
| 1 | HEX | 24 | DCOPFLIC | CSA OPTIONAL FEATURES LIST |
| 1 | HEX | 25 | DCRSAIC | RSA STORAGE |
| 1 | HEX | 26 | DCLIFOIC | LIFO STORAGE |
| 1 | HEX | 27 | DCPCBIC | DL/I PCB |
| 1 | HEX | 28 | DCISBIC | DL/I ISB |
| 1 | HEX | 29 | DCPSTIC | DL/I PST |
| 1 | HEX | 2A | DCSCDIC | DL/I SCD |
| 1 | HEX | 2B | DCDGB | DL/I DGB |
| 1 | HEX | 2C | DCDGBCT | DL/I DGB |
| 1 | HEX | 2D | DCDSB | DL/I DSB |
| 1 | HEX | 2E | DCDSBRESP | DL/I DSB RESPONSE |
| 1 | HEX | 2F | DCUIB | DL/I USER RESPONSE CODES |
| 1 | HEX | 30 | DCTIE | Task Interface Element |
| 1 | HEX | 32 | DCUEPAR | UEPAR Plist for TRUE |
| 1 | HEX | 3C | DCPSNTIC | PSEUDO SIGN-ON TABLE ENTRY |
| 1 | HEX | 41 | DCFDHDR | FORMATTED DUMP HEADER |
| 1 | HEX | 42 | DCFDSUP | SUPERVISOR DUMP |
| 1 | HEX | 43 | DCFDPTN | PARTITION DUMP |
| 1 | HEX | 44 | DCFDPSW | PSW |
| 1 | HEX | 45 | DCFDREGS | REGISTERS |
| 1 | HEX | 46 | DCFDLINE | LINE SEGMENT |
| 1 | HEX | 47 | DCFDHEX | HEXADECIMAL |
| 1 | HEX | 48 | DCFDERR | ERROR MESSAGE |
| 1 | HEX | 49 | DCFDCIND | CONTROL BLOCK INDEX |
| 1 | HEX | 4A | DCFDMIND | MODULE INDEX |
| 1 | HEX | 4B | DCFDDSA | DYNAMIC STORAGE AREA |
| 1 | HEX | 7F | DCFDTLR | FORMATTED DUMP TRAILER |
| 1 | HEX | 4C | DCTRHEAD | TRACE HEADER REC |
| 1 | HEX | 4D | DCTRREC | TRACE RECORD |
| 1 | HEX | 4E | DCTRTAIL | TRACE TRAILER REC |

Table 89. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-------|-------------|-----------------------|
| 1 | HEX | 4F | DCTCAPP64 | INT PSW & 64-BIT REGS |
| 1 | HEX | FF | DCLRIC | END OF DUMP DATA SET |
| EQUATE VALUES OF FULL DATE FORMAT FIELD (DCDATFM) | | | | |
| 1 | DECIMAL | 1 | DC_YYYYMMDD | |
| 1 | DECIMAL | 2 | DC_DDMMYYYY | |
| 1 | DECIMAL | 3 | DC_MMDDYYYY | |

DCT - Destination control table

Table 90.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---------------------------|
| (0) | STRUCTURE | 124 | TDDCTCMN | |
| (0) | CHARACTER | 8 | TDDCT_PREFIX | Prefix |
| (8) | CHARACTER | 4 | TDDCTDID | Identification |
| (C) | BIT(8) | 1 | TDDCTDT | Attributes |
| (C) | 1... | | TDINDTBM | - intrapartition (I/P) |
| (C) | .1.. | | TDEXTRBM | - extrapartition (E/P) |
| (C) | ..1. | | TDINDBM | - indirect |
| (C) | ...1 | | TDRMTBM | - remote |
| (C) | 1... | | TDITBM | - (I/P) - task triggered |
| (C) |1.. | | * | Reserved |
| (C) |1. | | TDNOTRM | - (I/P) - DESTFAC=FILE |
| (C) |1 | | TDSYSYM | - (I/P) - DESTFAC=SYSTEM |
| (D) | UNSIGNED | 1 | * | - Reserved |
| (E) | HALFWORD | 2 | TDDCTELN | Entry length |
| (10) | CHARACTER | 12 | TDDCT_COMMON_STATS | |
| (10) | FULLWORD | 4 | TDDCT_WRITES | Number of writes |
| (14) | FULLWORD | 4 | TDDCT_READS | Number of reads |
| (18) | FULLWORD | 4 | TDDCT_DELETES | Number of deletes |
| (1C) | CHARACTER | 4 | TDDCT_TXN_NUMBER | Owning transaction number |
| (20) | CHARACTER | 20 | * | Associated queue |
| (20) | CHARACTER | 4 | TDDCTSYS | - N(remote system) |
| (24) | CHARACTER | 4 | TDDCTRID | - N(remote queue) |
| (28) | CHARACTER | 8 | TDRDOGRP | - RDO group identifier |
| (30) | HALFWORD | 2 | TDDCTRLN | - Default data length |
| (32) | HALFWORD | 2 | * | - Reserved |
| (34) | BIT(8) | 1 | TDTDSFLO | Type independent status |
| (34) | 1... | | TDDCT_ENABLED | - Enabled |
| (34) | .1.. | | TDDCT_DISABLING | - Disabling |
| (34) | ..1. | | TDDCT_DISABLED | - Disabled |

Table 90. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--|-----|-------------------|--|
| (34) | ...1 | | TDTRIGRM | - msg has been put out to warn that Trig Tranid=Remote |
| (34) | 1... | | TDATEFAIL | - msg has been put out to warn of Tran Attach Fail |
| (34) |1.. | | TDSCHFAI | - msg has been put out to warn of Tran Schedule Fail |
| (34) |1. | | TDUSFAIL | - msg has been put out to warn of US call failure |
| (34) |1 | | * | - Reserved |
| (35) | BIT(8) | 1 | TDTDSFL1 | Type dependent status - 1 |
| (36) | BIT(8) | 1 | TDTDSFL2 | Type dependent status - 2 |
| (37) | BIT(8) | 1 | TDTDSFL3 | Type dependent status - 3 |
| (38) | OBJECT | 64 | TDDCT_RES_SIG | Audit signature |
| (38) | CHARACTER | 64 | DFHAMSIG_INSTANCE | Audit signature |
| (38) | STRUCTURE IsA(DFHAMSIG_ DEFINE_ SIGNATURE) | 38 | DEFINE_SIGNATURE | Audit signature |
| (38) | CHARACTER | 8 | DEFINE_SOURCE | GROUP resource installed from |
| (40) | CHARACTER | 8 | DEFINE_TIME | Time resource defined |
| (48) | CHARACTER | 8 | CHANGE_TIME | Change/create time |
| (50) | CHARACTER | 8 | CHANGE_USERID | Change userid |
| (58) | UNSIGNED | 2 | CHANGE_AGENT | Change agent |
| (5A) | CHARACTER | 4 | AGENT_LEVEL | CICS level of change agent |
| (5E) | STRUCTURE IsA(DFHAMSIG_ INSTALL_ SIGNATURE) | 18 | INSTALL_SIGNATURE | Audit signature |
| (5E) | CHARACTER | 8 | INSTALL_TIME | Install/create time |
| (66) | CHARACTER | 8 | INSTALL_USERID | Install userid |
| (6E) | UNSIGNED | 2 | INSTALL_AGENT | Install agent |
| (70) | CHARACTER | 8 | * | Audit signature |
| (78) | FULLWORD | 4 | TDDCT_LM_TOKEN | LM Token for this DCT |
| (7C) | CHARACTER | 0 | * | |

DESTINATION CONTROL TABLE TABLE ENTRY
 --- INDIRECT DESTINATIONS ---
 --- --

Table 91.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 132 | TDDCTIND | |

Table 91. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--|-----|-------------------|-------------------------------|
| (0) | CHARACTER | 8 | * | Prefix |
| (8) | CHARACTER | 4 | * | Identification |
| (C) | BIT(8) | 1 | * | Attributes |
| (D) | UNSIGNED | 1 | * | Resource security level |
| (E) | HALFWORD | 2 | * | Entry length |
| (10) | CHARACTER | 16 | * | Common stats |
| (10) | FULLWORD | 4 | * | Statistics |
| (14) | FULLWORD | 4 | * | Statistics |
| (18) | FULLWORD | 4 | * | Statistics |
| (1C) | FULLWORD | 4 | * | Reserved |
| (20) | CHARACTER | 20 | * | Associated queue |
| (20) | CHARACTER | 4 | * | - N(remote system) |
| (24) | CHARACTER | 4 | * | - N(remote queue) |
| (28) | CHARACTER | 8 | * | - RDO group identifier |
| (30) | HALFWORD | 2 | * | - Default data length |
| (32) | HALFWORD | 2 | * | - Reserved |
| (34) | BIT(8) | 1 | * | Type independent status |
| (35) | BIT(8) | 1 | * | Type dependent status - 1 |
| (36) | BIT(8) | 1 | * | Type dependent status - 2 |
| (37) | BIT(8) | 1 | * | Type dependent status - 3 |
| (38) | OBJECT | 64 | * | Audit signature |
| (38) | CHARACTER | 64 | DFHAMSIG_INSTANCE | Audit signature |
| (38) | STRUCTURE IsA(DFHAMSIG_ DEFINE_ SIGNATURE) | 38 | DEFINE_SIGNATURE | Audit signature |
| (38) | CHARACTER | 8 | DEFINE_SOURCE | GROUP resource installed from |
| (40) | CHARACTER | 8 | DEFINE_TIME | Time resource defined |
| (48) | CHARACTER | 8 | CHANGE_TIME | Change/create time |
| (50) | CHARACTER | 8 | CHANGE_USERID | Change userid |
| (58) | UNSIGNED | 2 | CHANGE_AGENT | Change agent |
| (5A) | CHARACTER | 4 | AGENT_LEVEL | CICS level of change agent |
| (5E) | STRUCTURE IsA(DFHAMSIG_ INSTALL_ SIGNATURE) | 18 | INSTALL_SIGNATURE | Audit signature |
| (5E) | CHARACTER | 8 | INSTALL_TIME | Install/create time |
| (66) | CHARACTER | 8 | INSTALL_USERID | Install userid |
| (6E) | UNSIGNED | 2 | INSTALL_AGENT | Install agent |
| (70) | CHARACTER | 8 | * | Audit signature |

Table 91. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (78) | FULLWORD | 4 | * | LM Token for this DCT |
| (7C) | CHARACTER | 8 | * | Associated queue |
| (7C) | CHARACTER | 4 | TDDCTIDN | - N(indirect queue) |
| (80) | ADDRESS | 4 | * | Reserved |
| (84) | CHARACTER | 0 | * | |

DESTINATION CONTROL TABLE TABLE ENTRY
 --- REMOTE DESTINATIONS ---

Table 92.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---|-----|-------------------|-------------------------------|
| (0) | STRUCTURE | 124 | TDDCTREM | |
| (0) | CHARACTER | 8 | * | Prefix |
| (8) | CHARACTER | 4 | * | Identification |
| (C) | BIT(8) | 1 | * | Attributes |
| (D) | UNSIGNED | 1 | * | Resource security level |
| (E) | HALFWORD | 2 | * | Entry length |
| (10) | CHARACTER | 16 | * | Common stats |
| (10) | FULLWORD | 4 | * | Statistics |
| (14) | FULLWORD | 4 | * | Statistics |
| (18) | FULLWORD | 4 | * | Statistics |
| (1C) | FULLWORD | 4 | * | Reserved |
| (20) | CHARACTER | 20 | * | Associated queue |
| (20) | CHARACTER | 4 | * | - N(remote system) |
| (24) | CHARACTER | 4 | * | - N(remote queue) |
| (28) | CHARACTER | 8 | * | - RDO group identifier |
| (30) | HALFWORD | 2 | * | - Default data length |
| (32) | HALFWORD | 2 | * | - Reserved |
| (34) | BIT(8) | 1 | * | Type independent status |
| (35) | BIT(8) | 1 | * | Type dependent status - 1 |
| (36) | BIT(8) | 1 | * | Type dependent status - 2 |
| (37) | BIT(8) | 1 | * | Type dependent status - 3 |
| (38) | OBJECT | 64 | * | Audit signature |
| (38) | CHARACTER | 64 | DFHAMSIG_INSTANCE | Audit signature |
| (38) | STRUCTURE IsA(DFHAMSIG_ DEFINE_ SIGNATURE) | 38 | DEFINE_SIGNATURE | Audit signature |
| (38) | CHARACTER | 8 | DEFINE_SOURCE | GROUP resource installed from |
| (40) | CHARACTER | 8 | DEFINE_TIME | Time resource defined |
| (48) | CHARACTER | 8 | CHANGE_TIME | Change/create time |

Table 92. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--|-----|-------------------|----------------------------|
| (50) | CHARACTER | 8 | CHANGE_USERID | Change userid |
| (58) | UNSIGNED | 2 | CHANGE_AGENT | Change agent |
| (5A) | CHARACTER | 4 | AGENT_LEVEL | CICS level of change agent |
| (5E) | STRUCTURE IsA(DFHAMSIG_ INSTALL_ SIGNATURE) | 18 | INSTALL_SIGNATURE | Audit signature |
| (5E) | CHARACTER | 8 | INSTALL_TIME | Install/create time |
| (66) | CHARACTER | 8 | INSTALL_USERID | Install userid |
| (6E) | UNSIGNED | 2 | INSTALL_AGENT | Install agent |
| (70) | CHARACTER | 8 | * | Audit signature |
| (78) | FULLWORD | 4 | * | LM Token for this DCT |
| (7C) | CHARACTER | 0 | * | |

DESTINATION CONTROL TABLE TABLE ENTRY
 --- EXTRAPARTITION DESTINATIONS ---

Table 93.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 204 | TDDCTEXP | |
| (0) | CHARACTER | 8 | * | Prefix |
| (8) | CHARACTER | 4 | * | Identification |
| (C) | BIT(8) | 1 | * | Attributes |
| (D) | UNSIGNED | 1 | * | Resource security level |
| (E) | HALFWORD | 2 | * | Entry length |
| (10) | CHARACTER | 16 | * | Common stats |
| (10) | FULLWORD | 4 | * | Statistics |
| (14) | FULLWORD | 4 | * | Statistics |
| (18) | FULLWORD | 4 | * | Statistics |
| (1C) | FULLWORD | 4 | * | Reserved |
| (20) | CHARACTER | 20 | * | Associated queue |
| (20) | CHARACTER | 4 | * | - N(remote system) |
| (24) | CHARACTER | 4 | * | - N(remote queue) |
| (28) | CHARACTER | 8 | * | - RDO group identifier |
| (30) | HALFWORD | 2 | * | - Default data length |
| (32) | HALFWORD | 2 | * | - Reserved |
| (34) | BIT(8) | 1 | * | Type independent status |
| (35) | BIT(8) | 1 | TDEXSFL1 | Type dependent status - 1 |
| (35) | 1... | | TDEXOPIN | - OPEN = INITIAL |
| (35) | .111 1111 | | * | - Reserved |
| (36) | BIT(8) | 1 | TDEXSFL2 | Type dependent status - 2 |

Table 93. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--|-----|-------------------|-------------------------------|
| (36) | 1... | | TDEXOPIP | - OPEN in progress |
| (36) | .1.. | | TDEXOPEN | - OPEN |
| (36) | ..1. | | TDEXCLIP | - CLOSE in progress |
| (36) | ...1 | | TDEXCLOS | - CLOSED |
| (36) | 1... | | TDEXFEIP | - FEOV in progress |
| (36) |1.. | | TDEXDA | - Dynamically Allocated |
| (36) |1. | | TDEXPA | - Pre-allocated |
| (36) |1 | | TDEXASYO | - Allocated to SYSOUT |
| (37) | BIT(8) | 1 | TDEXSFL3 | Type dependent status - 3 |
| (37) | 1... | | TDEXNOSP | - NOSPACE raised |
| (37) | .1.. | | TDEXQZER | - QZERO raised |
| (37) | ..1. | | TDEXABND | - abend occurred |
| (37) | ...1 | | TDEXIOER | - I/O error occurred |
| (37) | 1111 | | * | - Reserved |
| (38) | OBJECT | 64 | * | Audit signature |
| (38) | CHARACTER | 64 | DFHAMSIG_INSTANCE | Audit signature |
| (38) | STRUCTURE IsA(DFHAMSIG_ DEFINE_ SIGNATURE) | 38 | DEFINE_SIGNATURE | Audit signature |
| (38) | CHARACTER | 8 | DEFINE_SOURCE | GROUP resource installed from |
| (40) | CHARACTER | 8 | DEFINE_TIME | Time resource defined |
| (48) | CHARACTER | 8 | CHANGE_TIME | Change/create time |
| (50) | CHARACTER | 8 | CHANGE_USERID | Change userid |
| (58) | UNSIGNED | 2 | CHANGE_AGENT | Change agent |
| (5A) | CHARACTER | 4 | AGENT_LEVEL | CICS level of change agent |
| (5E) | STRUCTURE IsA(DFHAMSIG_ INSTALL_ SIGNATURE) | 18 | INSTALL_SIGNATURE | Audit signature |
| (5E) | CHARACTER | 8 | INSTALL_TIME | Install/create time |
| (66) | CHARACTER | 8 | INSTALL_USERID | Install userid |
| (6E) | UNSIGNED | 2 | INSTALL_AGENT | Install agent |
| (70) | CHARACTER | 8 | * | Audit signature |
| (78) | FULLWORD | 4 | * | LM Token for this DCT |
| (7C) | BIT(8) | 1 | TDEXDISP | Disposition |
| (7C) | 1... | | TDEXSHR | - SHR |
| (7C) | .1.. | | TDEXOLD | - OLD |
| (7C) | ..1. | | TDEXMOD | - MOD |
| (7C) | ...1 1111 | | * | - reserved |

Table 93. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|----------------------------------|
| (7D) | BIT(8) | 1 | * | - reserved |
| (7E) | BIT(8) | 1 | * | - reserved |
| (7F) | CHARACTER | 1 | TD_EXTRA_SYSOUT_CLASS | - Sysout Class |
| (80) | CHARACTER | 44 | TDEXDSN | Data-set name |
| (AC) | CHARACTER | 16 | * | Associated SDSCI |
| (AC) | CHARACTER | 8 | TDEXNSDS | - N(real SDSCI) |
| (B4) | ADDRESS | 4 | TDEXASDS | - A(real SDSCI) |
| (B8) | ADDRESS | 4 | TDEXASDM | - A(model SDSCI) |
| (BC) | CHARACTER | 8 | * | Request processing chain |
| (BC) | FULLWORD | 4 | TD_EXTRA_Q_OWNER | - Identify transaction the owner |
| (C0) | ADDRESS | 4 | TDEXAWCB | - A(first MWCB) or 0 |
| (C4) | CHARACTER | 8 | TDEXMEMB | Member name if PDS |
| (CC) | CHARACTER | 0 | * | |

DESTINATION CONTROL TABLE TABLE ENTRY
 --- INTRAPARTITION DESTINATIONS ---

Table 94.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 280 | TDDCTINP | |
| (0) | CHARACTER | 8 | * | Prefix |
| (8) | CHARACTER | 4 | * | Identification |
| (C) | BIT(8) | 1 | * | Attributes |
| (D) | UNSIGNED | 1 | * | Resource security level |
| (E) | HALFWORD | 2 | * | Entry length |
| (10) | CHARACTER | 16 | * | Common stats |
| (10) | FULLWORD | 4 | * | Statistics |
| (14) | FULLWORD | 4 | * | Statistics |
| (18) | FULLWORD | 4 | * | Statistics |
| (1C) | FULLWORD | 4 | * | Reserved |
| (20) | CHARACTER | 20 | * | Associated queue |
| (20) | CHARACTER | 4 | * | - N(remote system) |
| (24) | CHARACTER | 4 | * | - N(remote queue) |
| (28) | CHARACTER | 8 | * | - RDO group identifier |
| (30) | HALFWORD | 2 | * | - Default data length |
| (32) | HALFWORD | 2 | * | - Reserved |
| (34) | BIT(8) | 1 | * | Type independent status |
| (35) | BIT(8) | 1 | TDINSFL1 | Type dependent status - 1 |
| (35) | 1... | | TDDCTSPR | - physically recoverable |
| (35) | .1.. | | TDDCTSLR | - logically recoverable |
| (36) | BIT(8) | 1 | * | Type dependent status - 2 |

Table 94. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--|-----|-----------------------|-------------------------------|
| (37) | BIT(8) | 1 | * | Type dependent status - 3 |
| (37) | 1... | | TDDCT_START_RBA_REC | Start RBA recovered |
| (37) | .1.. | | TDDCT_READ_RBA_REC | Read RBA recovered |
| (37) | ..1. | | TDDCT_WRITE_RBA_REC | Write RBA recovered |
| (37) | ...1 | | TDDCT_NUMELEMS_REC | Numelems recovered |
| (37) | 1... | | TDDCT_TDTIBM_REC | TDTIBM recovered |
| (37) |111 | | * | Reserved |
| (38) | OBJECT | 64 | * | Audit signature |
| (38) | CHARACTER | 64 | DFHAMSIG_INSTANCE | Audit signature |
| (38) | STRUCTURE IsA(DFHAMSIG_ DEFINE_ SIGNATURE) | 38 | DEFINE_SIGNATURE | Audit signature |
| (38) | CHARACTER | 8 | DEFINE_SOURCE | GROUP resource installed from |
| (40) | CHARACTER | 8 | DEFINE_TIME | Time resource defined |
| (48) | CHARACTER | 8 | CHANGE_TIME | Change/create time |
| (50) | CHARACTER | 8 | CHANGE_USERID | Change userid |
| (58) | UNSIGNED | 2 | CHANGE_AGENT | Change agent |
| (5A) | CHARACTER | 4 | AGENT_LEVEL | CICS level of change agent |
| (5E) | STRUCTURE IsA(DFHAMSIG_ INSTALL_ SIGNATURE) | 18 | INSTALL_SIGNATURE | Audit signature |
| (5E) | CHARACTER | 8 | INSTALL_TIME | Install/create time |
| (66) | CHARACTER | 8 | INSTALL_USERID | Install userid |
| (6E) | UNSIGNED | 2 | INSTALL_AGENT | Install agent |
| (70) | CHARACTER | 8 | * | Audit signature |
| (78) | FULLWORD | 4 | * | LM Token for this DCT |
| (7C) | CHARACTER | 20 | * | |
| (7C) | FULLWORD | 4 | TDDCTDQL | DEST TRIGGER LEVEL |
| (80) | CHARACTER | 4 | TDDCTTID | TRANS ID FOR ATI |
| (84) | CHARACTER | 4 | TDDCTTED | TERM ID FOR ATI |
| (88) | ADDRESS | 4 | TDDCTAAD | A(AID FOR ATI) |
| (8C) | FULLWORD | 4 | TDDCT_NO_TIMES_TRIGRD | #times triggered |
| (90) | CHARACTER | 8 | * | |
| (90) | FULLWORD | 4 | TDDCT_CURRENT_CIS | CIs allocated to Q. |
| (94) | FULLWORD | 4 | TDDCT_PEAK_CIS | Peak CIs allocated to this Q. |
| (98) | CHARACTER | 96 | * | |
| (98) | CHARACTER | 16 | * | |

Table 94. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------------|--------------------------------------|
| (98) | FULLWORD | 4 | TDDCT_COMMITTED_ START_RBA | |
| (9C) | FULLWORD | 4 | TDDCT_COMMITTED_ WRITE_RBA | |
| (A0) | FULLWORD | 4 | TDDCT_COMMITTED_ READ_RBA | |
| (A4) | FULLWORD | 4 | TDDCT_COMMITTED_ NUMELEMS | |
| (A8) | CHARACTER | 16 | * | |
| (A8) | ADDRESS | 4 | TDDCT_READ_TDQUB_PTR | -> to TDQUB |
| (AC) | FULLWORD | 4 | * | Reserved |
| (B0) | CHARACTER | 8 | TDDCT_UOW_OWNING_ READ_NQ | Owning UOWID |
| (B8) | CHARACTER | 16 | * | |
| (B8) | ADDRESS | 4 | TDDCT_WRITE_TDQUB_PTR | -> to TDQUB |
| (BC) | FULLWORD | 4 | * | Reserved |
| (C0) | CHARACTER | 8 | TDDCT_UOW_OWNING_ WRITE_NQ | Owning UOWID |
| (C8) | CHARACTER | 33 | * | |
| (C8) | CHARACTER | 8 | TDDCT_PR_Q_LOG_STCK | Time PR Q log record written |
| (D0) | CHARACTER | 8 | TDDCT_PR_START_RBA_ REC_STCK | Time start RBA recovered |
| (D8) | CHARACTER | 8 | TDDCT_PR_READ_RBA_ REC_STCK | Time read RBA recovered |
| (E0) | CHARACTER | 8 | TDDCT_PR_WRITE_RBA_ REC_STCK | Time write RBA recovered |
| (E8) | BIT(8) | 1 | TDDCT_PR_LOG_RECORD_ TYPE | Record type |
| (E8) | 1... | | TDDCT_READQ | READQ |
| (E8) | .1.. | | TDDCT_WRITEQ | WRITEQ |
| (E8) | ..1. | | TDDCT_DELETEQ | DELETEQ |
| (E8) | ...1 | | TDDCT_FIRST_WRITEQ | First write |
| (E8) | 1111 | | * | Reserved |
| (E9) | CHARACTER | 3 | * | |
| (E9) | BIT(8) | 1 | TDDCT_FLAGS | Flag byte |
| (E9) | 1... | | * | Reserved |
| (E9) | .1.. | | TDDCT_UNCOMMIT_DATA_ WRITTEN | Uncommitted data written to queue |
| (E9) | ..1. | | TDDCT_Q_INDOUBT | Q indoubt |
| (E9) | ...1 1111 | | * | Reserved |
| (EA) | CHARACTER | 2 | * | Reserved |
| (EC) | ADDRESS | 4 | TDDCT_SUSPEND_TOKEN | DSSR suspnd token |
| (F0) | CHARACTER | 8 | * | |

Table 94. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|---|
| (F0) | ADDRESS | 4 | TDDCTFCN | - A(FIRST MQCB) |
| (F4) | ADDRESS | 4 | TDDCTBCN | - A(LAST MQCB) |
| (F8) | CHARACTER | 8 | * | DCTE request chain |
| (F8) | FULLWORD | 4 | TD_INTRA_Q_OWNER | - owning transaction identifier |
| (FC) | ADDRESS | 4 | TDINAWCB | - A(first MWCB) or 0 |
| (100) | FULLWORD | 4 | TDDCT_INTRA_USE_COUNT | Use count |
| (104) | ADDRESS | 4 | * | Reserved |
| (108) | CHARACTER | 4 | * | |
| (108) | BIT(8) | 1 | TDDCT_INDOUBT | Indoubt option for LR Q's |
| (108) | 1... | | TDDCT_REJECT | Reject |
| (108) | .1.. | | TDDCT_HEURISTIC | Heuristic |
| (108) | ..1. | | TDDCT_QUEUE | Queue |
| (108) | ...1 1111 | | * | Reserved |
| (109) | BIT(8) | 1 | * | Reserved Userid data for ..non-terminal ATI |
| (10A) | BIT(8) | 1 | TDDCTFLC | Userid data status |
| (10A) | 1... | | TDDCTUOK | - TDDCTUOK is set for use |
| (10A) | .111 1111 | | * | - Reserved |
| (10B) | UNSIGNED | 1 | TDDCTUIL | Length of userid - x'0' with default userid |
| (10C) | CHARACTER | 8 | TDDCTUID | Userid - x'0' with default userid |
| (114) | UNSIGNED | 4 | TDDCTUTK | User token - x'0' with default userid |
| (118) | CHARACTER | 0 | * | |

DESTINATION CONTROL TABLE TABLE ENTRY
 --- SDSCI ---

Table 95.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 196 | DCTSDSPS | |
| (0) | CHARACTER | 40 | * | |
| (0) | FULLWORD | 4 | DCTSDSLN | length of SDSCI et al |
| (4) | ADDRESS | 4 | DCTSDSQP | A(owning DCTE) or 0 |
| (8) | ADDRESS | 4 | DCTSDSRP | A(real SDSCI) or 0 |
| (C) | CHARACTER | 8 | DCTSDSOC | OPEN/CLOSE words |
| (C) | UNSIGNED | 1 | DCTSDSOO | - open options |
| (D) | ADDRESS | 3 | * | - A(0) |
| (10) | ADDRESS | 4 | DCTSDSDA | - A(DCB) |
| (14) | BIT(8) | 1 | DCTSDRW | REWIND status |
| (14) | 1... | | DCTSDSLE | - LEAVE |

Table 95. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (14) | .1.. | | DCTSDSRE | - REREAD |
| (14) | ..11 1111 | | * | - Reserved |
| (15) | BIT(8) | 1 | DCTSDTF | TYPEFLE status |
| (15) | 1... | | DCTSDSOP | - OUTPUT |
| (15) | .1.. | | DCTSDSIP | - INPUT |
| (15) | ..1. | | DCTSDSRB | - RDBACK |
| (15) | ...1 1111 | | * | - Reserved |
| (16) | BIT(8) | 1 | * | Reserved |
| (17) | BIT(8) | 1 | * | Reserved |
| (18) | BIT(8) | 1 | DCTSDSRF | record format |
| (18) | 11.. | | DCTSDSUF | - undefined format |
| (18) | 1... | | DCTSDSFF | - fixed format |
| (18) | .1.. | | DCTSDSVF | - variable format |
| (18) | ..1. | | * | - Reserved (refer to IHADCB) |
| (18) | ...1 | | DCTSDSBR | - blocked records |
| (18) | 1... | | * | - Reserved (refer to IHADCB) |
| (18) |1.. | | DCTSDSCA | - ASA control char |
| (18) |1. | | DCTSDSCM | - machine control char |
| (18) |1 | | * | - Reserved (refer to IHADCB) |
| (19) | BIT(8) | 1 | * | Reserved |
| (1A) | HALFWORD | 2 | DCTSDSBL | block length |
| (1C) | HALFWORD | 2 | DCTSDSRL | (maximum) record length |
| (1E) | HALFWORD | 2 | * | - Reserved |
| (20) | ADDRESS | 4 | DCTDIAA | Address of Shadow Buffer |
| (24) | HALFWORD | 2 | DCTDIAL | Length of Shadow Buffer |
| (26) | HALFWORD | 2 | * | Reserved |
| (28) | CHARACTER | 4 | * | DCB abend exit data |
| (28) | BIT(16) | 2 | DCTSDSCC | - system completion code held in the first 12 bits |
| (2A) | UNSIGNED | 1 | DCTSDRC | - return code completion code qualifier |
| (2B) | BIT(8) | 1 | DCTSDOM | - options mask |
| (2B) | 1... | | * | - Reserved |
| (2B) | .1.. | | * | - Reserved |
| (2B) | ..1. | | * | - Reserved |
| (2B) | ...1 | | * | - Reserved |
| (2B) | 1... | | DCTSDOMR | - OK to recover |
| (2B) |1.. | | DCTSDOMI | - OK to ignore |

Table 95. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (2B) |1. | | DCTSDOMD | - OK to delay |
| (2B) |1 | | * | - Reserved |
| (2C) | CHARACTER | 96 | DCTSDDCB | DCB DCB DDNAME=TRANDATA, DSORG=PS, MACRF=(GL, PL) |
| (8C) | CHARACTER | 56 | DCTSDDCBE | DCBE (DCB Extension) IHADCBE |
| (C4) | CHARACTER | 0 | * | |

Constants

Table 96.

| Len | Type | Value | Name | Description |
|-----|-----------|----------|----------------|-------------|
| 8 | CHARACTER | >TDQUEUE | TDQUEUE_PREFIX | |

DIB - Data interchange block

DESCRIPTIVE NAME = CICS TS Data Interchange Block

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FUNCTION = Maintain the status of a data interchange session.

The DIB is chained off the TCTTE. It is acquired by the first DIP request in a transaction, and is freed at transaction termination.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

REGISTER CONVENTIONS = Not applicable

PATCH LABEL = None

MODULE TYPE = MACRO DEFINING A DSECT

MODULE SIZE = Not applicable

ATTRIBUTES = Not applicable

ENTRY POINT = Not applicable

PURPOSE = Not applicable

LINKAGE = Not applicable

INPUT = Not applicable

OUTPUT = Not applicable

EXIT-NORMAL = Not applicable

EXIT-ERROR = Not applicable

EXTERNAL REFERENCES = None

CONTROL BLOCKS = Defines DIB Control Block

TABLES = None

MACROS = None

Table 97.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 0 | DFHDIBDS | |
| (0) | HALFWORD | 2 | DIBSCFGS | STORAGE ACCOUNTING AREA |
| (2) | HALFWORD | 2 | DIBSCNTL | STORAGE LENGTH |

Table 97. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|------------------------------------|
| (4) | HALFWORD | 2 | DIBTSLGN | LENGTH TO OUTPUT FOR TS |
| (6) | HALFWORD | 2 | DIBTSRES | TS RESERVED= ZERO |
| (8) | FULLWORD | 4 | DIBSENSE (0) | Sense code areas |
| (8) | HALFWORD | 2 | DIBSSI | SYSTEM SENSE AREA |
| (A) | HALFWORD | 2 | DIBUSI | USER SENSE AREA |
| (C) | FULLWORD | 4 | DIBDIRRD | ACTUAL RETURNED RECORD ID |
| NOTE THAT THESE FLAGS ARE SET IN COMBINATION: DIBIFDSO + DIBIFDSS = 00 NOT ACTIVE NOT SUSPENDED = 10 ACTIVE NOT SUSPENDED = 11 ACTIVE BUT SUSPENDED (01 NEVER SET CODE RELIES ON THIS) | | | | |
| (10) | BITSTRING | 1 | DIBIFSEL | SELECTION FLAGS |
| (10) | 1... | | DIBIFDSO | "X'80" OUTBOARD SELECTED |
| (10) | ..1. | | DIBIFDSS | "X'20" DSN SUSPENDED |
| (10) | ...1 | | DIBIFDAO | "X'10" OUTBOARD ABORTED(NOT REQ) |
| (10) | 1... | | DIBIFDSI | "X'08" INBOUND SELECTED |
| (10) |1.. | | DIBIFDIN | "X'04" SOME INPUT DONE |
| (10) |1. | | DIBIFDIS | "X'02" INPUT SUSPENDED |
| (10) |1 | | DIBIFDAI | "X'01" INBOARD ABORTED(NOT REQ) |
| (11) | BITSTRING | 1 | DIBIFOSL | OLD SELECT |
| (12) | BITSTRING | 1 | DIBIFOSP | OLD PROFILE SAME FLAGS AS DIBDIFL2 |
| (14) | HALFWORD | 2 | (0) | FORCE ALIGNMENT FOR ... |
| (14) | BITSTRING | 1 | DIBNICFN | CURRENT FUNCTION |
| (15) | BITSTRING | 1 | DIBNINRS | CURRENT NUMREC VALUE |
| INPUT DESTINATION LATEST FMH (STATUS) THIS IS A COPY OF THE BEGIN FMH RECEIVED ON INPUT USE FMH DSECT TO OVERLAY FIELDS | | | | |
| (16) | BITSTRING | 1 | DIBIFMLN | LENGTH OF FMH (TO DIBDNAM) |
| (17) | BITSTRING | 1 | DIBIFMTY | FMH TYPE(1, 2, 3 ETC) |
| (18) | BITSTRING | 1 | DIBIMSB | MEDIA SELECTION FIELD |

Table 97. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--|
| BIT 0 RESERVED BIT 1-3 FOLLOWING VALUES: 000 CONSOLE 010 CARD 011 PRINT 100 DISK 110 PDS BIT 4-7 LOG SUBADDRESS | | | | |
| (19) | BITSTRING | 1 | DIBISRI (0) | BIT 0 SRI |
| (19) | BITSTRING | 1 | DIBIDSEL (0) | BIT 1 DEMAND SELECT |
| (19) | BITSTRING | 1 | DIBIDSP (0) | BITS 4-7 DATA STREAM PROFILE |
| (19) | BITSTRING | 1 | DIBIDDSP | DEMAND SEL/DS PROFILE/SRI |
| (1A) | BITSTRING | 1 | DIBIDSF | DESTINATION SELECTION FIELD |
| (1B) | BITSTRING | 1 | DIBIERCI | EXCHANGE RECORD LENGTH |
| (1C) | BITSTRING | 1 | DIBIRSV2 (2) | RESERVED |
| (1E) | BITSTRING | 1 | DIBIDNL | LENGTH OF DSN |
| (1F) | CHARACTER | 8 | DIBIDNAM | MAXIMUM OF EIGHT CHARACTERS DSN NAME |
| (27) | BITSTRING | 1 | DIBISDNL | SAVED PREVIOUS LENGTH, DESTINATION, NAME |
| OUTPUT DESTINATION LATEST FMH (STATUS) THIS IS A COPY OF THE BEGIN FMH FIRST OUTPUT USE FMH DSECT TO OVERLAY FIELDS | | | | |
| (28) | BITSTRING | 1 | DIBFMHLN | LENGTH OF FMH (TO DIBDNAM) |
| (29) | BITSTRING | 1 | DIBFMHTY | FMH TYPE(1, 2, 3 ETC) |
| (2A) | BITSTRING | 1 | DIBMSB | MEDIA SELECTION FIELD |
| BIT 0 RESERVED BIT 0-3 FOLLOWING VALUES: 0000 CONSOLE 0010 CARD 0011 PRINT 0100 DISK 0101 EXTENDED DOCUMENT 0110 PDS 1000 WORD PROCESSING MEDIUM 1 1001 WORD PROCESSING MEDIUM 2 1010 WORD PROCESSING MEDIUM 3 1100 WORD PROCESSING MEDIUM 4 1101 NCI BIT 4-7 LOG SUBADDRESS | | | | |
| (2B) | BITSTRING | 1 | DIBSRI (0) | BIT 0 SRI |
| (2B) | BITSTRING | 1 | DIBDESEL (0) | BIT 1 DEMAND SELECT |
| (2B) | BITSTRING | 1 | DIBDSP (0) | BITS 4-7 DATA STREAM PROFILE |
| VALUES OF THE DATA STREAM PROFILE | | | | |

Table 97. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------------|-----------|-----|--------------|---|
| (2B) | .... .... |  | DIBDSPDE | "X'00'" DEFAULT |
| (2B) |1 | | DIBDSPBA | "X'01'" BASE |
| (2B) |11 | | DIBDSPJB | "X'03'" JOB DSP |
| (2B) |1.. | | DIBDSPRW | "X'04'" WP RAW |
| (2B) |11. | | DIBDSP11 | "X'06'" OII LEVEL 1 |
| (2B) |111 | | DIBDSP12 | "X'07'" OII LEVEL 2 |
| (2B) | 1... | | DIBDSP13 | "X'08'" OII LEVEL 3 |
| VALUES X'09' TO X'0F' RESERVED | | | | |
| (2B) | BITSTRING | 1 | DIBDSDSP | DEMAND SEL/DS PROFILE/SRI |
| (2C) | BITSTRING | 1 | DIBDSF | DESTINATION SELECTION FIELD |
| (2D) | BITSTRING | 1 | DIBERCI | EXCHANGE RECORD LENGTH |
| (2E) | BITSTRING | 1 | DIBRSVD2 (2) | RESERVED |
| (30) | BITSTRING | 1 | DIBDNL | LENGTH OF DSN |
| (31) | CHARACTER | 8 | DIBDNAM | MAXIMUM OF EIGHT CHARACTERS DSN NAME |
| (39) | BITSTRING | 1 | DIBVNL | LENGTH OF VOLUME |
| (3A) | CHARACTER | 6 | DIBVNAM | MAXIMUM SIX CHARACTER VOLUME ID |
| (40) | BITSTRING | 1 | DIBKYL | SAVED KEY LENGTH |
| (41) | CHARACTER | 64 | DIBKYD | SAVED KEY FOR RETRANSMIT |
| (88) | DBL WORD | 8 | (0) | |

DHDDS - Doctemplate Resource Statistics

CONTROL BLOCK NAME = DFHDHDDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHDHDP
DESCRIPTIVE NAME = CICS TS Doctemplate Resource Statistics
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FUNCTION =

This data area contains the doctemplate resource statistics provided by the Document Handler Domain. It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit. There is a single instance of this data block.

LIFETIME =

This data block is created by the Document Handler domain to store statistics to be passed to the user in response to a request for doctemplate statistics. The storage is released when the user task is detached. The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS = Task
LOCATION = S/370
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHDHDDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 98.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|---------------------------------|
| (0) | STRUCTURE | 0 | DFHDHDDS | Doctemplate Resid stats record |
| (0) | HALFWORD | 2 | DHDDS_LEN | Doctemplate stats record length |
| (2) | ADDRESS | 2 | DHDDS_ID | Doctemplate stats id |
| (4) | CHARACTER | 1 | DHDDS_VERS | Doctemplate stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | DHD_DOCTEMPLATE_NAME | Doctemplate name |
| (10) | BITSTRING | 1 | DHD_TEMPLATE_TYPE | Doctemplate type |
| (11) | BITSTRING | 1 | DHD_APPEND_CRLF | Doctemplate append crlf |
| (12) | BITSTRING | 1 | DHD_TEMPLATE_CONTENTS | Doctemplate contents |
| (13) | BITSTRING | 1 | | Reserved |
| (14) | CHARACTER | 48 | DHD_TEMPLATE_NAME | Doctemplate template name |
| (44) | BITSTRING | 8 | | Reserved |
| (4C) | CHARACTER | 8 | DHD_TEMPLATE_EXIT_PROGRAM | Template exit program name |
| (54) | CHARACTER | 8 | DHD_TEMPLATE_FILE_NAME | Template file name |
| (5C) | CHARACTER | 8 | DHD_TEMPLATE_PROGRAM_NAME | Template program name |
| (64) | CHARACTER | 8 | DHD_TEMPLATE_PDS_MEMBER | Template PDS member |
| (6C) | BITSTRING | 8 | | Reserved |
| (74) | CHARACTER | 8 | DHD_TEMPLATE_PDS_DDNAME | Template PDS ddname |
| (7C) | CHARACTER | 44 | DHD_TEMPLATE_PDS_DSNAME | Template PDS dsname |
| (A8) | BITSTRING | 4 | | Reserved |
| (AC) | CHARACTER | 4 | DHD_TEMPLATE_TDQUEUE_NAME | Template tdqueue name |
| (B0) | CHARACTER | 16 | DHD_TEMPLATE_TSQUEUE_NAME | Template tsqueue name |
| (C0) | BITSTRING | 8 | | Reserved |
| (C8) | CHARACTER | 255 | DHD_TEMPLATE_HFSFILE_NAME | Template hfsfile name |
| (1C7) | BITSTRING | 1 | | Reserved |
| (1C8) | BITSTRING | 4 | DHD_TEMPLATE_CACHE_SIZE | Template cache size |
| (1CC) | BITSTRING | 4 | DHD_TEMPLATE_USE_COUNT | Template use count |
| (1D0) | BITSTRING | 4 | DHD_TEMPLATE_NEWCOPIES | Template newcopy count |

Table 98. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------------------|--|
| (1D4) | BITSTRING | 4 | DHD_TEMPLATE_READ_COUNT | Template read count |
| (1D8) | BITSTRING | 4 | DHD_TEMPLATE_CACHE_USED | Template cache copy used |
| (1DC) | BITSTRING | 4 | DHD_TEMPLATE_CACHE_DELETED | Template cache deleted |
| (1E0) | BITSTRING | 16 | | Reserved |
| (1F0) | CHARACTER | 8 | DHD_TEMPLATE_DEFINE_SOURCE | Group installed from |
| (1F8) | BITSTRING | 8 | DHD_TEMPLATE_CHANGE_TIME | Change/create time |
| (200) | CHARACTER | 8 | DHD_TEMPLATE_CHANGE_USERID | Change userid |
| (208) | BITSTRING | 2 | DHD_TEMPLATE_CHANGE_AGENT | Change agent |
| (20A) | BITSTRING | 2 | DHD_TEMPLATE_INSTALL_AGENT | Install agent |
| (20C) | BITSTRING | 8 | DHD_TEMPLATE_INSTALL_TIME | Install/Create time |
| (214) | CHARACTER | 8 | DHD_TEMPLATE_INSTALL_USERID | Install userid |
| (214) | | 0 | DHDDS_END | "*" |
| (214) | | 0 | DHDDS_LENGTH | "*-DHDDS_LEN" Doctemplate record length |
| Constants that denote a DH doctemplate stats record | | | | |
| (214) | .111 | | DHDIDR | "112" Doctemplate resid stats id |
| (214) |1 | | DHD_VERS | "X'01" Record version number |
| (214) |1 | | DHD_TYPE_EXIT_PROGRAM | "X'01" Template Type - Exit Program |
| (214) |1. | | DHD_TYPE_FILE | "X'02" Template Type - File |
| (214) |11 | | DHD_TYPE_PDS_MEMBER | "X'03" Template Type - PDS Member |
| (214) |1.. | | DHD_TYPE_PROGRAM | "X'04" Template Type - Program |
| (214) |1.1 | | DHD_TYPE_TDQUEUE | "X'05" Template Type - Tdqueue |
| (214) |11. | | DHD_TYPE_TSQUEUE | "X'06" Template Type - Tsqueue |
| (214) |111 | | DHD_TYPE_HFSFILE | "X'07" Template Type - Hfsfile |
| (214) |1 | | DHD_APPEND_CRLF_NO | "X'01" Append crlf - No |
| (214) |1. | | DHD_APPEND_CRLF_YES | "X'02" Append crlf - Yes |
| (214) |1 | | DHD_CONTENTS_BINARY | "X'01" Doctemplate Contents - Binary |
| (214) |1. | | DHD_CONTENTS_EBCDIC | "X'02" Doctemplate Contents - EbcDic Change Agents |

Table 98. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|---------------------|-------------------------------|
| (214) |1 | | DHD_CSDAPI_CHANGE | "0001" CSD API |
| (214) |1. | | DHD_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (214) |11 | | DHD_DREPAPI_CHANGE | "0003" DREP API |
| (214) |1.. | | DHD_CREATE_CHANGE | "0004" EXEC CREATE SPI |
| (214) | 1... | | DHD_DYNAMIC_CHANGE | "0008" DYNAMIC Install Agents |
| (214) |1 | | DHD_CSDAPI_INSTALL | "0001" CSD API |
| (214) |1.. | | DHD_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (214) |1.1 | | DHD_GRPLIST_INSTALL | "0005" GRPLIST |
| (214) | 1... | | DHD_DYNAMIC_INSTALL | "0008" DYNAMIC |

DHTX - Document Handler Template EXITPGM interface

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DFHDHTX COPY

This copybook contains the interface definition for the user-replaceable program specified in an EXITPGM type of template.

The following input parameters are passed to the user program in a standard CICS commarea:

dhtx_length

The halfword binary length of the entire parameter list.

dhtx_eyecatcher

A 13-character eyecatcher, set to '>DFHDHTXPARMS'.

dhtx_version

A one-byte character version number of the parameter list, currently set to '0'.

dhtx_buffer_ptr

The address of a CICS-provided buffer in which the EXITPGM must return the data that is to become the template.

dhtx_buffer_len

The fullword binary length of the buffer addressed by dhtx_buffer_ptr .

dhtx_template_name_ptr

The address of the 48-character name of the template for which this EXITPGM is being executed.

dhtx_append_crlf

A one-byte character field that indicates whether the APPENDCRLF option was specified for this template. It is set to '1' if the option was specified, and to '0' otherwise.

The following output parameters must be set by the EXITPGM:

dhtx_template_len

The fullword binary length of the template being returned in the buffer addressed by dhtx_buffer_ptr . This value should be the size actually required for the template, even if it exceeds dhtx_buffer_len (although the data moved into the buffer must

not exceed that length). If dhtx_template_len exceeds dhtx_buffer_len , the EXITPGM will be re-driven with a larger buffer.

dhtx_return_code

A fullword binary return code that indicates whether the EXITPGM was successful. It should be one of:

0 Indicates successful completion. A valid template, or a template truncated to fit the supplied buffer, has been returned.

8 Indicates failure. No valid template has been returned.

dhtx_cache_response

Optionally, a one-byte character field that indicates whether CICS should save the returned template in its cache storage. It should be set to '1' if the contents returned are the same each time the exit is called, but should be left as '0' if the contents may be different each time. If the value is set to '1', the exit should not be called again unless a SET DOCTEMPLATE NEWCOPY is performed. (In practice, the exit may be called three times, first to set this flag, second to obtain the size of cache buffer to use, and finally to save the result into the cache buffer.)

dhtx_message_ptr

Optionally, the address of a message that explains why the EXITPGM was unsuccessful. CICS writes this message to the CSDH transient data destination.

dhtx_message_len

The fullword binary length of the message addressed by dhtx_message_ptr , if one is provided.

Table 99.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|-----------------------------|
| (0) | STRUCTURE | 48 | DHTX_PLIST | Template EXITPGM plist |
| (0) | CHARACTER | 16 | DHTX_PREFIX | Parameter list prefix |
| (0) | HALFWORD | 2 | DHTX_LENGTH | Length of parameter list |
| (2) | CHARACTER | 13 | DHTX_EYECATCHER | >DFHDHTXPARMS eyecatcher |
| (F) | CHARACTER | 1 | DHTX_VERSION | Version number of plist |
| (10) | ADDRESS | 4 | DHTX_BUFFER_PTR | Template buffer address |
| (14) | FULLWORD | 4 | DHTX_BUFFER_LEN | Template buffer length |
| (18) | FULLWORD | 4 | DHTX_TEMPLATE_LEN | Actual length of template |
| (1C) | FULLWORD | 4 | DHTX_RETURN_CODE | Return code |
| (20) | ADDRESS | 4 | DHTX_TEMPLATE_NAME_PTR | Ptr to 48-char name |
| (24) | CHARACTER | 4 | DHTX_TEMPLATE_FLAGS | Template flags |
| (24) | CHARACTER | 1 | DHTX_APPEND_CRLF | '1' Append. '0' Don't. |
| (25) | CHARACTER | 1 | DHTX_CACHE_RESPONSE | '1' Save in CICS's cache |
| (28) | ADDRESS | 4 | DHTX_MESSAGE_PTR | Message pointer |
| (2C) | FULLWORD | 4 | DHTX_MESSAGE_LEN | Message length |

DJEPC - Enterprise Java Commarea Event

Table 100.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-------------|
| (0) | STRUCTURE | 278 | EJDE_COMMAREA | |
| (0) | CHARACTER | 32 | EJDE_DJAR | |
| (20) | UNSIGNED | 1 | EJDE_EVENTCODE | |
| (21) | UNSIGNED | 1 | EJDE_EVENTTYPE | |
| (22) | CHARACTER | 4 | EJDE_CORBASERVER | |
| (26) | CHARACTER | 240 | EJDE_BEANNAME | |

Constants

Table 101.

| Len | Type | Value | Name | Description |
|-----|---------|-------|------------------------|-------------|
| 1 | DECIMAL | 1 | EJDE_EVENTTYPE_INFO | |
| 1 | DECIMAL | 2 | EJDE_EVENTTYPE_WARNING | |
| 1 | DECIMAL | 3 | EJDE_EVENTTYPE_ERROR | |

SPI - Task Local Storage Definition

DESCRIPTIVE NAME = CICS TS Resource Definition Online
Task Local Storage definition.
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SPI Task Local Storage definition.
USE:
IN CICS:
AMP, DMP and PUP (PPT programs).
IN BATCH:
All modules subordinate to
and including DFHCUCP.
ADDRESSABILITY:
IN CICS:
BASED on TCADMTLA field in TCA.
IN BATCH:
BASED on DMTLA, passed as a parameter to all modules
subordinate to DFHCUCP.
SIZE:
Size is length of structure DFHDMTSL.
OBTAINED:
IN CICS:
by DFHDMP03 adaptor, via:
DFHDMP router, via:
DFHAMPFI routine, via:
DFHAMP router.
IN BATCH:
by DFHDMP05 adaptor, via:
DFHCUCP.
FREED
IN CICS:

by DFHAMPEN routine called by AMP.
IN BATCH:
by DFHDMP05 adaptor, via:
DFHCUCP.

Table 102.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (0) | STRUCTURE | 312 | DFHDMTLS | |
| Address of KWA chain. Number of links in KWA chain. | | | | |
| (0) | ADDRESS | 4 | TLPTR1 | |
| (4) | FULLWORD | 4 | TLEN1 | |
| Primary CSD control record. In-store address. Length of In-store primary record structure: Containing duplicate record. | | | | |
| (8) | ADDRESS | 4 | TLPTR2 | |
| (C) | FULLWORD | 4 | TLEN2 | |
| LD table address. | | | | |
| (10) | ADDRESS | 4 | TLPTR3 | |
| TLSYSID (Batch only): Operating System (MVS or DOS) FCxxxx (initialisation only) FCT values to be restored on CSD close. | | | | |
| (14) | CHARACTER | 4 | TLSYSID | |
| (14) | 1... | | FCADD | remember fct value |
| (14) | .1.. | | FCUPDATE | ditto for update |
| (14) | ..1. | | FCDELETE | and delete |
| Miscellaneous global fields (a) for DFHAMP (CICS) (b) for DFHCSDUP (batch) | | | | |
| (18) | CHARACTER | 20 | GLOBMISC | |
| (18) | ADDRESS | 4 | * | Was AMARGANC DFHCSDUP misc globals |
| (18) | BIT(8) | 1 | TLCUBITS | Flag bits |
| (18) | 1... | | TLMSGOFF | Suppress msgs.from BEP |
| (18) | .1.. | | TLRDCICS | Processing CICS-supplied resource definition list |
| (18) | ..1. | | TLRDTMIG | Processing migrated RDT |
| (18) | ...1 | | TLUPGUSG | Processing UPGRADE USING |
| (18) | 1... | | TLIGNOIW | Ignore I and W msgs |
| (18) |1.. | | TLPCURDD | Processing CURDD/CURDN |
| (18) |1. | | TLUSRDEF | Userdefine command |
| (18) |1 | | TLGENGAL | Generic group alter |
| (19) | BIT(8) | 1 | * | Reserved |
| (19) | 1... | | TLALOBKY | Allow obsolete keywords |
| (19) | .111 1111 | | * | Spare |
| (1A) | HALFWORD | 2 | TLKEYNUM | Current keyword number AMP anchors (Continued) |

Table 102. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (1C) | ADDRESS | 4 | AMERRANC | Anchor for error msgs |
| (20) | ADDRESS | 4 | SYSTEMER | Internal msg anchor |
| (24) | ADDRESS | 4 | AMDISANC | Display block anchor |
| (28) | ADDRESS | 4 | TLARGOPT | Current argument 0 ptr |
| Task-local variables for DFHTOR (Terminal Object Resolution). TRCURSTA records the current (summary) state of data type TR tr_current_state : <initial, luip, eg1, eg2, error> | | | | |
| (2C) | HALFWORD | 2 | TRCURSTA | |
| (2E) | HALFWORD | 2 | * | Reserved for alignment TRSTATUS is used by all the modules that implement TR. TRSTATUS is used to indicate exceptional conditions as they |
| (30) | CHARACTER | 8 | TRSTATUS | arise. |
| (30) | FULLWORD | 4 | TRRESP | TR-global response code. |
| (34) | FULLWORD | 4 | TRREASON | TR-global reason code. |
| The following 11 variables are in "tr_state". They represent mappings from names to either a) other names or b) resource definitions. The data length of each (CHAR(20)) is dependent upon the implementation as encoded in DFHTOMAC etc. | | | | |
| (38) | CHARACTER | 20 | MMNDX | autodefine models tt_ndx : MAP OF (ttid, ttdef) |
| (4C) | CHARACTER | 20 | TTNDX | TYPTERM names, defns. tm_ndx : MAP OF (tmid, tmdef) |
| (60) | CHARACTER | 20 | TMNDX | CICS tmids tm_use : MAP OF (tmid, ttid) |
| (74) | CHARACTER | 20 | TMUSE | TYPTERM references. pt_ndx : MAP OF (tmid, ptdef) |
| (88) | CHARACTER | 20 | PTNDX | pooled TERMINALs pt_use : MAP OF(tmid, ttid) |
| (9C) | CHARACTER | 20 | PTUSE | TYPTERM references cn_ndx : MAP OF(cnid, cndefr) |
| (B0) | CHARACTER | 20 | CNNDX | CONNECTIONs se_ndx : MAP OF(seid, sedefr) |
| (C4) | CHARACTER | 20 | SENDX | SESSIONS se_use : MAP OF(seid, cnid) |
| (D8) | CHARACTER | 20 | SEUSE | SESSIONS references |
| End of DFHTOR-specific variables. | | | | |
| AMP EXPAND\|DISPLAY BROWSE SPECIFIC KEYWORDS | | | | |
| (EC) | CHARACTER | 32 | * | BROWSE work area |
| (EC) | BIT(8) | 1 | * | Status flags |

Table 102. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------|--------------------------------|
| (EC) | 1... | | * | Reserved |
| (EC) | .1.. | | EXPANDAC | EXPAND active |
| (EC) | ..1. | | EXPANDNX | SET TO 1 WHEN 1ST NEXT IS OK * |
| (EC) | ...1 | | DISPLYAC | DISPLAY active |
| (EC) | 1... | | RMREGTRD | Have registered with RM |
| (EC) |1.. | | CREATCOM | Create command |
| (EC) |1. | | POOLINPR | Terminal pool in progress |
| (EC) |1 | | CONNINPR | Connection in progress |
| (ED) | BIT(8) | 1 | * | More flags |
| (ED) | 1... | | INSTACOM | Install command |
| (ED) | .1.. | | TLS_COUNTED | CSZCSDCT incremented |
| (ED) | ..1. | | TLS_USRID_X | Userid specified on SPI |
| (ED) | ...1 1111 | | * | Reserved |
| (EE) | BIT(8) | 1 | * | Reserved |
| (EF) | BIT(8) | 1 | * | Reserved |
| (F0) | FULLWORD | 4 | EXPANDTY | EXPAND type (list or group) * |
| (F4) | ADDRESS | 4 | EXPKWA | EXPAND KWA pointer |
| (F8) | CHARACTER | 8 | EXPNAME | Name of group or list EXPANDeD |
| (100) | FULLWORD | 4 | DISPLYTY | DISPLAY type (list or group) * |
| (104) | ADDRESS | 4 | DISPKWA | DISPLAY KWA pointer |
| (108) | UNSIGNED | 2 | BROWSID | Last Reqid used |
| (10A) | HALFWORD | 2 | * | Reserved for alignment |
| RESPONSE and REASON codes returned via API | | | | |
| (10C) | FULLWORD | 4 | APIRESP | API Response code |
| (110) | FULLWORD | 4 | APIREAS | API Reason code |
| (110) | UNSIGNED | 2 | APIREAS_HIGH | High halfword of Reason |
| (112) | UNSIGNED | 2 | APIREAS_LOW | Low halfword of Reason |
| %GOTO TLSCICS2 @P7A Information from the Parameter List passed to DFHCSDUP from a user program. | | | | |
| (114) | CHARACTER | 8 | CSD_NAME | DD NAME OF ALTERNATIVE CSD |
| Name of the current terminal pool or connection being installed | | | | |
| (11C) | CHARACTER | 8 | TLS_POOL_NAME | Terminal pool in progress |
| (11C) | CHARACTER | 4 | TLS_CONN_NAME | Connection in progress |
| Catalog token to disconnect in case of abend | | | | |
| (124) | CHARACTER | 4 | TLS_CCTOKEN | Catalog token |

Table 102. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------|-----------------------------------|
| ----- Fields required for the EXEC CICS CSD API ----- | | | | |
| (128) | ADDRESS | 4 | TLS_SETPTR | SET buffer address |
| (12C) | FULLWORD | 4 | TLS_SETLEN | SET buffer length |
| (130) | ADDRESS | 4 | AMARGANC | AMP anchor for arg lists |
| (134) | BIT(8) | 1 | * | Flags |
| (134) | 1... | | TLS_CSDAPI | Command from CSD API |
| (134) | .1.. | | TLS_INQUIRERSRCE | Inquirersrce command from CSD API |
| (134) | ..11 1111 | | * | Spare |
| Flags required for bundle defined resources | | | | |
| (135) | BIT(8) | 1 | * | Flags |
| (135) | 1... | | TLS_BUNDLE_RES | Command from bundle install |
| (135) | .1.. | | TLS_LOG_BUNDLE_CRT | Log bundle creates? |
| (135) | ..11 1111 | | * | Spare |
| (136) | CHARACTER | 2 | * | Spare |
| ----- | | | | |
| (138) | CHARACTER | 0 | * | End of storage |

DSG - Dispatcher statistics

CONTROL BLOCK NAME = DFHDSGDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHDSGPS
 DESCRIPTIVE NAME = CICS TS Dispatcher Statistics
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1986, 2013
 CICS level at which this module was last updated

FUNCTION =
 This data area contains global statistics provided by the Dispatcher Domain
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.
 There is a single instance of this data block.

LIFETIME =
 This data block is created by the Dispatcher to store statistics to be passed to the user in response to a request to a request for statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370

RESTRICTIONS = none
MODULE TYPE = Domain call buffer

EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = from dispatcher domain
GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHDSGDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 103.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|--------------------------------------|
| (0) | STRUCTURE | 0 | DFHDSGDS | Dispatcher Domain DSECT |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | DSGLEN | Length of data area |
| (0) | ..11 111. | | DSGIDE | "0062" Dispatcher domain id mask |
| (2) | ADDRESS | 2 | DSGID | Dispatcher domain id |
| (2) |1 | | DSGVERS | "X'01'" Stats version number id mask |
| (4) | CHARACTER | 1 | DSGDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| DSGGLEN includes the length of the (standard statistics record hdr of 8 bytes + DSGHDR + DSGSTATS) effectively giving the offset to the first entry in the TCB_MODE_STATS array. DSGASIZE gives the number of entries in the TCB_MODE_STATS array. DSGPSIZE gives the number of entries in the TCB_POOL_STATS array. | | | | |
| (8) | FULLWORD | 4 | DSGHDR (0) | Dispatcher Global Stats Header |
| (8) | HALFWORD | 2 | DSGGLEN | Global stats length |
| (A) | HALFWORD | 2 | DSGASIZE | No. of DSGTCBM dsects supplied |
| (C) | HALFWORD | 2 | DSGPSIZE | No. of DSGTCBP dsects supplied |
| (E) | HALFWORD | 2 | | Reserved |
| Dispatcher Stats fields begin here. | | | | |
| (10) | FULLWORD | 4 | DSGSTATS (0) | Dispatcher Global Stats |
| (10) | FULLWORD | 4 | DSGICVT | Current ICV time |
| (14) | FULLWORD | 4 | DSGICVRT | Current ICVR Time |
| (18) | HALFWORD | 2 | DSGICVSD | Current ICVTSD time |
| (1A) | HALFWORD | 2 | DSGPRIAG | Priority aging |
| (1C) | HALFWORD | 2 | DSGSTSKS | Subtasks value |
| (1E) | HALFWORD | 2 | DSGMBTCH | QR Batching (MRO) value |
| (20) | BITSTRING | 4 | | Reserved |
| (24) | HALFWORD | 2 | DSGCNT | Current number of tasks |
| (26) | HALFWORD | 2 | DSGPNT | Peak number of tasks |
| (28) | BITSTRING | 8 | | Reserved |

Table 103. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (30) | BITSTRING | 8 | | Reserved |
| The following 2 fields contain the sub-dispatcher start time expressed in GMT and Local STCK formats respectively. | | | | |
| (38) | BITSTRING | 8 | DSGSTART | GMT STCK Sub-Disp start time |
| (40) | BITSTRING | 8 | DSGLSTRT | Local STCK Sub-Disp start time |
| (48) | BITSTRING | 8 | DSGEJST | Elapsed Job Step timing |
| (50) | BITSTRING | 8 | DSGSRBT | Accumulated SRB time |
| (58) | BITSTRING | 8 | | Reserved |
| (60) | FULLWORD | 4 | | Reserved |
| (64) | FULLWORD | 4 | | Reserved |
| Excess TCB Management Global Statistics. | | | | |
| (68) | FULLWORD | 4 | DSGXSCNS | No. of excess TCB scans |
| (6C) | FULLWORD | 4 | DSGXSCNN | No. of scans - no TCB detached |
| (70) | FULLWORD | 4 | DSGXTCBD | Total no. excess TCBs detached |
| (74) | FULLWORD | 4 | | Reserved |
| (78) | BITSTRING | 8 | DSGGXSCN | Time of last excess TCB scan (GMT) |
| (80) | BITSTRING | 8 | DSGLXSCN | Time of last excess TCB scan (local) |
| (88) | BITSTRING | 8 | DSGGXSND | Time of last excess TCB scan (GMT) - no TCB detached |
| (90) | BITSTRING | 8 | DSGLXSND | Time of last excess TCB scan (local) - no TCB detected |
| (98) | BITSTRING | 8 | | Reserved |
| (98) | 1.1. | | DSGMEND | "11g11" |
| (98) | 1.1. | | DSGMCLEN | "*-DSGLEN" Length of Global Stats |

TCB Mode Statistics

The stats for the Dispatcher TCB Modes are kept in a fixed length array. The number of entries in the array is in field DSGASIZE located at the beginning of the DSGHDR.

The TCB number to dispatcher mode map is as follows:

- TCB1 = Quasi Reentrant mode
- TCB2 = Resource owning mode
- TCB3 = Concurrent mode
- TCB4 = Secondary LU mode
- TCB5 = QNC/RPC mode
- TCB6 = File Owning mode
- TCB7 = Sockets Owning mode (SL)
- TCB8 = Sockets Owning mode (S0)
- TCB9 = Sockets Pthread Owning mode (SP)
- TCB10 = EP - Event Processing mode
- TCB11 = TP - Threaded TCB Owning mode
- TCB12 = D2 - DB2 mode
- TCB13 = S8 - Sockets (SSL) mode

TCB14 = L8 - Open mode
TCB15 = L9 - Open mode
TCB16 = X8 - Open mode
TCB17 = X9 - Open mode
TCB18 = T8 - Open mode

Table 104.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 0 | DSGTTCBM | TCB Mode Stats |
| (0) | CHARACTER | 2 | DSGTTCBNM | TCB Mode Name |
| (2) | BITSTRING | 1 | DSGTTCBMD | TCB Mode |
| (2) | .... .. |  | DSGTTCBMU | "X'00'" X'00' = Unknown Mode |
| (2) |1 | | DSGTTCBMN | "X'01'" X'01' = Not Open Mode |
| (2) |1. | | DSGTTCBMO | "X'02'" X'02' = Open Mode |
| (3) | BITSTRING | 1 | | Reserved |
| (4) | HALFWORD | 2 | DSGTTCBMP | TCB Mode Pool number |
| (4) | .... .. |  | DSGTTCBP0 | "0" 0 = TCB Pool Not Applicable |
| (4) |1 | | DSGTTCBPO | "1" 1 = TCB Pool Open |
| (4) |1. | | DSGTTCBPX | "2" 2 = TCB Pool XPLink |
| (4) |11 | | DSGTTCBPS | "3" 3 = TCB Pool SSL |
| (4) |1.. | | DSGTTCBPT | "4" 4 = TCB Pool Threaded |
| (6) | BITSTRING | 2 | | Reserved |
| (8) | FULLWORD | 4 | DSGNTCBA | No. of TCB attaches |
| (C) | FULLWORD | 4 | DSGTTCBAF | No. of TCB attach failures |
| (10) | FULLWORD | 4 | DSGTTCBCA | Current No. of TCBs attached |
| (14) | FULLWORD | 4 | DSGTTCBPA | Peak No. of TCBs attached |
| (18) | FULLWORD | 4 | | Reserved |
| (1C) | FULLWORD | 4 | DSGTTCBCU | Current No. TCBs used by mode |
| (20) | FULLWORD | 4 | DSGTTCBPU | Peak No. TCBs used by mode |
| (24) | FULLWORD | 4 | | Reserved |
| (28) | FULLWORD | 4 | | Reserved |
| (2C) | FULLWORD | 4 | DSGTTCBAL | No. TCB Allocates to task |
| (30) | FULLWORD | 4 | | Reserved |
| (34) | FULLWORD | 4 | DSGTTCBDU | No. of TCB detaches - unclean |
| (38) | FULLWORD | 4 | DSGTTCBDS | No. of TCB detaches - stolen |
| (3C) | FULLWORD | 4 | DSGTTCBDX | No. of TCB detaches - excess |
| (40) | FULLWORD | 4 | DSGTTCBDO | No. of TCB detaches - other |
| (44) | FULLWORD | 4 | | Reserved |
| (48) | FULLWORD | 4 | DSGTTCBST | No. of TCB steals |

Table 104. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (4C) | FULLWORD | 4 | DSGTCBMM | No. of TCB mismatches |
| (50) | FULLWORD | 4 | DSGSYSW | No. of partition exits |
| (54) | FULLWORD | 4 | (3) | Reserved |
| (60) | FULLWORD | 4 | DSGTMCDQ | Current tasks on dispatchable queue |
| (64) | FULLWORD | 4 | DSGTMPDQ | Peak tasks on dispatchable queue |
| (68) | FULLWORD | 4 | DSGTMADQ | Average tasks on dispatchable queue (2 decimal places) |
| (6C) | FULLWORD | 4 | | Reserved |
| The following CL8 definitions are really "Store Clock" format | | | | |
| (70) | BITSTRING | 8 | DSGTWT | Cum real time CICS in OS wait |
| (78) | BITSTRING | 8 | DSGTDI | Cum real time TCB disp by MVS |
| (80) | BITSTRING | 8 | DSGTCT | Cum CPU time for DS task |
| (88) | BITSTRING | 8 | DSGACT | Cum CPU time for TCB |
| (90) | BITSTRING | 8 | | Reserved |
| (98) | BITSTRING | 8 | | Reserved |
| (98) | 1.1. | | DSGMDEND | "*" |
| (98) | 1.1. | | DSGMDLEN | "*-DSGTCBM" Length of a TCB Mode stats |

TCB Pool Statistics

The stats for the Dispatcher TCB Pools are kept in a fixed length array. The number of entries in the array is in field DSGPSIZE located at the beginning of the DSGHDR.

The TCB pool number to dispatcher pool map is as follows:

TCB POOL(1) = MAXOPENTCBS

TCB POOL(2) = MAXXPTCBS

TCB POOL(3) = MAXSSLTCBS

TCB POOL(4) = MAXTHRDTCBS

Table 105.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | 0 | DSGTCBP | TCB Pool Stats |
| (0) | HALFWORD | 2 | DSGTCBPN | TCB Pool Number |
| (2) | BITSTRING | 2 | | Reserved |
| (4) | FULLWORD | 4 | DSGMXTCB | Max number of TCBs |
| (8) | FULLWORD | 4 | DSGCNUAT | Current TCBs attached |
| (C) | FULLWORD | 4 | DSGPNUAT | Peak TCBs attached |
| (10) | FULLWORD | 4 | DSGCNUUS | Current TCBs in use |
| (14) | FULLWORD | 4 | DSGPNUUS | Peak TCBs in use |
| (18) | BITSTRING | 8 | | Reserved |
| (20) | FULLWORD | 4 | DSGNTCBL | No. times at TCB Pool Limit |

Table 105. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------------------|-----------|-----|----------------|--|
| (24) | FULLWORD | 4 | | Reserved |
| (28) | BITSTRING | 8 | DSGTOTWL | Total Wait Time at TCB limit |
| (30) | BITSTRING | 8 | DSGCURWT | Current waiting time |
| (38) | BITSTRING | 8 | DSGTOTMT | Total MVS storage constraint delay time |
| (40) | FULLWORD | 4 | DSGTOTNW | Total number of waits |
| (44) | FULLWORD | 4 | DSGTOTMW | Requests delayed by MVS storage constraint |
| (48) | FULLWORD | 4 | DSGCURNW | Current No. of tasks waiting for a TCB |
| (4C) | FULLWORD | 4 | DSGPEANW | Peak No. of tasks waiting for a TCB |
| (50) | BITSTRING | 8 | | Reserved |
| (58) | FULLWORD | 4 | | Reserved |
| (5C) | FULLWORD | 4 | DSGMMWTS | Total No. of TCB Mismatch waits |
| (60) | BITSTRING | 8 | DSGMMWTM | Total TCB Mismatch wait time |
| (68) | BITSTRING | 8 | | Reserved |
| (70) | FULLWORD | 4 | DSGCMMWS | Current TCB Mismatch waits |
| (74) | FULLWORD | 4 | DSGPMMWS | Peak TCB Mismatch waits |
| (78) | BITSTRING | 8 | DSGCMMWT | Current TCB Mismatch Waiting time |
| (80) | BITSTRING | 8 | DSGGTCBL | Time (GMT) pool limit reached |
| (88) | BITSTRING | 8 | DSGLTCBL | Time (local) pool limit reached |
| (90) | BITSTRING | 8 | | Reserved |
| (98) | BITSTRING | 8 | | Reserved |
| (98) | 1.1. | | DSGPLEND | "18" |
| (98) | 1.1. | | DSGPLEN | "*-DSGTCBP" Length of a TCB Pool stats |
| (98) | 1.1. | | DSGEND | "18" |
| Equates for the maximum array sizes. | | | | |
| (98) | ...1 ..1. | | DSGMAXNUMMODES | "18" Number of TCB Modes |
| (98) |1.. | | DSGMAXNUMPOOLS | "4" Number of TCB Pools |

DSTDS - Dispatcher MVS TCB Global Stats

CONTROL BLOCK NAME = DFHDSTDS
 NAME OF MATCHING PLX CONTROL BLOCK = DFHDSTPS
 DESCRIPTIVE NAME = CICS TS Dispatcher MVSTCB Global statistics
 Licensed Materials - Property of IBM
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 5655-Y04

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FUNCTION =
 This data area contains global statistics provided by the Dispatcher Domain on MVS TCBs.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.
 There is a single instance of this data block.

LIFETIME =
 This data block is created by the Dispatcher to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = none

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer

EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from dispatcher domain
 GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY, DFHDSTDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 106.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------------|-----------|-----|---------------------------|-------------------------------------|
| (0) | STRUCTURE | 0 | DFHDSTDS | Dispatcher Domain MVSTCB statistics |
| (0) | HALFWORD | 2 | DSTDS_LEN | MVSTCB global stats record length |
| (2) | ADDRESS | 2 | DSTDS_ID | Statistics record id |
| (2) | .1.. | | DSTIDR | "64" MVSTCB global stats id |
| (4) | CHARACTER | 1 | DSTDS_VERS | MVSTCB global stats version |
| (4) |1 | | DSTVERS | "X'01" Current version number |
| (5) | CHARACTER | 3 | | Reserved |
| MVSTCB stats fields begin here | | | | |
| (8) | FULLWORD | 4 | DSTDS_CICSTCB_COUNT | Current number of CICS TCBs |
| (C) | CHARACTER | 8 | DSTDS_CICSTCB_CPUTIME | So far for currently attached |
| (14) | FULLWORD | 4 | DSTDS_CICSTCB_STG_ BELOW | Private stg below 16M |
| (18) | FULLWORD | 4 | DSTDS_CICSTCB_STG_ ABOVE | Private stg above 16M |
| (1C) | FULLWORD | 4 | DSTDS_NONCICSTCB_ COUNT | Current number of non-CICS TCBs |
| (20) | CHARACTER | 8 | DSTDS_NONCICSTCB_ CPUTIME | So far for currently attached |

Table 106. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------------|---|
| (28) | FULLWORD | 4 | DSTDS_NONCICSTCB_STG_BELOW | Private stg below 16M |
| (2C) | FULLWORD | 4 | DSTDS_NONCICSTCB_STG_ABOVE | Private stg above 16M |
| (30) | FULLWORD | 4 | DSTDS_CICSTCB_STG_BELOW_INUSE | <16M in use |
| (34) | FULLWORD | 4 | DSTDS_CICSTCB_STG_ABOVE_INUSE | >16M in use |
| (38) | FULLWORD | 4 | DSTDS_NONCICSTCB_STG_BELOW_INUSE | <16M in use |
| (3C) | FULLWORD | 4 | DSTDS_NONCICSTCB_STG_ABOVE_INUSE | >16M in use |
| (40) | FULLWORD | 4 | | Reserved |
| (44) | FULLWORD | 4 | | Reserved |
| (48) | CHARACTER | 8 | | Reserved |
| (48) | .1.1 | | DSTDS_END | "*" |
| (48) | .1.1 | | DSTDS_LENGTH | "*-DSTDS_LEN" MVSTCB global stats record length |

DSRDS - Dispatcher MVS TCB Resource Stats

CONTROL BLOCK NAME = DFHDSRDS
NAME OF MATCHING PLX CONTROL BLOCK = DFHDSRPS
DESCRIPTIVE NAME = CICS TS Dispatcher MVSTCB resource statistics
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FUNCTION =
This data area contains resource statistics provided by the Dispatcher Domain on MVS TCBs i.e. the stats relating to an individual TCB.
It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.

LIFETIME =
This data block is created by the Dispatcher to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.
The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = none

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Domain call buffer

EXTERNAL REFERENCES = none
DATA AREAS = none

CONTROL BLOCKS = none
GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY, DFHDSRDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 107.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------------|---|
| (0) | STRUCTURE | 0 | DFHDSRDS | Dispatcher Domain MVSTCB statistics |
| (0) | HALFWORD | 2 | DSRDS_LEN | MVSTCB resource stats record length |
| (2) | ADDRESS | 2 | DSRDS_ID | Statistics record id |
| (2) | .1.. ...1 | | DSRIDR | "65" MVSTCB resource stats id |
| (4) | CHARACTER | 1 | DSRDS_VERS | MVSTCB resource stats version |
| (4) |1 | | DSRVERS | "X'01" Current version number |
| (5) | CHARACTER | 3 | | Reserved |
| MVSTCB resource stats fields begin here | | | | |
| (8) | ADDRESS | 4 | DSRDS_TCB_ADDRESS | Address of MVS TCB |
| (C) | CHARACTER | 8 | DSRDS_TCB_NAME | Initial prog or QR, RO etc. |
| (14) | CHARACTER | 1 | DSRDS_TCB_TYPE | 'C' for CICS, 'N' for non-CICS |
| (15) | CHARACTER | 3 | | Reserved |
| (18) | CHARACTER | 4 | DSRDS_TCB_CICS_TASK | CICS task number or 0 |
| (1C) | ADDRESS | 4 | DSRDS_TCB_MOTHER | Address of mother TCB |
| (20) | ADDRESS | 4 | DSRDS_TCB_SISTER | Address of sister TCB |
| (24) | ADDRESS | 4 | DSRDS_TCB_DAUGHTER | Address of daughter TCB |
| (28) | CHARACTER | 8 | DSRDS_TCB_CPUTIME | Total CPU time so far |
| (30) | FULLWORD | 4 | DSRDS_TCB_STG_BELOW | Private storage below 16M |
| (34) | FULLWORD | 4 | DSRDS_TCB_STG_ABOVE | Private storage above 16M |
| (38) | FULLWORD | 4 | DSRDS_TCB_STG_BELOW_INUSE | Below 16M in use |
| (3C) | FULLWORD | 4 | DSRDS_TCB_STG_ABOVE_INUSE | Above 16M in use |
| (40) | FULLWORD | 4 | | Reserved |
| (44) | FULLWORD | 4 | | Reserved |
| (48) | CHARACTER | 8 | | Reserved |
| (48) | .1.1 | | DSRDS_END | "*" |
| (48) | .1.1 | | DSRDS_LENGTH | "*-DSRDS_LEN" MVSTCB resource stats record length |

DSN - File control dataset name

MACRO NAME = DFHDSND
DESCRIPTIVE NAME = CICS/ESA File control DATA-SET NAME BLOCK
and BASE CLUSTER block.

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FUNCTION =
Create or map an instance of the DATASET NAME block.
This block is dependent from the File Control Table,
and contains a dataset name (up to 44 characters long)
or equivalently a /VSE file-ID.
It is pointed to by any number of FCT file entries,
for either or both the purposes:
a) to carry a name for possible DYNAMIC ALLOCATION when the
file is next opened. (The "optative" name.)
b) to represent the BASE CLUSTER (in VSAM), DATA SET (BDAM),
(or any other entity) that the file, being open,
can update and that CICS needs to guard for backout
integrity.

DATASET NAME BLOCK

The File Control Data Set Name Block (DSNB) holds the name
for dynamic allocation of a data set. Any number of files
(represented by File Control Table Entries, FCTEs) may address
a DSNB. Dynamic allocation takes place at the time a file is
opened. At this time, if the DSNB represents a VSAM base cluster
or a BDAM data set, further information describing the data set
is stored in the Base Cluster Block that is part of the DSNB.
The following fields form part of the Product Sensitive
Programming Interface :

FCTDNAME
FCTDNLEN
FCTDNVAL bit setting in byte FCTDNFL1
FCTBCFR, FCTBCLOG, FCTBCVAL, bit settings in byte FCTBCFL1
FCTBCFRL

Table 108.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|--|
| (0) | STRUCTURE | 0 | DFHDSNDS | DUMMY SECTION START |
| (0) | CHARACTER | 8 | FCTDNRN | resource name(='DSN_BLK:') , |
| (8) | CHARACTER | 44 | FCTDNAME | dataset name , |
| (34) | ADDRESS | 4 | FCTDNNUM | DATASET NUMBER (CC KEY) , |
| (38) | ADDRESS | 4 | FCTDNBCN | DITTO OF CORR. BASE CLUSTER , |
| (3C) | HALFWORD | 2 | FCTDNUC | USE COUNT , |
| (3E) | ADDRESS | 1 | FCTDNLEN | EFFECTIVE LENGTH OF DSNAME , |
| (3F) | ADDRESS | 1 | FCTDNTYP | DSTYPE=ESDS\|KSDS\| RRDS\|PATH , |
| (40) | BITSTRING | 1 | FCTDNFL1 | FLAGS , |
| (40) | 1... | | FCTDNVAL | "X'80" DSN VALIDATED IN VSAM CAT. , |
| (40) | .1.. | | FCTDNRLS | "X'40" Last open was in RLS mode , |
| (41) | BITSTRING | 3 | | Reserved , |
| (44) | CHARACTER | 44 | FCTDN_BASENAME | Name of base if path , |
| (70) | ADDRESS | 4 | FCTDN_LOCK_TOKEN | entry_lock token , |

Table 108. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------|-----------|-----|------------|---|
| (74) | FULLWORD | 4 | (0) | ALIGNMENT FOR INNER BLOCK , |
| (74) | .111 .1.. | | FCTDNINC | "*" START OF BASE CLUSTER BLOCK , |
| BASE CLUSTER BLOCK | | | | |
| (74) | .111 .1.. | | DFHBCCDS | "*g11" , |
| (74) | HALFWORD | 2 | FCTBCUC | Count of ACBs that are open for files in the cluster, or are in transition to or from that state. |
| (76) | HALFWORD | 2 | FCTBCUUC | Count of ACBs open for update |
| (78) | BITSTRING | 1 | FCTBCFL1 | VARIOUS FLAGS - |
| (78) | 1... | | FCTBCSRP | "X'80'" LOCALLY-SHARED RESOURCES APPLY |
| (78) | .1.. | | FCTBCKVL | "X'40'" ATTRIBUTES ..KYL & ..RKP ARE VALID |
| (78) | .111 1... | | FCTBCRCV | "FCTBCFL1" RECOVERY ATTRIBUTES OF BASE CLUSTER |
| (78) | ..1. | | FCTBCFR | "X'20'" FORWARD RECOVERY |
| (78) | ...1 | | FCTBCLOG | "X'10'" LOGGING |
| (78) | 1... | | FCTBCVAL | "X'08'" VALID FLAG FOR RECOVERY ATTRIBUTES |
| (78) |1.. | | FCTBCMIS | "X'04'" Recov Attrs Mismatch Flag |
| (78) | .111 1... | | FCTBCSHP | "FCTBCFL1" SHARE OPTIONS INDICATOR |
| (78) |11 | | FCTBSH4 | "X'03'" SHARE OPTIONS 4 |
| (78) |1. | | FCTBSH34 | "X'02'" SHARE OPTIONS 3 OR 4 |
| (78) |1 | | FCTBSH24 | "X'01'" SHARE OPTIONS 2 OR 4 |
| (79) | ADDRESS | 1 | FCTBCFRL | FRLOG ID FOR FORWARD RECOVERY |
| (7A) | ADDRESS | 1 | FCTBCAS | AVAILABILITY STATE |
| (7A) | ..1. | | FCTBCUNA | "X'20'" unavailability |
| (7B) | ADDRESS | 1 | FCTBCKYL | Length of key |
| (7C) | ADDRESS | 2 | FCTBCRKP | Relative key position |
| (80) | FULLWORD | 4 | FCTBCCIS | Base cluster Control Interval Size. |
| (84) | ADDRESS | 4 | FCTBCVSC | Anchor for chain of VSWAs executing requests against this base. |

Table 108. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|--|
| (88) | FULLWORD | 4 | FCTBCSRB | Relative byte address for ESDS |
| (8C) | HALFWORD | 2 | FCTBCPUC | No. of open ACBs with DSname sharing |
| (8E) | HALFWORD | 2 | FCTBCRUC | Count of ACBs that are open against this recoverable ESDS base. |
| (90) | FULLWORD | 1 | FCTBCLSR | LSR pool identifier |
| (91) | BITSTRING | 1 | FCTBCFIC | Fuzzy Image Copy flags |
| (91) | 1... | | FCTBCFUZ | "X'80" Fuzzy backup enabled |
| (91) | .1.. | | FCTBCVFS | "X'40" Valid fuzzy state |
| (92) | HALFWORD | 2 | FCTBCFUC | Fuzzy File update count |
| (94) | ADDRESS | 4 | FCTBCACB | Address of ACB for base cluster. Allocated at the time of first PUT ADD or MASS INSERT against the path. |
| (98) | ADDRESS | 4 | (2) | Add/Delete counts |
| (A0) | ADDRESS | 4 | FCTBC_FLLB_CHAIN | Start of FLLB chain |
| (A4) | BITSTRING | 1 | FCTBC_RLS_INDS | Data table and RLS flags |
| (A4) | .1.. | | FCTBC_LOST_LOCKS | "X'40" Data set in lost locks state |
| (A5) | BITSTRING | 1 | | Data table ECB |
| (A6) | BITSTRING | 1 | | Data table loaded ECB |
| (A7) | BITSTRING | 1 | FCT_BC_MISC_INDS | Assorted flags |
| (A7) | 1... | | FCTBC_EXTENDED | "X'80" Extended addressing |
| (A7) | .1.. | | FCTBC_THREADSafe_WORK | "X'40" Threadsafe work done |
| (A7) | ..1. | | FCTBC_REPLICATION_LOG | "X'20" Replication logging active |
| (A8) | CHARACTER | 8 | | Table name |
| (B0) | ADDRESS | 4 | FCTBCDTK | Table token |
| (B4) | ADDRESS | 4 | | Open FCTE chain |
| (B8) | FULLWORD | 4 | FCTBCTKN | FR Log Tkn from CICS Logger |
| (BC) | BITSTRING | 1 | FCTBCFL2 | Recovery Attribute Flags |
| (BC) | 1... | | FCTBCCAT | "X'80" Attrs originate from catalog |
| (BC) | .1.. | | FCTBCRLS | "X'40" Attrs set on RLS file open |
| (BC) | ..1. | | FCTBCRA | "X'20" BCB has RLS ACBs open |
| (BC) | ...1 | | FCTBCNRA | "X'10" BCB has non-RLS ACBs open |

Table 108. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------|-----------|-----|-------------------------|---|
| (BC) | 1... | | FCTBCRCO | "X'08" XFCRLSCO has allowed RLS and non-RLS ACBs open for this base cluster block |
| (BC) |1.. | | FCTBCCON | "X'04" XFCRLSCO footprint FCN COEX |
| (BC) |1. | | FCTBCCOW | "X'02" XFCRLSCO footprint FCN WORK |
| (BC) |1 | | FCTBCCOR | "X'01" XFCRLSCO footprint FCRO |
| (BD) | CHARACTER | 26 | FCTBCCRL | FR Logstream Name from Catalog |
| (D7) | CHARACTER | 1 | FCTBC_QSTATE | RLS quiesce progress state for QUICLOSE, QUICOPY or QUIBWO |
| (D8) | FULLWORD | 4 | FCTBC_0890_COUNT | Requests awaited for 08-90 |
| (DC) | CHARACTER | 8 | FCTBC_QTOKEN | RLS quiesce token, returned to VSAM when QUICMP issued |
| (E4) | ADDRESS | 4 | FCTBC_CONN_CHAIN | Chain of connected FCTEs |
| (E8) | ADDRESS | 4 | FCTBC_OWNING_FRAB | Holder of ESDS write lock |
| (EC) | FULLWORD | 4 | FCTBC_SAFE_RBA | Highest safe RBA for update |
| (F0) | FULLWORD | 4 | FCTBC_QCOUNT | Number of UOWs to reach syncpoint before QUICMP can be issued for QUICOPY or QUIBWO |
| (F4) | CHARACTER | 8 | FCTBC_BWO_STAMP | OPEN TIMESTAMP FOR BWO |
| Force doubleword alignment | | | | |
| (FC) | ADDRESS | 4 | FCTBC_0890_CHAIN | Head of 0890 wait chain |
| (100) | CHARACTER | 8 | FCTBC_HI_XRBA | Relative byte address for extended addressing ESDS |
| (108) | CHARACTER | 8 | FCTBC_SAFE_XRBA | Highest safe XRBA for update |
| (110) | FULLWORD | 4 | FCTBC_LOCK_TOKEN | BCB Lock Token |
| (114) | FULLWORD | 4 | FCTBC_SPHERE_LOCK_TOKEN | SPHERE Lock Token |
| (118) | FULLWORD | 4 | FCTBC_FRLOG_LK_TOKEN | DSNB Log Lock Token |
| (11C) | HALFWORD | 2 | FCTBC_NRUC | Non RLS file open with updateable servreqs count |
| (11E) | HALFWORD | 2 | FCTBCUCN | Count of ACBs that are open against this dataset for Non RLS files |
| (120) | HALFWORD | 2 | FCTBCUCR | Count of ACBs that are open against this dataset for RLS files |
| (122) | HALFWORD | 2 | | Reserved |

Table 108. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|---------------------------------|--|
| (128) | DBL WORD | 8 | DFHBCEND (0) | Align, to round up gross length to double word |
| (128) | 1.11 .1.. | | DFHBCLEN | "DFHBCEND-DFHBCCDS" , |
| Constants for FCTBC_QSTATE. This tracks the progress of a VSAM RLS QUICLOSE, QUICOPY or QUIBWO quiesce request. | | | | |
| (128) | .... .... |  | FCTBC_QSTATE_NORMAL | "0" |
| (128) |1 | | FCTBC_QSTATE_QUIESCING | "1" |
| (128) |1. | | FCTBC_QSTATE_QUIESCE_CANCELLING | "2" |
| (128) |11 | | FCTBC_QSTATE_COPYING | "3" |
| (128) |1.. | | FCTBC_QSTATE_COPY_CANCELLING | "4" |
| (128) |1.1 | | FCTBC_QSTATE_COPY_POLICING | "5" |
| (128) |11. | | FCTBC_QSTATE_BWOING | "6" |
| (128) |111 | | FCTBC_QSTATE_BWO_CANCELLING | "7" |

DUAFB - Dump Domain Authorised Parameter Block

The Dump Authorized Facility Parameter Block. This is used to pass parameters to the Dump SVC routine DFHDUSVC, and return responses to the caller.

Table 109.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|-----------------------------|
| (0) | STRUCTURE | 84 | DAFPB | |
| (0) | CHARACTER | 16 | DAFPB_PREFIX | |
| (0) | UNSIGNED | 2 | DAFPB_LENGTH | control block length |
| (2) | CHARACTER | 1 | DAFPB_ARROW | > |
| (3) | CHARACTER | 3 | DAFPB_DFH | DFH |
| (6) | CHARACTER | 2 | DAFPB_DOMAIN | DU |
| (8) | CHARACTER | 8 | DAFPB_BLOCK_ID | DAFPB |
| (10) | CHARACTER | 68 | DAFPB_DATA | |
| (10) | UNSIGNED | 2 | DAFPB_FUNCTION | required auth. function |
| (12) | UNSIGNED | 2 | DAFPB_RESPONSE | return code from DFHDUSVC |
| (14) | FULLWORD | 4 | DAFPB_SDUMPX_RESPONSE | MVS return code from SDUMPX |
| (18) | ADDRESS | 4 | DAFPB_SYMREC_PTR | pointer to symptom record |
| (1C) | FULLWORD | 4 | DAFPB_SYMREC_LEN | length of symptom record |
| (20) | CHARACTER | 8 | DAFPB_DUMP CODE | dump code |

Table 109. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|-------------------------------|
| (28) | CHARACTER | 9 | DAFPB_DUMPID | dump identifier |
| (31) | CHARACTER | 3 | * | reserved |
| (34) | BIT(32) | 4 | * | reserved |
| (38) | ADDRESS | 4 | DAFPB_REMOTE_MSG_PTR | address of remote message |
| (3C) | FULLWORD | 4 | DAFPB_CSVDYNEX_RETURN_CODE | MVS return code from CSVDYNEX |
| (40) | FULLWORD | 4 | DAFPB_CSVDYNEX_REASON | MVS reason code from CSVDYNEX |
| (44) | FULLWORD | 4 | DAFPB_IWMWQWRK_RETURN_CODE | MVS return code from IWMWQWRK |
| (48) | FULLWORD | 4 | DAFPB_IWMWQWRK_REASON | MVS reason code from IWMWQWRK |
| (4C) | CHARACTER | 8 | DAFPB_XCFGROUP | XCFGGroup for RELATED DMP |
| (54) | CHARACTER | 0 | DAFPB_END | |

Constants

Table 110.

| Len | Type | Value | Name | Description |
|---|---------|-------|-----------------------------|-------------|
| <p>The valid functions for the Dump SVC routine, passed in the "DAFPB" field "dafpb_function".</p> <p>The functions currently supported are:</p> <p>take_sdumpx provides a fast unformatted dump of virtual storage and returns a response/reason.</p> <p>take_related_sdumpx uses IWMWQWRK to obtain a list of active units of work. This data is passed to SDUMPX with a request for REMOTE dumps across the SYSPLEX for CICS systems in XCF group DFHIR00 which are involved in the active units of work. A dump of virtual storage is also taken for the local address space.</p> <p>csvdynex_add_dfhdumpx adds dfhdumpx to the SDUMPX IEASDUMP.QUERY dynamic exit and returns a response.</p> <p>-----</p> | | | | |
| 2 | DECIMAL | 1 | DAFPB_TAKE_SDUMPX | |
| 2 | DECIMAL | 2 | DAFPB_TAKE_RELATED_ SDUMPX | |
| 2 | DECIMAL | 3 | DAFPB_CSVDYNEX_ADD_DFHDUMPX | |

Table 110. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-------|--------------------------|-------------|
| <p>The valid responses from the Dump SVC routine, passed in the "DAFPB" field "dafpb_response".</p> <p>The responses currently produced are:</p> <p>ok The operation was executed successfully.</p> <p>not_supported The function code supplied is not valid.</p> <p>getmain_failed A GETMAIN request for SP 253 storage failed.</p> <p>festae_failed The FESTAE could not be established.</p> <p>not_authorized The authorization check failed.</p> <p>sdumpx_failed The SDUMPX request failed to complete the dump. The MVS response and reason are returned in "dafpb_sdumpx_response".</p> <p>csvdynex_failed The CSVSYNEX request failed. The MVS return code and reason are returned in "dafpb_csvdynex_return_code" and "dafpb_csvdynex_reason".</p> <p>iwmwqwrk_failed The IWMWQWRK request failed. The MVS return code and reason are returned in "dafpb_iwmwqwrk_return_code" and "dafpb_iwmwqwrk_reason".</p> <p>dfhdumpx_not_found The exit module DFHDUMPX was not found in the LPA.</p> <p>invalid_probdesc The SDUMPX PROBDISC data is invalid.</p> <p>-----</p> | | | | |
| 2 | DECIMAL | 0 | DAFPB_OK | |
| 2 | DECIMAL | 1 | DAFPB_NOT_SUPPORTED | |
| 2 | DECIMAL | 2 | DAFPB_GETMAIN_FAILED | |
| 2 | DECIMAL | 3 | DAFPB_FESTAE_FAILED | |
| 2 | DECIMAL | 4 | DAFPB_NOT_AUTHORIZED | |
| 2 | DECIMAL | 5 | DAFPB_SDUMPX_FAILED | |
| 2 | DECIMAL | 6 | DAFPB_CSVSYNEX_FAILED | |
| 2 | DECIMAL | 7 | DAFPB_IWMWQWRK_FAILED | |
| 2 | DECIMAL | 8 | DAFPB_DFHDUMPX_NOT_FOUND | |
| 2 | DECIMAL | 9 | DAFPB_INVALID_PROBDISC | |

DUA - Dump Domain Control Blocks

CONTROL BLOCK NAME = DUA
 DESCRIPTIVE NAME = CICS TS Dump Domain - Common structures
 and constants
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 FUNCTION = Contains the structures for :-
 DUA - DU anchor block

DTB - Dump table block header
 BTB - Browse table header
 DTE - Dump table element
 BTE - Browse table element
 CC_DU_STATE - Dump catalog record
 XFINTER - Interface block
 OPEN_BLOCK - Dump dataset open block
 ECB - Dump dataset ECB block
 WL - Dump dataset remote parameter list

 DUA - DU Anchor block

Table 111.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------------|---|
| (0) | STRUCTURE | 370 | DUA | |
| (0) | CHARACTER | 16 | DUA_PREFIX | Standard prefix |
| (0) | HALFWORD | 2 | DUA_LENGTH | Length of block |
| (2) | CHARACTER | 1 | DUA_ARROW | '>' |
| (3) | CHARACTER | 3 | DUA_DFH | 'DFH' |
| (6) | CHARACTER | 2 | DUA_DOMID | 'DU' |
| (8) | CHARACTER | 8 | DUA_BLOCK_NAME | 'ANCHOR' |
| (10) | CHARACTER | 8 | DUA_APPLID | CICS system identifier |
| (18) | CHARACTER | 8 | DUA_SYSTEM_DUMP CODE | Dump code |
| (20) | FULLWORD | 4 | DUA_SYS_DUMPS_TAKEN | Global system dumps taken |
| (24) | FULLWORD | 4 | DUA_SYS_DUMPS_ SUPPRESSED | Global system dumps supp'sd |
| (28) | FULLWORD | 4 | DUA_TRAN_DUMPS_TAKEN | Global tran dumps taken |
| (2C) | FULLWORD | 4 | DUA_TRAN_DUMPS_ SUPPRESSED | Global tran dumps supp'sd |
| (30) | CHARACTER | 8 | DUA_LAST_RESET_TIME | Last stats reset time |
| (38) | UNSIGNED | 4 | DUA_MESSAGE_LEN | Message length |
| (3C) | ADDRESS | 4 | DUA_MESSAGE_PTR | Message address |
| (40) | UNSIGNED | 4 | DUA_TITLE_LEN | Title length |
| (44) | ADDRESS | 4 | DUA_TITLE_PTR | Title address |
| (48) | UNSIGNED | 4 | DUA_CALLER_LEN | Caller length |
| (4C) | ADDRESS | 4 | DUA_CALLER_PTR | Caller address |
| (50) | UNSIGNED | 4 | DUA_SSS_LEN | Short symptom string len |
| (54) | ADDRESS | 4 | DUA_SSS_PTR | Short symptom string addr |
| (58) | BIT(32) | 4 | * | Reserved |
| (5C) | FULLWORD | 4 | DUA_CSVDYNEX_RC | CSVDYNEX return code |
| (60) | FULLWORD | 4 | DUA_CSVDYNEX_REASON | CSVDYNEX reason |
| (64) | CHARACTER | 8 | DUA_TRAN_DUMP_ID | Tran dump identifier |
| (6C) | CHARACTER | 8 | DUA_TRAN_DUMP_LAST_ CLOSED_ID | Tran dump id when data set was last closed |
| (74) | CHARACTER | 8 | DUA_XCFGROUP | Region XCFGroup Name |
| (7C) | CHARACTER | 56 | * | Reserved |
| (B4) | BIT(8) | 1 | DUA_FLAGS | Reserved |

Table 111. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|---|
| (B4) | 1... | | DUA_SDUMP_IN_PROGRESS | SDUMP taking place |
| (B4) | .1.. | | DUA_TERMINATING | DU is terminating |
| (B4) | ..1. | | DUA_COLD_START | START=COLD in SIT |
| (B4) | ...1 | | DUA_REMOTE_DUMPS | Remote dumps available |
| (B4) | 1... | | DUA_DUMP_TABLE_INIT | Is DU Table ready? |
| (B4) |1.. | | DUA_XDUMP_IN_PROGRESS | Transaction dump taking place |
| (B4) |11 | | * | Reserved |
| (B5) | CHARACTER | 3 | * | |
| (B8) | CHARACTER | 39 | DUA_XD_AREA | Tran dump fields |
| (B8) | ADDRESS | 4 | DUIO_ENTRY_POINT | Addr. DUIO routine |
| (BC) | ADDRESS | 4 | DATASET_LOCK_TOKEN | XD dataset lock |
| (C0) | ADDRESS | 4 | OPENBLOK_PTR | Ptr XD dataset file cont.bk |
| (C4) | ADDRESS | 4 | DCB_PTR | Ptr XD dataset DCB |
| (C8) | ADDRESS | 4 | BUFFER_PTR | Ptr XD dataset buffer |
| (CC) | ADDRESS | 4 | CUR_RECORD_PTR | Ptr Current record in buff |
| (D0) | ADDRESS | 4 | SM_ISOLATION_TOKEN | Isolation token required on SWITCH_SUBSPACE calls |
| (D4) | FULLWORD | 4 | DDS_BUFFER_LEN | Current buffer size |
| (D8) | UNSIGNED | 4 | XD_ECB_ERROR | No XD dataset ECB errors |
| (DC) | BIT(8) | 1 | DUSU_REASON_FLAGS | Work flags |
| (DC) | 1... | | X_OPEN_ERROR | Error found when attempting to open dump dataset - XDUOUT exit active |
| (DC) | .1.. | | X_PARTIAL | EOV on dump dataset and switching not active - XDUOUT exit active |
| (DC) | ..1. | | SU_DCB_EROR | DUSU error |
| (DC) | ...1 | | X_NOT_OPEN | Dataset not open |
| (DC) | 1... | | XD_MVCL_ERR | Set if we go into DUXWREC too often on the MVCL command in DFHDUXW |
| (DC) |1.. | | X_AUTOSWITCH_OVERRIDDEN | Both datasets are too small for the dump - XDUCLSE switching disabled |
| (DC) |11 | | * | Reserved |
| (DD) | BIT(8) | 1 | XD_FLAGS | Tran dump flags |
| (DD) | 1... | | SWITCH_IN_PROG | Autoswitch in progress |
| (DD) | .1.. | | OPEN_STATUS | XD dataset status |
| (DD) | ..1. | | DUXD_ACTIVE | Transaction dump active |
| (DD) | ...1 | | XDUCLSE_ACTIVE | XD close exit active |
| (DD) | 1... | | XDUOUT_ACTIVE | XD buffer write exit |

Table 111. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------|--|
| (DD) |1.. | | XDUREQ_ACTIVE | Dump request exit active |
| (DD) |1. | | XDUREQC_ACTIVE | Dump request close exit active |
| (DD) |1 | | CLOSE_MSG | Used to prevent CLOSE msg from being issued more than once for a dump dataset. Set on - when dataset first closed. Set off when dataset opened |
| (DE) | UNSIGNED | 1 | DUXWREC_COUNT | Count of failures of MVCL for any 1 subfunction |
| (DF) | CHARACTER | 1 | * | |
| (E0) | CHARACTER | 40 | DUCAT | Dump catalog record |
| Used for constructing dump_str in form run_no/dump_no | | | | |
| (108) | FULLWORD | 4 | DUA_DUMP_NO | Dump number |
| (10C) | CHARACTER | 9 | DUA_DUMP_STR | Run/dump string |
| Pointers for System Dump Table and Transaction Dump Table | | | | |
| (115) | CHARACTER | 3 | * | |
| (118) | ADDRESS | 4 | DUA_SDTBLOCKHEAD | Ptr SDT block header |
| (11C) | ADDRESS | 4 | DUA_TDTBLOCKHEAD | Ptr TDT block header |
| (120) | ADDRESS | 4 | DUA_SDTFREEHEAD | Ptr SDT free chain head |
| (124) | ADDRESS | 4 | DUA_TDTFREEHEAD | Ptr TDT free chain head |
| (128) | CHARACTER | 8 | DUA_SDTHEAD | |
| (128) | ADDRESS | 4 | DUA_SDTFIRST | Ptr First SDT element |
| (12C) | ADDRESS | 4 | DUA_SDTLAST | Ptr Last SDT element |
| (130) | CHARACTER | 8 | DUA_TDTHEAD | |
| (130) | ADDRESS | 4 | DUA_TDTFIRST | Ptr First TDT element |
| (134) | ADDRESS | 4 | DUA_TDTLAST | Ptr Last TDT element |
| Pointers for Browse Token Table (for browsing dump tables) | | | | |
| (138) | ADDRESS | 4 | DUA_BTTBLOCKHEAD | Ptr Browse table block header |
| (13C) | ADDRESS | 4 | DUA_BTTFREEHEAD | Ptr BTT free chain head |
| (140) | CHARACTER | 8 | DUA_BTTHEAD | |
| (140) | ADDRESS | 4 | DUA_BTTFIRST | Ptr First BTT element |
| (144) | ADDRESS | 4 | DUA_BTTLAST | Ptr Last BTT element |
| Pointer for dump statistics buffer | | | | |
| (148) | ADDRESS | 4 | DUA_STATS_BUFFER_PTR | Ptr Dump statistics buffer |
| Lock tokens | | | | |
| (14C) | ADDRESS | 4 | DUA_SDMLOCK_TOKEN | System dump LMLM lock token |
| (150) | CHARACTER | 8 | * | Reserved |
| (158) | ADDRESS | 4 | DUA_TABLOCK_TOKEN | Dump table LMLM lock token |

Table 111. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------|-----------|-----|------------------|--------------------------|
| (15C) | ADDRESS | 4 | DUA_FTLOCK_TOKEN | FT table LMLM lock token |
| Pointers for Feature Table | | | | |
| (160) | ADDRESS | 4 | DUA_FTBLOCKHEAD | Ptr FT block header |
| (164) | ADDRESS | 4 | DUA_FTFREEHEAD | Ptr FT free chain hd |
| (168) | CHARACTER | 8 | DUA_FTHEAD | |
| (168) | ADDRESS | 4 | DUA_FTFIRST | Ptr First FT element |
| (16C) | ADDRESS | 4 | DUA_FTLAST | Ptr Last FT element |
| Feature count | | | | |
| (170) | UNSIGNED | 2 | DUA_FT_COUNT | Number of features |
| (172) | CHARACTER | 0 | * | |

DTB - Block header for System Dump Table & Transaction Dump Table

Table 112.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|---------------------------|
| (0) | STRUCTURE | 20 | DTB | |
| (0) | CHARACTER | 20 | DTB_PREFIX | Standard prefix |
| (0) | HALFWORD | 2 | DTB_LENGTH | Length of block |
| (2) | CHARACTER | 1 | DTB_ARROW | '>' |
| (3) | CHARACTER | 3 | DTB_DFH | 'DFH' |
| (6) | CHARACTER | 2 | DTB_DOMID | 'DU' |
| (8) | CHARACTER | 8 | DTB_BLOCK_NAME | 'STDBLOCK' or 'TDTBLOCK' |
| (10) | ADDRESS | 4 | DTB_NEXT | Ptr Next Dump Table Block |
| (14) | CHARACTER | 0 | * | |

FTB - Block header for Feature table

Table 113.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-------------------|
| (0) | STRUCTURE | 20 | FTB | |
| (0) | CHARACTER | 20 | FTB_PREFIX | Standard prefix |
| (0) | HALFWORD | 2 | FTB_LENGTH | Length of block |
| (2) | CHARACTER | 1 | FTB_ARROW | '>' |
| (3) | CHARACTER | 3 | FTB_DFH | 'DFH' |
| (6) | CHARACTER | 2 | FTB_DOMID | 'DU' |
| (8) | CHARACTER | 8 | FTB_BLOCK_NAME | 'FTBLOCK' |
| (10) | ADDRESS | 4 | FTB_NEXT | Ptr Next FT table |
| (14) | CHARACTER | 0 | * | block |

BTB - Block header for Dump Table Browse Token Table

Table 114.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-----------------------------|
| (0) | STRUCTURE | 20 | BTB | |
| (0) | CHARACTER | 20 | BTB_PREFIX | Standard prefix |
| (0) | HALFWORD | 2 | BTB_LENGTH | Length of block |
| (2) | CHARACTER | 1 | BTB_ARROW | '>' |
| (3) | CHARACTER | 3 | BTB_DFH | 'DFH' |
| (6) | CHARACTER | 2 | BTB_DOMID | 'DU' |
| (8) | CHARACTER | 8 | BTB_BLOCK_NAME | 'BTTBLOCK' |
| (10) | ADDRESS | 4 | BTB_NEXT | Ptr Next Browse Table Block |
| (14) | CHARACTER | 0 | * | |

DTE - Dump Table element. Used for System or Transaction Dump Table.

Table 115.

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------|-----------|-----|---------------------------|---|
| (0) | STRUCTURE | 48 | DTE | |
| (0) | ADDRESS | 4 | DTE_NEXT | Ptr Next DTE |
| (4) | ADDRESS | 4 | DTE_PREV | Ptr Previous DTE |
| (8) | CHARACTER | 8 | DTE_DUMP CODE | Tran dump code bytes 1-4 or system dump code bytes 1-8 |
| (10) | UNSIGNED | 1 | DTE_DUMPSCOPE | Scope of the dump. RELATED or LOCAL |
| (11) | UNSIGNED | 1 | DTE_TRANSACTION_DUMP | Tran dump reqd |
| (12) | UNSIGNED | 1 | DTE_SYSTEM_DUMP | System dump reqd |
| (13) | UNSIGNED | 1 | DTE_TERMINATE_CICS | Terminate CICS reqd |
| (14) | FULLWORD | 4 | DTE_MAXIMUM_DUMPS | Only take this number |
| (18) | FULLWORD | 4 | DTE_COUNT | Number of dump calls |
| (1C) | FULLWORD | 4 | DTE_TRAN_DUMPS_TAKEN | Number of tran dumps taken |
| (20) | FULLWORD | 4 | DTE_TRAN_DUMPS_SUPPRESSED | Number of tran dumps suppressed |
| (24) | FULLWORD | 4 | DTE_SYS_DUMPS_TAKEN | Number of system dumps taken |
| (28) | FULLWORD | 4 | DTE_SYS_DUMPS_SUPPRESSED | Number of system dumps suppressed |
| (2C) | UNSIGNED | 1 | DTE_DAE OPT | PASS SYMPTOM |
| RECORD ONTO DFHDUSVC | | | | |
| (2D) | CHARACTER | 3 | * | |

FTE - Feature table element.

Table 116.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------------|------------------|
| (0) | STRUCTURE | 124 | FTE | |
| (0) | ADDRESS | 4 | FTE_NEXT | Ptr Next FTE |
| (4) | ADDRESS | 4 | FTE_PREV | Ptr Previous FTE |
| (8) | CHARACTER | 8 | FTE_FEATURE_TOKEN | |
| (10) | CHARACTER | 2 | FTE_STATUS | Register? |
| (12) | CHARACTER | 30 | FTE_COMPANY_NAME | |
| (30) | CHARACTER | 30 | FTE_FEATURE_NAME | |
| (4E) | CHARACTER | 10 | FTE_FEATURE_LEVEL | |
| (58) | CHARACTER | 8 | FTE_DUMP_FORMATTING_ ROUTINE | |
| (60) | CHARACTER | 8 | FTE_TRACE_ FORMATTING_ROUTINE | |
| (68) | CHARACTER | 9 | FTE_TRACE_ ABBREVIATED_NAME | |
| (71) | CHARACTER | 1 | * | |
| (72) | UNSIGNED | 2 | FTE_COUNT | |
| (74) | CHARACTER | 8 | FTE_FEATURE_TRACE_ TOKEN | |
| (7C) | CHARACTER | 0 | * | |

BTE - Browse Table element for Browse Token Table.

Table 117.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (0) | STRUCTURE | 32 | BTE | |
| (0) | ADDRESS | 4 | BTE_NEXT | Ptr Next DTE |
| (4) | ADDRESS | 4 | BTE_PREV | Ptr Previous DTE |
| (8) | ADDRESS | 4 | BTE_TOKEN | Ptr BTE_DUMPCODE |
| (C) | CHARACTER | 8 | BTE_DUMPCODE | Tran dump code bytes 1-4 or system dump code bytes 1-8 |
| (14) | FULLWORD | 4 | * | Reserved |
| (18) | FULLWORD | 4 | * | Reserved |
| (1C) | FULLWORD | 4 | * | Reserved |
| (20) | CHARACTER | 0 | * | |

Definition of catalog record for dump

Table 118.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|--------------------|
| (0) | STRUCTURE | 40 | CC_DU_STATE | |
| (0) | FULLWORD | 4 | DUA_RUN_NO | Dump ID |
| (4) | CHARACTER | 8 | CURRENT_DDS | Current tran dumps |
| (4) | CHARACTER | 6 | * | 'DFHDMP' |

Table 118. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------------|--------------------------------|
| (A) | CHARACTER | 1 | DDS_SUFFIX | 'A' or 'B' |
| (B) | CHARACTER | 1 | * | ' ' |
| (C) | BIT(8) | 1 | ST_FLAGS | Status flags |
| (C) | 1... | | AUTOSWITCH | Autoswitch active |
| (C) | .1.. | | GL_SYS_SUP | Global system dump suppression |
| (C) | ..1. | | DUA_DAE_DEFAULT | 1=DAE |
| (C) | ...1 1111 | | * | Reserved |
| (D) | BIT(8) | 1 | INITIAL_DDS | Initial dumpds flag |
| (D) | 1... | | DFHDMPIA_INITIAL | DFHDMPIA selected |
| (D) | .1.. | | DFHDMPIB_INITIAL | DFHDMPIB selected |
| (D) | ..1. | | AUTO_INITIAL | Either selected |
| (D) | ...1 1111 | | * | Reserved |
| (E) | HALFWORD | 2 | DUA_RETRY_TIME | SDUMP retry |
| Default size and type for Transaction Dump trace | | | | |
| (10) | FULLWORD | 4 | DUA_DUMP_TRACE_SIZE | Length |
| of dump trace requested via SIT | | | | |
| (14) | BIT(8) | 1 | DUA_DUMP_TRACE_FLAG | |
| (14) | 1... | | DUA_DUMP_TRACE_TYPE | 1 = ALL 0 = TRAN |
| (14) | .111 1111 | | * | |
| (15) | CHARACTER | 3 | * | Reserved |
| Defaults for dump table | | | | |
| (18) | FULLWORD | 4 | DUA_TRDUMAX_DEFAULT | |
| (1C) | FULLWORD | 4 | DUA_SYDUMAX_DEFAULT | |
| (20) | CHARACTER | 8 | * | Reserved |

Interface block for the formatting routines of transaction dump
The storage for this area is allocated from DUXD dynamic storage
and is therefore only available during execution of transaction
dump.

Table 119.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------|
| (0) | STRUCTURE | 256 | XFINTER | |
| (0) | ADDRESS | 4 | CSA_PTR | CSA address |
| (4) | ADDRESS | 4 | TCA_PTR | TCA address |
| (8) | ADDRESS | 4 | DUDD_PLIST | DUDU plist address |
| (C) | CHARACTER | 128 | REGSAVE64 | |
| (C) | CHARACTER | 64 | * | |
| (4C) | CHARACTER | 64 | REGSAVE | |
| (8C) | CHARACTER | 16 | PSWSAVE | Saved associated PSW |
| (8C) | CHARACTER | 4 | * | |

Table 119. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------------|--|
| (90) | CHARACTER | 4 | PSWSAVE2 | Saved PSW address |
| (94) | CHARACTER | 8 | * | |
| (9C) | CHARACTER | 16 | PSW16SAVE | Saved PSW16 |
| (AC) | CHARACTER | 8 | BEAR | Saved BEAR |
| (B4) | CHARACTER | 8 | TEA | Saved TEA |
| (BC) | BIT(8) | 1 | ABEND_FLAGS | Abend flags #1 |
| (BC) | 1... | | ASRA | 'ASRA' abend |
| (BC) | .1.. | | ASRB | 'ASRB' abend |
| (BC) | ..1. | | AICA | 'AICA' abend |
| (BC) | ...1 | | ASRD | 'ASRD' abend |
| (BC) | 1... | | ASRE | 'ASRE' abend |
| (BC) |111 | | * | Reserved |
| (BD) | BIT(8) | 1 | * | |
| (BD) | 1... | | PROG_CHK | Premature termination |
| (BD) | .1.. | | REMOTE_ABEND | DPL remote abend |
| (BD) | ..1. | | SUBSPACE_ACT | subspace or base? |
| (BD) | ...1 | | REGS64_AVAIL | 64-bit registers dumped? |
| (BD) | 1111 | | * | |
| (BE) | CHARACTER | 2 | * | Alignment |
| The following fields are used by DFHXRDF | | | | |
| (C0) | ADDRESS | 4 | XRF_DUXW | Addr. DUXW plist |
| (C4) | ADDRESS | 4 | XRF_PTR | Parameter address |
| (C8) | CHARACTER | 4 | ABEND_SYSID | SYSID from which the remote DPL abend was received |
| ----- TRACE TABLE VALUES USED IN DFHTRXDF ----- | | | | |
| (CC) | FULLWORD | 4 | COPY_TAB_LEN | ACTUAL LENGTH |
| (D0) | ADDRESS | 8 | COPY_TAB_PTR | ADDR OF COPY TABLE |
| (D8) | FULLWORD | 4 | COPY_TAB_SEGMENTS | LENGTH IN 1M SEGMENTS |
| (DC) | UNSIGNED | 1 | TRACE_FLAGS | |
| (DC) | 1... | | NEW_TAB_WRAP | WRAPPED YET FLAG |
| (DC) | .1.. | | ANY_RELEVANT | ANY RELEVANT YET |
| (DC) | ..11 1111 | | * | |
| (DD) | CHARACTER | 3 | * | |
| ----- USED FOR THE MAPPING OF THE ENTRIES FROM ORIGINAL TABLE ----- | | | | |
| (E0) | ADDRESS | 8 | NEW_TAB_PTR | |
| PTR TO CURRENT BLOCK IN NEW | | | | |

Table 119. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|----------|-----|----------------|-------------------------------------|
| (E8) | ADDRESS | 8 | NEW_TAB_BASE | |
| PTR TO BASE OF NEW TABLE | | | | |
| (F0) | ADDRESS | 8 | NEW_END_PTR | |
| PTR TO FIRST BYTE PAST TABLE | | | | |
| (F8) | FULLWORD | 4 | NEW_TAB_SIZE | ACTUAL LEN NEW TAB ROUNDED |
| (FC) | UNSIGNED | 4 | IARV64_RETCODE | Retcode from trc table getstor * |

The following block contains the data areas which are associated with the dump dataset DCB. It is allocated when the dataset is opened, and freed when either an explicit close is issued or the end of the current dataset is reached, and autoswitching is not enabled. The address of this block is in the dump domain anchor block.

The elements which are contained in this block are as follows:-

- ECB to be used with all I/O
- DCB for the dump dataset
- Write list expansion used with all MVS macros against the dataset.
- I/O buffer

THE BLOCK RESIDES BELOW THE 16M LINE

Table 120.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-----------------------------|
| (0) | STRUCTURE | 40 | OPEN_BLOCK | |
| (0) | UNSIGNED | 2 | LEN | Total length of block |
| (2) | CHARACTER | 6 | OB_CON1 | '>DFHDU' |
| (8) | CHARACTER | 8 | OB_CON2 | 'OPENBLOK' |
| (10) | ADDRESS | 4 | POINT_PTR | Used with NOTE/POINT |
| (14) | ADDRESS | 4 | DSET_TRLR_PTR | Addr. dataset trailer recd. |
| (18) | ADDRESS | 4 | ECB_PTR | Ptr ECB |
| (1C) | ADDRESS | 4 | OB_DCB_PTR | Ptr DCB |
| (20) | ADDRESS | 4 | WL_PTR | Ptr Remote parm list |
| (24) | ADDRESS | 4 | BSAM_RSA_PTR | Ptr RSA below 16M |
| (28) | CHARACTER | 0 | DATA_START | Dummy |

ECB

Table 121.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 20 | ECB | |
| (0) | BIT(8) | 1 | CON1 | X'00' |
| (1) | BIT(24) | 3 | CON1A | X'00' |
| (4) | BIT(8) | 1 | CON2 | X'00' |
| (5) | BIT(8) | 1 | CON3 | X'20' |
| (6) | UNSIGNED | 2 | DCECBIOL | Length |

Table 121. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|------------|-------------|
| (8) | ADDRESS | 4 | DCDCB | Ptr DCB |
| (C) | ADDRESS | 4 | DCECBIOA | Ptr Buffer |
| (10) | UNSIGNED | 4 | CON4 | X'00' |

Remote parameter list

Table 122.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 4 | WL | |
| (0) | CHARACTER | 1 | RES1 | Option byte |
| (1) | ADDRESS | 3 | WL_DCB_PTR | Ptr DCB |

Save area for BSAM calls (NOTE, POINT, WRITE, CHECK)

Table 123.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-------------|
| (0) | STRUCTURE | 72 | BSAM_SAVE_AREA | |
| (0) | ADDRESS | 4 | * (4294967314:0) | Save area |

Constants

Table 124.

| Len | Type | Value | Name | Description |
|-------------------------------------|------|-------|--------------------|-------------|
| Meanings of XD_FLAGS.SWITCH_IN_PROG | | | | |
| 0 | BIT | 1 | SWITCH_IN_PROG_YES | |
| 0 | BIT | 0 | SWITCH_IN_PROG_NO | |
| Meanings of XD_FLAGS.DUXD_ACTIVE | | | | |
| 0 | BIT | 1 | DUXD_ACTIVE_YES | |
| 0 | BIT | 0 | DUXD_ACTIVE_NO | |
| Meanings of XD_FLAGS.XDUCLSE_ACTIVE | | | | |
| 0 | BIT | 1 | XDUCLSE_ACTIVE_YES | |
| 0 | BIT | 0 | XDUCLSE_ACTIVE_NO | |
| Meanings of XD_FLAGS.XDUOUT_ACTIVE | | | | |
| 0 | BIT | 1 | XDUOUT_ACTIVE_YES | |
| 0 | BIT | 0 | XDUOUT_ACTIVE_NO | |
| Meanings of XD_FLAGS.XDUREQ_ACTIVE | | | | |
| 0 | BIT | 1 | XDUREQ_ACTIVE_YES | |
| 0 | BIT | 0 | XDUREQ_ACTIVE_NO | |
| Meanings of XD_FLAGS.OPEN_STATUS | | | | |
| 0 | BIT | 1 | XD_OPEN | |
| 0 | BIT | 0 | XD_CLOSED | |
| 0 | BIT | 0 | DUMP_TRACE_TRAN | |

Table 124. (continued)

| Len | Type | Value | Name | Description |
|---|-----------|----------|-------------------|----------------------------|
| 0 | BIT | 1 | DUMP_TRACE_ALL | |
| %DCL FMODN CHAR EXTERNAL General Constants | | | | |
| 0 | BIT | 1 | YES | |
| 0 | BIT | 0 | NO | |
| The following values are passed to XDOUT, as the first parm | | | | |
| 1 | HEX | 00 | XDOUT_XD_ACT | |
| 1 | HEX | 04 | XDOUT_XD_RESTART | |
| 1 | HEX | 08 | XDOUT_XD_ABTERM | |
| 1 | HEX | 0C | XDOUT_XD_INACT | |
| Block names for above. | | | | |
| 8 | CHARACTER | SDTBLOCK | SDTBLOCK_NAME | |
| 8 | CHARACTER | TDTBLOCK | TDTBLOCK_NAME | |
| 8 | CHARACTER | BTTBLOCK | BTTBLOCK_NAME | |
| 8 | CHARACTER | FTBLOCK | FTBLOCK_NAME | |
| 2 | CHARACTER | RE | FT_REGISTERED | |
| 2 | CHARACTER | DE | FT_DEREGISTERED | |
| Constants for DTE_DUMPSCOPE | | | | |
| 1 | DECIMAL | 1 | DTE_LOCAL | |
| Dump local address space | | | | |
| 1 | DECIMAL | 2 | DTE_RELATED | |
| Miscellaneous constants. | | | | |
| 1 | CHARACTER | > | ARROW | |
| 4 | DECIMAL | 16 | BDY16 | |
| 4 | HEX | FFFFFFF0 | BDY16ROUND | |
| 1 | DECIMAL | 2 | MAX_DUXWREC_COUNT | |
| Sizes of quickcell blocks | | | | |
| 4 | DECIMAL | 4096 | DTEBLOCK_SIZE | Size of dump table block |
| 4 | DECIMAL | 512 | BTEBLOCK_SIZE | Size of browse table block |
| 4 | DECIMAL | 4096 | FTE_BLOCK_SIZE | Size of FT table block |
| Size of buffer for Dump code statistics | | | | |
| 4 | DECIMAL | 1024 | STATS_BUFFER_SIZE | Size of stats buffer |
| Dump dataset record id's. | | | | |
| 4 | DECIMAL | 1 | DUID_DUMP_HEADER | |
| 4 | DECIMAL | 2 | DUID_DUA | |
| Dump record names. | | | | |
| 8 | CHARACTER | DUA | DUNM_DUA | |
| DUDM trace point ids | | | | |
| 2 | HEX | 0001 | TPID_DUDM_ENTER | |

Table 124. (continued)

| Len | Type | Value | Name | Description |
|----------------------|------|-------|-------------------------------|-------------|
| 2 | HEX | 0002 | TPID_DUDM_EXIT | |
| 2 | HEX | 0003 | TPID_DUDM_INVALID | |
| 2 | HEX | 0004 | TPID_DUDM_RECOV | |
| 2 | HEX | 0007 | TPID_DUDM_LOADFAIL | |
| 2 | HEX | 0008 | TPID_DUDM_GMAIN_DUA | |
| 2 | HEX | 0009 | TPID_DUDM_GMAIN_DUA_RET | |
| 2 | HEX | 000A | TPID_DUDM_GMAIN_SDT | |
| 2 | HEX | 000B | TPID_DUDM_GMAIN_SDT_RET | |
| 2 | HEX | 000C | TPID_DUDM_GMAIN_TDT | |
| 2 | HEX | 000D | TPID_DUDM_GMAIN_TDT_RET | |
| 2 | HEX | 000E | TPID_DUDM_GMAIN_STATS_BUF | |
| 2 | HEX | 000F | TPID_DUDM_GMAIN_STATS_BUF_RET | |
| | | | | * |
| DUDU trace point ids | | | | |
| 2 | HEX | 0101 | TPID_DUDU_ENTER | |
| 2 | HEX | 0102 | TPID_DUDU_EXIT | |
| 2 | HEX | 0103 | TPID_DUDU_INVALID | |
| 2 | HEX | 0104 | TPID_DUDU_RECOV | |
| 2 | HEX | 0105 | TPID_DUDU_DUMP_TABLE_NOT_INIT | |
| DUSR trace point ids | | | | |
| 2 | HEX | 0301 | TPID_DUSR_ENTER | |
| 2 | HEX | 0302 | TPID_DUSR_EXIT | |
| 2 | HEX | 0304 | TPID_DUSR_RECOV | |
| 2 | HEX | 0305 | TPID_DUSR_DFHDUMPX_ADD_FAILED | |
| DUDT trace point ids | | | | |
| 2 | HEX | 0500 | TPID_DUDT_ENTER | |
| 2 | HEX | 0501 | TPID_DUDT_EXIT | |
| 2 | HEX | 0502 | TPID_DUDT_RECOV | |
| 2 | HEX | 0503 | TPID_DUDT_INVAL_FORMAT | |
| 2 | HEX | 0504 | TPID_DUDT_INVAL_DT_FUNCTION | |
| 2 | HEX | 0505 | TPID_DUDT_INVAL_ST_FUNCTION | |
| DUTM trace point ids | | | | |
| 2 | HEX | 0600 | TPID_DUTM_ENTER | |
| 2 | HEX | 0601 | TPID_DUTM_EXIT | |
| 2 | HEX | 0602 | TPID_DUTM_RECOV | |

Table 124. (continued)

| Len | Type | Value | Name | Description |
|----------------------|------|-------|-----------------------------|-------------|
| 2 | HEX | 0603 | TPID_DUTM_INVAL_FORMAT | |
| 2 | HEX | 0604 | TPID_DUTM_INVAL_TM_FUNCTION | |
| 2 | HEX | 0605 | TPID_DUTM_INVAL_ST_FUNCTION | |
| 2 | HEX | 0606 | TPID_DUTM_INVAL_GETN_BT | |
| 2 | HEX | 0607 | TPID_DUTM_INVAL_ENDBR_BT | |
| 2 | HEX | 0608 | TPID_DUTM_INVALID_ST_TYPE | |
| 2 | HEX | 0609 | TPID_DUTM_GMAIN_BTT | |
| 2 | HEX | 060A | TPID_DUTM_GMAIN_BTT_RET | |
| 2 | HEX | 060B | TPID_DUTM_GMAIN_SDT | |
| 2 | HEX | 060C | TPID_DUTM_GMAIN_SDT_RET | |
| 2 | HEX | 060D | TPID_DUTM_GMAIN_TDT | |
| 2 | HEX | 060E | TPID_DUTM_GMAIN_TDT_RET | |
| 2 | HEX | 060F | TPID_DUTM_BTT_NOSTOR | |
| 2 | HEX | 0610 | TPID_DUTM_SDT_NOSTOR | |
| 2 | HEX | 0611 | TPID_DUTM_TDT_NOSTOR | |
| DUIO trace point ids | | | | |
| 2 | HEX | 0200 | DUIO_ENTRY | |
| 2 | HEX | 0201 | DUIO_EXIT | |
| 2 | HEX | 0202 | DUIO_RECOVERY | |
| 2 | HEX | 0203 | DUIO_DOPEN | |
| 2 | HEX | 0204 | DUIO_DOPEN_RET | |
| 2 | HEX | 0205 | DUIO_DEVTYPE | |
| 2 | HEX | 0206 | DUIO_DEVTYPE_RET | |
| 2 | HEX | 0207 | DUIO_GMAIN | |
| 2 | HEX | 0208 | DUIO_GMAIN_RET | |
| 2 | HEX | 0209 | DUIO_FRMAIN | |
| 2 | HEX | 020A | DUIO_FRMAIN_RET | |
| 2 | HEX | 020B | DUIO_CLOSED | |
| 2 | HEX | 020C | DUIO_CLOSED_RET | |
| 2 | HEX | 020D | DUIO_FRPOOL | |
| 2 | HEX | 020E | DUIO_FRPOOL_RET | |
| 2 | HEX | 020F | DUIO_DWRITE | |
| 2 | HEX | 0210 | DUIO_DWRITE_RET | |
| 2 | HEX | 0211 | DUIO_CHK | |
| 2 | HEX | 0212 | DUIO_CHK_RET | |
| 2 | HEX | 0214 | DUIO_DCB_ABEND | |

Table 124. (continued)

| Len | Type | Value | Name | Description |
|--|------|-------|----------------------|-------------|
| 2 | HEX | 0239 | DUIO_NOTE | |
| 2 | HEX | 0240 | DUIO_NOTERET | |
| 2 | HEX | 0241 | DUIO_POINT | |
| 2 | HEX | 0242 | DUIO_POINTRET | |
| DUSU trace point ids | | | | |
| 2 | HEX | 0215 | DUSU_ENTRY | |
| 2 | HEX | 0216 | DUSU_EXIT | |
| 2 | HEX | 0217 | DUSU_RECOVERY | |
| 2 | HEX | 0250 | DUSU_DYNALLOC_ENTER | |
| 2 | HEX | 0251 | DUSU_DYNALLOC_RETURN | |
| 2 | HEX | 0252 | DUSU_FRMAIN | |
| 2 | HEX | 0253 | DUSU_FRMAIN_RET | |
| DUXD trace point ids | | | | |
| 2 | HEX | 0218 | DUXD_ENTRY | |
| 2 | HEX | 0219 | DUXD_EXIT | |
| 2 | HEX | 021A | DUXD_RECOVERY | |
| DUXW trace point ids | | | | |
| 2 | HEX | 021B | DUXW_ENTRY | |
| 2 | HEX | 021C | DUXW_EXIT | |
| 2 | HEX | 021D | DUXW_RECOVERY | |
| XDF transaction dump formatter trace point ids | | | | |
| 2 | HEX | 021E | DLXDF_ENTRY | |
| 2 | HEX | 021F | DLXDF_EXIT | |
| 2 | HEX | 0220 | DLXDF_RECOVERY | |
| 2 | HEX | 0221 | XRXDF_ENTRY | |
| 2 | HEX | 0222 | XRXDF_EXIT | |
| 2 | HEX | 0223 | XRXDF_RECOVERY | |
| 2 | HEX | 0224 | TCXDF_ENTRY | |
| 2 | HEX | 0225 | TCXDF_EXIT | |
| 2 | HEX | 0226 | TCXDF_RECOVERY | |
| 2 | HEX | 0227 | PCXDF_ENTRY | |
| 2 | HEX | 0228 | PCXDF_EXIT | |
| 2 | HEX | 0229 | PCXDF_RECOVERY | |
| 2 | HEX | 022A | SAXDF_ENTRY | |
| 2 | HEX | 022B | SAXDF_EXIT | |
| 2 | HEX | 022C | SAXDF_RECOVERY | |
| 2 | HEX | 022D | FCXDF_ENTRY | |
| 2 | HEX | 022E | FCXDF_EXIT | |

Table 124. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-------|------------------------|-------------------|
| 2 | HEX | 022F | FCXDF_RECOVERY | |
| 2 | HEX | 0230 | TRXDF_ENTRY | |
| 2 | HEX | 0231 | TRXDF_EXIT | |
| 2 | HEX | 0232 | TRXDF_RECOVERY | |
| 2 | HEX | 0257 | TRXDF_IARV64_FAILED | |
| 2 | HEX | 0233 | XDxdf_ENTRY | |
| 2 | HEX | 0234 | XDxdf_EXIT | |
| 2 | HEX | 0235 | XDxdf_RECOVERY | |
| 2 | HEX | 0236 | SMXDF_ENTRY | |
| 2 | HEX | 0237 | SMXDF_EXIT | |
| 2 | HEX | 0238 | SMXDF_RECOVERY | |
| 2 | HEX | 0254 | EJXDF_ENTRY | |
| 2 | HEX | 0255 | EJXDF_EXIT | |
| 2 | HEX | 0256 | EJXDF_RECOVERY | |
| DFHDUSVC dump authorized routines trace point ids | | | | |
| 2 | HEX | 0710 | DUSVC_REMOTE_SDUMP | |
| 2 | HEX | 0711 | DUSVC_INVALID_PROBDESC | |
| DFHDUMPX SDUMP exit trace point ids | | | | |
| 2 | HEX | 0720 | DUMPX_ENTRY_ID | |
| 2 | HEX | 0721 | DUMPX_EXIT_ID | |
| 2 | HEX | 0722 | DUMPX_WLM_CALL | |
| 2 | HEX | 0723 | DUMPX_WLM_ERROR | |
| 2 | HEX | 0724 | DUMPX_WLM_RET | |
| 2 | HEX | 1F01 | TPID_DUFT_ENTER | |
| 2 | HEX | 1F02 | TPID_DUFT_EXIT | |
| 2 | HEX | 1F03 | TPID_DUFT_RECOV | |
| 2 | HEX | 1F10 | TPID_DUFT_GMAIN_FT | |
| 2 | HEX | 1F11 | TPID_DUFT_GMAIN_FT_RET | |
| 2 | HEX | 1FE1 | TPID_DUFT_FT_NOSTOR | |
| Dump catalog record constants | | | | |
| 0 | BIT | 1 | AUTOSWITCH_ON | |
| 0 | BIT | 0 | AUTOSWITCH_OFF | |
| 0 | BIT | 1 | GL_SYS_SUP_ON | |
| 0 | BIT | 0 | GL_SYS_SUP_OFF | |
| I/O buffer area length | | | | |
| 4 | DECIMAL | 4096 | MAXBUFF | Max buffer length |
| SPACING values used in conjunction with transaction dump rclds. | | | | |
| 1 | DECIMAL | 8 | SPACE3 | |

Table 124. (continued)

| Len | Type | Value | Name | Description |
|----------|---------|-------|-----------------|-------------|
| 1 | DECIMAL | 4 | SPACE2 | |
| 1 | DECIMAL | 0 | SPACE1 | |
| Messages | | | | |
| 4 | DECIMAL | 1 | DU_ABEND_MSG | DFHDU001 |
| 4 | DECIMAL | 2 | DU_ERROR_MSG | DFHDU002 |
| 4 | DECIMAL | 4 | DU_LOOP_MSG | DFHDU004 |
| 4 | DECIMAL | 102 | DUIO_LOAD_ERROR | DFHDU102 |
| 4 | DECIMAL | 302 | MSG302 | DFHDU302 |
| 4 | DECIMAL | 303 | DUSU_MSG#2 | DFHDU303 |
| 4 | DECIMAL | 304 | DUSU_MSG#1 | DFHDU304 |
| 4 | DECIMAL | 305 | DUSU_MSG#3 | DFHDU305 |
| 4 | DECIMAL | 306 | MSG306 | DFHDU306 |
| 4 | DECIMAL | 307 | MSG307 | DFHDU307 |
| 4 | DECIMAL | 310 | MSG310 | DFHDU310 |

DWE - Deferred work element

CONTROL BLOCK NAME = DFHDWEDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHDWEPS
DESCRIPTIVE NAME = CICS TS Deferred Work Element.
DEFERRED WORK ELEMENT

Table 125.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHDWEDS | DUMMY SECTION-DEFRD.WORK ELEM. |
| (0) | HALFWORD | 2 | DWELENG | Length of this DWE |
| (2) | CHARACTER | 4 | DWEEYECA | Eyecatcher set to '>DWE' |
| (6) | CHARACTER | 1 | | Reserved |
| (7) | BITSTRING | 1 | DWESMF | Storage Management Flag |
| (7) | 1... | | DWESMFNT | "X'80" Non task related storage |
| (7) | ..1. | | DWESHUNT | "X'20" Retain DWE if in-doubt |
| (8) | ADDRESS | 4 | DWECHAN | ADDRESS OF NEXT DWE IN CHAIN |
| (C) | ADDRESS | 4 | DWESVMNA | Service module self defining entry point address |
| (10) | BITSTRING | 1 | DWESTAT | DWE STATUS INDICATOR |
| (10) | ..1. | | DWEPHS2 | "X'20" ...DWE APPLIES TO PHASE 2 OF SYNC POINT |
| (10) | 1... | | DWEDYNB | "X'08" ...BEING DYNAMICALLY BACKED OUT |

Table 125. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| (10) | 1.. | | DWEVTYES | "X'04'" ...VOTE 'YES' TO PREPARE |
| (10) | 1. | | DWECNLM | "X'02'" ...CANCELLED MASK |
| (10) | 1 | | DWEVTNO | "X'01'" ...'VOTE NO TO PREPARE' |
| (11) | BITSTRING | 1 | DWEMODFN | SERVICE MODULE FUNCTION CODE |
| NOTE APPROPRIATE CODES ARE DEFINED IN A SEPARATE DSECT LABELED DFHFMIDS | | | | |
| (12) | BITSTRING | 1 | DWESVMID | SERVICE MODULE IDENTIFIER |
| NOTE APPROPRIATE CODES ARE DEFINED IN A SEPARATE DSECT LABELED DFHFMIDS | | | | |
| (13) | BITSTRING | 1 | (5) | Reserved |
| (18) | ADDRESS | 4 | DWELXDA | EXTERNAL DATA ADDRESS |
| (1C) | ADDRESS | 4 | DWECMNEA (0) | END OF COMMON AREA |
| (1C) | ...1 11.. | | DWEEXT | "*'" DWE extensions |
| (1C) | ...1 1.. | | DWEAD | "*"-DFHDWEDS-8" ABSOLUTE DISPLACEMENT (GETMAIN) I.E. THE ABOVE IS DWE LEN |
| SYSTEM SPOOLING DWE EXTENSION | | | | |
| (1C) | HALFWORD | 2 | DWEPSRNM | REPORT-NUMBER |
| (1E) | CHARACTER | 1 | DWEPSCV | RECOVERY CODE |
| (1F) | CHARACTER | 1 | DWEPSTT | REPORT STATUS |
| (20) | CHARACTER | 8 | DWEPSTOK | REPORT TOKEN |
| (20) | ..1. | | DWEPSTAD | "*"-DFHDWEDS-8" PS DWE GETMAIN SIZE |
| GENERAL PURPOSE SUBTASKING DWE EXTENSION | | | | |
| (1C) | ADDRESS | 4 | DWESKWQE | ADDRESS OF WQE TO ADD TO |
| (1C) | ...1 1... | | DWESKAD | "*"-DFHDWEDS-8" SK DWE GETMAIN SIZE |

DBWMS - XRF/DBCTL Last message sent

CONTROL BLOCK NAME = DFHDBWMS
 DESCRIPTIVE NAME = CICS XRF/DBCTL Last Message Sent
 FUNCTION = Maps the XRF message for DBCTL
 LIFETIME =
 Storage obtained by GETMAIN
 LOCATION = CSA->OPFL->DLP->DGB->DXPS->DBWMS
 INNER CONTROL BLOCKS = None
 NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 Contained in PL/AS Copy Book DFHDXMAC
 Invoke by DXMSGPS NAME(qualifier)
 the qualifier is used to allow multiple copies of
 the message to be defined in the same program
 (rather than use of ->)

 EXTERNAL REFERENCES = None
 DATA AREAS = Contains names and Ids of IMS job
 GLOBAL VARIABLES (Macro pass) = None

Table 126.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|-----------|-----|----------------|---------------------------------|
| (0) | STRUCTURE | 78 | DFHDBWMS_DXMSG | |
| DECLARE THE DBCTL MESSAGE MAPPING | | | | |
| (0) | CHARACTER | 4 | DXMSG_WMSDBCID | IMS ssid |
| (4) | CHARACTER | 8 | DXMSG_WMSRSENM | IMS RSE name |
| (C) | CHARACTER | 8 | DXMSG_WMSJNAME | IMS MVS jobname |
| (14) | CHARACTER | 8 | DXMSG_WMSJOBID | IMS Jes Jobid |
| (1C) | CHARACTER | 4 | DXMSG_WMSSMFID | MVS SMF id |
| (20) | CHARACTER | 1 | DXMSG_WMSSIND | MVS System Indicator |
| (20) | 1... | | DXMSG_XCFA | XCF services available |
| (20) | .111 1111 | | * | Reserved |
| (21) | CHARACTER | 8 | DXMSG_WMSSPLX | XCF syslex name |
| (29) | CHARACTER | 8 | DXMSG_WMSSNAM | XCF system name |
| (31) | CHARACTER | 4 | DXMSG_WMSSTOK | MVS system intance token |
| (35) | CHARACTER | 4 | DXMSG_WMSJESID | SSID of active JES |
| (3A) | HALFWORD | 2 | DXMSG_WMSASID | IMS MVS asid |
| (3C) | CHARACTER | 1 | DXMSG_WMSITYPE | IMS region type |
| (40) | FULLWORD | 4 | DXMSG_WMSUERC | User Exit Return Code |
| (44) | BIT(32) | 4 | DXMSG_WMSCTIME | IMS connect time |
| (48) | BIT(32) | 4 | DXMSG_WMSDTIME | IMS disconnect time |
| (4C) | CHARACTER | 1 | DXMSG_FLGS1 | FLGS to show message type |
| (4C) | 1... | | DXMSG_DBCF | DBCTL failure |
| (4C) | .1.. | | DXMSG_DRAF | DRA failure |
| (4C) | ..1. | | DXMSG_CON | Connection complete |
| (4C) | ...1 | | DXMSG_CATCH | Catchup message |
| (4C) | 1... | | DXMSG_DISC | Disconnection complete |
| (4C) |1.. | | DXMSG_ERROR | Error in control tran / exit |
| (4C) |11 | | * | Filler for remainder of byte |
| (4D) | CHARACTER | 1 | DXMSG_FLGS2 | FLGS to show active environment |
| (4D) | 1... | | DXMSG_MVSID | MVSid in active AXI |
| (4D) | .1.. | | DXMSG_APPLID | Active applid in AXI |

Table 126. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (4D) | ..1. | | DXMSG_JES | Active CICS & IMS on same JES |
| (4D) | ...1 | | DXMSG_ALT | Alternate found on active CEC |
| (4D) | 1... | | DXMSG_CMD | CMD issued OK on active CEC |
| (4D) |111 | | * | Filler for remainder of byte |

Constants

Table 127.

| Len | Type | Value | Name | Description |
|-----|---------|-------|-------------|----------------------------|
| 1 | DECIMAL | 0 | DBCTL_DISC | DBCTL is not connected |
| 1 | DECIMAL | 4 | DBCTL_CONN | DBCTL is connected |
| 1 | DECIMAL | 8 | DBCTL_MCONN | DBCTL is morally connected |

DXPS - XRF/DBCTL DGB Extension

CONTROL BLOCK NAME = DFHDXPS
 DESCRIPTIVE NAME = CICS XRF/DBCTL DGB Extension
 FUNCTION =
 DGBDXPS defines fields used by DBCTL/XRF which require a longer lifetime than CICS life can offer.
 LIFETIME =
 Created at the same time as the DGB, and never deleted.
 LOCATION = CSA->OPFL->DLP->DGB->DXPS
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 Contained in PL/AS Copy Book DFHDXMAC
 Invoke by DFHDXPS no operands

 EXTERNAL REFERENCES = None
 DATA AREAS = Refers to DFHDBWMS, DX_Q_ELEMENT
 GLOBAL VARIABLES (Macro pass) = None

Table 128.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 36 | DFHDXPS | |
| (0) | ADDRESS | 4 | DXLSTMSG | Pointer to last DBCTL/XRF message |
| (4) | ADDRESS | 4 | DXSQHDR | Pointer to chain of MVS subtasks |
| (8) | ADDRESS | 4 | DXAXIBA | DFHAXI base address |
| (C) | ADDRESS | 4 | DXAXIGP | Pointer to current AXI group recd |
| (10) | ADDRESS | 4 | DXAXIPT | Pointer to current AXI record |

Table 128. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (14) | ADDRESS | 4 | DXRTRCNT | Number of retry connect attempts |
| (18) | CHARACTER | 4 | DXDBCID | SSID of first connect attempt |
| (1C) | BIT(32) | 4 | DXFLGS1 | Miscellaneous flags |
| (1C) | 1... | | AXI_LOADED | Reminder that AXI is to be del |
| (1C) | .1.. | | DBCTL_RST | Indicator that no DBCTL in RSE act |
| (1C) | ..1. | | DFS690SW | Indicator that DFS690 issued |
| (1C) | ...1 | | * | Reserved |
| (1C) | 1... | | RETCODE8 | Code 8 returned by previous call |
| (1C) |1.. | | DXEREFLG | Flag to indicate wait on DXEREECB |
| (1C) |11 | | * | Filler for remainder of byte |
| (20) | BIT(32) | 4 | DXEREECB | ECB cleared while ERE issued |
| (20) | BIT(8) | 1 | * | Reserved |
| (21) | BIT(12) | 2 | DXERECMP | ERE completion code Copy DXPS dsect |

DXQEL - XRF/DBCTL subtask storage

CONTROL BLOCK NAME = DX_Q_ELEMENT
 DESCRIPTIVE NAME = CICS XRF/DBCTL subtask storage
 FUNCTION =
 Defines the fields in an XRF/DBCTL subtask queue element
 LIFETIME =
 Storage obtained by GETMAIN
 LOCATION = CSA->OPFL->DLP->DGB->DXPS->DX_Q_ELEMENT
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 Contained in PL/AS Copy Book DFHDXMAC
 Invoke by DX_Q_ELE no operands

 EXTERNAL REFERENCES = None
 DATA AREAS = None
 GLOBAL VARIABLES (Macro pass) = None

Table 129.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--------------------------------|
| (0) | STRUCTURE | * | DX_Q_ELEMENT | Queue of XRF/DBCTL subtasks |
| (0) | ADDRESS | 4 | DX_NEXT_Q | Address of next Q element |
| (4) | CHARACTER | 8 | DX_CB_ID | DX control block id |
| (C) | ADDRESS | 4 | DX_TCB | Ptr to TCB of attached subtask |

Table 129. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|--------------------------------------|
| (10) | BIT(32) | 4 | DX_FLGS1 | DX flag bit settings .. |
| (10) | 1... | | DX_LOCK | Lock on this Q element storage |
| (10) | .1.. | | DETACHED | Use this bit to remember detach |
| (14) | BIT(32) | 4 | DX_EOT_ECB | End Of Task ECB for attached subtask |
| (14) | 1... | | * | Reserved |
| (14) | .1.. | | POSTED | Post bit within ECB |
| (14) | ..11 1111 | | * | Reserved |
| (15) | BIT(24) | 3 | DX_CC | Subtask completion code |
| (18) | ADDRESS | 4 | DX_EP_ADDR | Entry Point for attached subtask |
| (1C) | FULLWORD | 4 | DX_PARM_LEN | Parameter length for attached stask |
| (20) | CHARACTER | * | DX_PARMS | Parameters passed to attached |

DXUEP - CICS-DBCTL XRF User Exit Parameter List

```

CONTROL BLOCK NAME = DFHDXUEP
NAME OF MATCHING PLS CONTROL BLOCK = NONE
DESCRIPTIVE NAME = CICS/MVS XRF support of DBCTL
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1990
FUNCTION =
    Defines the parameter list passed to the Global User Exits
    XXDFA,XXDFB, and XXDT0.
    This control block is built by programs DFHDBCT and DFHDBCR
    when a user decision is required on whether to perform an XRF
    takeover after a DBCTL failure, or a DBCTL takeover after a
    CICS failure.
LIFETIME =
    This control block is created in the lifo of DFHDBCT or
    DFHDBCR to communicate with XXDFA,XXDFB or XXDT0 the
    control block is completely reinitialized every time one
    of these exits is invoked.
STORAGE CLASS =
    LIFO
LOCATION =
    N/A
INNER CONTROL BLOCKS =
    N/A
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
        None
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES =
    Identify referenced items defined outside this control
    block. Such external references should be avoided.
DATA AREAS =

```

None
CONTROL BLOCKS =
None
GLOBAL VARIABLES (Macro pass) =
None

-----00-----

Table 130.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|--------------|-------------------------------------|
| (0) | STRUCTURE | 0 | DFHDXUEP | |
| (0) | CHARACTER | 4 | UEPDXADB | SSID of old active IMS |
| (4) | CHARACTER | 4 | UEPDXBDB | SSID of proposed alternate |
| (8) | CHARACTER | 8 | UEPDXSAD | CICS specific applid |
| (10) | CHARACTER | 8 | UEPDXRSE | IMS RSE name |
| (18) | CHARACTER | 4 | UEPDXCTM | IMS connect time |
| (1C) | CHARACTER | 4 | UEPDXDTM | IMS disconnect/abend time |
| (20) | CHARACTER | 8 | UEPDXJNM | Jes Jobname of old active IMS |
| (28) | CHARACTER | 8 | UEPDXJID | Jes Jobid of old active IMS |
| (30) | BITSTRING | 1 | UEPDXIRT | IMS region type |
| (30) |1 | | DXHOTSBY | "X'01'" region type is hot standby |
| (30) |1. | | DXDBDC | "X'02'" region type is IMS DB/DC |
| (30) |1.. | | DXDBCTL | "X'04'" region type is DBCTL |
| (31) | CHARACTER | 4 | UEPDXSMF | SMFID of active CEC |
| (35) | CHARACTER | 4 | UEPDXJES | Jes SSID of active CEC |
| (3A) | HALFWORD | 2 | UEPDXASD | ASID of old active IMS |
| (3C) | FULLWORD | 4 | UEPDXRTC | Return code from XXDFA (XXDFB only) |
| (40) | FULLWORD | 4 | UEPDXATC (0) | Action code from XXDFA (XXDFB only) |
| (40) | BITSTRING | 1 | DXMVSID | Active IMS had SSID in AXI RSE |
| (41) | BITSTRING | 1 | DXAPPLID | Active CICS has Applid in AXI RSE |
| (42) | BITSTRING | 1 | DXEQJES | Active CICS on same JES as IMS |
| (43) | BITSTRING | 1 | DXALTFND | Alternate IMS fnd in active CEC |
| (44) | BITSTRING | 1 | DXCMDISS | Restart issued in active CEC |
| (45) | BITSTRING | 1 | UEPDXSND | MVS System Indicator |
| (45) | 1... | | DXXCFA | "X'80'" ...XCF services available |
| (46) | CHARACTER | 8 | UEPDXSPX | XCF sysplex name for active |
| (4E) | CHARACTER | 8 | UEPDXSNM | MVS system name for active |
| (56) | CHARACTER | 4 | UEPDXSTK | MVS System token for active |

D2GDS - CICS/DB2 Global statistics

```

CONTROL BLOCK NAME = DFHD2GDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHD2GPS
DESCRIPTIVE NAME = CICS TS DB2 Global statistics
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1997, 2009
FUNCTION =
    This dsect describes the CICS/DB2 statistics provided by
    the CICS/DB2 Attachment facility.
    A single record will be built to respond to a request for
    DB2CONN statistics.
LIFETIME =
    The statistics record is created when a global statistics
    request is received. Storage for the data block is released
    when the user task is detached.
STORAGE CLASS =
LOCATION =
    The user is passed a pointer to the head of the storage
    block.
INNER CONTROL BLOCKS = none
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Domain call buffer
-----
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = from CICS/DB2 Attachment Facility.
    GLOBAL VARIABLES (Macro pass) = none
-----
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHD2GDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

```

Table 131.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|--------------------------------------|
| (0) | STRUCTURE | 0 | DFHD2GDS | CICS/DB2 Global statistics |
| (0) | FULLWORD | 4 | (0) | fullword alignment |
| (0) | HALFWORD | 2 | D2GLEN | Length of data area |
| (0) | .11. .11. | | D2GIDE | "0102" CICS/DB2 global stats id mask |
| (2) | ADDRESS | 2 | D2GID | CICS/DB2 global stats id |
| (2) |1 | | D2GVERS | "X'01'" Stats version number id mask |
| (4) | CHARACTER | 1 | D2GDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | FULLWORD | 4 | D2G_GLOBAL_STATS (0) | global stats |
| (8) | CHARACTER | 8 | D2G_DB2CONN_NAME | name of the DB2CONN |
| (10) | CHARACTER | 4 | D2G_DB2_ID | DB2 sysid |
| (14) | CHARACTER | 4 | D2G_DB2_RELEASE | release of DB2 |
| (18) | CHARACTER | 8 | D2G_CONNECT_TIME_GMT | connect time (GMT) |
| (20) | CHARACTER | 8 | D2G_CONNECT_TIME_LOCAL | connect time (local) |
| (28) | CHARACTER | 8 | D2G_DISCONNECT_TIME_GMT | disconnect time (GMT) |

Table 131. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|-------------------------------------|
| (30) | CHARACTER | 8 | D2G_DISCONNECT_TIME_ LOCAL | disconnect time (local) |
| (38) | FULLWORD | 4 | D2G_TCB_LIMIT | max number of TCBs |
| (3C) | FULLWORD | 4 | D2G_TCB_CURRENT | current number of TCBs |
| (40) | FULLWORD | 4 | D2G_TCB_HWM | HWM of TCBs |
| (44) | FULLWORD | 4 | D2G_TCB_FREE | current number of free TCBs |
| (48) | FULLWORD | 4 | D2G_TCB_READYQ_ CURRENT | number of tasks on TCB readyq |
| (4C) | FULLWORD | 4 | D2G_TCB_READYQ_HWM | peak number of tasks on TCB readyq |
| (50) | CHARACTER | 4 | D2G_DB2_GROUP_ID | DB2 group id |
| (54) | BITSTRING | 1 | D2G_RESYNCMEMBER | resync uow's |
| (55) | CHARACTER | 3 | | reserved |
| (58) | FULLWORD | 4 | D2G_REUSELIMIT | Thread reuse limit |
| (5C) | CHARACTER | 28 | | reserved |
| (78) | FULLWORD | 4 | D2G_POOL_STATS (0) | pool statistics |
| (78) | CHARACTER | 8 | D2G_POOL_PLAN_NAME | static plan name if any |
| (80) | CHARACTER | 8 | D2G_POOL_PLANEXIT_ NAME | planexit name if any |
| (88) | CHARACTER | 8 | D2G_POOL_AUTHID | static authid if any |
| (90) | BITSTRING | 1 | D2G_POOL_AUTHTYPE | authtype if any |
| (91) | BITSTRING | 1 | D2G_POOL_ACCOUNTREC | Accountrec setting |
| (92) | BITSTRING | 1 | D2G_POOL_THREADWAIT | Threadwait setting |
| (93) | BITSTRING | 1 | D2G_POOL_PRIORITY | thread priority |
| (94) | FULLWORD | 4 | D2G_POOL_CALLS | number of calls using pool |
| (98) | FULLWORD | 4 | D2G_POOL_SIGNONS | number of signons |
| (9C) | FULLWORD | 4 | D2G_POOL_COMMITS | number of commits |
| (A0) | FULLWORD | 4 | D2G_POOL_ABORTS | number of aborts |
| (A4) | FULLWORD | 4 | D2G_POOL_SINGLE_PHASE | number of single phase commits |
| (A8) | FULLWORD | 4 | D2G_POOL_THREAD_REUSE | number of thread reuses |
| (AC) | FULLWORD | 4 | D2G_POOL_THREAD_TERM | number of thread terminates |
| (B0) | FULLWORD | 4 | D2G_POOL_THREAD_WAITS | number of thread waits |
| (B4) | FULLWORD | 4 | D2G_POOL_THREAD_LIMIT | maximum number of threads |
| (B8) | FULLWORD | 4 | D2G_POOL_THREAD_ CURRENT | current number of threads |
| (BC) | FULLWORD | 4 | D2G_POOL_THREAD_HWM | peak number of threads |
| (C0) | FULLWORD | 4 | D2G_POOL_TASK_CURRENT | current number of tasks |
| (C4) | FULLWORD | 4 | D2G_POOL_TASK_HWM | peak number of tasks |
| (C8) | FULLWORD | 4 | D2G_POOL_TASK_TOTAL | total number of tasks |
| (CC) | FULLWORD | 4 | D2G_POOL_READYQ_ CURRENT | number of tasks on ready queue |
| (D0) | FULLWORD | 4 | D2G_POOL_READYQ_HWM | peak number of tasks on ready queue |

Table 131. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------------------|--------------------------------|
| (D4) | FULLWORD | 4 | D2G_POOL_PARTIAL_ SIGNONS | number of partial signons |
| (D8) | FULLWORD | 4 | D2G_POOL_THREAD_ CREATE | number of thread creates |
| (DC) | FULLWORD | 4 | D2G_POOL_REUSELIMIT_ COUNT | number of times hit reuselimit |
| (E0) | CHARACTER | 16 | | reserved |
| (F0) | FULLWORD | 4 | D2G_COMMAND_STATS (0) | DSNC command statistics |
| (F0) | CHARACTER | 8 | D2G_COMD_AUTHID | static authid if any |
| (F8) | BITSTRING | 1 | D2G_COMD_AUTHTYPE | authtype if any |
| (F9) | CHARACTER | 3 | | reserved |
| (FC) | FULLWORD | 4 | D2G_COMD_CALLS | number of dsnc comd calls |
| (100) | FULLWORD | 4 | D2G_COMD_SIGNONS | number of signons |
| (104) | FULLWORD | 4 | D2G_COMD_THREAD_TERM | number of thread terminates |
| (108) | FULLWORD | 4 | D2G_COMD_THREAD_OVERF | number of overflows to pool |
| (10C) | FULLWORD | 4 | D2G_COMD_THREAD_LIMIT | maximum number of threads |
| (110) | FULLWORD | 4 | D2G_COMD_THREAD_CURRENT | current number of threads |
| (114) | FULLWORD | 4 | D2G_COMD_THREAD_HWM | peak number of threads |
| (118) | FULLWORD | 4 | D2G_COMD_THREAD_CREATE | number of thread creates |
| (11C) | CHARACTER | 32 | | reserved |
| (13C) | CHARACTER | 8 | D2G_DB2CONN_DEFINE_ SOURCE | Group installed from |
| (144) | BITSTRING | 8 | D2G_DB2CONN_CHANGE_ TIME | Change/create time |
| (14C) | CHARACTER | 8 | D2G_DB2CONN_CHANGE_ USERID | Change userid |
| (154) | BITSTRING | 2 | D2G_DB2CONN_CHANGE_ AGENT | Change agent |
| (156) | BITSTRING | 2 | D2G_DB2CONN_INSTALL_ AGENT | Install agent |
| (158) | BITSTRING | 8 | D2G_DB2CONN_INSTALL_ TIME | Install/Create time |
| (160) | CHARACTER | 8 | D2G_DB2CONN_INSTALL_ USERID | Install userid |
| (168) | BITSTRING | 4 | | Reserved |
| (168) | | 0 | D2G_END | "*" |
| (168) | | 0 | D2G_LENGTH | "*-D2GLEN" Length of dsect |
| Equates to test D2G_RESYNCMEMBER | | | | |
| (168) | .... .. |  | D2G_RESYNCMEMBER_ RESYNC | "0" Resync uow's |
| (168) |1 | | D2G_RESYNCMEMBER_ NORESYNC | "1" Noresync uow's |
| Equates to test D2G_POOL_AUTHTYPE and D2G_COMD_AUTHTYPE | | | | |
| (168) | .... .. |  | D2G_AUTHTYPE_NA | "0" Not applicable |
| (168) |1 | | D2G_AUTHTYPE_USERID | "1" Authtype(userid) |
| (168) |1. | | D2G_AUTHTYPE_OPID | "2" Authtype(opid) |
| (168) |11 | | D2G_AUTHTYPE_GROUP | "3" Authtype(group) |

Table 131. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|-----------------------------|-----------------------------------|
| (168) |1.. | | D2G_AUTHTYPE_SIGNID | "4" Authtype(signid) |
| (168) |1.1 | | D2G_AUTHTYPE_TERM | "5" Authtype(term) |
| (168) |11. | | D2G_AUTHTYPE_TXID | "6" Authtype(txid) |
| Equates to test D2G_POOL_ACCOUNTREC | | | | |
| (168) |1 | | D2G_ACCOUNTREC_NONE | "1" Accountrec(none) |
| (168) |1. | | D2G_ACCOUNTREC_TXID | "2" Accountrec(txid) |
| (168) |11 | | D2G_ACCOUNTREC_TASK | "3" Accountrec(task) |
| (168) |1.. | | D2G_ACCOUNTREC_UOW | "4" Accountrec(uow) |
| Equates to test D2G_POOL_THREADWAIT | | | | |
| (168) |1 | | D2G_THREADWAIT_YES | "1" Threadwait(yes) |
| (168) |1. | | D2G_THREADWAIT_NO | "2" Threadwait(no) |
| Equates to test D2G_POOL_PRIORITY | | | | |
| (168) | .... .... |  | D2G_PRIORITY_NA | "0" Not applicable |
| (168) |1 | | D2G_PRIORITY_HIGH | "1" Priority(high) |
| (168) |1. | | D2G_PRIORITY_EQUAL | "2" Priority(equal) |
| (168) |11 | | D2G_PRIORITY_LOW | "3" Priority(low) |
| Equates to test D2G_DB2CONN_CHANGE_AGENT | | | | |
| (168) |1 | | D2G_DB2CONN_CSDAPI_CHANGE | "X'01" Change Agent - CSD API |
| (168) |1. | | D2G_DB2CONN_CSDBATCH_CHANGE | "X'02" Change Agent - DFHCSDUP |
| (168) |11 | | D2G_DB2CONN_DREPAPI_CHANGE | "X'03" Change Agent - DREP API |
| (168) |1.. | | D2G_DB2CONN_CREATE_CHANGE | "X'04" Change Agent - CREATE SPI |
| Equates to test D2G_DB2CONN_INSTALL_AGENT | | | | |
| (168) |1 | | D2G_DB2CONN_CSDAPI_INSTALL | "X'01" Install Agent - CSD API |
| (168) |1.. | | D2G_DB2CONN_CREATE_INSTALL | "X'04" Install Agent - CREATE SPI |
| (168) |1.1 | | D2G_DB2CONN_GRPLIST_INSTALL | "X'05" Install Agent - GRPLIST |

D2RDS - CICS/DB2 Resource statistics

CONTROL BLOCK NAME = DFHD2RDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHD2RPS
DESCRIPTIVE NAME = CICS TS DB2 Resource statistics

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FUNCTION =

This dsect describes the CICS/DB2 statistics provided by the CICS/DB2 Attachment facility.
A single record will be built to respond to a request for DB2ENTRY statistics.

LIFETIME =
 The statistics record is created when a resource statistics request is received. Storage for the data block is released when the user task is detached.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer

 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from CICS/DB2 Attachment Facility
 GLOBAL VARIABLES (Macro pass) = none

 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHD2RDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 132.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|--|
| (0) | STRUCTURE | 0 | DFHD2RDS | CICS/DB2 Resource statistics |
| (0) | FULLWORD | 4 | (0) | fullword alignment |
| (0) | HALFWORD | 2 | D2RLEN | Length of data area |
| (0) | .11. .111 | | D2RIDE | "0103" CICS/DB2 resource stats id mask |
| (2) | ADDRESS | 2 | D2RID | CICS/DB2 resource stats id |
| (2) |1 | | D2RVERS | "X'01'" Stats version number id mask |
| (4) | CHARACTER | 1 | D2RDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 8 | D2R_DB2ENTRY_NAME | name of the DB2ENTRY |
| (10) | CHARACTER | 8 | D2R_PLAN_NAME | static plan name if any |
| (18) | CHARACTER | 8 | D2R_PLANEXIT_NAME | planexit name if any |
| (20) | CHARACTER | 8 | D2R_AUTHID | static authid if any |
| (28) | BITSTRING | 1 | D2R_AUTHTYPE | authtype if any |
| (29) | BITSTRING | 1 | D2R_ACCOUNTREC | Accountrec setting |
| (2A) | BITSTRING | 1 | D2R_THREADWAIT | Threadwait setting |
| (2B) | BITSTRING | 1 | D2R_PRIORITY | thread priority |
| (2C) | FULLWORD | 4 | D2R_CALLS | number of calls using db2entry |
| (30) | FULLWORD | 4 | D2R_SIGNONS | number of signons |
| (34) | FULLWORD | 4 | D2R_COMMITS | number of commits |
| (38) | FULLWORD | 4 | D2R_ABORTS | number of aborts |
| (3C) | FULLWORD | 4 | D2R_SINGLE_PHASE | number of single phase commits |
| (40) | FULLWORD | 4 | D2R_THREAD_REUSE | number of thread reuses |

Table 132. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|------------|-----|-----------------------------|-------------------------------------|
| (44) | FULLWORD | 4 | D2R_THREAD_TERM | number of thread terminates |
| (48) | FULLWORD | 4 | D2R_THREAD_WAIT_OR_OVERFLOW | number of thread waits or overflows |
| (4C) | FULLWORD | 4 | D2R_THREAD_LIMIT | maximum number of threads |
| (50) | FULLWORD | 4 | D2R_THREAD_CURRENT | current number of threads |
| (54) | FULLWORD | 4 | D2R_THREAD_HWM | peak number of threads |
| (58) | FULLWORD | 4 | D2R_PTHREAD_LIMIT | maximum number of protected threads |
| (5C) | FULLWORD | 4 | D2R_PTHREAD_CURRENT | current number of protected threads |
| (60) | FULLWORD | 4 | D2R_PTHREAD_HWM | peak number of protected threads |
| (64) | FULLWORD | 4 | D2R_TASK_CURRENT | current number of tasks |
| (68) | FULLWORD | 4 | D2R_TASK_HWM | peak number of tasks |
| (6C) | FULLWORD | 4 | D2R_TASK_TOTAL | total number of tasks |
| (70) | FULLWORD | 4 | D2R_READYQ_CURRENT | number of tasks on ready queue |
| (74) | FULLWORD | 4 | D2R_READYQ_HWM | peak number of tasks on ready queue |
| (78) | FULLWORD | 4 | D2R_PARTIAL_SIGNONS | number of partial signons |
| (7C) | FULLWORD | 4 | D2R_THREAD_CREATE | Number of thread creates |
| (80) | FULLWORD | 4 | D2R_REUSELIMIT_COUNT | Number times reuselimt reached |
| (84) | CHARACTER | 24 | | reserved |
| (9C) | CHARACTER | 8 | D2R_DEFINE_SOURCE | Group installed from |
| (A4) | BITSTRING | 8 | D2R_CHANGE_TIME | Change/create time |
| (AC) | CHARACTER | 8 | D2R_CHANGE_USERID | Change userid |
| (B4) | BITSTRING | 2 | D2R_CHANGE_AGENT | Change agent |
| (B6) | BITSTRING | 2 | D2R_INSTALL_AGENT | Install agent |
| (B8) | BITSTRING | 8 | D2R_INSTALL_TIME | Install/Create time |
| (C0) | CHARACTER | 8 | D2R_INSTALL_USERID | Install userid |
| (C8) | BITSTRING | 4 | | Reserved |
| (C8) | 11.. 11.. | | D2R_END | "*" |
| (C8) | 11.. 11.. | | D2R_LENGTH | "*-D2RLEN" Length of dsect |
| Equates to test D2R_AUTHTYPE | | | | |
| (C8) | .... .... |  | D2R_AUTHTYPE_NA | "0" Not applicable |
| (C8) |1 | | D2R_AUTHTYPE_USERID | "1" Authtype(userid) |
| (C8) |1. | | D2R_AUTHTYPE_OPID | "2" Authtype(opid) |
| (C8) |11 | | D2R_AUTHTYPE_GROUP | "3" Authtype(group) |
| (C8) |1.. | | D2R_AUTHTYPE_SIGNID | "4" Authtype(signid) |
| (C8) |1.1 | | D2R_AUTHTYPE_TERM | "5" Authtype(term) |

Table 132. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|------------|-----|---------------------|--------------------------------|
| (C8) |11. | | D2R_AUTHTYPE_TXID | "6" Authtype(txid) |
| Equates to test D2R_ACCOUNTREC | | | | |
| (C8) |1 | | D2R_ACCOUNTREC_NONE | "1" Accountrec(none) |
| (C8) |1. | | D2R_ACCOUNTREC_TXID | "2" Accountrec(txid) |
| (C8) |11 | | D2R_ACCOUNTREC_TASK | "3" Accountrec(task) |
| (C8) |1.. | | D2R_ACCOUNTREC_UOW | "4" Accountrec(uow) |
| Equates to test D2R_THREADWAIT | | | | |
| (C8) |1 | | D2R_THREADWAIT_YES | "1" Threadwait(yes) |
| (C8) |1. | | D2R_THREADWAIT_NO | "2" Threadwait(no) |
| (C8) |11 | | D2R_THREADWAIT_POOL | "3" Threadwait(pool) |
| Equates to test D2R_PRIORITY | | | | |
| (C8) | .... .... |  | D2R_PRIORITY_NA | "0" Not applicable |
| (C8) |1 | | D2R_PRIORITY_HIGH | "1" Priority(high) |
| (C8) |1. | | D2R_PRIORITY_EQUAL | "2" Priority(equal) |
| (C8) |11 | | D2R_PRIORITY_LOW | "3" Priority(low) |
| Equates to test D2R_CHANGE_AGENT | | | | |
| (C8) |1 | | D2R_CSDAPI_CHANGE | "1" Change Agent - CSD API |
| (C8) |1. | | D2R_CSDBATCH_CHANGE | "2" Change Agent - DFHCSDUP |
| (C8) |11 | | D2R_DREPAPI_CHANGE | "3" Change Agent - DREP API |
| (C8) |1.. | | D2R_CREATE_CHANGE | "4" Change Agent - CREATE SPI |
| Equates to test D2R_INSTALL_AGENT | | | | |
| (C8) |1 | | D2R_CSDAPI_INSTALL | "1" Install Agent - CSD API |
| (C8) |1.. | | D2R_CREATE_INSTALL | "4" Install Agent - CREATE SPI |
| (C8) |1.1 | | D2R_GRPLIST_INSTALL | "5" Install Agent - GRPLIST |

ECA - Event control area

CONTROL BLOCK NAME = DFHECAPS
 DESCRIPTIVE NAME = CICS TS Event Control Area
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 FUNCTION =
 The Event Control Area is used by interval control (DFHICP).
 The ECA is obtained for a POST type ICE.
 It contains the ECB. The ECA's are getmained from a
 subpool called APECA which resides below the line and has
 USER access. The ICETECAA field will contain the address
 of the ECA associated with an ICE. If there is no ECA for the
 ICE then ICETECAA is zero. Inline DFHSMGFI calls are made
 to get and free ECAs.
 LIFETIME =

The control block is created with a POST type ICE.
The ECA is freed when the assoiated ICE is freed.
STORAGE CLASS =
The storage class is APECA.
LOCATION =
To locate an ECA use the ICETECAL field which contains the
address of the ECA associated with the ICE. If the ICETECAL
field equals zero then there is no ECA.
INNER CONTROL BLOCKS = none
NOTES :
DEPENDENCIES = none
RESTRICTIONS =
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = none
GLOBAL VARIABLES (Macro pass) = none

Table 133.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 4 | DFHECAPS | |
| (0) | UNSIGNED | 4 | ECATECB | Event Control Area |

Constants

Table 134.

| Len | Type | Value | Name | Description |
|-----|---------|----------|-------------|-------------|
| 4 | DECIMAL | 4 | ECA_LENGTH | Length ECA |
| 4 | HEX | 40008000 | ECA_POSTBIT | Post bits |

ECCDS - Capturespec Resource Statistics

CONTROL BLOCK NAME = DFHECCDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHECCPS
DESCRIPTIVE NAME = CICS TS Capturespec Resource Statistics
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FUNCTION =
This data area contains the capturespec resource statistics
provided by the EC component in the AP Domain.
It is provided for use in users monitoring applications
to map the statistics returned via the API or the
statistics global user exit.
There is a single instance of this data block.
LIFETIME =
This data block is created by the AP Domain to store
statistics to be passed to the user in response to a
for capturespec resource statistics. The storage is
released when the user task is detached.
The DSECT also maps the contents of part of the SMF buffer
created by the statistics domain and is used in the
statistics exit.
STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage
block.
INNER CONTROL BLOCKS = None

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHECCDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 135.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|------------------------|---|
| (0) | STRUCTURE | 0 | DFHECCDS | Capturespec Resource stats record |
| (0) | HALFWORD | 2 | ECCDS_LEN | Capturespec stats record length |
| (2) | ADDRESS | 2 | ECCDS_ID | Capturespec stats id |
| (4) | CHARACTER | 1 | ECCDS_VERS | Capturespec stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 32 | ECC_EVENTBINDING_NAME | Eventbinding name |
| (28) | CHARACTER | 32 | ECC_CAPTURESPEC_NAME | Capturespec name |
| (48) | BITSTRING | 2 | ECC_CAPTURE_POINT_TYPE | Capturespec point type |
| (4A) | CHARACTER | 25 | ECC_CAPTURE_POINT | Capturespec capture point |
| (63) | BITSTRING | 1 | | Reserved |
| (64) | CHARACTER | 32 | ECC_EVENT_NAME | Event name |
| (84) | BITSTRING | 4 | | Reserved |
| (88) | FULLWORD | 8 | ECC_EVENTS_CAPTURED | Total events captured |
| (90) | FULLWORD | 4 | ECC_CAPTURE_FAILURES | Number of capture failures |
| (94) | BITSTRING | 8 | | Reserved |
| (94) | 1..1 11.. | | ECCDS_END | "*" |
| (94) | 1..1 11.. | | ECCDS_LENGTH | "*-ECCDS_LEN" Capturespec Resource record length |
| Constants that denote a Capturespec resource stats record | | | | |
| (94) | 1... 1111 | | ECCIDE | "143" Capturespec resource stats id |
| (94) |1 | | ECC_VERS | "X'01" Record version number |
| The following values relates to ecc_capture_point_type | | | | |
| (94) |1 | | ECC_PTYPE_PRECOMMAND | "0001" |
| (94) |1. | | ECC_PTYPE_POSTCOMMAND | "0002" |
| (94) |11 | | ECC_PTYPE_PROGRAMINIT | "0003" |
| (94) |1.. | | ECC_PTYPE_SYSTEM | "0004" ! |

ECGDS - Eventbinding Global Statistics

CONTROL BLOCK NAME = DFHECGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHECGPS
DESCRIPTIVE NAME = CICS TS Eventbinding Global Statistics
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FUNCTION =
This data area contains the eventbinding global statistics provided by the EC component in the AP Domain.
It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.
There is a single instance of this data block.

LIFETIME =
This data block is created by the AP Domain to store statistics to be passed to the user in response to a for eventbinding global statistics. The storage is released when the user task is detached.
The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = None

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHECGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 136.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHECGDS | Eventbinding Global stats record |
| (0) | HALFWORD | 2 | ECGDS_LEN | Eventbinding stats record length |
| (2) | ADDRESS | 2 | ECGDS_ID | Eventbinding stats id |
| (4) | CHARACTER | 1 | ECGDS_VERS | Eventbinding stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 8 | ECG_EB_EVENT_FILTER_ OPS | Total event filtering operations |
| (10) | FULLWORD | 8 | ECG_EB_EVENTS_ CAPTURED | Total events captured |
| (18) | FULLWORD | 4 | ECG_EB_EVENTS_ DISABLED | Events with disabled eventbinding |
| (1C) | FULLWORD | 4 | | Reserved |
| (20) | FULLWORD | 8 | ECG_SYS_EVENTS_ CAPTURED | Total system events captured |
| (28) | FULLWORD | 4 | ECG_FILTER_OPS_FAILED | No. filter operations failed |
| (2C) | FULLWORD | 4 | ECG_CAPTURE_OPS_ FAILED | No. capture operations failed |

Table 136. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------------------|--|
| (30) | FULLWORD | 4 | ECG_EVENTS_LOST_CONFIG | Retired - do not reuse |
| (34) | FULLWORD | 4 | ECG_EVENTS_LOST_OTHER | Retired - do not reuse |
| (38) | BITSTRING | 16 | | Reserved |
| (38) | .1.. 1... | | ECGDS_END | "*" |
| (38) | .1.. 1... | | ECGDS_LENGTH | "*-ECGDS_LEN" Eventbinding Global record length |
| Constants that denote a Eventbinding global stats record | | | | |
| (38) | 1... 11.. | | ECGIDE | "140" Eventbinding global stats id |
| (38) |1 | | ECG_VERS | "X'01" Record version number |

ECRDS - Eventbinding Resource Statistics

CONTROL BLOCK NAME = DFHECRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHECRPS
DESCRIPTIVE NAME = CICS TS Eventbinding Resource Statistics
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FUNCTION =
This data area contains the eventbinding resource statistics provided by the EC component in the AP Domain. It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit. There is a single instance of this data block.

LIFETIME =
This data block is created by the AP Domain to store statistics to be passed to the user in response to a for eventprocess resource statistics. The storage is released when the user task is detached. The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = None

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHECRDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 137.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------------|
| (0) | STRUCTURE | 0 | DFHECRDS | Eventbinding Resource stats record |

Table 137. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------------|--|
| (0) | HALFWORD | 2 | ECRDS_LEN | Eventbinding stats record length |
| (2) | ADDRESS | 2 | ECRDS_ID | Eventbinding stats id |
| (4) | CHARACTER | 1 | ECRDS_VERS | Eventbinding stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 32 | ECR_EVENTBINDING_NAME | Eventbinding name |
| (28) | BITSTRING | 8 | | Reserved |
| (30) | FULLWORD | 4 | | Reserved |
| (34) | FULLWORD | 4 | | Reserved |
| (38) | CHARACTER | 32 | ECR_EPADAPTER_NAME | EP adapter name |
| (58) | CHARACTER | 8 | ECR_EB_DEFINE_SOURCE | Group installed from |
| (60) | BITSTRING | 8 | ECR_EB_CHANGE_TIME | Change/create time |
| (68) | CHARACTER | 8 | ECR_EB_CHANGE_USERID | Change userid |
| (70) | BITSTRING | 2 | ECR_EB_CHANGE_AGENT | Change agent |
| (72) | BITSTRING | 2 | ECR_EB_INSTALL_AGENT | Install agent |
| (74) | BITSTRING | 8 | ECR_EB_INSTALL_TIME | Install/Create time |
| (7C) | CHARACTER | 8 | ECR_EB_INSTALL_USERID | Install userid |
| (7C) | 1... .1.. | | ECRDS_END | "*" |
| (7C) | 1... .1.. | | ECRDS_LENGTH | "*-ECRDS_LEN" Eventbinding Resource record length |
| Constants that denote a Eventbinding resource stats record | | | | |
| (7C) | 1... 11.1 | | ECRIDE | "141" Eventbinding resource stats id |
| (7C) |1 | | ECR_VERS | "X'01" Record version number Change Agents |
| (7C) |1 | | ECR_CSDAPI_CHANGE | "0001" CSD API |
| (7C) |1. | | ECR_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (7C) |11 | | ECR_DREPAPI_CHANGE | "0003" DREP API |
| (7C) |1.. | | ECR_CREATE_CHANGE | "0004" EXEC CREATE SPI Install Agents |
| (7C) | 1..1 | | ECR_BUNDLE_INSTALL | "0009" BUNDLE |

EDF - EDF Communication area

CONTROL BLOCK NAME = DFHEDFDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHEDFCA.
DESCRIPTIVE NAME = CICS TS EDF Debug Linkage Area
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FUNCTION =

This DSECT describes the user task data that is used by EDF to display the status information, etc.
It is obtained in DFHEDFX for each EDF call. It is then

filled with data describing the user transaction state.
It is passed to the EDF task as an ATTACH parm, and is used
by the attached EDF task. The storage is freed in DFHEDFX
when the user task is resumed.
Dummy change for PQ58342

Table 138.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHEDFDS | |
| (0) | FULLWORD | 4 | EDFUEIA | TCTTE EXEC INTERFACE ADDR |
| (4) | FULLWORD | 4 | EDFUTCA | ADDRESS OF USER'S TCA |
| (8) | FULLWORD | 4 | EDFUR1 | ADDRESS OF USER PARM LIST |
| (C) | FULLWORD | 4 | EDFUEISP | ADDRESS OF USER'S EIS |
| (10) | FULLWORD | 4 | EDFUEIBP | ADDRESS OF USER'S EIB EDF TASK MANAGEMENT INFO |
| (14) | BITSTRING | 1 | EDFXA | TASK SWITCH ATTRIBUTE |
| (14) | 1111 1111 | | EDFLINK | "X'FF'" CEDF ATTACHED TO LINK EDFD |
| (14) | 1111 111. | | EDFSTRT | "X'FE'" CEDF ATTACHED TO START CEDF DEBUG MODE INFO |
| (15) | BITSTRING | 1 | EDFCTL1 | COPY OF EISEDMD REQUEST BYTE INFO |
| (16) | BITSTRING | 1 | EDFCTL2 | COPY OF EISEDFRB EDF CONTROL INFO |
| (17) | BITSTRING | 1 | EDFCTL3 | EDF CONTROL BITS |
| (17) | 1... | | EDFOUTD | "X'80'" DISP=OUT FOR PAGE BUILD |
| (17) | .1.. | | EDFDBCNT | "X'40'" EDF DEBUG MODE CONTINUES |
| (17) | ..1. | | EDFIVPS | "X'20'" INVALID PAGE SIZE |
| (17) | ...1 | | EDFUTPG | "X'10'" USER TASK HAS BEEN PURGED |
| (17) | 1... | | EDFPAGD | "X'08'" DISP=PAGING FOR BMS |
| (17) |1.. | | EDFDTMOK | "X'04'" EDFD TERMINATED CORRECTLY |
| (17) |1. | | EDFSECV | "X'02'" SECURITY VIOLATION |
| (17) |1 | | EDFIPIC | "X'01'" IPIC transaction |
| (18) | BITSTRING | 1 | EDFCTL4 | USER LANGUAGE INFO |
| (19) | BITSTRING | 1 | EDFTOS | BIT PATTERN=OUT OF SERVICE |
| (19) |1. | | EDFNIS | "X'02'" TERMERR RECEIVED |
| (1A) | BITSTRING | 1 | | RESERVED |

Table 138. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (1B) | CHARACTER | 1 | EDFOPSYS | OPERATING SYS FROM CSAOPSYS |
| (1C) | FULLWORD | 4 | EDFUASTG | ADDRESS OF USER'S AUTO STG |
| (20) | FULLWORD | 4 | EDFURE | USER'S RETURN REGISTER |
| (24) | FULLWORD | 4 | EDFUCDB | USER'S CODE BASE |
| (28) | CHARACTER | 8 | EDFPGMID | USER'S PROGRAM NAME |
| (30) | BITSTRING | 1 | EDFENV | Current Environment |
| (30) | 1... | | EDFURM | "X'80'" URM |
| (31) | BITSTRING | 2 | | Reserved FILE CONTROL INFO |
| (33) | BITSTRING | 1 | EDFFCRF | FILE CONTROL RECORD FORMAT |
| (33) | 1... | | EDFFCF | "X'80'" FC FIXED FORMAT |
| (33) | .1.. | | EDFFCV | "X'40'" FC VARYING FORMAT |
| (33) | ..1. | | EDFBDAM | "X'20'" FC ACCESS METHOD=BDAM |
| (33) | ...1 | | EDFVSAM | "X'10'" FC ACCESS METHOD=VSAM |
| (33) | 1... | | EDFISAM | "X'08'" FC ACCESS METHOD=ISAM |
| (34) | HALFWORD | 2 | EDFFCRL | FILE CONTROL RECORD LENGTH |
| (36) | BITSTRING | 1 | EDFFCKL | FILE CONTROL KEY LENGTH |
| (37) | BITSTRING | 1 | EDFUTCTR | User's send/receive flags |
| (38) | FULLWORD | 4 | EDFABRA | ADDRESS of EDF ABEND info |
| (3C) | FULLWORD | 4 | EDFUACP | ADDR OF USER ABCODE SLOT |
| (40) | FULLWORD | 4 | EDFACP | ADDR OF EDF ABCODE SLOT |
| (44) | FULLWORD | 4 | EDFURSAP | ADDRESS OF USER REGISTERS |
| (48) | FULLWORD | 4 | EDFPLBA | PARTITION LOWER BOUND ADDR |
| (4C) | FULLWORD | 4 | EDFPUBA | PARTITION UPPER BOUND ADDR |
| (50) | FULLWORD | 4 | EDFUTCTA | USER'S TCTTE ADDRESS |
| (54) | CHARACTER | 4 | EDFUQTID | USER'S TERMID/TRANID |
| (58) | FULLWORD | 4 | EDFUARSA | ADDR OF USER RSA |
| (5C) | HALFWORD | 2 | EDFUTRTO | READ TIMEOUT VALUE |
| (5E) | HALFWORD | 2 | EDFCALEN | USER'S EIBCALEN |

Table 138. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|--|
| (60) | FULLWORD | 4 | EDFCOMAA | USER'S COMMAREA ADDR |
| (64) | FULLWORD | 4 | EDFUTEDA | COPY OF TCTTEDA AS SET FOR APPLICATION REQUESTS |
| (68) | FULLWORD | 4 | EDFUEIEX | COPY OF TCTEEIEX AS SET FOR APPLICATION REQUESTS |
| (6C) | FULLWORD | 4 | EDFPGMLN | PROGRAM LENGTH |
| (70) | FULLWORD | 4 | EDFTSADR | TERM. STATUS FIELD ADDR |
| (74) | FULLWORD | 4 | EDFMSA | MODULE START ADDRESS |
| (78) | FULLWORD | 4 | EDFUR1SA | ADDRESS OF EISEIPR1 (USED AND SET BY DFHEDFCC) |
| (7C) | FULLWORD | 4 | EDFUEILR | COPY OF TCTEEILR AS SET FOR APPLICATION REQUESTS |
| (80) | FULLWORD | 4 | EDFUSESS | User issb (if IPIC) |
| (84) | CHARACTER | 4 | EDFSYST | sysid from which remote DPL abend was received |
| (88) | FULLWORD | 4 | EDF_USRTASK_SUSPTOK | User task suspend token |
| (8C) | FULLWORD | 4 | EDFSECCL | Security switch routine |
| (90) | ADDRESS | 4 | EDF_APPL_STATIC_STG_ PTR | User program's static storage |
| (94) | ADDRESS | 4 | EDF_APPL_STATIC_STG_ LEN | User's static storage length |
| (98) | CHARACTER | 16 | EDFPSW | PSW |
| (A8) | CHARACTER | 8 | EDFINT | INTERRUPT INFORMATION |
| (B0) | CHARACTER | 2 | EDFUEIDL | COPY OF TCTEEIDL AS SET FOR APPLICATION REQUESTS |
| (B2) | BITSTRING | 1 | EDFUOPT2 | SAVE TCTEOPT2 |
| (B3) | BITSTRING | 1 | EDFUJSA | Save TCTEJSA |
| (B4) | FULLWORD | 4 | EDFWSLN | LENGTH OF WORKING STORAGE |
| (B8) | | 4 | EDFUTXNO | User task's transaction number |
| (BC) | FULLWORD | 4 | EDFERMSA | NEW ERM EDF INTERFACE |
| (C0) | FULLWORD | 4 | EDFSITOD | IPL TIME OF DAY IN SECONDS |
| (C4) | CHARACTER | 4 | EDFUTXID | User's transaction id |
| (C8) | BITSTRING | 1 | EDFCTL5 | FLAG BYTE INDICATING NEW ERM IFC |

Table 138. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------------|--|
| (C8) |1.. | | EDFSTKCM | "X'04" Command from user exit |
| (C9) | BITSTRING | 1 | EDFCTL6 | flag byte |
| (C9) | 1... | | EDFRABND | "X'80" DPL remote abend indicator |
| (C9) | .1.. | | EDFRPEND | "X'40" User task suspended, pending RESUME |
| (CA) | HALFWORD | 2 | EDFSTKC | Programs EDF stack level |
| (CC) | FULLWORD | 4 | EDFTCAAD | 1st EDF Task's TCA address |
| (D0) | FULLWORD | 4 | (0) | |
| (D0) | CHARACTER | 128 | EDFREGS (0) | |
| (D0) | DBL WORD | 8 | (16) | GP registers 0-15 at abend |
| <p>-----</p> <p>The DLA_USAGE fields are flags to identify those tasks which have need of the Debug Linkage Area. The DLA can only be freed when all of the tasks have relinquished ownership.</p> <p>-----</p> | | | | |
| (150) | CHARACTER | 8 | EDF_DLA_USAGE (0) | Area controlling DLA |
| (150) | | 4 | EDF_DLA_USER_TASK_USE | Task running DFHEDFX |
| (154) | | 4 | EDF_DLA_CEDF_TASK_USE | CEDF running EDFP/EDFD |
| (154) | | 0 | EDFDSLEN | "*-DFHEDFDS" LENGTH OF DFHEDFDS |

EIB - EXEC interface block

```

CONTROL BLOCK NAME = DFHEIBLK
NAME OF MATCHING PL/AS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS EXEC Interface Block.
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    (C) Copyright IBM Corp. 1990, 1993
FUNCTION = EXEC Interface Block.
    The exec interface block contains information on the
    transaction identifier, the time and date, and the cursor
    position on a display device. Some of the other fields are
    set indicating the next action that a program should take
    in certain circumstances.
    DFHEIBLK also contains information that will be helpful
    when a dump is being used to debug a program.
    This control block is included automatically by an
    application program using the command-level interface.
    EISEIBA in the EIS addresses the EIB.
NOTES :
    DEPENDENCIES = S/370
    MODULE TYPE = Control block definition

```

EXEC INTERFACE BLOCK

Table 139.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------|
| (0) | STRUCTURE | 0 | DFHEIBLK | EXEC INTERFACE BLOCK |

Table 139. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | | 4 | EIBTIME | TIME IN 0HHMMSS FORMAT |
| (4) | | 4 | EIBDATE | DATE IN 0CYYDDD+ FORMAT, where C is the century indicator (0=1900, 1=2000), YY is the year, DDD is the day number and '+' is the sign byte (positive) |
| (8) | CHARACTER | 4 | EIBTRNID | TRANSACTION IDENTIFIER |
| (C) | | 4 | EIBTASKN | TASK NUMBER |
| (10) | CHARACTER | 4 | EIBTRMID | TERMINAL IDENTIFIER |
| (14) | HALFWORD | 2 | EIBRSVD1 | RESERVED |
| (16) | HALFWORD | 2 | EIBCPOSN | CURSOR POSITION |
| (18) | HALFWORD | 2 | EIBCALEN | COMMAREA LENGTH |
| (1A) | CHARACTER | 1 | EIBAID | ATTENTION IDENTIFIER |
| (1B) | CHARACTER | 2 | EIBFN | FUNCTION CODE |
| (1D) | CHARACTER | 6 | EIBRCODE | RESPONSE CODE |
| (23) | CHARACTER | 8 | EIBDS | DATASET NAME |
| (2B) | CHARACTER | 8 | EIBREQID | REQUEST IDENTIFIER |
| (33) | CHARACTER | 8 | EIBRSRCE | RESOURCE NAME |
| (3B) | CHARACTER | 1 | EIBSYNC | X'FF' SYNCPOINT REQUESTED |
| (3C) | CHARACTER | 1 | EIBFREE | X'FF' FREE REQUESTED |
| (3D) | CHARACTER | 1 | EIBRECV | X'FF' RECEIVE REQUIRED |
| (3E) | CHARACTER | 1 | EIBSEND | RESERVED |
| (3F) | CHARACTER | 1 | EIBATT | X'FF' ATTACH RECEIVED |
| (40) | CHARACTER | 1 | EIBEOC | X'FF' EOC RECEIVED |
| (41) | CHARACTER | 1 | EIBFMH | X'FF' FMHS RECEIVED |
| (42) | CHARACTER | 1 | EIBCOMPL | X'FF' DATA COMPLETE |
| (43) | CHARACTER | 1 | EIBSIG | X'FF' SIGNAL RECEIVED |
| (44) | CHARACTER | 1 | EIBCONF | X'FF' CONFIRM REQUESTED |
| (45) | CHARACTER | 1 | EIBERR | X'FF' ERROR RECEIVED |
| (46) | CHARACTER | 4 | EIBERRCD | ERROR CODE RECEIVED |
| (4A) | CHARACTER | 1 | EIBSYNRB | X'FF' SYNC ROLLBACK REQ'D |
| (4B) | CHARACTER | 1 | EIBNODAT | X'FF' NO APPL DATA RECEIVED |
| (4C) | FULLWORD | 4 | EIBRESP | INTERNAL CONDITION NUMBER |
| (50) | FULLWORD | 4 | EIBRESP2 | MORE DETAILS ON SOME RESPONSES |

Table 139. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------|-----------|-----|------------|---------------------------|
| (54) | CHARACTER | 1 | EIBRLDBK | ROLLED BACK |
| (54) | .1.1 .1.1 | | EIBLENG | "*-EIBTIME" Length of EIB |
| END OF EXEC INTERFACE BLOCK | | | | |

EICD1 - Language definition table

DESCRIPTIVE NAME = CICS TS language definition (LD) table
structure definition.

This COPY module is edited by DFHUDECL EXEC during PLI
generates (such as for DFHUTG) that require the LD table
structure definition and is included as DFHUDECL.

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FUNCTION =

Declarations relating to language definition table (LD table).

The declarations below define the mapping of the contents of
the language definition table.

The declarations are used by both the translator itself and
the table compilation utility program DFHUTG.

EIT is the root of the LD table and gives addressability
to all its components and their sizes.

Table 140.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 136 | EIT | |
| Following entries in pairs consisting of (ptr, no. of entries) | | | | |
| (0) | ADDRESS | 4 | TABXPTR | |
| (4) | FULLWORD | 4 | NTABS | Table entries |
| (8) | ADDRESS | 4 | STTXPTR | |
| (C) | FULLWORD | 4 | NSTTS | Standard text - VBPA |
| (10) | ADDRESS | 4 | CTLXPTR | |
| (14) | FULLWORD | 4 | NCTLS | Controls - VBPA |
| (18) | ADDRESS | 4 | KEEXPTR | |
| (1C) | FULLWORD | 4 | NKEYS | Keyword information * |
| (20) | ADDRESS | 4 | VBXPTR | |
| (24) | FULLWORD | 4 | NVBPS | Verb parms |
| (28) | ADDRESS | 4 | KEXPTR | |
| (2C) | FULLWORD | 4 | NKEPS | Keyword parms |
| (30) | ADDRESS | 4 | SYNXPTR | |
| (34) | FULLWORD | 4 | NSYNS | Syntax tree |
| (38) | ADDRESS | 4 | SPAXPTR | |
| (3C) | FULLWORD | 4 | TSYNS | Reserved |
| (40) | ADDRESS | 4 | NAMXPTR | |
| (44) | FULLWORD | 4 | LNAME | Table name |

Table 140. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------|--|
| (48) | ADDRESS | 4 | AIBXPTR | |
| (4C) | FULLWORD | 4 | NAIBS | IB format (EIB, DIB) * |
| (50) | ADDRESS | 4 | CODXPTR | |
| (54) | FULLWORD | 4 | NCODS | Address of code gen * |
| (58) | ADDRESS | 4 | BIFXPTR | Address of first BIF * |
| (5C) | CHARACTER | 4 | COMPATF | Compatibility flags * |
| (5C) | CHARACTER | 0 | COMPATF0 | To suit DFHUIAI |
| (5C) | 1... | | COMPNEWF | Extra fields in hdr * |
| (5C) | .1.. | | COMPKPAR | New style kwd parms * |
| (5C) | ..1. | | COMPBIF | BIF's present |
| (5C) | BIT(29) POS(4) | 4 | * | Guaranteed zero now * |
| (60) | ADDRESS | 4 | * | |
| (64) | FULLWORD | 4 | LA0 | Length of ARG0 * |
| (68) | ADDRESS | 4 | * | Reserved |
| (6C) | FULLWORD | 4 | NBYTS | Table End and size * |
| (70) | ADDRESS | 4 | KKKXPTR | New style kwd parms * (NKEPS of them) |
| (74) | ADDRESS | 4 | * | Reserved * |
| (78) | ADDRESS | 4 | * | Reserved * |
| (7C) | ADDRESS | 4 | * | Reserved * |
| (80) | ADDRESS | 4 | * | Reserved * |
| (84) | ADDRESS | 4 | * | Reserved * |

Table Entry: Describes the syntax and code generation parameters for one HLPI statement (One VERB/ADVERB combination.)

Table 141.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------------------------|---------------------------|
| (0) | STRUCTURE | 10 | TABINFO | |
| (0) | BIT(8) | 1 | TABFLAGS | Verb flags |
| (1) | HALFWORD | 2 | TABVB | Index in XKERAY of Verb |
| (3) | HALFWORD | 2 | TABADVB | Index in XKERAY of Adverb |
| (5) | CHARACTER | 3 | TABOPND | Syntax of STMT : |
| (5) | BIT(8) | 1 | TABOPFLG | See operand |
| (6) | HALFWORD | 2 | TABOP | declaration |
| Verb parameters for code generation. E.G. TABPA(1)=Entry name TABPA(2)=Function code See declaration of PARITEM for Verb parameter string | | | | |
| (8) | UNSIGNED | 1 | TABPA (4294967298:341950840) | Index in XVBPA |
| (A) | CHARACTER | 0 | TABEND | |

Table 142.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 1 | * | |
| (0) | 1111 | | VBADVIDX | must not be affected |
| (0) | 1... | | SECNDTAB | Indicates indirection |
| (0) |1.. | | SAMEVERB | Rescan second TAB using same atom |
| (0) |1. | | USEEITBS | Rescan DFHEITBS using same atom |
| (0) |1 | | * | Reserved |

Standard text:

This is to be included at the head of every preprocessed program by module DFHEIM10.

The number of lines of standard text is NSTTS

Table 143.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (0) | STRUCTURE | 71 | XSTT1 | First standard text line |
| (0) | CHARACTER | 1 | * | Filler - Always blank |
| (1) | CHARACTER | 62 | STT1 | Text to be inserted into program |
| (3F) | CHARACTER | 8 | STTC | Language indicators |

XKERAY: Table of keyword names and keyword parameters.

This array is indexed by terminal nodes in syntax tree.

Table 144.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------|---------------------------|
| (0) | STRUCTURE | 24 | XKERAY (4294967552:2883584) | |
| (0) | CHARACTER | 12 | KEYWORDA | |
| (C) | CHARACTER | 12 | * | Dependant on XKEITEM size |

When changing the size of this structure, the size of the CHAR above must be changed and also the KEYWORD_SPACE declaration in DFHUTG. You may also need to change DFHUIAI to generate the assembler for new fields.

Table 145.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 24 | XKEITEM | |
| (0) | CHARACTER | 12 | KEYWORD | Keyword name |
| (C) | CHARACTER | 1 | KEFLG1 | Collection of flags |
| (D) | CHARACTER | 1 | KEBITS | Keyword flags |
| (E) | BIT(8) | 1 | KEFLAGS | Set by flag option on keyword |
| input. See overlay below. | | | | |
| (F) | CHARACTER | 1 | KETYPE | Note: KEDTYP may imply more |

Table 145. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|--|
| (10) | UNSIGNED | 1 | KENARG | max number of arguments |
| (11) | BIT(8) | 1 | KEDTYP | Data type - KEDTYP=0 means dont care BIT1 Arithmetic BIT2 String BIT1=0 and BIT2=0 Other BIT3 0-Binary 1-Decimal BIT3 0-Bit 1-Char BIT4 0-Fixed 1-Float BIT6 1-Fixed Bin(64) |
| (12) | UNSIGNED | 1 | KEDTYPL | Length of datatype |
| (13) | UNSIGNED | 1 | KEP (4294967299:341953936) | KEYQUIVI or code gen parameters * |
| (16) | CHARACTER | 1 | KEFLG2 | Additional flags |
| (17) | CHARACTER | 1 | KEFLG3 | Reserved for future use |
| (18) | CHARACTER | 0 | KEEND | End of KEINFO |

Table 146.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 1 | * | |
| (0) | 1... | | KEIDXTN | Keyword used as id extension |
| (0) | .1.. | | KEARGOM | ARGLIST may be omitted entirely |
| (0) | ..1. | | KEARGSH | ARGLIST may be shortened |
| (0) | ...1 | | KEARGNU | Any ARGS may be null |
| (0) | 1... | | KEARGFI | First argument mandatory |
| (0) |1.. | | KEQUIV | KEP(1) gives equivalent text |
| (0) |1. | | KESECND | Second keyword of a double |
| (0) |1 | | KETIME | Time type of argument |

Table 147.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (0) | STRUCTURE | 1 | * | |
| (0) | 1... | | KEREF64 | Reference to 64-bit data |
| (0) | .1.. | | KECVDA | |
| (0) | ..11 1111 | | RESERVED | |

Table 148.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 1 | * | |
| (0) | 111. | | KEPNUM | KEP numeric, not index in XKEPA |
| (0) | ...1 | | KECOMM | Keyword valid for any command |

Table 148. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | 1... | | KEDEFT | Keyword is a default |
| (0) |1.. | | KEARGSYN | Keyword arguments -KEDTYP, KEDTYPL and KEP(1) are a syntax operand |
| (0) |1. | | KEUTF8 | UTF8 type kywd (was KERELSYN) |
| (0) |1 | | KEMCASE | Mixed case required flag |

Table 149.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 1 | * | |
| (0) | 1... | | KEREF | ARGS all references |
| (0) | .1.. | | KEID | ARGS all identifiers |
| (0) | ..1. | | KECONST | ARGS constants - Use also KEDTYP |
| (0) | ...1 1... | | KEADIM | Dimensionality (00 means Scalar) |
| (0) |1.. | | KEUSED | 'USES' Context |
| (0) |1. | | KESET | 'SETS' Context |
| (0) |1 | | KENAME | Add quotes if identifier. |

Table 150.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 1 | * | |
| (0) | 1... | | KEHEX | Display in hexadecimal (EDF) |
| (0) | .1.. | | KELIST | Argument may be a list (MT) |
| (0) | ..1. | | KETUNOFF | T#BITNUM bit to be turned off, not on |
| (0) | ...1 | | KE2BIT | KEP(3) is another bit to be turned on. This bit off means KEP(3) is default arg text. |
| (0) | 1... | | KEINQO | Only valid with inquire (MT) |
| (0) |1.. | | KESETO | Only valid with set (MT) |
| (0) |1. | | KEARGMAN | Mandatory argument |
| (0) |1 | | KEDUMMY | Dummy keyword |

Table 151.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 16 | XKEITEM1 | Overlay of XKEITEM |
| (0) | CHARACTER | 12 | KEYWORD1 | Keyword name |

Table 151. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|------------|---------------|
| (C) | BIT(32) | 4 | KEFLGS | Keyword flags |

Table 152.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------|
| (0) | STRUCTURE | 100 | PARITEM | |
| (0) | UNSIGNED | 1 | PALEN | Length of PARM, excl this byte |
| (1) | CHARACTER | 99 | PARM | Text of PARM |

This section describes the structure of BIF entries defined by the %BIF items in the data file of the LD table. Because they are variable size they are chained together via the BIFNEXT field. The anchor of the chain is BIFXPTR in the header to this table.

Table 153.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-------|--------------------------------|-----------------------|
| (0) | STRUCTURE | 20421 | BIFENTRY | |
| (0) | CHARACTER | 12 | BIFNAME | 'DFHDATASET', etc. |
| (C) | BIT(8) | 1 | BIFFLAGS | Reserved * |
| (D) | ADDRESS | 4 | BIFNEXT | 0 for last in chain * |
| (11) | FULLWORD | 4 | BIFNEQUS | Number of CVDA'S |
| (15) | CHARACTER | 17 | BIFEQUA (4294968496:341924784) | |
| (15) | CHARACTER | 12 | BIFARG | 'ENABLED', etc. |
| (21) | FULLWORD | 4 | BIFCVDA | 128, 129, etc. |
| (25) | BIT(8) | 1 | BIFCVDFL | Reserved * |

XSyntax: Format of each node in the XSyntax structure is given by the SY structure below.

Table 154.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 7 | SY | A node in the syntax tree |
| (0) | CHARACTER | 1 | OPCODE | 'I' (Or) 'J' (Join) 'R' (Repeat) - Unary OP |
| (1) | CHARACTER | 3 | OPERAND1 | First arm of the node |
| (1) | CHARACTER | 1 | OP1FLG | OPERAND1 Flags |
| (1) | 1... | | OP1SYNI | OPERAND1 is offset in XSyntax |
| (1) | .1.. | | OP1KE | OPERAND1 is index in XKERAY |
| (1) | ..1. | | OP1NULL | OPERAND1 is null |
| (1) | ...1 | | OP1OPL | OPERAND1 is optional |
| (1) | 1... | | OP1PAREN | OPERAND1 is parenthesized |
| (1) |111 | | * | Reserved |

Table 154. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (2) | HALFWORD | 2 | OP1 | Operand 1 |
| (4) | CHARACTER | 3 | OPERAND2 | Second arm of the node |
| (4) | CHARACTER | 1 | OP2FLG | OPERAND2 flags |
| (4) | 1... | | OP2SYNI | OPERAND2 is offset in XSYNTAX |
| (4) | .1.. | | OP2KE | OPERAND2 is index in XKERAY |
| (4) | ..1. | | OP2NULL | OPERAND2 is null |
| (4) | ...1 | | OP2OPL | OPERAND2 is optional |
| (4) | 1... | | OP2PAREN | OPERAND2 is parenthesized |
| (4) |111 | | * | RESERVED |
| (5) | HALFWORD | 2 | OP2 | Operand 2 |

Table 155.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------|
| (0) | STRUCTURE | 7 | SY1 | Overlay of SY |
| (0) | CHARACTER | 1 | OPCODE1 | See OPCODE |
| (1) | BIT(8) | 1 | OP1FLAGS | See OP1FLG |
| (2) | HALFWORD | 2 | OP11 | See OP1 |
| (4) | BIT(8) | 1 | OP2FLAGS | See OP2FLG |
| (5) | HALFWORD | 2 | OP21 | See OP2 |

Table 156.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 3 | OPERAND | General purpose operand, i.e. overlays OPERAND1 or OPERAND2 |
| (0) | CHARACTER | 1 | OPFLG | Operand flags |
| (0) | 1... | | OPSYNI | OP is an index into the syntax tree * |
| (0) | .1.. | | OPKE | OP is an index into the keywords array * |
| (0) | ..1. | | OPNULL | Indicates a null operand |
| (0) | ...1 | | OPOPL | Indicates an optional operand |
| (0) | 1... | | OPPAREN | Indicates a parenthesized operand |
| (0) |111 | | * | Filler - See OPERAND1 or OPERAND2 |
| (1) | HALFWORD | 2 | OP | An index |

Table 157.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 16 | XCOMROOT | |
| (0) | ADDRESS | 4 | COMXPTR | |
| (4) | FULLWORD | 4 | NUMCMDS | Commands |
| (8) | ADDRESS | 4 | KEYXPTR | |
| (C) | FULLWORD | 4 | NUMKYS | arguments/keywords |

Table 158.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 14 | COMINFO | |
| (0) | CHARACTER | 8 | COMGRFN | gr & fn for sort compare |
| (8) | HALFWORD | 2 | COMARG0LN | ARG0 len. 0 for type2/3/4. |
| (A) | HALFWORD | 2 | COMKEYS | Number of keywords |
| (C) | HALFWORD | 2 | COMIND | Index of first |
| (E) | CHARACTER | 0 | COMEND | |

Table 159.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------|
| (0) | STRUCTURE | 8 | * | |
| (0) | FULLWORD | 4 | COMGR | Group code |
| (4) | FULLWORD | 4 | COMFN | Function code |

Table Entry: Describes one command for ICCFCTAB

Table 160.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 52 | DTCINFO | |
| (0) | CHARACTER | 24 | DTCARG0 | Arg0 |
| (18) | HALFWORD | 2 | DTCKEYS | Number of keywords |
| (1A) | HALFWORD | 2 | DTCIND | index of first |
| (1C) | CHARACTER | 12 | DTCVERB | |
| (28) | CHARACTER | 12 | DTCADVB | |
| (34) | CHARACTER | 0 | DTCEND | |

Table 161.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 3 | KEYITEM | |
| (0) | CHARACTER | 3 | KEYCOMMON | Common to DFHEITTR and DFHEITT2 |
| (0) | UNSIGNED | 1 | KEYCODE | Type of keyword - see the code |
| (1) | UNSIGNED | 1 | KEYBIT1 | Bit to test |

Table 161. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|------------------------------|
| (2) | UNSIGNED | 1 | KEYBIT2 | Bit to test |
| (3) | CHARACTER | 0 | KEYSPECIFIC | Different for DFHEITTR/EITT2 |

Table 162.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | 12 | KEYEITT2 | DFHEITT2 specific |
| (0) | CHARACTER | 12 | KEYWRD | Keyword value |
| (C) | CHARACTER | 0 | KEYEND2 | End of KEYITEM for DFHEITT2 |

Table 163.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 3 | KEYEITTR | DFHEITTR specific |
| (0) | UNSIGNED | 1 | KEYARG | Argument number |
| (1) | UNSIGNED | 1 | KEYARGL | Length of datatype |
| (2) | BIT(8) | 1 | KEYDTYP | Data type - KEYDTYP=0 means dont care BIT1 Arithmetic BIT2 String BIT1=0 and BIT2=0 Other BIT3 0-Binary 1-Decimal BIT3 0-Bit 1-Char BIT4 0-Fixed 1-Float BIT6 1-Fixed Bin(64) |
| (3) | CHARACTER | 0 | KEYEND1 | End of KEYITEM for DFHEITTR |

 KEYITEM0: Keyword description in DFHEITHG for Hired Gun

Table 164.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | 12 | KEYITEM0 | |
| (0) | FULLWORD | 4 | KEYARGO | Arg offset |
| (4) | FULLWORD | 4 | KEYWORDO | Word offset |
| (8) | BIT(32) | 4 | KEYBITM | Bit mask |
| (C) | CHARACTER | 0 | KEYENDO | End of KEYITEM for DFHEITHG |

 KEYDTC: Keyword description for ICCFCTAB

Table 165.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 24 | KEYDTC | |

Table 165. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (0) | HALFWORD | 2 | KEYNUMD | Number |
| (2) | CHARACTER | 22 | KEYSAVED | data |
| (2) | CHARACTER | 12 | KEYWORDD | |
| (E) | CHARACTER | 10 | KEYDATAD | |
| (18) | CHARACTER | 0 | KEYENDD | End of KEYITEM for ICCFCTAB |

Constants

Table 166.

| Len | Type | Value | Name | Description |
|-----|---------|-------|---------|-------------|
| 1 | DECIMAL | 255 | STOPPER | |

EIC - EXEC interface communications area

CONTROL BLOCK NAME = DFHEICPS
 DESCRIPTIVE NAME = CICS TS EXEC Interface Communications Area.
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1987, 1990
 FUNCTION = This DSECT describes the CLASS=SHARED storage which
 is used to pass the COMMAREA from one command-level
 transaction to another using an
 EXEC CICS RETURN TRANSID(..) COMMAREA(..) LENGTH(..)

Table 167.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|----------------------------|
| (0) | STRUCTURE | 16 | DFHEICDS | |
| (0) | CHARACTER | 16 | EIC | |
| (0) | CHARACTER | 16 | EICBEG | |
| (0) | ADDRESS | 4 | EIC_COMMAREA_ADDRESS | A(EICBDA) |
| (4) | UNSIGNED | 1 | EIC_SUBPOOL | COMMAREA SUBPOOL INDICATOR |
| (5) | UNSIGNED | 3 | * | RESERVED |
| (8) | ADDRESS | 4 | * | RESERVED |
| (C) | HALFWORD | 2 | EICLL | COMMAREA LENGTH |
| (E) | HALFWORD | 2 | EICBB | RESERVED (MVS) |
| (10) | CHARACTER | 0 | EICDBA | COMMAREA DATA |

Constants

Table 168.

| Len | Type | Value | Name | Description |
|-----|---------|-------|--------------|---------------------------|
| 1 | DECIMAL | 1 | EIC_APCOMM31 | APCOMM31 CICS KEY SUBPOOL |

EIPDS - Command level interface dsects

CONTROL BLOCK NAME = DFHEIPDS
NAME OF MATCHING PL/AS CONTROL BLOCK = DFHEIPPS
DESCRIPTIVE NAME = CICS TS COMMAND LEVEL INTERFACE DSECTS
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 1980, 1993
FUNCTION = This copybook contains the DSECTS used by
all of the separate parts of the EXEC interface.
These are the DSECTS used by all of the separate parts of
the EXEC interface.
REGISTER SAVE AREA DSECT FOR COBOL HANDLE

Table 169.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 0 | EIR | COBOL HANDLE CONDITION RSA |
| (0) | ADDRESS | 4 | EIRBEG (0) | START OF DATA |
| (0) | CHARACTER | 60 | EIR14 | REGS 14 THRU 12 |
| (3C) | ADDRESS | 4 | EIR13 | REG 13 |
| (40) | BITSTRING | 1 | EIREND (0) | |

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5655-Y04
(C) Copyright IBM Corp. 1990, 1991
This DSECT describes the storage which is used to pass the
COMMAREA from one command-level transaction to another using an
EXEC CICS RETURN TRANSID(..) COMMAREA(..) LENGTH(..)
PN= REASON REL YYMMDD HDXXIII : REMARKS
: fields for PSK release.

Table 170.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|----------------------------------|
| (0) | STRUCTURE | 0 | DFHEICDS | COMMAREA STORAGE DSECT |
| (0) | BITSTRING | 1 | EIC (0) | |
| (0) | BITSTRING | 1 | EICBEG (0) | START OF DATA |
| (0) | FULLWORD | 4 | EIC_COMMAREA_ADDRESS | A(EICBDA) |
| (4) | BITSTRING | 1 | EIC_SUBPOOL | COMMAREA SUBPOOL FLAG |
| (4) |1 | | EIC_APCOMM31 | "1" APCOMM31 CICS KEY SUBPOOL |
| (5) | BITSTRING | 3 | | RESERVED |
| (8) | FULLWORD | 4 | | RESERVED |
| (C) | HALFWORD | 2 | EICLL | COMMAREA LENGTH |
| (E) | HALFWORD | 2 | EICBB | RESERVED (MVS) |
| (10) | BITSTRING | 1 | EICDBA (0) | COMMAREA DATA |

Data interchange DSECT used to pass information from user to DIP in the format required by DIP

Table 171.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (0) | STRUCTURE | 0 | EII | DATA INTERCHANGE DSECT |
| (0) | FULLWORD | 4 | (2) | STORAGE ACCOUNTING |
| (8) | BITSTRING | 1 | EIIBEG (0) | START OF DATA |
| (8) | BITSTRING | 1 | EIIDESL | DESTIDLENG |
| (9) | CHARACTER | 8 | EIIDES | DESTID |
| (11) | BITSTRING | 1 | EIIVOLL | VOLUMELENG |
| (12) | CHARACTER | 6 | EIIVOL | VOLUME |
| (18) | BITSTRING | 1 | EIIKEYL | KEYLENGTH |
| (19) | CHARACTER | 64 | EIIKEY | RIDFLD |
| (59) | BITSTRING | 1 | EIIEND (0) | |

Arg list DSECT overlays the argument list from the application

Table 172.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (0) | STRUCTURE | 0 | EIA | EXEC ARGUMENT LIST DSECT |
| (0) | ADDRESS | 4 | EIAARG0 | ARGUMENT 0 |
| (4) | ADDRESS | 4 | EIAARG1 | 1 |
| (8) | ADDRESS | 4 | EIAARG2 | 2 |
| (C) | ADDRESS | 4 | EIAARG3 | 3 |
| (10) | ADDRESS | 4 | EIAARG4 | 4 |
| (14) | ADDRESS | 4 | EIAARG5 | 5 |
| (18) | ADDRESS | 4 | EIAARG6 | 6 |
| (1C) | ADDRESS | 4 | EIAARG7 | 7 |
| (20) | ADDRESS | 4 | EIAARG8 | 8 |
| (24) | ADDRESS | 4 | EIAARG9 | 9 |
| (28) | ADDRESS | 4 | EIAARG10 | 10 |
| (2C) | ADDRESS | 4 | EIAARG11 | 11 |
| (30) | ADDRESS | 4 | EIAARG12 | 12 |
| (34) | ADDRESS | 4 | EIAARG13 | 13 |
| (38) | ADDRESS | 4 | EIAARG14 | 14 |
| (3C) | ADDRESS | 4 | EIAARG15 | 15 |
| (40) | ADDRESS | 4 | EIAARG16 | 16 |

ARG0 descriptor overlays argument 0 in the argument list from the application

Table 173.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------------------------------|
| (0) | STRUCTURE | 0 | EID | EXEC CICS ARGUMENT ZERO |
| (0) | CHARACTER | 2 | EIDFN (0) | FUNCTION GROUP AND FUNCTION |
| (0) | CHARACTER | 1 | EIDGROUP (0) | FUNCTION GROUP |
| (0) | .1.. .1.. | | EIDDLIGP | "X'44'" EXEC DLI |
| (0) | ..1. .1.. | | EIDGDGP | "X'24'" EXEC CICS GDS |
| (0) | ...1 .11. | | EIDSPGP | "X'16'" EXEC CICS SYNCPOINT & RESYNC |
| (0) |1.. | | EIDTCGP | "X'04'" EXEC CICS TERMINAL CONTROL |
| (0) | ...1 1... | | EIDBMSGP | "X'18'" EXEC CICS BMS |
| (0) | ...1 | | EIDICGP | "X'10'" EXEC CICS INTERVAL CONTROL |
| (0) | .... .... |  | EIDRMGP | "X'00'" RESOURCE MANAGER |
| (0) | CHARACTER | 1 | EIDOPT0 | OPTION BYTE ZERO |
| (1) | CHARACTER | 1 | EIDFUNC (0) | FUNCTION |
| (1) |1. | | EIDDLIN | "X'02'" EXEC DLI INIT CALL |
| (1) |1. | | EIDSYNCP | "X'02'" EXEC CICS SYNCPOINT |
| (1) |1. | | EIDRECV | "X'02'" RECEIVE |
| (1) |11. | | EIDCONV | "X'06'" CONVERSE |
| (1) |1.. | | EIDSEND | "X'04'" SEND |
| (1) |1. | | EIDRECVMAP | "X'02'" RECEIVE MAP |
| (1) |1.. | | EIDSENDMAP | "X'04'" SEND MAP |
| (1) |11. | | EIDSENDTEXT | "X'06'" SEND TEXT |
| (1) | 111. | | EIDRECVPARTN | "X'0E'" RECEIVE PARTN |
| (1) | ...1 .1. | | EIDSENDCONTROL | "X'12'" SEND CONTROL |
| (1) | 1... | | EIDSENDPAGE | "X'08'" SEND PAGE |
| (1) | 1.1. | | EIDPURGEMESSAGE | "X'0A'" PURGE MESSAGE |
| (1) | 1... | | EIDSTART | "X'08'" START |
| (1) | 1.1. | | EIDRETRIEVE | "X'0A'" RETRIEVE |
| (1) | 1... | | EIDCANCEL | "X'08'" CANCEL |
| (1) |1.. | | EIDRSYNC | "X'04'" EXEC CICS RESYNC |
| (1) | ...1 .1.. | | EIDDISC | "X'14'" ISSUE-DISCONNECT |
| (1) | ...1 1... | | EIDEAU | "X'18'" ISSUE-ERASEAUP |
| (1) | ...1 11.. | | EIDPRINT | "X'1C'" ISSUE-PRINT |
| (1) | ..1. | | EIDALLOC | "X'20'" ALLOCATE |
| (1) | ..1. .1. | | EIDFREE | "X'22'" FREE |

Table 173. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| (1) | 1... | | EIDPRVFN | "X'80'" >=X'80' MEANS 'HIDDEN-ARG0-CALLS', ELSE DL/I-STYLE. |
| (1) | CHARACTER | 1 | EIDOPT1 | OPTION BYTE 1 |
| (1) |1.. | | EIDCOND | "X'04'" |
| (2) | CHARACTER | 3 | EIDEXIST (0) | ARGUMENT EXISTENCE BITS |
| (2) | CHARACTER | 1 | EIDOPT2 | OPTION BYTE 2 |
| (2) | .1.. | | EIDCOMM | "X'40'" COMMAREA specified |
| (2) |1.. | | EIDDATA1 | "X'04'" DATALENGTH specified |
| (2) |1 | | EIDTRAN | "X'01'" TRANSID specified |
| The following equates relate only to 'hidden arg0 calls', ie where EIDGROUP = X'00' and EIDFUNC >= X'80'. | | | | |
| (2) | 1... | | EIDNCAL | "X'80'" RM NOT TO BE CALLED |
| (2) | .1.. | | EIDELUW | "X'40'" LAST CALL IN LUW |
| (2) | ..1. | | EIDRRMA | "X'20'" RETURN (DON'T ABEND) IF RES-MGR NOT ACTIVE. |
| (2) | ...1 | | EIDACAL | "X'10'" ALL RM'S TO BE CALLED |
| (2) |1. | | EIDSOTR | "X'02'" FIRST CALL IN TASK |
| (2) |1 | | EIDEOTR | "X'01'" LAST CALL IN TASK |
| End of hidden arg 0 call equates | | | | |
| (3) | CHARACTER | 1 | EIDOPT3 | OPTION BYTE 3 |
| (4) | CHARACTER | 1 | EIDOPT4 | OPTION BYTE 4 |
| (4) | 1... | | EIDSYEIB | "X'80'" TRANSLATED USING THE SYSEIB OPTION |
| (4) | .1.. | | EIDNOEDF | "X'40'" NOEDF |
| (4) | ..1. | | EIDNOHAN | "X'20'" NOHANDLE |
| (5) | CHARACTER | 1 | EIDOPT5 | OPTION BYTE 5 |
| (5) |1 | | EIDSET | "X'01'" SET |
| (5) |1. | | EIDNEXT | "X'02'" NEXT |
| (5) |1. | | EIDPSBKR | "X'02'" PASSBK ON RECEIVE |
| (5) |1.. | | EIDMASSI | "X'04'" MASSINSERT |
| (5) | 1... | | EIDTOL31 | "X'80'" 31 BIT LENGTH IN TC ARG2 |
| (5) | .1.. | | EIDFML31 | "X'40'" 31 BIT LENGTH IN TC ARG4 |

Table 173. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|-------------|-----------------------------------|
| (5) | ..1. | | EIDMXL31 | "X'20'" 31 BIT LENGTH IN TC ARG9 |
| (5) | ...1 | | EIDNTRNC | "X'10'" TC NOTRUNCATE OPTION |
| (5) | 1... | | EIDTPN32 | "X'80'" TPNs > 32 chars are valid |
| (5) | .1.. | | EIDTROFF | "X'40'" TRACE OFF |
| (5) | ...1 | | EIDTRLST | "X'10'" TRACE LIST |
| (5) | 1.. | | EIDTRSIN | "X'08'" TRACE SINGLE |
| (5) |1.. | | EIDTRSYS | "X'04'" TRACE SYSTEM |
| (5) |1. | | EIDTRUSE | "X'02'" TRACE USER |
| (5) |1 | | EIDTRALL | "X'01'" TRACE ALL |
| (5) |1.. | | EIDMSDEF | "X'04'" BMS DEFAULT |
| (5) |1. | | EIDMSALT | "X'02'" BMS ALTERNATE |
| (6) | CHARACTER | 1 | EIDOPT6 | OPTION BYTE 6 |
| (6) | 1... | | EIDCONFM | "X'80'" TC CONFIRM OPTION |
| (6) | 1... | | EIDRBA | "X'80'" RBA |
| (6) | 1... | | EIDSYNC | "X'80'" SYNCONRETURN specified |
| (6) | 1... | | EIDRTST | "X'80'" Routable START |
| (6) | .1.. | | EIDGENER | "X'40'" GENERIC |
| (6) | ..1. | | EIDGTEQ | "X'20'" GTEQ |
| (6) |1. | | EIDPROT | "X'02'" PROTECT |
| (6) |1 | | EIDNOCHK | "X'01'" NOCHECK |
| (6) | .1.. | | EIDTCDEF | "X'40'" TC DEFAULT |
| (6) | ..1. | | EIDTCALT | "X'20'" TC ALTERNATE |
| (6) | .1.. | | EIDRESUN | "X'40'" RESUNAVAIL support |
| (7) | CHARACTER | 1 | EIDOPT7 | OPTION BYTE 7 |
| (7) | 1.. | | EIDSGST | "X'08'" SEGSET |
| (7) |1.. | | EIDUPDT | "X'04'" UPDATE |
| (7) |1.. | | EIDREWR | "X'04'" REWRITE |
| (7) | 1.. | | EIDITEM | "X'08'" ITEM |
| (7) | ..1. | | EIDICHDR | "X'20'" IC HEADER |
| (7) | ...1 | | EIDICPUT | "X'10'" START WITH DATA |
| (7) | ...1 | | EIDSHRD | "X'10'" GETMAIN SHARED |
| (7) | 1... ..1.1 | | EIDTERM | "X'85'" GETMAIN TERMINAL class |
| (8) | CHARACTER | 8 | EIDRMID (0) | RESOURCE MANAGER ID |
| (8) | CHARACTER | 1 | EIDOPT8 | OPTION BYTE 8 |
| (8) | .... .... |  | EIDCANCL | "X'00'" CANCEL (DEFAULT) |

Table 173. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|------------------------------|
| (8) |1. | | EIDLABEL | "X'02" LABEL |
| (8) |1 | | EIDPROG | "X'01" PROGRAM |
| (8) |1 | | EIDTCWRI | "X'01" TC SEND / CONVERSE |
| (8) |1.. | | EIDWT | "X'04" WAIT |
| (9) | CHARACTER | 1 | EIDOPT9 | OPTION BYTE 9 |
| (9) | ...1 | | EIDRRN | "X'10" RRN |
| (A) | CHARACTER | 1 | EIDOPT10 | OPTION BYTE 10 |
| (A) | 11.. | | EIDMAPO | "X'C0" MAPONLY |
| (A) | 1... | | EIDBUF | "X'80" BUFFER |
| (A) | 1... | | EIDWAIT | "X'08" WAIT |
| (B) | CHARACTER | 1 | EIDOPT11 | OPTION BYTE 11 |
| (B) |1.. | | EIDPSBKW | "X'04" PASSBK ON SEND |
| (C) | CHARACTER | 1 | EIDOPT12 | OPTION BYTE 12 |
| (C) | ...1 | | EIDFMH | "X'10" FMH |
| (C) | ...1 | | EIDRTAIN | "X'10" RETAIN |
| (C) | 1... | | EIDLAST | "X'08" LAST |
| (C) | 1... | | EIDRLSE | "X'08" RELEASE |
| (D) | CHARACTER | 1 | EIDOPT13 | OPTION BYTE 13 |
| (E) | CHARACTER | 1 | EIDOPT14 | OPTION BYTE 14 |
| (E) | ...1 | | EIDSTRF | "X'10" STRUCTURED FIELD |
| (E) |1. | | EIDNVIT | "X'02" INVITE |
| (F) | CHARACTER | 1 | EIDOPT15 | OPTION BYTE 15 |
| (10) | CHARACTER | 8 | EIDLNNO (0) | LINE NUMBER |
| (10) | CHARACTER | 1 | EIDOPT16 | OPTION BYTE 16 |
| (11) | CHARACTER | 1 | EIDOPT17 | OPTION BYTE 17 |
| (12) | CHARACTER | 1 | EIDOPT18 | OPTION BYTE 18 |
| (13) | CHARACTER | 1 | EIDOPT19 | OPTION BYTE 19 |
| (14) | CHARACTER | 1 | EIDOPT20 | OPTION BYTE 20 |
| (15) | CHARACTER | 1 | EIDOPT21 | OPTION BYTE 21 |
| (16) | CHARACTER | 1 | EIDOPT22 | OPTION BYTE 22 |
| (17) | CHARACTER | 1 | EIDOPT23 | OPTION BYTE 23 |
| (18) | CHARACTER | 1 | EIDOPT24 | OPTION BYTE 24 |
| (19) | CHARACTER | 1 | EIDOPT25 | OPTION BYTE 25 |
| (1A) | CHARACTER | 1 | EIDOPT26 | OPTION BYTE 26 |
| (1B) | CHARACTER | 1 | EIDOPT27 | OPTION BYTE 27 |

EIS - EXEC interface structure

Table 174.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 0 | DFHEISDS | |

CONTROL BLOCK NAME = DFHEISDS
NAME OF MATCHING PL/AS CONTROL BLOCK = DFHEISPS
DESCRIPTIVE NAME = CICS TS EXEC Interface Structure.
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 1980, 2014
FUNCTION =
This copybook describes the system part of the EXEC
Interface storage (EIS). It does not contain a DSECT
statement and it is normally invoked by DFHEIS. See
this macro for reasons and details.

Dummy change for PQ58342

Table 175.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------------|--|
| (0) | HALFWORD | 2 | EIS_LENGTH | >Length of EIS |
| (2) | CHARACTER | 6 | EIS_EYE | >EIS eye catcher |
| TASK LIFETIME STORAGE The following storage is used to hold information which has the same lifetime as the task The following word is required at offset 8 by GDDM | | | | |
| (8) | ADDRESS | 4 | EIS_USER_EIB_ADDR | Address of 'User' EIB |
| (C) | ADDRESS | 4 | EISEIPB9 | SAVE EIP BASE REG 9 |
| (10) | ADDRESS | 4 | EISTCTTE (0) | A(TCTTE) for terminal/LU specified in current TC cmd. |
| (10) | ADDRESS | 4 | EISTCTSE | A(TCTSE) specified in ALLOCATE |
| (14) | ADDRESS | 4 | (0) | |
| (14) | CHARACTER | 20 | EISTRDATAB (0) | Data for TRACE_PUT with boundary information |
| (14) | CHARACTER | 18 | EISTRDATA (0) | Data for TRACE_PUT |
| (14) | CHARACTER | 8 | EISTRFLDAB (0) | Field A and B |
| (14) | CHARACTER | 4 | EISTRFLDA | Field A |
| (18) | CHARACTER | 4 | EISTRFLDB | Field B |
| (1C) | CHARACTER | 8 | EISTRRES | Resource name |
| (24) | CHARACTER | 2 | EISTRREQ (0) | Request bytes |
| (24) | CHARACTER | 1 | EISTRREQ1 | Request byte 1 |
| (25) | CHARACTER | 1 | EISTRREQ2 | Request byte 2 |
| (26) | BITSTRING | 1 | EISTRDST | Dispatcher state |
| (27) | BITSTRING | 1 | EISTRBIND | Boundary indicators |
| (14) | CHARACTER | 22 | EISTREAM64 (0) | AMODE 64 Entry Trace |

Table 175. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|--|
| (14) | BITSTRING | 2 | EISTREFN | AMODE 64 group & function |
| (16) | BITSTRING | 1 | EISTREKEY | AMODE 64 key |
| (17) | BITSTRING | 1 | EISTREAM | AMODE 64 AMODE |
| (18) | ADDRESS | 8 | EISTRER13 | AMODE 64 R13 |
| (20) | ADDRESS | 8 | EISTRER1 | AMODE 64 R1 |
| (28) | BITSTRING | 1 | EISTREDST | Dispatcher state |
| (29) | BITSTRING | 1 | EISTREBIND | Boundary indicators |
| (14) | CHARACTER | 12 | EISTRXAM64 (0) | AMODE 64 Exit Trace |
| (14) | BITSTRING | 2 | EISTRXFN | AMODE 64 group and function |
| (16) | BITSTRING | 1 | EISTRXDST | Dispatcher state |
| (17) | BITSTRING | 1 | EISTRXBIND | Boundary indicators |
| (18) | FULLWORD | 4 | EISTRXRP | AMODE 64 RESP |
| (1C) | FULLWORD | 4 | EISTRXRP2 | AMODE 64 RESP2 |
| (18) | CHARACTER | 6 | EISTRXGR | AMODE 64 GDS return code |
| (2A) | CHARACTER | 2 | | Spare |
| (2C) | ADDRESS | 4 | EISATABN | Saved table entry pointer to avoid subsequent lookup. Also used for this by CAU. |
| (30) | ADDRESS | 4 | EISCAHCB | HEAD OF CHAIN OF ATTACH HEADER CONTROL BLOCKS |
| (34) | ADDRESS | 4 | EISEDFDL | DEBUG LINKAGE |
| (38) | BITSTRING | 1 | EISFLAG2 | SOME ACTIVE HANDLE CONDS |
| (38) | 1... | | EISRDATT | "X'80'" RDATT |
| (38) | .1.. | | EISWRBRK | "X'40'" WRBRK |
| (38) | ..1. | | EISEOF | "X'20'" EOF |
| (38) | ...1 | | EISNOSPA | "X'10'" NOSPACE |
| (38) | 1.. | | EISQBUSY | "X'08'" QBUSY |
| (38) |1.. | | EISNOSTG | "X'04'" NOSTG |
| (38) |1. | | EISNQBSY | "X'02'" ENQBUSY |
| (38) |1 | | EISNOJBS | "X'01'" NOJBUFSP |
| (39) | BITSTRING | 1 | EISFLAG3 | |
| (39) | 1... | | EISIGNAL | "X'80'" SIGNAL |
| (39) | .1.. | | EISOFLOW | "X'40'" OVERFLOW |
| (39) | ..1. | | EISYSBSY | "X'20'" SYSBUSY |
| (39) | ...1 | | EISESBSY | "X'10'" SESSBUSY |
| (3A) | BITSTRING | 1 | EISFLAG5 | |

Table 175. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|--|
| (3A) | 1... | | EISIN1 | "X'80" 1 FOR FIRST RECEIVE OVER |
| (3A) | .1.. | | EISLERR | "X'40" 1 FOR LENGERR TO BE RAIS |
| (3A) | ..1. | | EISRECF | "X'20" 1 FOR F FORMAT |
| (3A) | ...1 | | EISRECU | "X'10" 1 FOR U FORMAT |
| (3A) | 1... | | EISRETRY | "X'08" 1 FOR RETRIEVE IOERROR |
| (3A) |1.. | | EISTWAIT | "X'04" 1 FOR WRITE WITHOUT WAIT |
| (3A) |1. | | EISTAID | "X'02" 1 FOR TEST EIBAID |
| (3B) | BITSTRING | 1 | EISDRESP | DELAY RESPONSE |
| (3C) | BITSTRING | 1 | EISFLAG4 | |
| (3C) | 1... | | EISABDMP | "X'80" Last abend included dump |
| (3C) | .1.. | | EISRUTER | "X'40" In rununit initialization or rununit termination |
| (3C) | ..1. | | EISQRECV | "X'20" TSQ recoverable (for CAU). |
| (3C) | ...1 | | EISQMAIN | "X'10" TSQ in main stg (for CAU). |
| (3C) | 1... | | EIS_LOWER_LEVEL_ ABENDED | "X'08" A user program at a lower link-level has abended previously |
| (3C) |1.. | | EISEDFSE | "X'04" User task security initialized |
| (3C) |1. | | EISCANXT | "X'02" EXEC CICS ABEND WITH CANCEL |
| (3C) |1 | | EISTCBNA | "X'01" TCB not available |
| (3D) | BITSTRING | 1 | EISEDFDM | EDF DEBUG MODE |
| (3D) | 1... | | EISEDFDO | "X'80" DEBUG ON |
| (3D) | .1.. | | EISEDFST | "X'40" SEPARATE TERMINAL |
| (3D) | ..1. | | EISEDFX | "X'20" I/O ISSUED BY EDFX |
| (3D) | ...1 | | EISABNDG | "X'10" EDFX has issued an abend |
| (3D) | 1... | | EISEDFDF | "X'08" EDF ON but deferred. |
| (3E) | CHARACTER | 2 | | Reserved |
| (40) | ADDRESS | 4 | EISTIOA | A(TIOA below the line) |
| (44) | FULLWORD | 4 | EISTIOAL | length of below the line TIOA |
| (48) | FULLWORD | 4 | EISUPERC | super-link level count for RMI |

Table 175. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------------|-------------------------------------|
| (4C) | ADDRESS | 4 | EISEXITT | Task token for user exit |
| (50) | ADDRESS | 4 | EIS_SYS_EIB_ADDR | address of 'System' EIB |
| (54) | ADDRESS | 4 | EISTRACE | Level 2 trace |
| (58) | FULLWORD | 4 | EISSAVE0 | R0 save area for GETMAIN/FREEM. |
| (5C) | ADDRESS | 4 | EISSAVE1 | R1 save area for GETMAIN/FREEM. |
| (60) | ADDRESS | 4 | EISSAVE6 | R6 save area for GETMAIN/FREEM. |
| (64) | ADDRESS | 4 | EISSAVE7 | R7 save area for GETMAIN/FREEM. |
| PROGRAM LIFETIME STORAGE The following storage is used to hold information which has the same lifetime as the current program | | | | |
| (68) | HALFWORD | 2 | EISCSETL | data length (no trunc) for read set |
| (6A) | CHARACTER | 1 | EISENILT | ENTRY NO. IN LABEL TABLE |
| (6B) | CHARACTER | 1 | | Reserved |
| (6C) | ADDRESS | 4 | EISRET | SUBROUTINE RETURN ADDRESS |
| (70) | ADDRESS | 4 | | Reserved for Service |
| COMMAND LIFETIME STORAGE The following storage is used to hold information which has the same lifetime as the current command | | | | |
| (74) | CHARACTER | 4 | EISSYSNM | name of sys. holding resrce. |
| (78) | ADDRESS | 4 | EISTEMP | TEMPORARY R14 SLOT |
| (7C) | ADDRESS | 4 | EISTEMP2 | TEMPORARY R14 SLOT |
| (80) | ADDRESS | 4 | EISTEMP3 | TEMPORARY R14 SLOT |
| (84) | ADDRESS | 4 | EISTEMP4 | TEMPORARY R14 SLOT |
| (88) | BITSTRING | 1 | EISEDFRB | EDF REQUEST/REPLY BYTE |
| REQUEST BITS | | | | |
| (88) | 1... | | EISEDFRQ | "X'80'" EXEC REQUEST |
| (88) | .1.. | | EISEDFRS | "X'40'" EXEC RESPONSE |
| (88) | ..1. | | EISEDFIN | "X'20'" INITIALIZATION |
| (88) | ...1 | | EISDFPT | "X'10'" PROGRAM TERMINATION |
| (88) | 1... | | EISDFTT | "X'08'" TASK TERMINATION |
| (88) |1.. | | EISDFAB | "X'04'" ABEND |
| (88) |1. | | EISDFAC | "X'02'" ABNORMAL CONDITION |
| (88) |1 | | EISDFRE | "X'01'" PLIST-REFORMAT REQUIRED |

Table 175. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|----------------------|--|
| REPLY BITS | | | | |
| (88) | 1... | | EISEDFFA | "X'80'" FORCED ABEND |
| (88) | .1.. | | EISEDFUA | "X'40'" USER ABEND |
| (88) | ..1. | | EISEDFUW | "X'20'" USER ABEND WITH DUMP |
| (88) | ...1 | | EISEDFUD | "X'10'" USER DUMP |
| (88) | 1.. | | EISEDFCA | "X'08'" CATASTROPHIC ABEND |
| (89) | CHARACTER | 7 | | Reserved |
| START OF STACKED STORAGE The following storage up to EISUPERB is stacked across links. The length of the stacked storage is held in EISTACKL. Fields from here to EISERMSA are RUN-UNIT local. | | | | |
| (90) | DBL WORD | 8 | (0) | |
| (90) | ADDRESS | 4 | EISTACKA (0) | |
| (90) | ADDRESS | 4 | EIS_PIP1_CICSKEY_RSA | Address of PIP1 Cics key rsa |
| (94) | ADDRESS | 4 | EIS_PIP1_USERKEY_STG | Address of PIP1 User key stg incl rsa |
| (98) | ADDRESS | 4 | EISRUSTG | RUN UNIT LOCAL STORAGE ADDRESS |
| (9C) | ADDRESS | 4 | EISERMSA | EDF/DLI ADDR EDF DISPLAY DATA |
| (A0) | ADDRESS | 4 | EIS_PLB_ADDRESS | Addr(Program Language Block) |
| (A4) | ADDRESS | 4 | EIS_APL1_SAVEAREA | Addr(DFHAPLI's registers on giving up control) |
| (A8) | ADDRESS | 4 | EISASTG | A(WS) FOR COBOL ONLY |
| (AC) | CHARACTER | 2 | EIS_PROGRAM_MODE | TCB MODE for application program |
| (AE) | BITSTRING | 1 | EISAPM | APPLICATION PROGRAM MASK |
| (AF) | BITSTRING | 1 | EISFLAG8 | |
| (AF) | 1... | | EISSRPAB | "X'80'" TCAAAM SET IN EDFX-SRP ISSUED ABND |
| (AF) | .1.. | | EISEDFRM | "X'40'" INDICATE EDF INVOKED BY ERM |
| (AF) | ...1 | | EISEDFRN | "X'10'" INDICATE NEW TYPE EDF SCREEN REQUIRED |
| (AF) | 1.. | | EISCEDFY | "X'08'" CEDF allowed for current program |
| (AF) |1.. | | EISTKING | "X'04'" Entering new exec capable GLUE/URM |
| (AF) |1. | | EISDPL | "X'02'" Program restricted to DPL API |

Table 175. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------------|--|
| (AF) |1 | | EISYNCOK | "X'01" Syncpointing allowed in DPL server prog. |
| (B0) | BITSTRING | 1 | EISFLAG9 | |
| (B0) | 1... | | EISSEIB | "X'80" SYSEIB ON LAST EXEC CICS COMMAND |
| (B0) | .1.. | | EISRTDST | "X'40" Indicate a RouTeD STart request |
| (B0) | ..1. | | EISERM31 | "X'20" DFHERM INVOKED IN AMODE 31 |
| (B0) | ...1 | | EISERM64 | "X'10" DFHERM INVOKED IN AMODE 64 |
| (B1) | BITSTRING | 1 | | Reserved |
| (B2) | HALFWORD | 2 | EISEDFLV | EDF stack level for current prog |
| (B4) | ADDRESS | 4 | | Reserved |
| <p>The following storage up to the EQU for EISINITL is re-initialised to X'00' for each program level</p> <p>The length of this initialised area is in EISINITL.</p> | | | | |
| (B8) | ADDRESS | 4 | EISINITA (0) | |
| (B8) | BITSTRING | 1 | EISFLAG1 | ASSORTED FLAGS |
| (B8) | 1... | | EISRORX | "X'80" 1 FOR PL/I RETURN OR XCTL |
| (B8) | .1.. | | EISSEX | "X'40" eligible for XEISPIN, OUT |
| (B8) | ..1. | | EISJVMXC | "X'20" Executing in JVM |
| (B8) | 1... | | EISPGOTO | "X'08" LE/370 Perform Goto flag |
| (B8) |1. | | EISEDFFC | "X'02" 1 FOR EDF WAS ON FOR FIRST CALL OF A SET OF CALLS |
| (B8) |1 | | EISEXEC | "X'01" 1 DURING EXEC COMMAND |
| (B9) | CHARACTER | 2 | EIS_FASTPATH (0) | Fastpath Condition Flags |
| (B9) | BITSTRING | 1 | EISFLAG6 | MASTERS FOR EISFLAG2 |
| (BA) | BITSTRING | 1 | EISFLAG7 | AND EISFLAG3 |
| <p>NOTE: EISLANG NOW REPLACES EISFLAG4. THE MEANING IS A PATTERN OF BITS TESTED BY CLI RATHER THAN TM.</p> <p>BITS 0,1,2,7 IN EISLANG ARE ALWAYS ZERO.</p> | | | | |
| (BB) | BITSTRING | 1 | EISLANG | LANGUAGE FLAGS |
| (BB) | ...1 111. | | EISLANGS | "X'1E" ALL LANGUAGE BITS |
| (BB) | ...1 | | EISRPG | "X'10" FOR RPG PROGRAM |
| (BB) | 1... | | EISASM | "X'08" FOR ASM PROGRAM |

Table 175. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------------|--|
| (BB) | 1.. | | EISCOBOL | "X'04'" FOR COBOL PROGRAM |
| (BB) | 11. | | EISSPCOB | "X'06'" FOR SPECIAL PROGRAM |
| (BB) |1. | | EISPLI | "X'02'" FOR PL/I PROGRAM |
| (BB) | 1.1. | | EISPLS | "X'0A'" FOR PL/AS PROGRAM |
| (BB) | 11.. | | EISVSPLI | "X'0C'" FOR V. SPECIAL PROGRAM |
| (BB) | 111. | | EISC | "X'0E'" FOR C PROGRAM |
| (BB) | ...1 ..1. | | EISLEASM | "X'12'" FOR LE MAIN Assembler |
| (BC) | BITSTRING | 1 | EISFLAGA | flag byte |
| (BC) | 1... | | EISDAT31 | "X'80'" program will accept data above 16M |
| (BC) | .1.. | | EISDAT64 | "X'40'" program will accept data above 2G |
| (BC) | 1.. | | EIS_XCTL | "X'04'" User has issued XCTL |
| (BC) |1. | | EIS_PROGRAM_ABENDED | "X'02'" DFHAPLI's Recovery Routine has detected that the program has abended |
| (BC) |1 | | EISEIECR | "X'01'" The program has terminated by issuing Exec Cics Return |
| EIS_CICS_DATAKEY, EIS_CICS_EXECKEY, EIS_CURRENT_EXECKEY, and EIS_ABEND_EXECKEY are all part of the support for Storage Isolation - PSK | | | | |
| (BC) | ..1. | | EIS_CICS_DATAKEY | "X'20'" Current program was defined with CICS data location key. |
| (BC) | ...1 | | EIS_CICS_EXECKEY | "X'10'" Current program was defined with |
| (BC) | 1... | | EISRUNIN | "X'08'" CEE Run-Unit in control CICS execution key. |
| (BD) | BITSTRING | 1 | EIS_CURRENT_EXECKEY | Instantaneous execution key when current command started |
| (BD) | 1..1 | | EIS_USERKEY | "X'90'" Constant for testing EIS_CURRENT_EXECKEY |
| (BE) | BITSTRING | 1 | EIS_ABEND_EXECKEY | Instantaneous execution key when the last HANDLE ABEND LABEL was executed at this level. |
| (BF) | BITSTRING | 1 | EIS_APPL_BOUNDARY_FLAGS | Application Boundary Flags |

Table 175. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------------|---|
| (BF) | 1... | | EIS_RECOVERY_SWITCH | "X'80" Recovery environment switch needed at application boundary |
| (BF) | .1.. | | EIS_ABTERM_ALLOWED_SWITCH | "X'40" Abterm_allowed switch needed at application boundary |
| (BF) | ..1. | | EIS_CRITICAL_CODE_SWITCH | "X'20" Critical code protection switch needed at application boundary |
| (BF) | ...1 | | EIS_RESET_RUNAWAY_SWITCH | "X'10" Reset runaway state |
| (BF) | 1... | | EISECOFF | "X'08" Event capture off for curr pgm |
| (BF) |1.. | | EISECTST | "X'04" Event captr tested for curr pgm |
| (C0) | ADDRESS | 4 | EIS24STG | A(run-unit work-area <16 meg) |
| (C4) | ADDRESS | 4 | | Reserved |
| (C4) | ...1 | | EISINITL | "*-EISINITA" Length cleared |
| This is the end of the area initialised to X'00' on LINK or XCTL. | | | | |
| (C4) | ..11 1... | | EISTACKL | "*-EISTACKA" Length stacked on LINK |
| <p style="text-align: center;">END OF STACKED STORAGE</p> <p>SUPERLINK STORAGE</p> <p>The following storage is not stacked by a LINK, however it is stacked by a resource manager call (SUPERLINK) to allow for recursion in the event that the invoked res-mgr invokes CICS via the command level interface ie. EXEC CICS...</p> | | | | |
| (C8) | ADDRESS | 8 | EISUPERB (0) | START OF SUPERLINK |
| (C8) | ADDRESS | 4 | EISICIOAL | IC Retrieve length for Bridge |
| (CC) | ADDRESS | 4 | EISBAIOA | A(BAIOA) |
| (D0) | ADDRESS | 4 | EISTDIA | A(TDIA) |
| (D4) | ADDRESS | 4 | EISTSIOA | A(TSIOA) |
| (D8) | ADDRESS | 4 | EISICIOA | IC TSIOA |
| (DC) | ADDRESS | 4 | EISDITAB | DI TABLE |
| (E0) | ADDRESS | 4 | EISERMDA | A(ERM-EDF I/F VECTOR) |
| (E4) | ADDRESS | 4 | EISBIBP | |
| (E8) | ADDRESS | 8 | EISEIPR1 | EIP'S INPUT R1 For EDF.. |
| (F0) | ADDRESS | 4 | EISUPERE (0) | END OF SUPERLINK * |
| end of SUPERLINK storage | | | | |
| (F0) | FULLWORD | 4 | (0) | |
| (F0) | CHARACTER | 8 | EISTITLE | DFHEIB |

EISTG - EXEC interface dynamic storage

EXEC INTERFACE DYNAMIC STORAGE

Table 176.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (0) | STRUCTURE | 0 | DFHEISTG | EXEC INTERFACE STORAGE |
| (0) | FULLWORD | 4 | DFHEISA (18) | SAVE AREA R14-R12 AT 12 OFF |
| (48) | FULLWORD | 4 | DFHEILWS | RESERVED |
| (4C) | FULLWORD | 4 | DFHEINAB | RESERVED |
| (50) | FULLWORD | 4 | DFHEIRS0 | RESERVED |
| (54) | FULLWORD | 4 | DFHEIR13 | REGISTER 13 |
| (58) | FULLWORD | 4 | DFHEIRS1 | RESERVED |
| (5C) | FULLWORD | 4 | DFHEIBP | EIB POINTER (NOT USED IF BATCH) |
| (60) | FULLWORD | 4 | DFHEICAP | COMMAREA POINTER (NOT USED IF BATCH) |
| (64) | HALFWORD | 2 | DFHEIV00 | HALFWORD TEMP USED BY DFHECALL |
| (66) | HALFWORD | 2 | DFHEIRS2 | RESERVED |
| (68) | FULLWORD | 4 | DFHEIPL (13) | PARAMETER LIST |
| (9C) | FULLWORD | 4 | (51) | ALLOW 64 PARAMETERS FOR DLI AND IN XA2 ON, FOR EXEC CICS ALSO |
| (168) | FULLWORD | 4 | DFHEIRS3 | FULLWORD TEMP USED BY DFHECALL |
| (16C) | FULLWORD | 4 | DFHEIRS4 | RESERVED |
| (170) | FULLWORD | 4 | DFHEITP1 | TEMPORARY POINTER 1 |
| (174) | FULLWORD | 4 | DFHEITP2 | TEMPORARY POINTER 2 |
| (178) | FULLWORD | 4 | DFHEITP3 | TEMPORARY POINTER 3 |
| (17C) | FULLWORD | 4 | DFHEITP4 | TEMPORARY POINTER 4 |
| START DEFINITION OF USER DYNAMIC STORAGE | | | | |
| (180) | DBL WORD | 8 | DFHEIUSR (0) | ALIGN USER DYNAMIC STORAGE |

EIUS - EXEC interface user structure

CONTROL BLOCK NAME = DFHEIUS

DESCRIPTIVE NAME = CICS TS User part of EXEC interface storage

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FUNCTION =

This is part of the interface between the application program and CICS. It contains fields whose addresses are passed to the application or to other products which invoke the application.

The EIUS is owned by the Execution Interface Component.

There is one EIU\$ per transaction.

LIFETIME =
The EIU\$ is created in DFHAPDS and lasts for the life of the task.

STORAGE CLASS =
The subpool is chosen according to the TASKDATAKEY and TASKDATALOC options specified for the task.
The possible subpools are :
SUBPOOL TASKDATAKEY TASKDATALOC
USER24 USER BELOW
USER31 USER ANY
CICS24 CICS BELOW
CICS31 CICS ANY

LOCATION =
The EIU\$ is addressed from the TCA by TCAEIUSA.

INNER CONTROL BLOCKS =
None

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
DATA AREAS =
This control block references no operating system data areas.
CONTROL BLOCKS =
This control block references no other control blocks.
GLOBAL VARIABLES (Macro pass) =
This control block definition references no global variables.

Table 177.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------|-------------------------------|
| (0) | STRUCTURE | 232 | DFHEIUS | EXEC Interface User Structure |
| (0) | CHARACTER | 16 | EIUS_PREFIX | Standard control block prefix |
| (0) | HALFWORD | 2 | EIUS_LENGTH | Length of DFHEIUS |
| (2) | CHARACTER | 1 | EIUS_ARROW | '>' |
| (3) | CHARACTER | 3 | EIUS_DFH | 'DFH' |
| (6) | CHARACTER | 10 | EIUS_BLOCK_NAME | 'EIUS ' |
| (10) | ADDRESS | 4 | EIUS_CEE_TWA | Addr LE/370 Thread w/a |
| START OF STACKED STORAGE The following storage up to EIUS_SUPER_STACK is stacked across a LINK or XCTL. It consists of two parts : 1. EIUS_STACK_INIT - reinitialised to X'00'. 2. EIUS_STACK_ASIS - left as is on the stack. | | | | |
| (14) | CHARACTER | 196 | EIUS_STACK_AREA | The whole link stack area |
| The following storage up to EIUS_STACK_ASIS is re-initialised to X'00' following a LINK or XCTL | | | | |
| (14) | CHARACTER | 16 | EIUS_STACK_INIT | Reinitialised section |
| (14) | CHARACTER | 8 | EIUS_CEE_RUNUNIT_TK | CEE rununit token |
| (1C) | ADDRESS | 4 | * | Reserved |
| (20) | ADDRESS | 4 | * | Reserved |

Table 177. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------|-------------------------------|
| This is the end of the area initialised to X'00' on LINK or XCTL The following storage up to EIUS_SUPER_STACK is left as is following a LINK or XCTL. | | | | |
| (24) | CHARACTER | 180 | EIUS_STACK_ASIS | Left as is on the stack |
| (24) | ADDRESS | 4 | * | Reserved |
| (28) | ADDRESS | 4 | * | Reserved |
| (2C) | CHARACTER | 8 | EIUS_HLL_RUNUNIT_TK | High level lang rununit token |
| EIUS_EIB_ADDR and EIUS_CURR_COMMA_ADDR must be contiguous for DFHEIENT macro in EXEC CICS with Assembler. | | | | |
| (34) | ADDRESS | 4 | EIUS_EIB_ADDR | EIB address |
| EIUS_CURR_COMMA_ADDR is the commarea received by the currently running program. It may be a copy taken because the program can not access the original because of its location or key. If it is a copy then the address of the original is in EIS_ORIG_COMMA_ADDR. | | | | |
| (38) | ADDRESS | 4 | EIUS_CURR_COMMA_ADDR | Current commarea address |
| (3C) | ADDRESS | 4 | EIUS_RSA_ADDR | Appl Reg Save Area address |
| (40) | CHARACTER | 144 | EIUS_RSA | Reg Save Area for appl use |
| (D0) | ADDRESS | 4 | * | Reserved |
| (D4) | ADDRESS | 4 | * | Reserved |
| END OF STACKED STORAGE | | | | |
| SUPERLINK STORAGE ----- The following storage is not stacked by a LINK, however it is stacked by a resource manager call (SUPERLINK) to allow for recursion in the event that the invoked res-mgr invokes CICS via the command level interface ie. EXEC CICS... The storage is left as is following a SUPERLINK. | | | | |
| (D8) | CHARACTER | 16 | EIUS_SUPER_STACK | Start of SUPERLINK storage |
| EIUS_EIB_ADDR_PTR and EIUS_COMMA_ADDR_PTR must be contiguous because an argument list is built here. | | | | |
| (D8) | CHARACTER | 8 | EIUS_ARG_LIST | Application argument list |
| (D8) | ADDRESS | 4 | EIUS_EIB_ADDR_PTR | Ptr to EIUS_EIB_ADDR |
| (DC) | ADDRESS | 4 | EIUS_COMMA_ADDR_PTR | Ptr to EIUS_CURR_COMMA_ADDR |
| (E0) | ADDRESS | 4 | * | Reserved |
| (E4) | ADDRESS | 4 | * | Reserved |
| (E8) | CHARACTER | 0 | EIUS_SUPER_END | End of SUPERLINK storage |

EPDE - Event Processing Descriptor

CONTROL BLOCK NAME = DFHEPDEC

FUNCTION

The EPDE is a definition of the DFHEP.DESRIPTOR container that describes the data captured for a CICS EVENT and the formatting attributes specified for the event data.

A CICS EVENT object consists of the following containers named DFHEP.xxxxx

ADAPTER

A container for the EPAdapter configuration.

ADAPTPARM

A container for the EPAdapter invocation parms.

CONTEXT

A container for the contextual data common to all events.

DESCRIPTOR

A container describing the list of capture data items.

DFHEP.DATA.nnnnn

A container for each captured data item where nnnnn is a 5 decimal digit sequence number that indicates the ordering of the captured data starting at '00001'.

The DESCRIPTOR is created from the XML definition of an event which is, normally, created using the CICS event binding editor and installed into CICS via a BUNDLE.

Each CICS event object passed to an EP adapter contains a DFHEP.DESSCRIPTOR container. This container has a prefix and an array of item definitions, one per data item captured, so that the DFHEP.DATA.nnnnn container will hold the data corresponding to the nth item in the EPDE_Item array.

Each item in the DESCRIPTOR array defines the type of the source data captured and the required length and type of that data when/if it is formatted. The source data type is given in field EPDE_DataType and can take any of the following values:

PACKED

Packed decimal.

ZONED

Zoned decimal.

HEX

Hexadecimal.

UHWORD

Unsigned halfword.

UFWORD

Unsigned fullword.

SHWORD

Signed halfword.

SFWORD

Signed fullword.

CHAR

Character.

HEXFLOAT

Hexadecimal floating point (HFP).

BINFLOAT

Binary floating point (BFP).

DECFLOAT

Decimal floating point (DFP).

HEXZ

Null terminated hexadecimal.

CHARZ

Null terminated character. :ed1

Notes:

- The sign in zoned decimal data captured from COBOL programs may be leading or trailing, and either separate or included in the numeric data.

- We distinguish between CHAR and CHARZ, HEX and HEXZ for information only. The data captured does not include the terminating null.

The captured data will be exactly as found in the source data. Its length can be derived from the length of the data container. Whatever data is available up to the length specified in the capture data item spec will be captured. If the capture data is not available then the corresponding DFHEP.DATA container will not be created.

Table 178.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|---------------------------|
| (0) | STRUCTURE | 12 | EPDE | Event descriptor data |
| (0) | CHARACTER | 12 | EPDE_PREFIX | Fixed length prefix |
| (0) | CHARACTER | 4 | EPDE_STRUCID | Structure identifier EPDE |
| (4) | FULLWORD | 4 | EPDE_VERSION | Version of this structure |
| (8) | HALFWORD | 2 | EPDE_ITEMLENGTH | Length of a data item |
| (A) | HALFWORD | 2 | EPDE_ITEMCOUNT | Number of data items |
| (C) | CHARACTER | 0 | EPDE_PREFIXEND | Start of descriptor array |

Table 179.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|----------------------------|
| (0) | STRUCTURE | 68 | EPDE_ITEM | Data descriptor item array |
| (0) | CHARACTER | 32 | EPDE_DATANAME | Data item name |
| (20) | CHARACTER | 8 | EPDE_DATATYPE | Data type code |
| (28) | FULLWORD | 4 | EPDE_DATAPRECISION | Data precision |
| (2C) | CHARACTER | 16 | EPDE_FORMATTYPE | Formatting data type |
| (3C) | FULLWORD | 4 | EPDE_FORMATLEN | Formatting length |
| (40) | FULLWORD | 4 | EPDE_FORMATPRECISION | Formatting precision |

Constants

Table 180.

| Len | Type | Value | Name | Description |
|-------------------------|-----------|----------|----------------------|-------------|
| Values of strucid | | | | |
| 4 | CHARACTER | EPDE | EPDE_STRUC_ID | |
| Values of version | | | | |
| 2 | DECIMAL | 1 | EPDE_VERSION_1 | |
| 2 | DECIMAL | 1 | EPDE_CURRENT_VERSION | |
| Values of EPDE_DataType | | | | |
| 8 | CHARACTER | PACKED | EPDE_PACKED | |
| 8 | CHARACTER | ZONED | EPDE_ZONED | |
| 8 | CHARACTER | HEX | EPDE_HEX | |
| 8 | CHARACTER | UHWORDED | EPDE_UHWORDED | |

Table 180. (continued)

| Len | Type | Value | Name | Description |
|--------------------------------|-----------|------------|----------------------|-------------|
| 8 | CHARACTER | UFWORD | EPDE_UFWORD | |
| 8 | CHARACTER | SHWORD | EPDE_SHWORD | |
| 8 | CHARACTER | SFWORD | EPDE_SFWORD | |
| 8 | CHARACTER | CHAR | EPDE_CHAR | |
| 8 | CHARACTER | HEXFLOAT | EPDE_HEXFLOAT | |
| 8 | CHARACTER | BINFLOAT | EPDE_BINFLOAT | |
| 8 | CHARACTER | DECFLOAT | EPDE_DECFLOAT | |
| 8 | CHARACTER | HEXZ | EPDE_HEXZ | |
| 8 | CHARACTER | CHARZ | EPDE_CHARZ | |
| Values of EPDE_FormatType | | | | |
| 16 | CHARACTER | text | EPDE_TEXT | |
| 16 | CHARACTER | numeric | EPDE_NUMERIC | |
| 16 | CHARACTER | scientific | EPDE_SCIENTIFIC | |
| Values of EPDE_FormatLen | | | | |
| 4 | DECIMAL | 0 | EPDE_FORMATLEN_AUTO | |
| Values of EPDE_FormatPrecision | | | | |
| 4 | DECIMAL | -1 | EPDE_FORMATPREC_AUTO | |

EPFE - Event Processing Flattened Event

```

=====
EPFE - CICS Flattened Event
This copybook describes the CICS Event Processing contextual
header which is included in both CICS Flattened Events (CFE) and
CICS Container-based Events (CCE).
CFE events contain the contextual header, followed immediately by
the captured event data. Each data item in the event is formatted
according to the capture specification and added to the event data
in the order specified in the event binding.
CCE events include this data in a context container,
DFHEP.CCECONTEXT
=====

```

Table 181.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---------------------------|
| (0) | STRUCTURE | 228 | EPFE | EPFE |
| (0) | CHARACTER | 228 | EPFE_CONTEXTDATA | Event context |
| (0) | CHARACTER | 4 | EPFE_STRUCID | Structure identifier EPFE |
| (4) | CHARACTER | 4 | EPFE_VERSION | Version |
| (8) | CHARACTER | 32 | EPFE_EVENTBINDING | Event Binding Name |
| (28) | CHARACTER | 8 | EPFE_EBUSERTAG | Event Binding user tag |
| (30) | CHARACTER | 32 | EPFE_BUSINESSEVENT | Business event name |
| (50) | CHARACTER | 54 | EPFE_NETWORKUOWID | Network UOW ID |
| (86) | CHARACTER | 17 | EPFE_NETQUALAPPLID | Network qualified applid |

Table 181. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|----------------------------|
| (97) | CHARACTER | 29 | EPFE_DATETIME | Capture date and time |
| (B4) | CHARACTER | 32 | EPFE_CSNAME | Capture specification name |
| (D4) | CHARACTER | 16 | * | Reserved |
| (E4) | CHARACTER | 0 | EPFE_EVENTDATA | Start of event data |

Constants

Table 182.

| Len | Type | Value | Name | Description |
|------------------------|-----------|-------|----------------|-------------|
| Values of EPFE_StrucId | | | | |
| 4 | CHARACTER | EPFE | EPFE_STRUC_ID | |
| Values of EPFE_Version | | | | |
| 4 | CHARACTER | 0001 | EPFE_VERSION_1 | |
| 4 | CHARACTER | 0002 | EPFE_VERSION_2 | |

EPCX - Event Processing Context Container

This copybook describes the DFHEP.CONTEXT container that contains context information for a CICS EP EVENT object.

Note that EPCX_Program, EPCX_Resp & EPCX_UOWid are not set for system events.

A CICS EVENT object consists of the following containers:

DFHEP.ADAPTER
 - a container for the EP adapter configuration
 DFHEP.ADAPTPARM
 - a container for the EP adapter invocation parameters
 DFHEP.CONTEXT
 - a container for the contextual data common to all events
 DFHEP.DESRIPTOR
 - a container describing the list of capture data items
 DFHEP.DATA.nnnnn
 - a container for each captured data item where nnnnn is a 5 decimal digit sequence number that indicates the ordering of the captured data starting at '00001'.

Table 183.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|---------------------------|
| (0) | STRUCTURE | 195 | EPCX | Event contextual data |
| (0) | CHARACTER | 4 | EPCX_STRUCID | Structure identifier EPCX |
| (4) | FULLWORD | 4 | EPCX_VERSION | Structure version number |
| (8) | HALFWORD | 2 | EPCX_SCHEMA_VERSION | Schema version num |
| (A) | HALFWORD | 2 | EPCX_SCHEMA_RELEASE | Schema release num |

Table 183. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|--------------------------|
| (C) | CHARACTER | 120 | EPCX_CHAR_DATA | Character data |
| (C) | CHARACTER | 32 | EPCX_EVENT_BINDING | Event Binding Name |
| (2C) | CHARACTER | 32 | EPCX_CS_NAME | Capture Spec name |
| (4C) | CHARACTER | 8 | EPCX_EBUSERTAG | Event Binding user tag |
| (54) | CHARACTER | 32 | EPCX_BUSINESSEVENT | Business event name |
| (74) | CHARACTER | 8 | EPCX_NETQUAL | Network Applid Qualifier |
| (7C) | CHARACTER | 8 | EPCX_APPLID | Applid |
| (84) | CHARACTER | 4 | EPCX_TRANID | Transaction Id |
| (88) | CHARACTER | 8 | EPCX_USERID | User Id |
| (90) | CHARACTER | 8 | EPCX_ABSTIME | ABSTIME of event |
| (98) | CHARACTER | 1 | EPCX_EVENT_TYPE | Appl or system |
| (99) | CHARACTER | 3 | * | Reserved |
| (9C) | CHARACTER | 8 | EPCX_PROGRAM | Current program name |
| (A4) | FULLWORD | 4 | EPCX_RESP | EIBRESP |
| (A8) | CHARACTER | 27 | EPCX_UOWID | Network UOW Id |

Constants

Table 184.

| Len | Type | Value | Name | Description |
|------------------------------|-----------|-------|-----------------------------|-------------|
| Values of EPCX_StrucId | | | | |
| 4 | CHARACTER | EPCX | EPCX_STRUC_ID | |
| Values of EPCX_Version | | | | |
| 4 | DECIMAL | 1 | EPCX_VERSION_1 | |
| 4 | DECIMAL | 2 | EPCX_VERSION_2 | |
| 4 | DECIMAL | 2 | EPCX_CURRENT_VERSION | |
| Values of EPCX_SchemaVersion | | | | |
| 2 | DECIMAL | 1 | EPCX_SCHEMA_VERSION_1 | |
| 2 | DECIMAL | 2 | EPCX_SCHEMA_VERSION_2 | |
| 2 | DECIMAL | 2 | EPCX_CURRENT_SCHEMA_VERSION | |
| Values of EPCX_SchemaRelease | | | | |
| 2 | DECIMAL | 0 | EPCX_SCHEMA_RELEASE_0 | |
| 2 | DECIMAL | 0 | EPCX_CURRENT_SCHEMA_RELEASE | |
| Values of EPCX_EventType | | | | |
| 1 | CHARACTER | A | EPCX_APPLICATION | |
| 1 | CHARACTER | S | EPCX_SYSTEM | |

EPAP - Event Processing Adaptparm Container

This copybook describes the DFHEP.ADAPTPARM container that contains parameter data for invocation of a CICS EP adapter.

A CICS EVENT object consists of the following containers:

DFHEP.ADAPTER
- a container for the EP adapter configuration
DFHEP.ADAPTPARM
- a container for the EP adapter invocation parameters
DFHEP.CONTEXT
- a container for the contextual data common to all events
DFHEP.DESRIPTOR
- a container describing the list of capture data items
DFHEP.DATA.nnnnn
- a container for each captured data item where nnnnn is a 5 decimal digit sequence number that indicates the ordering of the captured data starting at '00001'.

Table 185.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---------------------------|
| (0) | STRUCTURE | 44 | EPAP | EP adapter parameter data |
| (0) | CHARACTER | 4 | EPAP_STRUCID | Structure identifier EPAP |
| (4) | FULLWORD | 4 | EPAP_VERSION | Structure version number |
| (8) | CHARACTER | 32 | EPAP_ADAPTERNAME | EP adapter name |
| (28) | CHARACTER | 1 | EPAP_RECOVER | Emission recoverability |
| (29) | CHARACTER | 3 | * | Reserved |

Constants

Table 186.

| Len | Type | Value | Name | Description |
|------------------------|-----------|-------|----------------------|-------------|
| Values of EPAP_StrucId | | | | |
| 4 | CHARACTER | EPAP | EPAP_STRUC_ID | |
| Values of EPAP_Version | | | | |
| 4 | DECIMAL | 1 | EPAP_VERSION_1 | |
| 4 | DECIMAL | 1 | EPAP_CURRENT_VERSION | |
| Values of EPAP_Recover | | | | |
| 1 | CHARACTER | R | EPAP_RECOVERABLE | |
| 1 | CHARACTER | N | EPAP_NON_RECOVERABLE | |
| 1 | CHARACTER | | EPAP_ANY_RECOVERABLE | |

EPGDS - Event Processing Global Statistics

CONTROL BLOCK NAME = DFHEPGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHEPGPS
DESCRIPTIVE NAME = CICS TS EP Domain (Eventproc) Global Statistics
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FUNCTION =
This data area contains the eventprocess global statistics provided by the EP Domain.
It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.
There is a single instance of this data block.

LIFETIME =
This data block is created by the EP Domain to store statistics to be passed to the user in response to a for eventprocess global statistics. The storage is released when the user task is detached.
The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = None

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHEPGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 187.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|-------------------------------|
| (0) | STRUCTURE | 0 | DFHEPGDS | EP Domain Global stats record |
| (0) | HALFWORD | 2 | EPGDS_LEN | EP Domain stats record length |
| (2) | ADDRESS | 2 | EPGDS_ID | EP Domain stats id |
| (4) | CHARACTER | 1 | EPGDS_VERS | EP Domain stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | EPG_PUT_EVENTS | Put Events |
| (C) | FULLWORD | 4 | | Reserved |
| (10) | FULLWORD | 4 | | Reserved |
| (14) | FULLWORD | 4 | EPG_COMMIT_FORWARD_EVENTS | Commit forward async events |
| (18) | FULLWORD | 4 | EPG_COMMIT_BACKWARD_EVENTS | Commit backward async events |
| (1C) | BITSTRING | 8 | | Reserved |
| (24) | FULLWORD | 4 | EPG_CURRENT_EVC_QUEUE | Current event capture queue |
| (28) | FULLWORD | 4 | EPG_PEAK_EVC_QUEUE | Peak event capture queue |

Table 187. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------------------|--|
| (2C) | FULLWORD | 4 | EPG_CURRENT_TRANS_ QUEUE | Current transactional queue |
| (30) | FULLWORD | 4 | EPG_PEAK_TRANS_ QUEUE | Peak transactional queue |
| (34) | FULLWORD | 4 | EPG_ASYNC_NORMAL_ EVENTS | Async normal events |
| (38) | FULLWORD | 4 | EPG_ASYNC_PRIORITY_ EVENTS | Async priority events |
| (3C) | BITSTRING | 8 | | Reserved |
| (44) | FULLWORD | 4 | | Reserved |
| (48) | FULLWORD | 4 | | Reserved |
| (4C) | FULLWORD | 4 | EPG_TRANS_EVENTS | Transactional events |
| (50) | FULLWORD | 4 | EPG_TRANS_EVENTS_ DISCARDED | Transactional events disc |
| (54) | FULLWORD | 4 | EPG_SYNC_EVENTS | Synchronous events |
| (58) | FULLWORD | 4 | EPG_SYNC_EVENTS_ FAILED | Synchronous events failed |
| (5C) | BITSTRING | 8 | | Reserved |
| (64) | FULLWORD | 4 | EPG_DISPATCHERS_ ATTACHED | Number of dispatcher attaches |
| (68) | FULLWORD | 4 | EPG_CURRENT_ DISPATCHERS | Current dispatcher tasks |
| (6C) | FULLWORD | 4 | EPG_PEAK_DISPATCHERS | Peak dispatcher tasks |
| (70) | FULLWORD | 4 | | Reserved |
| (74) | FULLWORD | 4 | EPG_CUSTOM_ADAPTER_ EVENTS | Events to Custom EP adapter |
| (78) | FULLWORD | 4 | EPG_WMQ_ADAPTER_ EVENTS | Events to WMQ EP adapter |
| (7C) | FULLWORD | 4 | EPG_TRANS_ADAPTER_ EVENTS | Events to Trans EP adapter |
| (80) | FULLWORD | 4 | EPG_TSQUEUE_ADAPTER_ EVENTS | Events to Tsqueue adapter |
| (84) | FULLWORD | 4 | EPG_HTTP_ADAPTER_ EVENTS | Events to HTTP adapter |
| (88) | FULLWORD | 4 | | Reserved |
| (8C) | FULLWORD | 4 | EPG_DISPATCH_ FAILURE_CONFIG | Events lost - config |
| (90) | FULLWORD | 4 | EPG_DISPATCH_ FAILURE_OTHER | Events lost - other |
| (94) | FULLWORD | 4 | EPG_ADAPTER_FAILURE_ CONFIG | Events lost - config |
| (98) | FULLWORD | 4 | EPG_ADAPTER_FAILURE_ OTHER | Events lost - other |
| (9C) | FULLWORD | 4 | EPG_EVENTS_ADAPTER_ UNAVAIL | Events lost - no adapter |
| (A0) | BITSTRING | 16 | | Reserved |
| (A0) | 1.11 | | EPGDS_END | "*" |
| (A0) | 1.11 | | EPGDS_LENGTH | "*-EPGDS_LEN" EP Domain Global record length |
| Constants that denote a EP domain global stats record | | | | |
| (A0) | 1... 111. | | EPGIDE | "142" Eventprocess global stats id |
| (A0) |1 | | EPG_VERS | "X'01" Record version number |

EPRDS - Event Processing Resource Statistics

CONTROL BLOCK NAME = DFHEPRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHEPRPS
DESCRIPTIVE NAME = CICS TS EP Domain (EP) Resource Statistics
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5655-Y04
(C) Copyright IBM Corp. 2010
FUNCTION =
This data area contains the eventprocess resource statistics provided by the EP Domain.
It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.
There is a single instance of this data block.
LIFETIME =
This data block is created by the EP Domain to store statistics to be passed to the user in response to a request for eventprocess resource statistics. The storage is released when the user task is detached.
The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.
STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage block.
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHEPRDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 188.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|---------------------------------|
| (0) | STRUCTURE | 0 | DFHEPRDS | EP resource stats record |
| (0) | HALFWORD | 2 | EPRDS_LEN | EP resource stats record length |
| (2) | ADDRESS | 2 | EPRDS_ID | EP resource stats id |
| (4) | CHARACTER | 1 | EPRDS_VERS | EP resource stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 32 | EPR_ADAPTER_NAME | EP adapter name |
| (28) | BITSTRING | 1 | EPR_ADAPTER_TYPE | EP adapter type |
| (29) | BITSTRING | 1 | EPR_EMISSION_MODE | Events are sync or async |
| (2A) | BITSTRING | 2 | | Reserved |
| (2C) | FULLWORD | 4 | EPR_PUT_EVENTS | put_events for this adapter |
| (30) | BITSTRING | 16 | | Reserved |
| (40) | CHARACTER | 8 | EPR_ADA_DEFINE_SOURCE | Group installed from |
| (48) | BITSTRING | 8 | EPR_ADA_CHANGE_TIME | Change/create time |
| (50) | CHARACTER | 8 | EPR_ADA_CHANGE_USERID | Change userid |

Table 188. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|------------------------|--|
| (58) | BITSTRING | 2 | EPR_ADA_CHANGE_AGENT | Change agent |
| (5A) | BITSTRING | 2 | EPR_ADA_INSTALL_AGENT | Install agent |
| (5C) | BITSTRING | 8 | EPR_ADA_INSTALL_TIME | Install/Create time |
| (64) | CHARACTER | 8 | EPR_ADA_INSTALL_USERID | Install userid |
| (64) | .11. 11.. | | EPRDS_END | "144" |
| (64) | .11. 11.. | | EPRDS_LENGTH | "*-EPRDS_LEN" EP Domain resource record length |
| Constants that denote a EP domain resource stats record | | | | |
| (64) | 1..1 | | EPRIDE | "144" Eventprocess resource stats id |
| (64) |1 | | EPR_VERS | "X'01" Record version number |
| The following values relates to epr_emission_mode | | | | |
| (64) |1 | | EPR_EMODE_SYNC | "01" |
| (64) |1. | | EPR_EMODE_ASYNC | "02" |
| The following values relates to epr_adapter_type | | | | |
| (64) |1 | | EPR_ATYPE_CUSTOM | "01" |
| (64) |1. | | EPR_ATYPE_WMQ | "02" |
| (64) |11 | | EPR_ATYPE_TRANSTART | "03" |
| (64) |1.. | | EPR_ATYPE_TSQUEUE | "04" |
| (64) |1.1 | | EPR_ATYPE_HTTP | "05" Change Agents |
| (64) |1 | | EPR_CSDAPI_CHANGE | "0001" CSD API |
| (64) |1. | | EPR_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (64) |11 | | EPR_DREPAPI_CHANGE | "0003" DREP API |
| (64) |1.. | | EPR_CREATE_CHANGE | "0004" EXEC CREATE SPI Install Agents |
| (64) | 1..1 | | EPR_BUNDLE_INSTALL | "0009" BUNDLE |

ETC - EXEC terminal control

CONTROL BLOCK NAME = DFHETCDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS EXEC Terminal Control

Table 189.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 0 | DFHETCDS | |
| <p>The EXEC terminal-control control block describes the storage used to hold data relatin to ATTACH function management headers (FMHs). Several such blocks may be created for a task and are chained from the EXEC interface structure (field EISCAHCB). Individual blocks may also be chained from TCTTEs owned by the task (field TCTEEIEX).</p> <p>ALLOW FOR (USER) STORAGE ACCOUNTING INFORMATION</p> | | | | |
| (0) | ADDRESS | 4 | (2) | * * |

Table 189. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| FIRST COME DEFINITIONS FOR CONTROL BLOCK AND DATA MANIPULATION. | | | | |
| (8) | ADDRESS | 4 | ETCBFCHN | POINTER TO NEXT EXEC TC CONTROL BLOCK |
| (C) | ADDRESS | 4 | ETCBTEAR | 0 IF ETCBUSID SET OR A(TCTTE) IF ETCBTCID SET |
| (10) | ADDRESS | 4 | ETCBSTDA | LOW BOUND ADDRESS FOR FMH BUILD / EXTRACT |
| (14) | ADDRESS | 4 | ETCBNDDA | HIGH BOUND ADDRESS FOR FMH BUILD / EXTRACT |
| (18) | CHARACTER | 8 | ETCBID | NAME OF EXEC TERMINAL CONTROL CONTROL BLOCK |
| (20) | CHARACTER | 1 | ETCBFLGS | |
| (20) | 1... | | ETCBUSID | "X'80'" ID IS 8 BYTE USER NAME |
| (20) | .1.. | | ETCBTCID | "X'40'" ID IS 4 BYTE TCTTE NAME |
| (21) | CHARACTER | 1 | ETCBXTOP | FMH BUILD / EXTRACT OPTIONS BYTE - VALUES CORRESPOND TO THOSE HELD IN TCTEXTOP |
| (21) | 1... | | ETCBEXNO | "X'80'" EXTRACT = NO |
| (21) | .1.. | | ETCBEXAT | "X'40'" EXTRACT = ATTACH |
| (21) | ..1. | | ETCBEXPR | "X'20'" EXTRACT = PREPARE |
| (22) | CHARACTER | 1 | ETCBREMV | FMH REMOVAL OPTIONS BYTE - VALUES ARE IDENTICAL TO THOSE HELD IN ETCBXTOP |
| (23) | CHARACTER | 1 | ETCBBILD | FMH BUILD OPTIONS |
| (23) | 1... | | ETCBUFMH | "X'80'" USER DATA CONTAINS FMH(S) |
| (23) | .1.. | | ETCBBUAT | "X'40'" BUILD = ATTACH |
| (23) | ..1. | | ETCBBUPR | "X'20'" BUILD = PREPARE * |
| (24) | FULLWORD | 4 | (0) | * |
| NOW COME DEFINITIONS FOR FIELDS THAT RELATE TO AN LU6 PREPARE HEADER | | | | |
| (24) | CHARACTER | 1 | LU6PTYP | VALUE PUT IN FMHPPTYP * |
| NOW COME DEFINITIONS FOR FIELDS THAT RELATE TO AN LU6 ATTACH HEADER | | | | |

Table 189. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------|--|
| (25) | CHARACTER | 1 | LU6MTYP | VALUE PUT IN FMHXMOD |
| (26) | CHARACTER | 1 | LU6DS | VALUE PUT IN FMHADS |
| (27) | CHARACTER | 1 | LU6DBA | VALUE PUT IN FMHADBA * |
| NOW COME DEFINITIONS FOR OPTIONAL FIELDS THAT RELATE TO AN LU6 ATTACH HEADER | | | | |
| (28) | CHARACTER | 1 | LU6EXIST | VALUES PRESENT IN FMH |
| (28) | 1... | | LU6DPNX | "X'80" DPN PRESENT |
| (28) | .1.. | | LU6PRNX | "X'40" PRN PRESENT |
| (28) | ..1. | | LU6RDPNX | "X'20" RDPN PRESENT |
| (28) | ...1 | | LU6RPRNX | "X'10" RPRN PRESENT |
| (28) | 1... | | LU6DQNX | "X'08" DQN PRESENT * |
| (29) | CHARACTER | 8 | LU6DPN | VALUE PUT IN FMHATDPN |
| (31) | CHARACTER | 8 | LU6PRN | VALUE PUT IN FMHATPRN |
| (39) | CHARACTER | 8 | LU6RDPN | VALUE PUT IN FMHARDPN |
| (41) | CHARACTER | 8 | LU6RPRN | VALUE PUT IN FMHARPRN |
| (49) | CHARACTER | 8 | LU6DQN | VALUE PUT IN FMHATDQN * |
| LASTLY COME DEFINITIONS FOR FIELDS THAT RELATE TO WHAT HAS BEEN DONE TO THE DATA | | | | |
| (51) | CHARACTER | 1 | ETCBPRE | IF SET, PREPARE HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB |
| (52) | CHARACTER | 1 | ETCBLU6 | IF SET, LU6 ATTACH HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB |
| (53) | CHARACTER | 1 | ETCBLUC | IF SET, LU6 ATTACH HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB |
| (54) | CHARACTER | 1 | ETCBFMH | IF SET, DATA RETURNED TO CALLER CONTAINS ONE OR MORE FMHS |
| (55) | CHARACTER | 1 | ETCBERR | IF SET, FMH IS NOT CONTAINED WITHIN THE SPECIFIED DATA LIMITS |
| (58) | DBL WORD | 8 | ETCBEND (0) | |
| (58) | .1.. | | ETCBCLR | "*-ETCBID" LENGTH OF DATA IN CONTROL BLOCK THAT IS CLEARED WHEN AN ETCB IS FREED |

Table 189. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (58) | .1.1 | | ETCBLEN | "*-ETCBFCHN" OVERALL LENGTH OF AN ETCB CONTROL BLOCK |

FCE - File control EXEC argument list

CONTROL BLOCK NAME = DFHFCEDS
 DESCRIPTIVE NAME = CICS TS EXEC argument list for File Control
 Licensed Materials - Property of IBM
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 5655-Y04
 (C) Copyright IBM Corp. 1989, 2005
 PRODUCT SENSITIVE PROGRAMMING INTERFACES
 The following fields are part of the Product-Sensitive Programming Interface.

FC_ADDR0
 FC_ADDR1
 FC_ADDR2
 FC_ADDR3
 FC_ADDR4
 FC_ADDR5
 FC_ADDR6
 FC_ADDR7
 FC_ADDR8
 FC_GROUP
 FC_FUNCT
 FC_BITS1
 FC_BITS2
 FC_EIDOPT5
 FC_EIDOPT6
 FC_EIDOPT7
 FC_EIDOPT8
 FC_FILE
 FC_SET
 FC_INT0
 FC_FROM
 FC_LENGTH
 FC_NUMREC
 FC_REQID
 FC_RIDFLD
 FC_KEYLENGTH
 FC_RNP_REQID
 FC_SYSID
 FC_IND1

FUNCTION =

To define fields that may be of use to File Control User Exits:-

- (1) The Command Level Parameter List.
- (2) EIBRCODE, EIBRESP and EIBRESP2 values.
- (3) The byte of File Control Indicators.

On entry to the XFCREQ and XFCREQC User exits, the EXEC parameter list is pointed to by UEPCPLPS. The EXEC parameter list for file control consists of twelve addresses.

The twelve addresses are defined by FC_ADDR0 to FC_ADDRB. Only FC_ADDR0 to FC_ADDR7 may be used by user exits, and also FC_ADDRB.

FC_ADDR8 to FC_ADDRA are reserved for CICS internal use only.

This DSECT defines FC_ADDR0 to FC_ADDRB and the areas that they point to.

On entry to the XFCREQ and XFCREQC user exits, the copy

of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP is pointed by UEPRESP and the copy of EIBRESP2 is pointed to by UEPRESP2.
This DSECT also contains equates for values of EIBRCODE, EIBRESP and EIBRESP2 used by File Control.
LIFETIME = Lifetime of the FC command request
STORAGE CLASS = As the storage being mapped is the translated source in the user's application program, the storage may be either above or below the line.
LOCATION = (1) EXEC Parameter List is addressed by UEPCPLPS.
(2) Fields copied from the EIB are addressed by UEPRCODE, UEPRESP and UEPRESP2.
(3) The token for use in communicating between XFCREQ and XFCREQC is addressed by UEPFCTOK.
INNER CONTROL BLOCKS =
FC_ADDR_LIST declares the EXEC addresses
FC_EID defines the EID pointed by FC_ADDR0
NOTES :
DEPENDENCIES = S/370 ESA
RESTRICTIONS = None
MODULE TYPE = Control Block definition

The Command Parameter List
FC_ADDR_LIST defines twelve addresses, that form the EXEC parameter list for File Control. Only FC_ADDR0 to FC_ADDR7 and FC_ADDRB may be referenced by user exits.
In addition, FC_ADDR1 to FC_ADDR7 and FC_ADDRB may be modified by a user exit.
Any attempt to modify FC_ADDR0 will be ignored.

Table 190.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|------------------------|
| (0) | STRUCTURE | 0 | FC_ADDR_LIST | EXEC Parameter List |
| (0) | ADDRESS | 4 | FC_ADDR0 | Address 0 |
| (4) | ADDRESS | 4 | FC_ADDR1 | Address 1 |
| (8) | ADDRESS | 4 | FC_ADDR2 | Address 2 |
| (C) | ADDRESS | 4 | FC_ADDR3 | Address 3 |
| (10) | ADDRESS | 4 | FC_ADDR4 | Address 4 |
| (14) | ADDRESS | 4 | FC_ADDR5 | Address 5 |
| (18) | ADDRESS | 4 | FC_ADDR6 | Address 6 |
| (1C) | ADDRESS | 4 | FC_ADDR7 | Address 7 |
| (20) | ADDRESS | 4 | FC_ADDR8 | CICS Internal Use Only |
| (24) | ADDRESS | 4 | FC_ADDR9 | CICS Internal Use Only |
| (28) | ADDRESS | 4 | FC_ADDRA | CICS Internal Use Only |
| (2C) | ADDRESS | 4 | FC_ADDRB | Address 11 |

FC_EID defines:
(1) The type of request
(2) Existence bits indicating which addresses in the EXEC Parameter List are valid.
(3) Bits to indicate the keywords specified.
FC_ADDR0 contains the address of FC_EID.
The following bits may be modified from a File Control user exit.
(1) Existence bits FC_EXIST3, FC_EXIST5, FC_EXIST6, FC_EXIST7 and FC_EXISTB.
(2) The keyword descriptors FC_MASSINSERT_X, FC_GENERIC_X,

FC_GTEQ_X, FC_NRI_X, FC_CR_X, FC_RR_X and
FC_NO_SUSPEND.
Any attempt to modify any other part of the EID will be ignored.

Table 191.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------|--|
| (0) | STRUCTURE | 0 | FC_EID | EID for File Control |
| (0) | CHARACTER | 1 | FC_GROUP | Group Code |
| (0) |11. | | FC_FILE_GROUP | "X'06'" All File Control Requests .. |
| (1) | CHARACTER | 1 | FC_FUNCT | Function Code |
| (1) |1. | | FC_READ | "X'02'" READ Request |
| (1) |1.. | | FC_WRITE | "X'04'" WRITE Request |
| (1) |11. | | FC_REWRITE | "X'06'" REWRITE Request |
| (1) | 1... | | FC_DELETE | "X'08'" DELETE Request |
| (1) | 1.1. | | FC_UNLOCK | "X'0A'" UNLOCK Request |
| (1) | 11.. | | FC_STARTBR | "X'0C'" STARTBR request |
| (1) | 111. | | FC_READNEXT | "X'0E'" READNEXT Request |
| (1) | ...1 | | FC_READPREV | "X'10'" READPREV Request |
| (1) | ...1 .1. | | FC_ENDBR | "X'12'" ENDBR Request |
| (1) | ...1 .1.. | | FC_RESETBR | "X'14'" RESETBR Request |
| (1) | ...1 .11. | | FC_REPLACE | "X'16'" REPLACE Request |
| (1) | ...1 1... | | FC_REPLDEL | "X'18'" REPLACE_DELETE Request |
| <p>The next two bytes contain existence bits for the addresses in the EXEC parameter list. For example, FC_ADDR1 should not be used unless FC_EXIST1 is set on. FC_ADDR0 is always valid and has no existence bit.</p> | | | | |
| (2) | BITSTRING | 1 | FC_BITS1 | First 8 existence bits |
| (2) | 1... | | FC_EXIST1 | "X'80'" FC_ADDR1 is valid if the command specifies FILE |
| (2) | .1.. | | FC_EXIST2 | "X'40'" FC_ADDR2 is valid if the command specifies INTO, SET or FROM |
| (2) | ..1. | | FC_EXIST3 | "X'20'" FC_ADDR3 is valid if the command specifies LENGTH or NUMREC. It is also valid if a STARTBR, RESETBR or ENDBR specifies REQID. This bit may be modified by a user exit. |
| (2) | ...1 | | FC_EXIST4 | "X'10'" FC_ADDR4 is valid if the command specifies RIDFLD. |
| (2) | 1... | | FC_EXIST5 | "X'08'" FC_ADDR5 is valid if the command specifies KEYLENGTH. This bit may be modified by a user exit. |

Table 191. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------|---|
| (2) |1.. | | FC_EXIST6 | "X'04" FC_ADDR6 is valid if the command is READNEXT or READPREV and it specifies REQID. This bit may be modified by a user exit. |
| (2) |1. | | FC_EXIST7 | "X'02" FC_ADDR7 is valid if the command specifies SYSID. This bit may be modified by a user exit. |
| (2) |1 | | FC_EXIST8 | "X'01" CICS Internal Use Only |
| (3) | BITSTRING | 1 | FC_BITS2 | Next 8 existence bits |
| (3) | 1... | | FC_EXIST9 | "X'80" CICS Internal Use Only |
| (3) | .1.. | | FC_EXISTA | "X'40" CICS Internal Use Only |
| (3) | ..1. | | FC_EXISTB | "X'20" FC_ADDRB is valid if the command specifies TOKEN. This may be modified by a user exit. |
| The next 5 bytes describe the keywords on the command For example, if FC_MASSINSERT is set on, the command included the MASSINSERT keyword. If FC_MASSINSERT is set off, the command did not include the MASSINSERT keyword. | | | | |
| (4) | BITSTRING | 1 | | Reserved |
| (5) | BITSTRING | 1 | FC_EIDOPT5 | Options Byte 1 |
| (5) |1.. | | FC_MASSINSERT_X | "X'04" MASSINSERT specified. This bit may be modified by a user exit. |
| (5) |1. | | FC_RRN_X | "X'02" RRN specified |
| (5) |1 | | FC_SET_X | "X'01" SET specified |
| (6) | BITSTRING | 1 | FC_EIDOPT6 | Options byte 2 |
| (6) | 1... | | FC_RBA_X | "X'80" RBA specified |
| (6) | .1.. | | FC_GENERIC_X | "X'40" GENERIC specified. This bit may be modified by a user exit. |
| (6) | ..1. | | FC_GTEQ_X | "X'20" GTEQ specified. This bit may be modified by a user exit. |
| (6) | ...1 | | FC_NRI_X | "X'10" NRI specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set. |

Table 191. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|--|
| (6) | 1... | | FC_CR_X | "X'08" CR specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set. |
| (6) | 1.. | | FC_RR_X | "X'04" RR specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set. |
| (6) |1. | | FC_BRWS_UPD_X | "X'02" Update specified on READNEXT or READPREV request. This bit may not be modified by the user exit. |
| (6) |1 | | FC_NO_SUSPEND | "X'01" NOSUSPEND specified on READ, READNEXT, READPREV, WRITE, DELETE, or REWRITE. This bit may be modified by the user exit. |
| (7) | BITSTRING | 1 | FC_EIDOPT7 | Options Byte 3 |
| (7) | 1.. | | FC_UPDATE_X | "X'04" UPDATE specified. WARNING. This bit should only be tested if the command is READ. For all other commands it has no meaning and may or may not be set depending on the command. |
| (7) |1. | | FC_RLO_X | "X'02" Record lock only READ UPDATE |
| (7) |1 | | FC_DEBLOCK_X | "X'01" BDAM Deblocking request Either DEBKEY or DEBREC specified EIDOPT8 will specify whether DEBKEY or DEBREC. WARNING. This bit should only be tested if the command is READ or STARTBR. For all other commands this bit has no meaning and it may or may not be set depending on the command. |
| (8) | BITSTRING | 1 | FC_EIDOPT8 | Options Byte 4 |
| (8) | 1... | | FC_DEBKEY_X | "X'80" DEBKEY specified |
| (8) | .1.. | | FC_DEBREC_X | "X'40" DEBREC specified |
| (8) | ..1. | | FC_TOKEN_X | "X'20" TOKEN specified |
| (8) | ...1 | | FC_BYPASS_SECURITY | "X'10" No security check |
| (8) | 1... | | FC_XRBA_X | "X'08" XRBA specified |

The following definitions define the variables addressed by the remainder of the EXEC parameter list
FC_ADDR1 addresses file name

Table 192.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 0 | FC_DATA1 | Addressed by FC_ADDR1 |
| (0) | CHARACTER | 8 | FC_FILE | file name |

FC_ADDR2 addresses either INTO, FROM or SET

Table 193.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | FC_DATA2 | Addressed by FC_ADDR2 |
| (0) | ADDRESS | 4 | FC_SET | Pointer for SET |
| (0) | CHARACTER | 1 | FC_INT0 | Data For INTO. The user will need to specify the length. |
| (0) | CHARACTER | 1 | FC_FROM | Data For FROM. The user will need to specify the length. |

FC_ADDR3 addresses either LENGTH, NUMREC or REQID
N.B. FC_ADDR3 only addresses REQID if the command is STARTBR, RESETBR or ENDBR. See FC_ADDR6 if the command is READNEXT or READPREV.

Table 194.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | FC_DATA3 | Addressed by FC_ADDR3 |
| (0) | HALFWORD | 2 | FC_LENGTH | Value Of LENGTH |
| (0) | HALFWORD | 2 | FC_NUMREC | Value Of NUMREC |
| (0) | BITSTRING | 2 | FC_REQID | Value Of REQID if command is STARTBR or ENDBR or RESETBR |

FC_ADDR4 addresses RIDFLD

Table 195.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | FC_DATA4 | Addressed by FC_ADDR4 |
| (0) | CHARACTER | 1 | FC_RIDFLD | Area For RIDFLD. The user will need to specify the length. |

FC_ADDR5 addresses KEYLENGTH

Table 196.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-----------------------|
| (0) | STRUCTURE | 0 | FC_DATA5 | Addressed by FC_ADDR5 |
| (0) | HALFWORD | 2 | FC_KEYLENGTH | Area For KEYLENGTH. |

FC_ADDR6 addresses REQID if the command is READNEXT or READPREV.
N.B. See FC_DATA3 if the command is STARTBR or RESETBR or ENDBR.

Table 197.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (0) | STRUCTURE | 0 | FC_DATA6 | Addressed by FC_ADDR6 |
| (0) | BITSTRING | 2 | FC_RNP_REQID | Area For REQID if the command is READNEXT or READPREV |

FC_ADDR7 addresses SYSID

Table 198.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 0 | FC_DATA7 | Addressed by FC_ADDR7 |
| (0) | CHARACTER | 4 | FC_SYSID | Area For SYSID |

FC_ADDRB addresses TOKEN

Table 199.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|---------------------------|------------------------|
| (0) | STRUCTURE | 0 | FC_DATAB | Addressed by FC_ADDRB |
| (0) | CHARACTER | 4 | FC_TOKEN | Area for TOKEN |
| Start of general use programming interface. EIBRCODE, EIBRESP and EIBRESP2 Equates for EIBRCODE values used by File Control | | | | |
| (4) | BITSTRING | 6 | FC_OK_EIBRCODE | OK |
| (4) |1 | | FC_FILENOTFOUND_ EIBRCODE | "X'01'" File not Found |
| (4) |11 | | FC_LOCKED_EIBRCODE | "X'03'" LOCKED |
| (4) |1.1 | | FC_RECORDBUSY_ EIBRCODE | "X'05'" RECORDBUSY |
| (4) |11. | | FC_CHANGED_EIBRCODE | "X'06'" CHANGED |
| (4) | 1... ..1 | | FC_NOTFND_EIBRCODE | "X'81'" NOTFND |
| (4) | 1... ..1. | | FC_DUPREC_EIBRCODE | "X'82'" DUPREC |
| (4) | 1... .1.. | | FC_DUPKEY_EIBRCODE | "X'84'" DUPKEY |
| (4) | 1... | | FC_INVREQ_EIBRCODE | "X'08'" INVREQ |
| (4) | 1... | | FC_IOERR_EIBRCODE | "X'80'" IOERR |
| (4) | 1... ..11 | | FC_NOSPACE_EIBRCODE | "X'83'" NOSPACE |
| (4) | 11.. | | FC_NOTOPEN_EIBRCODE | "X'0C'" NOTOPEN |
| (4) | 1111 | | FC_ENDFILE_EIBRCODE | "X'0F'" ENDFILE |
| (4) |1. | | FC_ILLOGIC_EIBRCODE | "X'02'" ILLOGIC |
| (4) | 111. ....1 | | FC LENGERR_EIBRCODE | "X'E1'" LENGERR |
| (4) | 11.1 | | FC_SYSIDERR_EIBRCODE | "X'D0'" SYSIDERR |
| (4) | 11.1 ....1 | | FC_ISCINVREQ_EIBRCODE | "X'D1'" ISCINVREQ |
| (4) | 11.1 .11. | | FC_NOTAUTH_EIBRCODE | "X'D6'" NOTAUTH |
| (4) | 1... .1.1 | | FC_SUPPRESSED_ EIBRCODE | "X'85'" SUPPRESSED |
| (4) | 11.1 | | FC_DISABLED_EIBRCODE | "X'0D'" DISABLED |
| (4) | 1... .11. | | FC_LOADING_EIBRCODE | "X'86'" LOADING |

Table 199. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------------------|--|
| Equates for EIBRESP values used by File Control | | | | |
| (4) | .... .... |  | FC_OK_EIBRESP | "00" OK |
| (4) | 11.. | | FC_FILENOTFOUND_ EIBRESP | "12" File Not found |
| (4) | 11.1 | | FC_NOTFND_EIBRESP | "13" NOTFND (Record not found) |
| (4) | 111. | | FC_DUPREC_EIBRESP | "14" DUPREC |
| (4) | 1111 | | FC_DUPKEY_EIBRESP | "15" DUPKEY |
| (4) | ...1 | | FC_INVREQ_EIBRESP | "16" INVREQ |
| (4) | ...1 ...1 | | FC_IOERR_EIBRESP | "17" IOERR |
| (4) | ...1 ..1. | | FC_NOSPACE_EIBRESP | "18" NOSPACE |
| (4) | ...1 ..11 | | FC_NOTOPEN_EIBRESP | "19" NOTOPEN |
| (4) | ...1 .1.. | | FC_ENDFILE_EIBRESP | "20" ENDFILE |
| (4) | ...1 .1.1 | | FC_ILLOGIC_EIBRESP | "21" ILLOGIC |
| (4) | ...1 .11. | | FC LENGERR_EIBRESP | "22" LENGERR |
| (4) | ..11 .1.1 | | FC_SYSIDERR_EIBRESP | "53" SYSIDERR |
| (4) | ..11 .11. | | FC_ISCINVREQ_EIBRESP | "54" ISCINVREQ |
| (4) | .1.. .11. | | FC_NOTAUTH_EIBRESP | "70" NOTAUTH |
| (4) | .1.. 1... | | FC_SUPPRESSED_EIBRESP | "72" SUPPRESSED |
| (4) | .1.1 .1.. | | FC_DISABLED_EIBRESP | "84" DISABLED |
| (4) | .1.1 111. | | FC_LOADING_EIBRESP | "94" LOADING |
| (4) | .11. .1.. | | FC_LOCKED_EIBRESP | "100" LOCKED |
| (4) | .11. .1.1 | | FC_RECORDBUSY_EIBRESP | "101" RECORDBUSY |
| (4) | .11. 1..1 | | FC_CHANGED_EIBRESP | "105" CHANGED |
| Equates for EIBRESP2 values used by File Control EIBRESP2 values are listed in numerical order. This can mean that not all of the EIBRESP2 values for a given EIBRESP are listed together; for example, not all of the EIBRESP2 values for NOSPACE are listed one after the other, because there are other EIBRESP2 values within that numerical range. | | | | |
| (4) | .... .... |  | FC_OK_EIBRESP2 | "0" OK |
| (4) |1 | | FC_FILENOTFOUND_ EIBRESP2 | "1" File not Found |
| (4) | 1.1. | | FC LENGERR10_EIBRESP2 | "10" No variable length |
| (4) | 1.11 | | FC LENGERR11_EIBRESP2 | "11" Buffer too small (on read request) |
| (4) | 11.. | | FC LENGERR12_EIBRESP2 | "12" Record too large (on write request) |
| (4) | 11.1 | | FC LENGERR13_EIBRESP2 | "13" Buffer length not file len. (read) |
| (4) | 111. | | FC LENGERR14_EIBRESP2 | "14" Record length not file len. (write) |
| (4) | ...1 .1.. | | FC_INVREQ20_EIBRESP2 | "20" Servreq violation |
| (4) | ...1 .1.1 | | FC_INVREQ21_EIBRESP2 | "21" ESDS Delete |

Table 199. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|----------------------|--|
| (4) | ...1 .11. | | FC_INVREQ22_EIBRESP2 | "22" Generic delete not KSDS |
| (4) | ...1 .111 | | FC_INVREQ23_EIBRESP2 | "23" Ridfld Key not record key |
| (4) | ...1 1... | | FC_INVREQ24_EIBRESP2 | "24" Readprev in generic browse |
| (4) | ...1 1..1 | | FC_INVREQ25_EIBRESP2 | "25" Generic key too long |
| (4) | ...1 1.1. | | FC_INVREQ26_EIBRESP2 | "26" Full key wrong length |
| (4) | ...1 1.11 | | FC_INVREQ27_EIBRESP2 | "27" BDAM delete |
| (4) | ...1 11.. | | FC_INVREQ28_EIBRESP2 | "28" Two READ UPDATES without TOKEN |
| (4) | ...1 11.1 | | FC_INVREQ29_EIBRESP2 | "29" Reserved |
| (4) | ...1 111. | | FC_INVREQ30_EIBRESP2 | "30" Rewrite before read update |
| (4) | ...1 1111 | | FC_INVREQ31_EIBRESP2 | "31" Delete before read update |
| (4) | ..1. | | FC_INVREQ32_EIBRESP2 | "32" Reserved |
| (4) | ..1. ...1 | | FC_INVREQ33_EIBRESP2 | "33" Duplicate REQID |
| (4) | ..1. ..1. | | FC_INVREQ34_EIBRESP2 | "34" Unknown REQID Readnext |
| (4) | ..1. ..11 | | FC_INVREQ35_EIBRESP2 | "35" Unknown REQID Endbr |
| (4) | ..1. ..1.. | | FC_INVREQ36_EIBRESP2 | "36" Unknown REQID Resetbr |
| (4) | ..1. ..1.1 | | FC_INVREQ37_EIBRESP2 | "37" Illegal key type change |
| (4) | ..1. .11. | | FC_INVREQ38_EIBRESP2 | "38" BDAM Write Massinsert |
| (4) | ..1. .111 | | FC_INVREQ39_EIBRESP2 | "39" BDAM Readprev |
| (4) | ..1. 1... | | FC_INVREQ40_EIBRESP2 | "40" BDAM Key Conversion |
| (4) | ..1. 1..1 | | FC_INVREQ41_EIBRESP2 | "41" Unknown REQID Readprev |
| (4) | ..1. 1.1. | | FC_INVREQ42_EIBRESP2 | "42" Keylength negative |
| (4) | ..1. 1.11 | | FC_INVREQ43_EIBRESP2 | "43" SEGSET Specified (obsolete funct'n) |
| (4) | ..1. 11.. | | FC_INVREQ44_EIBRESP2 | "44" Not in data table subset |
| (4) | ..1. 11.1 | | FC_INVREQ45_EIBRESP2 | "45" INVREQ from remote system |
| (4) | ..1. 111. | | FC_INVREQ46_EIBRESP2 | "46" BDAM length change |
| (4) | ..1. 1111 | | FC_INVREQ47_EIBRESP2 | "47" Invalid TOKEN supplied |
| (4) | ..11 | | FC_INVREQ48_EIBRESP2 | "48" Reserved |
| (4) | ..11 ..1. | | FC_DISABLED_EIBRESP2 | "50" DISABLED |
| (4) | ..11 ..11 | | FC_INVREQ51_EIBRESP2 | "51" RBA access to RLS KSDS |

Table 199. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|---|
| (4) | ..11 .1.. | | FC_INVREQ52_EIBRESP2 | "52" CR specified, but file not RLS |
| (4) | ..11 .1.1 | | FC_INVREQ53_EIBRESP2 | "53" RR specified, but file not RLS |
| (4) | ..11 .11. | | FC_INVREQ54_EIBRESP2 | "54" Browse request specified UPDATE, but file is not RLS |
| (4) | ..11 .111 | | FC_INVREQ55_EIBRESP2 | "55" A command specified NOSUSPEND but the file was not a VSAM file open in RLS mode. |
| (4) | ..11 1... | | FC_INVREQ56_EIBRESP2 | "56" Unit of work cannot make updates to any more recoverable coupling facility data tables |
| (4) | ..11 1.11 | | FC_INVREQ59_EIBRESP2 | "59" XRBA specified. Dataset is KSDS |
| (4) | ..11 11.. | | FC_NOTOPEN_EIBRESP2 | "60" NOTOPEN |
| (4) | .1.. .11. | | FC_ISCINVREQ_EIBRESP2 | "70" ISCINVREQ |
| (4) | .1.1 | | FC_NOTFND_EIBRESP2 | "80" NOTFND |
| (4) | .1.1 ...1 | | FC_NOTFND_XRBA_ EIBRESP2 | "81" NOTFND. Request specified XRBA>4G Data set is not extended addressing. |
| (4) | .1.1 1.1. | | FC_ENDFILE_EIBRESP2 | "90" ENDFILE |
| (4) | .11. .1.. | | FC_NOSPACE_EIBRESP2 | "100" NOSPACE |
| (4) | .11. .1.1 | | FC_NOTAUTH_EIBRESP2 | "101" NOTAUTH |
| (4) | .11. .11. | | FC_TABLE_FULL_ EIBRESP2 | "102" NOSPACE - Data table full |
| (4) | .11. .111 | | FC_STORE_FAIL_ EIBRESP2 | "103" NOSPACE - GETMAIN fail |
| (4) | .11. 1... | | FC_LOADING_EIBRESP2 | "104" LOADING |
| (4) | .11. 1..1 | | FC_SUPPRESSED_ EIBRESP2 | "105" SUPPRESSED |
| (4) | .11. 1.1. | | FC_LOCKED_EIBRESP2 | "106" LOCKED |
| (4) | .11. 1.11 | | FC_RECORDBUSY_ EIBRESP2 | "107" RECORDBUSY |
| (4) | .11. 11.. | | FC_CFDTPOOL_FULL_ EIBRESP2 | "108" NOSPACE - CFDT pool full |
| (4) | .11. 11.1 | | FC_CHANGED_EIBRESP2 | "109" Record CHANGED since read upd |
| (4) | .11. 111. | | FC_ILLOGIC_EIBRESP2 | "110" ILLOGIC |
| (4) | .111 1... | | FC_IOERR_EIBRESP2 | "120" IOERR |
| (4) | 1... ..1. | | FC_SYSIDERR_EIBRESP2 | "130" SYSIDERR |
| (4) | 1... ..11 | | FC_CFDT_SYSIDERR_ EIBRESP2 | "131" SYSIDERR - CFDT server failed |
| (4) | 1... .1.. | | FC_CFDT_NOTABLE_ EIBRESP2 | "132" SYSIDERR - CF data table gone |

Table 199. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|----------------------------|--|
| (4) | 1... .1.1 | | FC_SYSIDERR_XRBA_ EIBRESP2 | "133" SYSIDERR - File Owning Region does not support XRBA. Link is MRO. Error detected in AOR. |
| (4) | 1... 11.. | | FC_DUPKEY_EIBRESP2 | "140" DUPKEY |
| (4) | 1..1 .11. | | FC_DUPREC_EIBRESP2 | "150" DUPREC |
| End of general use programming interface. | | | | |

FCLGC - File Control Log Record Format

CONTROL BLOCK NAME = DFHFCLGC
 DESCRIPTIVE NAME = CICS TS (FC) File Control Part of Log Record
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FUNCTION =
 This describes the format of File Control's part of log records written to the system log for backout, log records written to forward recovery logs and autojournal records written to autojournals.

LIFETIME =
 This just describes the layout of log and journal records so does not have any particular lifetime.

LOCATION =
 Log and journal records are built in LIFO storage by module DFHFCLJ.

STORAGE CLASS =
 Since log and journal records are built in DFHFCLJ's LIFO this is CICS storage class.

INNER CONTROL BLOCKS =
 None

NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 All fields contained in this DSECT may be used to interpret CICS log and journal records and as such form part of the General-Use Programming Interface.

EXTERNAL REFERENCES =
 None.
 DATA AREAS =
 None.
 CONTROL BLOCKS =
 None.
 GLOBAL VARIABLES (Macro pass) =
 None.

FLJB - File Log and Journal Block
 The FLJB forms the basis of the data that File Control writes as part of its log and journal records. The FLJB is, in general, built from two parts, one part which contains data that mostly applies to all log and journal records, and a second part which contains data specific to the type of record. All log and journal records have data specific to the type of record.
 The FLJB is always written to the log or journal (as appropriate), but there may also be some variable length data written immediately after the fixed length parts of the FLJB. Precisely

what variable length data is written depends on the record type. The resulting log and journal records for each record type are described below.

Note that what follows is a description of only what File Control writes to the log or journal. In practice these records themselves also have a header prepended to them, either by the CICS Logger (in the case of autojournal and forward recovery records) or by the Recovery Manager (for all system log records).

The format of File Control's part of log and journal records written for read only, read update, write update, and write add, and journal records written for the write add complete record type, is as shown below. The respective length of each block is also indicated.

- o fljb_general_data of length length(fljb_general_data), followed by:

- o fljb_common_data of length length(fljb_common_data), followed by:

- o fljb_cd_key of length fljb_cd_key_length, followed by:

- o fljb_cd_data of length fljb_cd_data_length.

The format of File Control's part of log records written for the write add complete record type, is as shown below. The respective length of each block is also indicated.

- o fljb_general_data of length length(fljb_general_data), followed by:

- o fljb_common_data of length length(fljb_common_data).

The format of File Control's part of log and journal records written for write delete is shown below. The respective length of each block is also indicated.

- o fljb_general_data of length length(fljb_general_data), followed by:

- o fljb_write_delete_data of length length(fljb_write_delete_data), followed by:

- o fljb_wdd_base_key of length fljb_wdd_base_key_length, followed by:

- o fljb_wdd_path_key of length fljb_wdd_path_key_length.

The format of File Control's part of log and journal records written for file close is shown below. This record is one of the simplest of all the log and journal records. It just contains the general data block followed by data specific to file close. The respective length of each block is indicated alongside. There are no variable length records in the file close record.

- o fljb_general_data of length length(fljb_general_data), followed by:

- o fljb_file_close_data of length length(fljb_file_close_data).

The format of File Control's part of tie up records is shown below. The respective length of each block is indicated alongside. There are no variable length records in the tie up record.

- o fljb_general_data of length length(fljb_general_data), followed by:

- o fljb_tie_up_record of length length(fljb_tie_up_record)

The format of File Control's part of commit and backout records for replication is shown below. The respective length of each block is indicated alongside.

There are no variable length records in the commit and backout records.

- o fljb_general_data of length length(fljb_general_data),

Notes on Extended Addressing ESDS records (EA ESDS)

The XRBA field for addressing EA ESDS records is 8 bytes, therefore the key is specified in the same way as it is in the case of KSDS keys.

In the common data record

fljb_cd_key is set to the 8 byte XRBA

fljb_cd_key_length is set to 8

fljb_cd_key_esds_rba is 0

In the write delete record

fljb_wdd_key is set to the 8 byte XRBA

fljb_wdd_key_length is set to 8
fljb_wdd_key_esds_rba is 0
In the tie up record
fljb_tur_base_key_length is set to 8
fljb_tur_dataset_type is set to 'X'

Table 200.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|---|
| (0) | STRUCTURE | 12 | FLJB_GENERAL_DATA | |
| (0) | CHARACTER | 1 | FLJB_RECORD_TYPE | 80: read only 81: read update record 82: write update record 83: write add record 84: write add complete 86: write delete record 87: commit record 88: backout record 8E: file close record 8F: tie up record |
| (1) | BIT(8) | 1 | FLJB_BITS | general flag byte |
| (1) | 1... | | FLJB_AUTOJOURNAL | ON: autojournal record OFF: otherwise |
| (1) | .1.. | | FLJB_FWD_RECOVERY | ON: forward recovery log record OFF: otherwise |
| (1) | ..1. | | FLJB_SYSTEM_LOG | ON: system log record OFF: otherwise |
| (1) | ...1 | | FLJB_LOG_OF_LOGS | ON: log of logs record OFF: otherwise |
| (1) | 1... | | FLJB_BACKOUT | ON: written in backout OFF: otherwise |
| (1) |1.. | | FLJB_GENERAL_EXTENDED_ESDS | ON: extended addressing ESDS OFF everything else |
| (1) |1. | | FLJB_REPLICATION | ON: Replication log record OFF otherwise |
| (1) |1 | | * | reserved |
| (2) | CHARACTER | 8 | FLJB_FILE_NAME | name of the file which this record applies to |
| (A) | CHARACTER | 2 | * | reserved |

Common data for read only, read update, write update, write add and write add complete.

Table 201.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|--|
| (0) | STRUCTURE | 16 | FLJB_COMMON_DATA | |
| (0) | UNSIGNED | 4 | FLJB_CD_BASE_ESDS_RBA | base RBA of ESDS, or 0 if not an ESDS Also 0 for EA ESDS |
| (4) | HALFWORD | 2 | FLJB_CD_KEY_LENGTH | length of the key for the users data |
| (6) | CHARACTER | 2 | * | reserved |

Table 201. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|---|
| (8) | FULLWORD | 4 | FLJB_CD_DATA_LENGTH | length of the users data (This could be fixed(15) but allow for future expansion plans.) |
| (C) | BIT(8) | 1 | FLJB_CD_BITS | common flag byte |
| (C) | 1... | | FLJB_CD_SHUNTED | ON: uow has been shunted OFF: otherwise |
| (C) | .1.. | | FLJB_CD_MASS_INSERT | ON: write mass insert when write add or write add complete OFF: otherwise |
| (C) | ..1. | | FLJB_CD_MI_FIRST | ON: first write add complete in mass insert sequence |
| (C) | ...1 | | FLJB_CD_MI_LAST | ON: end of mi sequence WRTBFR/ENDREQ was successful. |
| (C) | 1... | | FLJB_CD_FIXED_RECFCM | ON: Fixed length record OFF: Variable length record. |
| (C) |1.. | | FLJB_CD_AUTO_COMMIT | ON: Replication can commit |
| (C) |1. | | FLJB_CD_TOKEN_REQUEST | ON: token used on read update request rep log only |
| (C) |1 | | * | reserved |
| (D) | CHARACTER | 3 | * | reserved |

Write delete data

Table 202.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|--|
| (0) | STRUCTURE | 12 | FLJB_WRITE_DELETE_ DATA | |
| (0) | UNSIGNED | 4 | FLJB_WDD_BASE_ESDS_ RBA | base RBA of ESDS, or 0 if not an ESDS Also 0 for EA ESDS |
| (4) | HALFWORD | 2 | FLJB_WDD_BASE_KEY_ LENGTH | length of base key |
| (6) | HALFWORD | 2 | FLJB_WDD_PATH_KEY_ LENGTH | length of path key, or 0 if not a path |
| (8) | BIT(8) | 1 | FLJB_WDD_BITS | write delete flag byte |
| (8) | 1... | | FLJB_WDD_SHUNTED | ON: uow has been shunted OFF: otherwise |
| (8) | .1.. | | FLJB_WDD_FIXED_RECFCM | ON: Fixed length record OFF: Variable length record. |
| (8) | ..1. | | FLJB_WDD_AUTO_COMMIT | ON: Replication can commit |
| (8) | ...1 1111 | | * | reserved |
| (9) | CHARACTER | 3 | * | reserved |

File close data

Table 203.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------------|---|
| (0) | STRUCTURE | 28 | FLJB_FILE_CLOSE_DATA | |
| (0) | CHARACTER | 26 | FLJB_FCD_ FWDRECOVLOG_NAME | forward recovery log stream name |
| (1A) | BIT(8) | 1 | FLJB_FCD_BITS | file close flag byte |
| (1A) | 1... | | FLJB_FCD_FWD_RECOVERY | ON: forward recovery was specified for this file OFF: otherwise |
| (1A) | .1.. | | FLJB_FCD_AUTOJOURNAL | ON: autojournaling was specified for this file OFF: otherwise |
| (1A) | ..1. | | FLJB_FCD_REPLICATION | ON: Replication log for this file OFF otherwise |
| (1A) | ...1 1111 | | * | reserved |
| (1B) | CHARACTER | 1 | * | reserved |

Tie up record data

Table 204.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------------|---|
| (0) | STRUCTURE | 136 | FLJB_TIE_UP_RECORD | |
| (0) | FULLWORD | 4 | FLJB_TUR_BASE_CI_SIZE | CI size of base dataset |
| (4) | FULLWORD | 4 | FLJB_TUR_MAXIMUM_LRECL | maximum record length |
| (8) | FULLWORD | 4 | FLJB_TUR_BASE_KEY_POSITION | position of base key within the record |
| (C) | HALFWORD | 2 | FLJB_TUR_BASE_KEY_LENGTH | length of base key |
| (E) | CHARACTER | 1 | FLJB_TUR_DATASET_TYPE | type of dataset: K=KSDS, E=ESDS, P=path, R=RRDS or V=VRRDS |
| (F) | CHARACTER | 1 | FLJB_TUR_RECORD_FORMAT | format of records: V=variable, F=fixed |
| (10) | HALFWORD | 2 | FLJB_TUR_BASE_DSNAME_LENGTH | length of base dataset name |
| (12) | CHARACTER | 44 | FLJB_TUR_BASE_DSNAME | base dataset name |
| (3E) | HALFWORD | 2 | FLJB_TUR_PATH_DSNAME_LENGTH | length of path dataset name |
| (40) | CHARACTER | 44 | FLJB_TUR_PATH_DSNAME | path dataset name |
| (6C) | CHARACTER | 26 | FLJB_TUR_ FWDRECOVLOG_NAME | forward recovery log stream name |
| (86) | BIT(8) | 1 | FLJB_TUR_BITS | tie up flag byte |
| (86) | 1... | | FLJB_TUR_RLS | ON: this was an RLS file OFF: otherwise |
| (86) | .1.. | | FLJB_TUR_OPEN | ON: tie up record written on open OFF: otherwise |
| (86) | ..1. | | FLJB_TUR_TAKE_KEYPOINT | ON: tie up record written for take keypoint request (non-RLS only) OFF: otherwise |

Table 204. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|---|
| (86) | ...1 | | FLJB_TUR_DATASET_COPY | ON: tie up record written for DSS copy of dataset (RLS only) OFF: otherwise |
| (86) | 1... | | FLJB_TUR_FWD_RECOVERY | ON: forward recovery was specified for this file OFF: otherwise |
| (86) |1.. | | FLJB_TUR_AUTOJOURNAL | ON: autojournaling was specified for this file OFF: otherwise |
| (86) |1. | | FLJB_TUR_REPLICATION | ON: Replication log for this file OFF otherwise |
| (86) |1 | | * | reserved |
| (87) | CHARACTER | 1 | * | reserved |

Constants

Table 205.

| Len | Type | Value | Name | Description |
|-------------------------|------|-------|--------------------------|-------------|
| Values for record types | | | | |
| 1 | HEX | 80 | FLJB_READ_ONLY | |
| 1 | HEX | 81 | FLJB_READ_UPDATE | |
| 1 | HEX | 82 | FLJB_WRITE_UPDATE | |
| 1 | HEX | 83 | FLJB_WRITE_ADD | |
| 1 | HEX | 84 | FLJB_WRITE_ADD_ COMPLETE | |
| 1 | HEX | 86 | FLJB_WRITE_DELETE | |
| 1 | HEX | 87 | FLJB_REPLICATE_COMMIT | |
| 1 | HEX | 88 | FLJB_REPLICATE_BACKOUT | |
| 1 | HEX | 8E | FLJB_FILE_CLOSE | |
| 1 | HEX | 8F | FLJB_TIE_UP | |

FCS - File control static storage

Table 206.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|------|-----------------------|-------------------------|
| (0) | STRUCTURE | 2160 | FC_STATIC_STORAGE | FC Static Storage |
| Cache aligned static data. Fields in this section should only rarely change | | | | |
| (0) | CHARACTER | 1792 | FC_STATIC_STATIC_DATA | |
| (0) | CHARACTER | 1792 | * | Must be multiple of 256 |
| (0) | CHARACTER | 1616 | * | |
| Standard prefix | | | | |
| (0) | CHARACTER | 16 | FC_STATIC_PREFIX | |

Table 206. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------|-----------|-----|-----------------------------|-----------------------|
| (0) | HALFWORD | 2 | FC_STATIC_STORAGE_LENGTH | Length of storage |
| (2) | CHARACTER | 1 | FC_STATIC_ARROW | > |
| (3) | CHARACTER | 3 | FC_STATIC_DFH | DFH |
| (6) | CHARACTER | 2 | FC_STATIC_DOMAIN_ID | FC |
| (8) | CHARACTER | 8 | FC_STATIC_BLOCK_ID | STATIC |
| SIT Options | | | | |
| (10) | CHARACTER | 4 | FC_LOCAL_SYSID | Local sysid |
| (14) | UNSIGNED | 1 | FC_SUBTASKS | # Subtasks (1\|0) |
| (15) | CHARACTER | 11 | * | Reserved |
| RLS Control ACB Area | | | | |
| (20) | CHARACTER | 24 | FC_SUBSYSNM | sub system nm |
| (38) | ADDRESS | 4 | FC_CTL_ACB_ADDRESS | Control ACB address |
| (3C) | ADDRESS | 4 | * | Reserved |
| Software versions | | | | |
| (40) | UNSIGNED | 2 | FC_DFP_REL | DFP release pt. 1 |
| (42) | UNSIGNED | 2 | * | Reserved |
| (44) | UNSIGNED | 4 | FC_DFP_REL_2 | DFP release pt. 2 |
| (48) | UNSIGNED | 4 | FC_HSM_REL | Installed HSM release |
| (4C) | UNSIGNED | 4 | FC_DSS_REL | Installed DSS release |
| Storage subpool tokens | | | | |
| (50) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_CICS_BELOW | Stg below 16M |
| (58) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_VSAM | VSAM FCTE subpool |
| (60) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_BDAM | BDAM FCTE subpool |
| (68) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_SHRCTL | SHRCTL block subpool |
| (70) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_DSNAME | DSNAME block subpool |
| (78) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_ACB | VSAM ACB subpool |
| (80) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_DCB | BDAM DCB subpool |
| (88) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FRAB | FRAB subpool |
| (90) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FLAB | FLAB subpool |
| (98) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_ABOVE | Storage above 16M |
| (A0) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FRTE | FRTE subpool |
| (A8) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_RPL | RPL subpool |
| (B0) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FLLB | FLLB subpool |
| (B8) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FCPE | FCPE subpool |
| (C0) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_IFGLUWID | IFGLUWID subpool |
| (C8) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FCPW | FCPW subpool |
| (D0) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FCUP | FCUP subpool |
| (D8) | CHARACTER | 8 | * | Reserved |
| Flags and Indicators | | | | |

Table 206. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|-----------|-----|-------------------------|---|
| (E0) | CHARACTER | 16 | * | Flags |
| (E0) | CHARACTER | 4 | FC_DEBUG_EYECATCHER | 'DEBUG' |
| (E4) | CHARACTER | 4 | * | Developer testing flags |
| (E4) | CHARACTER | 1 | * | |
| (E4) | 1... | | FC_THREADSAFE_ TESTMODE | Assert processing |
| (E4) | .1.. | | FC_FORCEQR | Force on QR TCB |
| (E4) | ..1. | | FC_KEY9VSAMQR | Switch key 9 VSAM to QR |
| (E4) | ...1 | | FC_NOLOCKS | Assume QR so no locking |
| (E4) | 1... | | FC_FORCEQR_LOCAL_VSAM | Run local VSAM on QR |
| (E4) |1.. | | FC_VSAM_TRACE | Trace all VSAM reqs |
| (E4) |11 | | * | Reserved |
| (E5) | UNSIGNED | 1 | FC_0890_MAX_RETRY | Max No. retries |
| (E6) | CHARACTER | 2 | * | Reserved |
| (E8) | CHARACTER | 4 | * | Restart completion flgs |
| (E8) | CHARACTER | 1 | FC_FLAGS1 | Flag byte 1 |
| (E8) | 1... | | FCSCMPLT | FC restart complete |
| (E8) | .1.. | | FC_NO_ENVIRONMENT | FC restart failed to rebuild FC environment |
| (E8) | ..1. | | * | Reserved |
| (E8) | ...1 | | FC_XFCFRIN_ACTIVE | XFCFRIN active |
| (E8) | 1... | | FC_XFCFROUT_ACTIVE | XFCFROUT active |
| (E8) |1.. | | FC_NONRLS_RECOV | Ignore LOG for nonRLS |
| (E8) |11 | | * | Reserved |
| (E9) | CHARACTER | 1 | FC_FLAGS2 | Flag byte 2 |
| (E9) | 1... | | FC_SHUT_IMMED | IMMEDIATE SHUTDN |
| (E9) | .1.. | | * | was FC_ESDS_COMPAT_INFO |
| (E9) | ..1. | | FC_XESDS_MSG_SENT | Sent message "there is an extended addr ESDS" |
| (E9) | ...1 11.. | | * | Reserved |
| (E9) |1. | | FC_TRANISO | TRANISO=YES |
| (E9) |1 | | FC_CILOCK | VSAM CI lock indicator |
| (EA) | CHARACTER | 2 | * | Reserved |
| (EC) | CHARACTER | 4 | * | Reserved |
| Addresses of FC interface modules | | | | |
| (F0) | ADDRESS | 4 | FC_FCMT_ADDRESS | FCMT entry address |
| (F4) | ADDRESS | 4 | FC_FCRL_ADDRESS | FCRL entry address |
| (F8) | ADDRESS | 4 | FC_FCDN_ADDRESS | FCDN entry address |
| (FC) | ADDRESS | 4 | FC_FCFS_ADDRESS | FCFS entry address |
| (100) | ADDRESS | 4 | FC_FCRF_ADDRESS | FCRF entry address |
| (104) | ADDRESS | 4 | FC_BDAM_ENTRY_ADDRESS | FCBD entry address |

Table 206. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------|---------|-----|--------------------------|----------------------------------|
| (108) | ADDRESS | 4 | FC_FCST_ADDRESS | FCST entry address |
| (10C) | ADDRESS | 4 | FC_FCVC_ADDRESS | FCVC entry address |
| (110) | ADDRESS | 4 | FC_FCVR_ENTRY | FCVR entry address |
| (114) | ADDRESS | 4 | FC_FCVS_ADDRESS | FCVS entry address |
| (118) | ADDRESS | 4 | FC_FCDY_ADDRESS | FCDY entry address |
| (11C) | ADDRESS | 4 | FC_FCDU_ADDRESS | FCDU entry address |
| (120) | ADDRESS | 4 | FC_FCDT_ADDRESS | FCDT entry address |
| (124) | ADDRESS | 4 | FC_FCAT_ADDRESS | FCAT entry address |
| (128) | ADDRESS | 4 | FC_FCSD_ADDRESS | FCSD entry address |
| (12C) | ADDRESS | 4 | FC_FCRO_ADDRESS | FCRO entry address |
| (130) | ADDRESS | 4 | FC_FCRS_ADDRESS | FCRS entry address |
| (134) | ADDRESS | 4 | FC_FCRV_ADDRESS | FCRV entry address |
| (138) | ADDRESS | 4 | FC_FCRR_ADDRESS | FCRR entry address |
| (13C) | ADDRESS | 4 | FC_FCCA_ADDRESS | FCCA entry address |
| (140) | ADDRESS | 4 | FC_FCRC_ADDRESS | FCRC entry address |
| (144) | ADDRESS | 4 | FC_FCIR_ADDRESS | FCIR entry address |
| (148) | ADDRESS | 4 | FC_FCLJ_ADDRESS | FCLJ entry address |
| (14C) | ADDRESS | 4 | FC_FCES_ADDRESS | FCES entry address |
| (150) | ADDRESS | 4 | FC_FCQI_ADDRESS | FCQI entry address |
| (154) | ADDRESS | 4 | FC_FCQU_ADDRESS | FCQU entry address |
| (158) | ADDRESS | 4 | FC_FCQX_ADDRESS | FCQX entry address |
| (15C) | ADDRESS | 4 | FC_FCLF_ADDRESS | FCLF entry address |
| (160) | ADDRESS | 4 | FC_FCDO_ADDRESS | FCDO entry address |
| (164) | ADDRESS | 4 | FC_FCFL_ADDRESS | FCFL entry address |
| (168) | ADDRESS | 4 | FC_FCNQ_ADDRESS | FCNQ entry address |
| (16C) | ADDRESS | 4 | FC_FCDR_ADDRESS | FCDR entry address |
| (170) | ADDRESS | 4 | FC_FCBU_ADDRESS | FCBU entry address |
| (174) | ADDRESS | 4 | FC_FCXS_ADDRESS | FCXS entry address |
| (178) | ADDRESS | 4 | * (4294967298:341917872) | Reserved |
| DFSMS Entry Points | | | | |
| (180) | ADDRESS | 4 | FC_IGWABWO | EP IGWABWO |
| (184) | ADDRESS | 4 | FC_IGGCSI00 | EP IGGCSI00 |
| (188) | ADDRESS | 4 | FC_IGWARLS | EP IGWARLS |
| (18C) | ADDRESS | 4 | * | Reserved |
| DATA TABLES | | | | |
| (190) | ADDRESS | 4 | FC_DTTKN | Data table services global token |
| (194) | ADDRESS | 4 | FC_DTRGL | Data table recovery global token |
| (198) | ADDRESS | 4 | FC_DTOC | Data table OPEN/CLOSE service |

Table 206. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--|---------------------------|
| (19C) | ADDRESS | 4 | FC_DTLDD | Data table LOAD |
| (1A0) | ADDRESS | 4 | FC_DTLOC | Data table LOCATE |
| (1A0) | ADDRESS | 4 | FC_DT_READ | Data table READ |
| (1A4) | ADDRESS | 4 | FC_DTMOD | Data table MODIFY |
| (1A8) | ADDRESS | 4 | FC_DT_LOG | Data table LOG |
| (1AC) | ADDRESS | 4 | FC_DT_USE | Data table USE |
| Declarations for IO Buffers | | | | |
| (1B0) | ADDRESS | 4 | FC_BUFFER_BASE | Buffer pool base |
| (1B4) | ADDRESS | 4 | * (4294967299:341917872) | Reserved |
| (1C0) | ADDRESS | 4 | FC_SHRCTL_ VECTORS (4294967551:341917872) | Pointers to SHRCTL blocks |
| (5BC) | ADDRESS | 4 | * (4294967305:341917872) | reserved |
| Pointers to exit lists | | | | |
| (5E0) | ADDRESS | 4 | FC_VSAM_EXIT_LIST_PTR | VSAM exit list |
| (5E4) | ADDRESS | 4 | FC_RLS_EXIT_LIST_PTR | RLS exit list |
| (5E8) | ADDRESS | 4 | FC_RLS_CTL_EXIT_ LIST_PTR | RLS Control ACB exit list |
| (5EC) | ADDRESS | 4 | * | Reserved |
| NQ domain ENQ/DEQ pool tokens | | | | |
| (5F0) | CHARACTER | 32 | FC_NQ_POOL_TOKENS | |
| (5F0) | ADDRESS | 4 | FC_DS_RECORD_NQ_ POOL_TOKEN | DSNB |
| (5F4) | ADDRESS | 4 | FC_FILE_RECORD_NQ_ POOL_TOKEN | FC TE |
| (5F8) | ADDRESS | 4 | FC_DS_RANGE_NQ_POOL_ TOKEN | Mass Insert |
| (5FC) | ADDRESS | 4 | FC_DS_LOAD_MODE_NQ_ POOL_TOKEN | Load Mode |
| (600) | ADDRESS | 4 | FC_DS_ESDS_WRITE_NQ_ POOL_TOKEN | ESDS Write |
| (604) | ADDRESS | 4 | FC_FILE_UMT_LOAD_NQ_ POOL_TOKEN | UMT Load |
| (608) | ADDRESS | 4 | * (4294967298:341917872) | Reserved |
| Directory Manager Tokens | | | | |
| (610) | CHARACTER | 16 | FC_DIRECTORY_TOKENS | |
| (610) | ADDRESS | 4 | FC_FCT_TOKEN | FCT directory token |
| (614) | ADDRESS | 4 | FC_DSN_TOKEN | DSN directory token |
| (618) | ADDRESS | 4 | FC_FCBU_DIR_TOKEN | FCBU directory token |
| (61C) | ADDRESS | 4 | * | Reserved |
| Lock Manager Tokens fc_FCT_GLOBAL_lock - Used to stabilise FCT entries shared For read access exclusive For add, update and delete fc_DSN_GLOBAL_lock - Used to stabilise DSN entries shared For read access exclusive For add, update and delete fc_FRAB_GLOBAL_lock - Used to stabilise the FRAB chain | | | | |

Table 206. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------------|--|
| (620) | CHARACTER | 48 | FC_LOCK_TOKENS | |
| (620) | ADDRESS | 4 | FC_FCT_GLOBAL_LOCK_TOKEN | FCT global lock |
| (624) | ADDRESS | 4 | FC_DSN_GLOBAL_LOCK_TOKEN | DSN global lock |
| (628) | ADDRESS | 4 | FC_FRAB_GLOBAL_LOCK_TOKEN | FRAB chain lock |
| (62C) | ADDRESS | 4 | FC_CONNECT_LOCK_TOKEN | connect_dsnb lock |
| (630) | ADDRESS | 4 | FC_RPL_GLOBAL_LOCK_TOKEN | Ctl ACB RPL chain lock |
| (634) | ADDRESS | 4 | FC_LSR_GLOBAL_LOCK_TOKEN | LSRPOOL stats lock |
| (638) | ADDRESS | 4 | FC_STATS_GLOBAL_LOCK_TOKEN | Reset Stats lock |
| (63C) | ADDRESS | 4 | FC_ACB_STRING_LOCK_TOKEN | Ctl Acb string lock |
| (640) | ADDRESS | 4 | * (4294967300:341917160) | Reserved |
| Cache aligned variable data. May change after initialisation This must be aligned to a 256 byte boundary | | | | |
| (700) | CHARACTER | 368 | FC_STATIC_VARIABLE_DATA | |
| FC_QR_COUNT and FC_TASK_ID are threadsafe fields but are set by a private CDS routine and do not use the standard threadsafe methods. Do not use the reserved field. | | | | |
| (700) | CHARACTER | 8 | FC_RUNAWAY_CTL | Threadsafe changed by CDS |
| (700) | FULLWORD | 4 | FC_QR_COUNT | |
| (704) | FULLWORD | 4 | * | |
| (704) | CHARACTER | 1 | * | Reserved do no use |
| (705) | CHARACTER | 3 | FC_TASK_ID | Task which FC_QR_COUNT applies |
| (708) | CHARACTER | 8 | * | Reserved |
| CICS ECBs (hand posted) | | | | |
| (710) | CHARACTER | 1 | * | |
| (710) | BIT(8) | 1 | FC_NON_RECOV_ALLOWED_ECB | Non-recoverable work |
| (711) | CHARACTER | 1 | * | |
| (711) | BIT(8) | 1 | FC_RECOV_ALLOWED_ECB | Recoverable work |
| (712) | CHARACTER | 1 | * | |
| (712) | BIT(8) | 1 | FC_CTL_ACB_UNREG_ECB | Ctl ACB unregistered |
| (713) | CHARACTER | 1 | * | |
| (713) | BIT(8) | 1 | FC_RESTART_LOG_SCAN_ECB | Restart log scan ECB. Posted when the system log scan at emergency restart ends. |
| (714) | CHARACTER | 1 | * | |
| (714) | BIT(8) | 1 | FC_DYRRE_COMPLETED_ECB | DYRRE Completed ECB. Posted when a dynamic RLS restart completes, whether successful or not. |
| (715) | BIT(8) | 1 | FC_RLS_LAST_ACB_ECB | Posted when the last open RLS ACB is closed. |

Table 206. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------|--|-----|--------------------------|--------------------|
| (716) | CHARACTER | 10 | * | Reserved |
| Headers for Free chains | | | | |
| (720) | STRUCTURE IsA(FC_ CHAIN_ HEAD_ TYPE) | 8 | FC_STATIC_FRAB_FREE_ CTL | FRAB |
| (720) | ADDRESS | 4 | HEAD | Head of chain ! |
| (724) | UNSIGNED | 4 | CH_COUNT | Change Count ! |
| (728) | STRUCTURE IsA(FC_ CHAIN_ HEAD_ TYPE) | 8 | FC_STATIC_FLAB_FREE_ CTL | FLAB |
| (728) | ADDRESS | 4 | HEAD | Head of chain ! |
| (72C) | UNSIGNED | 4 | CH_COUNT | Change Count ! |
| (730) | STRUCTURE IsA(FC_ CHAIN_ HEAD_ TYPE) | 8 | FC_STATIC_FRTE_FREE_ CTL | FRTE |
| (730) | ADDRESS | 4 | HEAD | Head of chain ! |
| (734) | UNSIGNED | 4 | CH_COUNT | Change Count ! |
| (738) | STRUCTURE IsA(FC_ CHAIN_ HEAD_ TYPE) | 8 | FC_STATIC_RPL_FREE_ CTL | RPL |
| (738) | ADDRESS | 4 | HEAD | Head of chain ! |
| (73C) | UNSIGNED | 4 | CH_COUNT | Change Count ! |
| Suspend chains | | | | |
| (740) | STRUCTURE IsA(FC_ CHAIN_ HEAD_ TYPE) | 8 | FC_STATIC_RPL_SUSP_ CTL | RPL |
| (740) | ADDRESS | 4 | HEAD | Head of chain ! |
| (744) | UNSIGNED | 4 | CH_COUNT | Change Count ! |
| (748) | STRUCTURE IsA(FC_ CHAIN_ HEAD_ TYPE) | 8 | FC_STATIC_VSWA_SUSP_ CTL | VSWA |
| (748) | ADDRESS | 4 | HEAD | Head of chain ! |
| (74C) | UNSIGNED | 4 | CH_COUNT | Change Count ! |
| Active chains | | | | |
| (750) | CHARACTER | 4 | * | |
| (750) | ADDRESS | 4 | FC_FRAB_CHAIN | Head of FRAB chain |
| (754) | CHARACTER | 4 | * | |
| (754) | ADDRESS | 4 | FC_POOL_ELEM_CHAIN | Head of Pool chain |
| (758) | ADDRESS | 4 | *(4294967298:341949592) | Reserved |

Table 206. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------------|--|
| High-water-mark for dsname block numbers | | | | |
| (760) | CHARACTER | 4 | * | |
| (760) | FULLWORD | 4 | FC_DSNBLK_HWM | HWM for dsn block #s |
| (764) | CHARACTER | 12 | * | Reserved |
| Fields for BACKUP WHILE OPEN(BWO) - FUZZY BACKUP: FC_FUZZY_ALLOWED set when correct level of DFP is installed. FC_KEYPOINT_TAKEN set every 30 minutes to signal FCAT to write TURS to the FRLOG. FC_IGWABWO_LOADED set when Callable Services stub loaded FC_IGWABWO_LOAD_FAILED set when load failed. FC_HSM_BACKLEVEL set when HSM 2.5 not installed. FC_DSS_BACKLEVEL set when DSS 2.5 not installed. FC_HSM_DSS_WARNMSG Msg when HSM/DSS 2.5 not installed. FC_KEYPOINT_TIME time of keypoint when RECOV POINT updated FC_KPLE_CHAIN reset when every new KPLE added to chain | | | | |
| (770) | FULLWORD | 4 | FC_FUZZY_VALUES | |
| (770) | CHARACTER | 1 | * | |
| (770) | 1... | | FC_FUZZY_ALLOWED | BWO allowed |
| (770) | .1.. | | FC_KEYPOINT_TAKEN | Set every 30 minutes |
| (770) | ..1. | | FC_IGWABWO_LOADED | load attempted |
| (770) | ...1 | | FC_IGWABWO_LOAD_FAILED | if load failed |
| (770) | 1... | | FC_HSM_BACKLEVEL | HSM 2.5 not installed |
| (770) |1.. | | FC_DSS_BACKLEVEL | DSS 2.5 not installed |
| (770) |1. | | FC_HSM_DSS_WARNMSG | HSM/DSS warning message |
| (770) |1 | | * | Reserved |
| (771) | CHARACTER | 3 | * | Reserved |
| (774) | ADDRESS | 4 | FC_KPLE_CHAIN | Anchor for KPLE chain |
| (778) | CHARACTER | 8 | FC_KEYPOINT_TIME | Last keypoint time |
| (778) | UNSIGNED | 4 | FC_KEYPOINT_WK1 | Left word (1bit=1sec) |
| (77C) | UNSIGNED | 4 | FC_KEYPOINT_WK2 | right word |
| DATA TABLES | | | | |
| (780) | CHARACTER | 8 | FC_DT_LAST_INIT | Time of last attempt to issue AOR DTP_INIT |
| (780) | UNSIGNED | 4 | FC_DT_LH_LAST_INIT | Left half of clock |
| (788) | ADDRESS | 4 | FC_DT_2 | Entry point for data tables initialization |
| (78C) | ADDRESS | 4 | FC_DT_CLOSE_CHAIN | Files to be closed |
| (790) | BIT(8) | 1 | FC_DT_CLOSE_ECB | Files to be closed ECB |
| (791) | CHARACTER | 1 | * | FOR support indicators |
| (791) | 1... | | FC_DT_FOR_NOSHARING | FOR cannot support SDT |
| (791) | .1.. | | FC_DT_FOR_LOGGED_ON | FOR logged on |
| (791) | ..1. | | FC_DT_FOR_NOTAUTH | FOR not authorized |
| (791) | ...1 1111 | | * | Reserved |
| (792) | CHARACTER | 1 | * | AOR support indicators |
| (792) | 1... | | FC_DT_AOR_NOSHARING | AOR cannot use SDT |

Table 206. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------------|--|
| (792) | .111 1111 | | * | Reserved |
| (793) | BIT(8) | 1 | * | Reserved |
| (794) | ADDRESS | 4 | FC_DT_REMOTE_GLOBAL | Remote table services global area |
| (798) | ADDRESS | 4 | FC_DT_SIGNAL | Addr STCK field in ECSA indicating table opens |
| (79C) | ADDRESS | 4 | FC_DT_CONNECT | Data table CONNECT |
| (7A0) | ADDRESS | 4 | FC_DT_REMOTE_READ | Data table SDT read |
| (7A4) | ADDRESS | 4 | FC_DT_REMOTE_USE | Data table set user |
| (7A8) | ADDRESS | 4 | FC_DT_BF | Bind fail chain |
| (7AC) | ADDRESS | 4 | * | Reserved |
| RLS | | | | |
| (7B0) | UNSIGNED | 2 | FC_TIMEOUT | Global timeout value |
| (7B2) | UNSIGNED | 2 | FC QUIESTIM | Quiesce timeout value |
| (7B4) | BIT(8) | 1 | FC_RLS_FLAGS | RLS Indicators |
| (7B4) | 1... | | * | Reserved |
| (7B4) | .1.. | | FC_CACHE_MSG_SENT | Cache message sent |
| (7B4) | ..1. | | FC_RLS_SUPPORTED | RLS supported |
| (7B4) | ...1 | | FC_RLS_RECOVERY_ONLY | Only recovery work may access RLS |
| (7B4) | 1... | | FC_ACUCB_SUPPORTED | UCB VSCR supported |
| (7B4) |1.. | | FC_CATALOG_SUPPORTED | Non-rls recovery attributes from catalog supported |
| (7B4) |1. | | FC_LSR_INCLUDE_RLS_ FCTES | Include RLS in build |
| (7B4) |1 | | * | Reserved |
| (7B5) | CHARACTER | 3 | * | Reserved |
| (7B8) | ADDRESS | 4 | FC_RLS_ACB_CHAIN | Chain of open RLS ACBs |
| (7BC) | CHARACTER | 4 | * | |
| (7BC) | ADDRESS | 4 | FC_CTL_ACB_RPL_CHAIN | Active RPL chain |
| (7C0) | ADDRESS | 4 | FC_INQRECOV_ADDRESS | -> last INQ RECOV area |
| (7C4) | FULLWORD | 4 | FC_INQRECOV_LENGTH | len of above area |
| (7C8) | ADDRESS | 4 | * (4294967298:341949592) | Reserved |
| RLS counts | | | | |
| (7D0) | CHARACTER | 4 | * | |
| (7D0) | FULLWORD | 4 | FC_CTL_ACB_TOTAL_ WAITS | Tot # string waits |
| (7D4) | FULLWORD | 4 | FC_CTL_ACB_TOTAL_ WAITS_CSFAIL | # CS Failures |
| (7D8) | CHARACTER | 4 | * | |
| (7D8) | FULLWORD | 4 | FC_CTL_ACB_CURRENT_ WAITS | Curr # string waits |
| (7DC) | FULLWORD | 4 | FC_CTL_ACB_CURRENT_ WAITS_CSFAIL | # CS Failures |

Table 206. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------------------------|---|
| (7E0) | CHARACTER | 4 | * | |
| (7E0) | FULLWORD | 4 | FC_CTL_ACB_HWM_WAITS | String wait hwm |
| (7E4) | FULLWORD | 4 | FC_CTL_ACB_HWM_WAITS_CSFAIL | # CS Failures |
| (7E8) | CHARACTER | 4 | * | |
| (7E8) | FULLWORD | 4 | FC_CTL_ACB_ACT_STRINGS | Active string count |
| (7EC) | FULLWORD | 4 | FC_CTL_ACB_ACT_STRINGS_CSFAIL | # CS Failures |
| Flags | | | | |
| (7F0) | CHARACTER | 1 | * | Restart Flags |
| (7F0) | 1... | | FC_DYRRE_IN_PROGRESS | DYRRE in Progress flag. Set whilst a dynamic RLS restart is in progress, clear when one is not. |
| (7F0) | .111 1111 | | * | Reserved |
| (7F1) | CHARACTER | 3 | * | Reserved |
| The following structure allows to set FC_RLS_ACCESS_DISABLED and FC_SERVER_SEQUENCE atomically. FC_SERVER_SEQUENCE is sequence number of server. Starts at 1. At first recycle goes to 2 etc. | | | | |
| (7F4) | BIT(32) | 4 | * | |
| (7F4) | UNSIGNED | 4 | FC_SERVER_STATE | |
| (7F4) | BIT(32) | 4 | * | |
| (7F4) | BIT(8) | 1 | * | Pacify dsectgen |
| (7F4) | 1... | | FC_RLS_ACCESS_DISABLED | |
| (7F4) | .111 1111 | | * | |
| (7F5) | BIT(24) | 3 | * | |
| (7F4) | CHARACTER | 4 | * | |
| (7F4) | UNSIGNED | 2 | * | |
| (7F6) | UNSIGNED | 2 | FC_SERVER_SEQUENCE | |
| RLS Restart Task variables | | | | |
| (7F8) | CHARACTER | 4 | FC_RLS_RESTART_SUSPEND_TOKEN | |
| (7FC) | CHARACTER | 4 | * | |
| (7FC) | FULLWORD | 4 | FC_OFFSITE_RESTART | 1 or 0 |
| (800) | FULLWORD | 4 | FC_OFFSITE_RESTART_CSFAIL | # CS Failures |
| (804) | ADDRESS | 4 | *(4294967299:341949592) | Reserved |
| RLS Quiesce fields | | | | |
| (810) | CHARACTER | 48 | FC_QUIESCE_DATA | Quiesce fields |
| (810) | CHARACTER | 16 | FC_FCQSE_CHAIN_DATA | FCQSE element chain |
| (810) | ADDRESS | 4 | FC_FCQSE_FIRST | -> first |
| (814) | ADDRESS | 4 | FC_FCQSE_LAST | -> last |

Table 206. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------|-----------|-----|--------------------------|---------------------------|
| (818) | BIT(32) | 4 | FC_FCQSE_ECB | Post ECB when adding |
| (81C) | CHARACTER | 4 | * | Reserved |
| (820) | CHARACTER | 16 | FC_FCQRE_CHAIN_DATA | FCQRE element chain |
| (820) | ADDRESS | 4 | FC_FCQRE_FIRST | -> first real |
| (824) | ADDRESS | 4 | FC_FCQRE_ISOLATE | -> first isolated |
| (828) | BIT(32) | 4 | FC_FCQRE_ECB | Post ECB when adding |
| (82C) | ADDRESS | 4 | FC_FCQRE_ERROR | -> error element |
| (830) | ADDRESS | 4 | FC_CFQS_ECBLIST | -> CFQS task ECB list |
| (834) | BIT(8) | 1 | FC_QUIESCE_FLAGS | Quiesce flags |
| (834) | 1... | | FC_CFQS_TERM | =1 to stop CFQS task |
| (834) | .1.. | | FC_CFQR_TERM | =1 to stop CFQR task |
| (834) | ..11 1111 | | * | Reserved |
| (835) | CHARACTER | 11 | * | Reserved |
| (840) | CHARACTER | 8 | FC_DFHFCQX_ENTRY_STCK | Time of entry to DFHFCQX |
| (848) | CHARACTER | 8 | FC_DFHFCQX_EXIT_STCK | Time of exit from DFHFCQX |
| CFDT | | | | |
| (850) | FULLWORD | 4 | FC_CFDT_LOADER_ID | |
| (854) | ADDRESS | 4 | * (4294967299:341949592) | Reserved |
| Event point tokens | | | | |
| (860) | CHARACTER | 8 | FC_OPEN_EVENT_TOKEN | Open/close event |
| (868) | CHARACTER | 8 | FC_ENABLE_EVENT_TOKEN | Enable/disable event |
| (870) | CHARACTER | 0 | FC_STATIC_END | |

MACRO NAME: IFGSYSNM
 DESCRIPTION: Mapping the Subsystem Name Control Block
 STATUS: Version 1 DFSMS Release 3.0
 PROPRIETARY V3 STATEMENT
 LICENSED MATERIALS - PROPERTY OF IBM
 RESTRICTED MATERIALS OF IBM
 5695-DF1
 (C) COPYRIGHT 1995 IBM CORP.
 END PROPRIETARY V3 STATEMENT
 FUNCTION = Mapping macro for SubSystem Name
 INCLUDED MACROS = NONE
 METHOD OF ACCESS = PL/X-370 OR ASSEMBLER

Table 207.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (0) | STRUCTURE | 24 | IFGSYSNM | |
| (0) | CHARACTER | 16 | SYSNMHDR | |
| (0) | CHARACTER | 8 | SYSNMID | Eye Catcher - IFGSYSNM |
| (8) | FULLWORD | 4 | SYSNMLEN | Control Block Length |
| (C) | UNSIGNED | 1 | SYSNMVER | Version Identifier |
| (D) | CHARACTER | 3 | * | Reserved |

Table 207. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------|
| (10) | CHARACTER | 8 | SYSNMVAL | SubSystem Name |

transaction CFCR's parmlist

Table 208.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-------------|
| (0) | STRUCTURE | 8 | CFCR_ATT_PARMS | |
| (0) | CHARACTER | 8 | PARM_FILE_NAME | |

Constants

Table 209.

| Len | Type | Value | Name | Description |
|--|-----------|----------------------|-------------------------------|---------------------|
| Constants | | | | |
| 2 | DECIMAL | 2160 | FC_STATIC_LENGTH | |
| 8 | CHARACTER | STATIC | FC_STATIC_ID | Eyecatcher |
| 2 | DECIMAL | 36 | VSAM_EXLST_LENGTH | Length of exit list |
| Maximum number of strings for control ACB | | | | |
| 4 | DECIMAL | 1024 | FC_CTL_ACB_MAX_STRINGS | |
| Minimum DFP release levels for RLS support | | | | |
| 2 | HEX | 3321 | MIN_RLS_DFP_LEVEL1 | |
| 4 | HEX | 01010300 | MIN_RLS_DFP_LEVEL2 | |
| SYSNM Constants | | | | |
| 8 | CHAR HEX | 00000000 00000000 | SYSNMNUL | Null Subsys Name |
| 8 | CHARACTER | IFGSYSNM | SYSNMIDC | Eyecatcher |
| 1 | DECIMAL | 1 | SYSNMVRC | Version |
| NQ domain ENQ/DEQ pool names | | | | |
| 8 | CHARACTER | FCDSRECD | FC_DS_RECORD_NQ_POOL_NAME | |
| 8 | CHARACTER | FCFLRECD | FC_FILE_RECORD_NQ_POOL_NAME | |
| 8 | CHARACTER | FCDSRNGE | FC_DS_RANGE_NQ_POOL_NAME | |
| 8 | CHARACTER | FCDSLDM | FC_DS_LOAD_MODE_NQ_POOL_NAME | |
| 8 | CHARACTER | FCDSESWR | FC_DS_ESDS_WRITE_NQ_POOL_NAME | |
| 8 | CHARACTER | FCFLUMTL | FC_FILE_UMT_LOAD_NQ_POOL_NAME | |
| response of check_reallocate_or_busy | | | | |
| 4 | DECIMAL | 0 | RESPONSE_OK | |
| 4 | DECIMAL | 1 | RESPONSE_DO_NOT_REALLOCATE | |

Table 209. (continued)

| Len | Type | Value | Name | Description |
|-----|---------|-------|---------------------------|-------------|
| 4 | DECIMAL | 2 | RESPONSE_FCT_ENTRY_IN_USE | |

FCT - File control table entry layout

CONTROL BLOCK NAME = DFHFCTDS
 DESCRIPTIVE NAME = CICS/ESA FILE CONTROL TABLE ENTRY LAYOUT
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 5655-Y04
 (C) Copyright IBM Corp. 1982, 2014

FUNCTION =
 To map an entry in the File Control Table.
 The File Control Table is the principal repository of definitions of the database (or FILE) component.
 Other modules access it at their peril.
 Each entry ordinarily matches a call of the DFHFCT macro, and describes a database file.
 There is another dsect (DFHFCTSR) to treat shared resource pools, which appear in another connected table.
 The following fields form part of the Product Sensitive Programming Interface:

FCTDSID
 FCTDSVR1 to FCTDSKL
 FCTDSRKP
 FCTDSJID
 FCTSDSP
 FCTDSBCP
 Bit settings FCTKSDS, FCTESDS, FCTRRDS of FCTVSVR1
 Bit settings FCTJFR, FCTJWAC of byte FCTDSVR6
 FCTDSREC
 FCTDSBLK
 FCTDTSIZ

LIFETIME =
 FCT entries are created at File Control restart and are always present thereafter.

STORAGE CLASS =
 Part of the CICS nucleus.

LOCATION =
 By the Table Management Program.

INNER CONTROL BLOCKS =
 None. There are some fields with alternative meanings.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = Sequence symbols must not coincide with any that are used by objects that imbed this; in particular, the prefix .FC causes the Assembler to loop.
 MODULE TYPE = Control block definition
 FILE CONTROL TABLE

Table 210.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------|-----------|-----|------------|----------------------------------|
| (0) | STRUCTURE | 0 | DFHFCTDS | DUMMY SECTION FILE CONTROL TABLE |
| FCTE prefix | | | | |
| (0) | CHARACTER | 8 | FCTDSID | File identification |
| (8) | CHARACTER | 8 | FCTRFILE | Remote file id |
| (10) | CHARACTER | 4 | FCTSYSID | Sysid of remote file |

Table 210. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------|---|
| (14) | ADDRESS | 2 | FCTDSTEL | Table entry length |
| DATA SET CONTROL INDICATOR 1 All 'Capabilities' (as derived from SERVREQ) | | | | |
| (16) | BITSTRING | 1 | FCTDSVR1 | DATA SET CONTROL INDICATOR 1 |
| (16) | ...1 .11. | | FCTDSRI | "FCTDSVR1" READ INDICATOR |
| (16) | 1... | | FCTRDIM | "X'80" READ VALID |
| (16) | ...1 .11. | | FCTDSUPD | "FCTDSVR1" READ UPDATE INDICATOR |
| (16) | ..1. | | FCTUPDIM | "X'20" UPDATE VALID |
| (16) | ...1 .11. | | FCTDSADD | "FCTDSVR1" WRITE NEW RECORD INDICATOR |
| (16) | ...1 | | FCTADDIM | "X'10" ADD VALID |
| (16) | ...1 .11. | | FCTDSDI | "FCTDSVR1" DELETION VALIDITY INDICATOR |
| (16) | 1... | | FCTDELIM | "X'08" DELETE VALID |
| (16) | ...1 .11. | | FCTBRWSE | "FCTDSVR1" BROWSE VALIDITY INDICATOR |
| (16) |1. | | FCTBRZIM | "X'02" BROWSE VALID |
| DATA SET CONTROL INDICATOR 2 Flags relating to structure of records (mainly BDAM) | | | | |
| (17) | BITSTRING | 1 | FCTDSVR2 | DATA SET CONTROL INDICATOR 2 |
| (17) | ...1 .111 | | FCTDSEXC | "FCTDSVR2" EXCLUSIVE CONTROL INDICATOR |
| (17) | 1... | | FCTEXCIM | "X'80" EXCLUSIVE CONTROL (BDAM) |
| (17) | .1.. | | FCT_SET_AFTER | "X'40" Acquire SET storage after file request is complete |
| (17) | ...1 .111 | | FCTDSVRT | "FCTDSVR2" DECIMAL RELATIVE TRACK INDICATOR |
| (17) | ...1 | | FCTDRTIM | "X'10" DECIMAL RELATIVE TRACK ACCESSING |
| (17) | ...1 .111 | | FCTDSVLI | "FCTDSVR2" RECORD LENGTH TYPE INDICATOR |
| (17) | 1... | | FCTVRLIM | "X'08" VARIABLE LENGTH RECORDS |
| (17) |1. | | FCTFIXIM | "X'04" FIXED LENGTH RECORDS |
| (17) | ...1 .111 | | FCTDSNBK | "FCTDSVR2" RECORD BLOCKING INDICATOR |
| (17) |1. | | FCTBLKIM | "X'02" BLOCKED RECORDS |

Table 210. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (17) | ...1 .111 | | FCTDSKEY | "FCTDSVR2" BDAM KEY SEARCH INDICATOR |
| (17) |1 | | FCTKEYIM | "X'01" KEYED BDAM |
| DATA SET CONTROL INDICATOR 3 Flags defining the access method | | | | |
| (18) | BITSTRING | 1 | FCTDSVR3 | DATA SET CONTROL INDICATOR 3 |
| (18) | ...1 1... | | FCTDSVSM | "FCTDSVR3" VSAM INDICATOR |
| (18) | 1... | | FCTVSAMI | "X'80" VSAM DATA SET |
| (18) | .1.. | | FCTDTBL | "X'40" Data table |
| (18) | ..1. | | FCTDTUM | "X'20" User data table |
| (18) | 1... | | FCTREMOT | "X'08" Remote FCTE |
| (18) |1.. | | FCTRLS | "X'04" RLS file |
| (18) |1. | | FCTCFDT | "X'02" Coupling Facility Data Table |
| (18) | ...1 1... | | FCTDSBDM | "FCTDSVR3" BDAM DATA SET INDICATOR |
| (18) |1 | | FCTBDAMI | "X'01" BDAM DATA SET |
| DATA SET CONTROL INDICATOR 4 Flags to govern journalling and logging. | | | | |
| (19) | BITSTRING | 1 | FCTDSVR4 | DATA SET CONTROL INDICATOR 4 |
| (19) | ...1 1..1 | | FCTDSJRO | "FCTDSVR4" JOURNAL READ ONLYS INDICATOR |
| (19) | 1... | | FCTJRO | "X'80" JOURNAL READ ONLYS |
| (19) | ...1 1..1 | | FCTDSJRU | "FCTDSVR4" JOURNAL READS FOR UPDATE INDICATOR |
| (19) | .1.. | | FCTJRU | "X'40" JOURNAL READS FOR UPDATE |
| (19) | ...1 1..1 | | FCTDSJWU | "FCTDSVR4" JOURNAL WRITE UPDATES INDICATOR |
| (19) | ..1. | | FCTJWU | "X'20" JOURNAL WRITE UPDATES |
| (19) | ...1 1..1 | | FCTDSJWA | "FCTDSVR4" JOURNAL WRITE ADDS INDICATOR |
| (19) | ...1 | | FCTJWA | "X'10" JOURNAL WRITE ADDS |
| (19) | ...1 1..1 | | FCTDSJDS | "FCTDSVR4" DSNAME HAS BEEN JOURNALLED IND |
| (19) | ...1 1..1 | | FCTDSJSY | "FCTDSVR4" SYNCHRONOUS READS JOURNAL INDICATOR |

Table 210. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|----------------------|--|
| (19) | 1.. | | FCTJSYN | "X'04" SYNCHRONOUS READS JOURNAL |
| (19) | ...1 1..1 | | FCTDSJAS | "FCTDSVR4" ASYNCHRONOUS WRITES JRNL INDICATOR |
| (19) |1. | | FCTJASY | "X'02" ASYNCHRONOUS WRITES JOURNAL |
| (19) | ...1 1..1 | | FCTDSLOG | "FCTDSVR4" USE SYSTEM LOG INDICATOR |
| (19) |1 | | FCTLOG | "X'01" USE SYSTEM LOG |
| FILE STATE THE NEW FILE STATES ALLOW FOR "TRANSITIONAL" CONDITIONS. IF " TM FCTDSTAT,FCTDSENI" YIELDS "ONES", THEN I/O REQUESTS ARE ALLOWED, EVEN IF THE TASK MUST WAIT FOR A DATA SET TO BE OPENED, SUBJECT TO SERVREQ CHECKING. | | | | |
| (1A) | BITSTRING | 1 | FCTDSTAT | File state |
| (1A) | ...1 1..1. | | FCTDSOPN | "FCTDSTAT" (Early-open indicator) |
| (1A) | 1... | | FCTOPNIM | "X'80" Data set is to be opened by utility rather than on first reference. |
| (1A) | .1.. | | FCTDSOPI | "X'40" Data set is open or opening |
| HENCE: .1..... OPEN .0..... CLOSED .0..... CLOSING (with FCTDSCLX set) | | | | |
| (1A) | ...1 | | FCTDSCRQ | "X'10" 'CLOSE' has been requested |
| (1A) | 1.. | | FCTDSENI | "X'04" Data set is enabled |
| (1A) |1. | | FCTDSIMP | "X'02" Disabled only implicitly via close |
| HENCE: .....10. ENABLED .....01. DISABLED implicitly via CLOSE .....00. DISABLED explicitly .....11. (never valid) | | | | |
| (1A) |1 | | FCTDTCLS | "X'01" Close data table source |
| (1B) | BITSTRING | 1 | FCTDSKL | Key length |
| (1C) | BITSTRING | 1 | FCTBFLGS | Backout Flags |
| (1C) | 1... | | FCTBACKO | "X'80" LOG=Y for this file while open |
| (1C) | .1.. | | FCT_ESDS_COMPAT_ERR | "X'40" ESDS Compat Error Message sent |
| (1C) | ..1. | | FCT_ESDS_COMPAT_INFO | "X'20" ESDS Compat Info (6037) sent |

Table 210. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|------------|---|
| (1C) |1.. | | FCTFOPEN | "X'04" Dynamically allocated and the first to be opened |
| (1C) |1. | | FCTCLUN | "X'02" File closed & marked unenabled after an open failure |
| (1D) | BITSTRING | 1 | FCTCFKL | CFDT user specified keylength |
| (1E) | BITSTRING | 1 | FCTFLAG1 | Saved temporary flag |
| (1F) | BITSTRING | 1 | FCTFLG2 | Saved temporary flag |
| (20) | FULLWORD | 4 | FCTLGTKN | Autojnl log token from Logger |
| (24) | BITSTRING | 1 | | Reserved |
| (25) | BITSTRING | 1 | | Reserved |
| (26) | ADDRESS | 2 | FCTDSRKP | RELATIVE KEY POSITION |
| (28) | BITSTRING | 1 | FCTDSJID | USER JOURNAL ID |
| DATA SET CONTROL INDICATOR 5 Certain conditions that apply to any local data set, while open. | | | | |
| (29) | BITSTRING | 1 | FCTDSVR5 | DATA SET CONTROL INDICATOR 5 |
| CONDITIONS GIVEN AT TABLE-GENERATION - | | | | |
| (29) | 1... | | FCTDPSHR | "X'80" "DISP=SHR" FOUND |
| (29) | ..1.. | | FCTDPOLD | "X'40" "DISP=OLD" FOUND |
| CONDITIONS FOUND WHILE PROCESSING AN "OPEN" REQUEST - | | | | |
| (29) |1. | | FCTDSDA | "X'02" DYNAMICALLY ALLOCATED DATA SET |
| (29) |1 | | FCTDSCLX | "X'01" CLOSE IN PROGRESS |
| (2A) | BITSTRING | 1 | FCTFLG3 | Saved temporary flag |
| ACCESS - STATE PROTECTION Some flags are defined for in-progress state changes The following three ECBs (or "wait bytes") exist to serialise certain combinations of state-change requests. Only one of them can be WAITing at any moment, but any combination may be POSTed (implying present or past existence of tasks that waited for an action of the specific kind to complete). Next there is an ECB for serialising data table loads | | | | |
| (2B) | BITSTRING | 1 | FCTINPFL | In-progress flags |
| (2B) | ..1. 1.11 | | FCTDIINP | "FCTINPFL" Disable in-progress indicator |
| (2B) | 1... | | FCTDISIN | "X'80" Disable is in progress |
| (2C) | BITSTRING | 1 | FCTOPECB | "OPEN" state-change ECB |
| (2D) | BITSTRING | 1 | FCTDIECB | "DISABLE" state-change ECB |
| (2E) | BITSTRING | 1 | FCTCLECB | "CLOSE" state-change ECB |
| (2F) | BITSTRING | 1 | FCTDTLDC | Table load complete |

Table 210. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------------|---|
| STATISTICS | | | | |
| (30) | FULLWORD | 4 | FCTDSRD | NUMBER OF READ REQUESTS |
| (34) | FULLWORD | 4 | FCTDSWRA | NUMBER OF ADD RECORD REQS |
| (38) | FULLWORD | 4 | FCTDSWRU | NUMBER OF UPDATE REQUESTS |
| (3C) | FULLWORD | 4 | FCTDSXCP | NO. OF EXCP CALLS TO LAST CLOSE |
| (40) | FULLWORD | 4 | FCTDSIXP | NUMBER OF EXCP REQUESTS TO INDEX |
| (44) | FULLWORD | 4 | FCTDSGU | COUNT GET UPDATE REQUESTS |
| (48) | FULLWORD | 4 | FCTDSBR | NUMBER OF BROWSE REQUESTS |
| (4C) | FULLWORD | 4 | FCTDSBRU | No. of update browse requests |
| (50) | FULLWORD | 4 | | Reserved |
| (54) | CHARACTER | 8 | FCTOPENT | Time file opened |
| (5C) | ADDRESS | 4 | FCTDSFRT | Address of a FRTE |
| (60) | FULLWORD | 4 | FCTDYNAL (0) | |
| DYNAMIC ALLOCATION | | | | |
| (60) | ADDRESS | 4 | FCTDSBP | >>-> DSNAME ENTRY FOR DYNAMIC ALLOCATION. |
| (64) | ADDRESS | 4 | FCTDSBCP | >>-> DSNAME ENTRY WITH BASE CLUSTER NAME. |
| Buffer pool pointer | | | | |
| (68) | ADDRESS | 4 | FCTDSBFP | Pointer to buffer pool header |
| New or moved fields for making FCT threadsafe | | | | |
| (6C) | ADDRESS | 4 | FCT_LOCK_TOKEN | Unique lock token per FCT |
| (70) | BITSTRING | 1 | FCT_IN_PROGRESS | Flags for add or delete |
| (70) | 1... | | FCT_ADD_IN_PROGRESS | "X'80" |
| (70) | .1.. | | FCT_DELETE_IN_PROGRESS | "X'40" |
| (71) | CHARACTER | 3 | | Reserved |
| (74) | ADDRESS | 4 | FCT_STRING_LOCK_TOKEN | |
| (78) | BITSTRING | 4 | FCT_TOD_CREATED | 1st word of TOD |
| (7C) | FULLWORD | 4 | FCTDSXCL | No. of exclusive ctl conflicts |
| (80) | FULLWORD | 4 | | Reserved for # CS Failures |
| (84) | ADDRESS | 4 | (7) | Reserved |
| Resource Signature data | | | | |
| (A0) | CHARACTER | 1 | FCT_RESOURCE_SIG | matches the PLX version |

Table 210. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------------|-----------|-----|--------------|--|
| Access-method dependent sections | | | | |
| (E0) | DBL WORD | 8 | FCTVSEXT (0) | BASE FOR OVERLAYING |
| VSAM EXTENSION | | | | |
| (E0) | ADDRESS | 4 | | Reserved |
| (E4) | FULLWORD | 4 | FCTDSTBW | TOTAL # WAITED FOR BUFFER |
| (E8) | FULLWORD | 4 | | Reserved for # CS Failures |
| (EC) | FULLWORD | 4 | (3) | Reserved |
| (F8) | ADDRESS | 4 | FCTVSWA | Free VSWAs |
| (FC) | FULLWORD | 4 | FCTVSWA_CNT | # of changes to FCTVSWA |
| (100) | BITSTRING | 1 | FCTDSDBN | BUFFER SIZE INDEX FOR DATA BUFFERS |
| (101) | BITSTRING | 1 | FCTDSIBN | BUFFER SIZE INDEX FOR INDEX BUFFERS |
| (102) | BITSTRING | 1 | FCTVSVR1 | VSAM DATA SET CONTROL IND 1 |
| (102) | | 0 | FCTDSKSD | "FCTVSVR1" KSDS INDICATOR |
| (102) | 1... | | FCTKSDS | "X'80'" KEY SEQUENCED DATA SET |
| (102) | | 0 | FCTDSESD | "FCTVSVR1" ESDS INDICATOR |
| (102) | .1.. | | FCTESDS | "X'40'" ENTRY SEQUENCED DATA SET |
| (102) | | 0 | FCTDSSHR | "FCTVSVR1" SHARED RESOURCES INDICATORS, THAT SIGNIFY CONNECTION WITH LSR POOLS |
| (102) | ..1. | | FCTSHRIM | "X'20'" FILE IS NOW SHARING RESOURCES |
| (102) | 1... | | FCTSHRSP | "X'08'" FILE IS TO USE AN LSR POOL |
| (102) | | 0 | FCTDSSGF | "FCTVSVR1" SHARED STATS COLLECTED FLAG |
| (102) | ...1 | | FCTSHBG | "X'10'" STATISTICS HAVE BEEN COLLECTED |
| (102) |1.. | | FCTVRRDS | "X'04'" Variable RRDS |
| (102) | | 0 | FCTDSADR | "FCTVSVR1" ADDRESSED ACCESS INDICATOR |
| (102) |1. | | FCTADR | "X'02'" ADDRESSED ACCESS ONLY (SHARE OPTIONS 4 ONLY) |
| (102) | | 0 | FCTDSRRD | "FCTVSVR1" RRDS INDICATOR |

Table 210. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------|---|
| (102) |1 | | FCTRRDS | "X'01'" RELATIVE RECORD DATA SET |
| (103) | BITSTRING | 1 | FCTDSOBJ | VSAM OBJECT TYPE (OR MODE) |
| MODE OF ACCESS THROUGH VSAM (DETERMINED AT OPEN-TIME, ON OS) | | | | |
| (103) | | 0 | FCTDSPAT | "FCTDSOBJ" AIX PATH INDICATOR |
| (103) | ...1 | | FCTPATH | "X'10'" AIX PATH + DATASET SHARING |
| (103) | | 0 | FCTDSALT | "FCTDSOBJ" AIX INDICATOR |
| (103) | 1... | | FCTALTIX | "X'08'" ACCESS THROUGH AIX |
| (103) |1.. | | FCTBASE | "X'04'" ACCESSED AS A BASE |
| (104) | ADDRESS | 1 | FCTIPOOL | LSR POOL IDENTIFIER |
| (105) | BITSTRING | 1 | FCTVSVR2 | VSAM DS INDICATOR 2 |
| (105) | 1... | | FCT_IMMEDIATE_CLOSE | "X'80'" Immediate close requested |
| (105) | .1.. | | FCTDTOPN | "X'40'" Data table is open |
| (105) | ..1. | | FCTNODSN | "X'20'" DSN-SHARING NOT TO BE APPLIED IF READ-ONLY |
| (105) | 1... | | FCTILFLG | "X'08'" DATA SET IS BEING INITIALLY LOADED |
| (105) |1.. | | FCTDREUS | "X'04'" THE FILE HAS A "REUSE" SERVREQ |
| (105) |1. | | FCTMTYRQ | "X'02'" "EMPTY" REQUEST IS OUTSTANDING |
| (105) |1 | | FCTDLFLG | "X'01'" VSAM "LOAD" MODE IS IN EFFECT |
| DATA SET CONTROL INDICATOR 6 VSAM only journaling and logging options. | | | | |
| (106) | BITSTRING | 1 | FCTDSVR6 | Dataset control indicator 6 |
| (106) | 1... | | FCTJFR | "X'80'" Forward recovery |
| (106) | .1.. | | FCTJWAC | "X'40'" Write add complete |
| (106) | ..1. | | FCTFUZZY | "X'20'" Fuzzy Image Copy Allowed according to FCTE |
| (106) | ...1 | | FCTBWO | "X'10'" BWO allowed for this FCTE set according to FCTE or VSAM Catalog - whichever is being used |
| EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved DATA SET CONTROL INDICATOR 7 VSAM RLS options. | | | | |

Table 210. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (107) | BITSTRING | 1 | FCTDSVR7 | RLS bit settings |
| (107) | 1... | | FCTCR | "X'80'" Consistent read |
| (107) | .1.. | | FCTRR | "X'40'" Repeatable read |
| (107) | ..1. | | FCTUQENA | "X'20'" Re-ENABLE on QUIOPEN |
| (107) | ...1 | | FCTCQENA | "X'10'" Re-ENABLE on QUICEND |
| The following two fields are used to record the catalog definition for read only RLS files. | | | | |
| (107) | 1... | | FCTROBO | "X'08'" Backward Recovery |
| (107) |1.. | | FCTROFR | "X'04'" Forward Recovery |
| DATA SET CONTROL INDICATOR 8 VSAM bundle options. | | | | |
| (108) | BITSTRING | 1 | FCTDSVR8 | bundle options |
| (108) | 1... | | FCTBUNDL | "X'80'" Installed from bundle |
| (109) | BITSTRING | 1 | | Reserved |
| (10A) | HALFWORD | 2 | | Reserved |
| THE NEXT TWO FIELDS CONTAIN LIMITS, AGAINST WHICH FCTDSASC IS TESTED. | | | | |
| (10C) | HALFWORD | 2 | FCTDSMSC | Upper limit for string count |
| (10E) | HALFWORD | 2 | FCTDSPMS | Limit for UPDATE/ADD string count |
| THE NEXT THREE FIELDS CONTAIN HISTORICAL INFORMATION, COLLECTED FOR USE IN STATISTICAL REPORTS | | | | |
| (110) | FULLWORD | 4 | FCTDSTSW | Total # tasks waited for string |
| (114) | FULLWORD | 4 | | Reserved for # CS Failures |
| (118) | FULLWORD | 4 | (3) | Reserved |
| (124) | FULLWORD | 4 | FCTDSDEL | Number of DELETES |
| (128) | HALFWORD | 2 | | Reserved |
| (12A) | HALFWORD | 2 | FCTUPSTG | Number of strings required by VSAM during an UPDATE request |
| THE NEXT FIELD IS THE MAXIMUM RECORD LENGTH SPECIFIED IN THE DEFINITION OF THE VSAM DATA SET AND IS ALSO USED FOR ESTIMATING THE SIZE OF BUFFER REQUIRED FOR LARGE VSAM RECORDS. | | | | |
| (12C) | FULLWORD | 4 | FCTMAXLN | Maximum record length |
| (130) | FULLWORD | 4 | FCTCFRLN | CFDT user specified reclen |
| TWO FIELDS REPRESENT SYSTEM-PROGRAMMER-SUPPLIED VALUES, THAT WILL BE DYNAMICALLY INSERTED IN THE ACB : | | | | |
| (134) | HALFWORD | 2 | FCTBUFND | Specified number of data buffers |
| (136) | HALFWORD | 2 | FCTBUFNI | Specified number of index buffers |
| (138) | FULLWORD | 4 | FCTDSACB | Pointer to VSAM ACB |

Table 210. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|--|
| (13C) | BITSTRING | 1 | | Reserved |
| (13D) | BITSTRING | 1 | | Reserved |
| (13E) | BITSTRING | 1 | FCTFRLOG | Forward recovery log id |
| (13F) | BITSTRING | 1 | FCTVSPWL | VSAM password length |
| (140) | CHARACTER | 8 | FCTVSPWD | VSAM password |
| (148) | CHARACTER | 8 | FCTBASEN | Symbolic name of base |
| (150) | FULLWORD | 4 | FCTDTSIZ | Data table size |
| (154) | ADDRESS | 4 | FCTDTRKN | Data table token |
| (158) | FULLWORD | 4 | FCTDTRDS | Data table reads |
| (15C) | FULLWORD | 4 | FCTDTRNF | Data table reads via VSAM |
| (160) | FULLWORD | 4 | FCTDTAVR | Data table adds via read |
| (164) | FULLWORD | 4 | FCTDTADS | Data table adds via API |
| (168) | FULLWORD | 4 | FCTDTARJ | Data table adds suppressed |
| (16C) | FULLWORD | 4 | FCTDTATF | Data table adds and table full |
| (170) | FULLWORD | 4 | FCTDTRWS | Data table rewrites |
| (174) | FULLWORD | 4 | FCTDTDLS | Data table deletes |
| (178) | FULLWORD | 4 | FCTDTLDS | Data table LOADING responses |
| (17C) | FULLWORD | 4 | FCTDTSHI | Data table record hwm |
| (180) | ADDRESS | 4 | FCTDTPTH | Data table path token |
| (184) | ADDRESS | 4 | FCTBCCHN | Open file chain |
| (188) | ADDRESS | 4 | FCT_NEXT_RLS_FCTE | Address of next file open in RLS mode |
| (18C) | ADDRESS | 4 | FCT_BC_CONN_CHAIN | Address of next FCT entry connected to this base |
| (190) | ADDRESS | 4 | FCT_RLS_TIMEOUTS | Number Of RLS timeouts |
| (194) | FULLWORD | 4 | | Reserved for # CS Failures |
| (198) | FULLWORD | 4 | (3) | Reserved |
| (1A4) | CHARACTER | 8 | FCTDT_NAME | Data Table Name |
| (1AC) | CHARACTER | 8 | FCTCF_POOL_NAME | CFDT Pool Name |
| (1B4) | ADDRESS | 4 | FCTCF_POOL_ELEM_ADDR | Address of pool element |
| (1B8) | ADDRESS | 4 | FCTCF_NEXT_IN_POOL_CHAIN | Address of next FCT entry open against a CFDT in this pool |
| (1BC) | FULLWORD | 4 | FCTCF_DT_TOKEN | CFDT Token |
| (1C0) | BITSTRING | 1 | FCTCF_FLAGS | CFDT Flags Byte |
| (1C0) | 1... | | FCTCF_UM_CONTEN | "X'80" CFDT update model is contention |
| (1C0) | .1.. | | FCTCF_LOADREQ | "X'40" CFDT requires loading |
| (1C0) | ..1. | | FCTCF_SOURCE | "X'20" CFDT has a source data set |

Table 210. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------|---|
| (1C0) | ...1 | | FCTCF_REOPEN | "X'10" CFDT access needs reopening |
| (1C1) | BITSTRING | 1 | FCTFLG1 | Flags |
| (1C1) | 1... | | FCT_NOT_AUTH | "X'80" Connect failed - not auth |
| (1C1) | ..1. | | FCT_CONN_FAIL | "X'20" Last CONNECT attempt failed - retry later |
| (1C1) | ...1 | | FCT_LINK_FAIL | "X'10" Last CONNECT attempt failed link security check |
| (1C1) | 1... | | FCT_408_ISSUED | "X'08" Message 0408 issued - shipped request was successful |
| (1C1) |1.. | | FCT_408_NEEDED | "X'04" Message 0408 needed if shipped request is successful |
| (1C1) |1. | | FCT_FORCE | "X'02" Force users off |
| (1C2) | CHARACTER | 2 | | Reserved |
| (1C4) | FULLWORD | 4 | FCTCF_LOADER_ID | CFDT loader id |
| (1C8) | DBL WORD | 8 | FCT_STCK | Last shared table connect |
| New or moved fields for making FCT threadsafe | | | | |
| (1D0) | FULLWORD | 4 | FCTDSCBW | CURRENT # WAITING FOR BUFFER |
| (1D4) | FULLWORD | 4 | | Reserved for # CS Failures |
| (1D8) | FULLWORD | 4 | FCTDSHBW | HIGHEST # WAITED FOR BUFFER |
| (1DC) | FULLWORD | 4 | | Reserved for # CS Failures |
| (1E0) | FULLWORD | 4 | FCTDSASC | Active string count |
| (1E4) | FULLWORD | 4 | | Reserved for # CS Failures |
| (1E8) | FULLWORD | 4 | FCTDSCWC | VSAM current string wait count |
| (1EC) | FULLWORD | 4 | | Reserved for # CS Failures |
| (1F0) | FULLWORD | 4 | FCTDSHSW | Highest # tasks waited on string |
| (1F4) | FULLWORD | 4 | | Reserved for # CS Failures |
| (1F8) | FULLWORD | 4 | FCT_ACTV_RLS_CNT | # active RLS requests |
| (1FC) | ADDRESS | 4 | FCT_STRING_HEAD | Max. string wait chain head |
| (200) | FULLWORD | 4 | | Reserved for # CS Failures |
| (204) | ADDRESS | 4 | FCT_PSEUDO_HEAD | Pseudo max string wait chain hd. |
| (208) | FULLWORD | 4 | | Reserved for # CS Failures |
| (20C) | BITSTRING | 1 | FCTTSFLG | Threadsafe bit flags |
| (20C) | 1... | | FCT_THREADSAFE_WORK | "X'80" Flag Threadsafe work performed |

Table 210. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------------------|--|
| (20D) | BITSTRING | 1 | (3) | on file. No CS needed. |
| New or moved fields for define file in bundle | | | | |
| (210) | CHARACTER | 4 | FCT_BUNDLE_TOKEN | |
| (214) | CHARACTER | 4 | FCT_RESOURCE_TOKEN | |
| (218) | FULLWORD | 4 | FCT_SHARED_LOCK_COUNT | |
| (21C) | FULLWORD | 4 | | Reserved for # CS Failures |
| (220) | BITSTRING | 1 | FCT_BUNDLE_BITS | |
| (220) | 1... | | FCT_BUNDLE_DISABLE_DEFERRED | "X'80" |
| (221) | BITSTRING | 1 | FCTLOECB | |
| Here is the embedded resource signature object | | | | |
| (221) | | 0 | FCTVSEL | "*-DFHFCTDS" Length of VSAM file entry |
| (E0) | FULLWORD | 4 | FCTDAEXT (0) | |
| BDAM EXTENSION | | | | |
| (E0) | ADDRESS | 4 | FCTDSDCB | Data Control Block address |
| (E4) | ADDRESS | 2 | FCTDSREC | Record length |
| (E6) | ADDRESS | 2 | FCTDSBLK | Block size |
| (E6) | 111. 1... | | FCTNVEL | "*-DFHFCTDS" Length of BDAM file entry |

FILE CONTROL TABLE PREFIX

Table 211.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHFPPFDS | TO PRECEDE FIRST FCT ENTRY |
| (0) | BITSTRING | 1 | FPFATTR | ATTRIBUTES OF LOCAL FILES SEE DFHFCT FOR SIGNIFICANCE |
| (1) | BITSTRING | 3 | | RESERVED |
| (4) | ADDRESS | 4 | | Reserved |
| (8) | ADDRESS | 4 | FPFSELF | SELF-POINTER (FOR F-DUMP) |
| (C) | ADDRESS | 4 | | Reserved |
| (10) | ADDRESS | 4 | | Reserved |
| (14) | ADDRESS | 4 | | Reserved |
| (18) | ADDRESS | 4 | FPFPVADR | ADDRESS SHARED-POOL VECTOR |
| (1C) | ADDRESS | 4 | | Reserved |
| (1C) | ..1. | | FPFPRFL | "*-DFHFPPFDS" LENGTH OF FCT PREFIX |

FCTSR - File control shared resources

```

CONTROL BLOCK NAME = DFHFCTSR
DESCRIPTIVE NAME = CICS TS FCT SHARED RESOURCES CONTROL BLOCK
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1982, 2013
FUNCTION =
    To represent CICS's requirements of, and use made of,
    a VSAM local shared resources pool.
    Part of FILE CONTROL (the database component).
    There is one instance for each pool mentioned in the
    FCT, ie up to a maximum of 255 pools.
LIFETIME & STORAGE CLASS =
    Same as the rest of the FCT.
LOCATION =
    By pointers and identifying numbers, all within the FCT.
INNER CONTROL BLOCKS =
    None in the strict sense.
    Certain fields repeat others defined in DFHFCSBK,
    and can be used as a work area.
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None.
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES =
    DATA AREAS =
        The six fields named FCTVR... are all defined over
        the list-form of VSAM macro BLDVRP.
    CONTROL BLOCKS =
        None.
    GLOBAL VARIABLES (Macro pass) = Used only for splitting source.
-----
FILE CONTROL TABLE
SHARED RESOURCES CONTROL

```

Table 212.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---------------------------------------|
| (0) | STRUCTURE | 0 | DFHFCTSR | VSAM SHARED RESOURCES CONTROL |
| (0) | CHARACTER | 8 | FCTSRGRP (0) | (RDO group name) |
| (0) | CHARACTER | 8 | | SHARED RESOURCES CONTROL EYE-CATCHER |
| (8) | BITSTRING | 1 | FCTSRCSN (0) | String num. status (next build) |
| (8) | 1... | | FCTCPSTN | "X'80" MUST COMPUTE STRING NUMBER |
| (8) | BITSTRING | 1 | FCTSRCKL (0) | Key length status (next build) |
| (8) | .1.. | | FCTCPKYL | "X'40" MUST COMPUTE LENGTH FOR KEYS |
| (8) | BITSTRING | 1 | FCTSRCCI (0) | CI size sataus (next build) |
| (8) | ..1. | | FCTCPCIS | "X'20" MUST COMPUTE CI SIZES |
| (8) | BITSTRING | 1 | FCTSRNDI (0) | Data/index buffer status (next build) |

Table 212. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---------------------------------------|
| (8) | ...1 | | FCTSRNSP | "X'10" Use separate buffers |
| (8) | BITSTRING | 1 | | Next build control flags |
| (9) | FULLWORD | 1 | FCTSRPID | NUMERICAL POOL IDENTIFIER |
| (A) | HALFWORD | 2 | FCTSRUC | NUMBER OF OPEN ACBs ON THE POOL |
| (C) | ADDRESS | 4 | FCTSRBWC | BUFFER WAIT CHAIN START |
| (10) | FULLWORD | 4 | | # CS Failures |
| (14) | ADDRESS | 4 | FCTSR TSC | Transaction ID suspend chain |
| (18) | HALFWORD | 2 | FCTSRPCT | PERCENTILE VALUE |
| (1A) | HALFWORD | 2 | | RESERVED |
| (1C) | HALFWORD | 2 | FCTSRNKL | KEY LENGTH FOR NEXT BUILD |
| (1E) | HALFWORD | 2 | FCTSRNST | STRING NUMBER FOR NEXT BUILD |
| (20) | FULLWORD | 4 | FCTSRCHN | String wait chain |
| (24) | CHARACTER | 8 | FCTSRCTD | STCK Creation Time |
| (2C) | CHARACTER | 8 | FCTSRDTD | STCK Deletion Time |
| (34) | HALFWORD | 2 | FCTSRKYL | COMPUTED KEY LENGTH |
| (36) | HALFWORD | 2 | FCTSRSTN | COMPUTED NUMBER OF STRINGS |
| (38) | HALFWORD | 2 | | RESERVED |
| (3A) | HALFWORD | 2 | | RESERVED |
| (3C) | BITSTRING | 1 | FCTSRNBB | NO BUFFER byte |
| (3C) | 1... | | FCTSRNBF | "X'80" This BIT requires own BYTE |
| (3D) | CHARACTER | 3 | | reserved |
| (40) | FULLWORD | 4 | FCTSRMAP | WRTBFR TRANSID USE MAP |
| (44) | BITSTRING | 1 | FCTSRSDI (0) | Separate DATA/INDEX buffers |
| (44) | 1... | | FCTSRSEP | "X'80" Use separate buffers (was 10) |
| (44) | BITSTRING | 1 | FCTSRERR (0) | ERROR BUILDING POOL |
| (44) | .1.. | | FCTSRDMP | "X'40" FORMATTED DUMP ISSUED (was 02) |
| (44) | BITSTRING | 1 | FCTSRPST (0) | STATUS OF THIS POOL |
| (44) | ..1. | | FCTSRBLT | "X'20" POOL IS BUILT (was 01) |
| (44) | BITSTRING | 1 | | Current build control flags |
| (45) | CHARACTER | 3 | | Reserved |

Table 212. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|--|
| (48) | FULLWORD | 4 | FCTSRHAS | HIGHEST # ACTIVE STRINGS |
| (4C) | FULLWORD | 4 | | # CS Failures |
| (50) | FULLWORD | 4 | FCTSRHSW | HIGHEST # WAITED FOR STRING |
| (54) | FULLWORD | 4 | | # CS Failures |
| (58) | FULLWORD | 4 | FCTSRTSW | TOTAL # WAITED FOR STRING |
| (5C) | FULLWORD | 4 | | # CS Failures |
| (60) | FULLWORD | 4 | FCTSRNAS | # ACTIVE STRINGS |
| (64) | FULLWORD | 4 | | # CS Failures |
| (68) | FULLWORD | 4 | FCTSRCSW | CURRENT # WAITING FOR STRING |
| (6C) | FULLWORD | 4 | | # CS Failures |
| (70) | FULLWORD | 4 | FCTSR_LOCK_TOKEN | Pool lock token |
| (74) | FULLWORD | 4 | FCTSRCIS (0) | FORMAT OF REPEATING FIELDS |
| (74) | ADDRESS | 2 | FCTSRBSZ | Buffer size |
| (76) | HALFWORD | 2 | FCTSRVBN | Virtual buffers this build |
| (78) | FULLWORD | 4 | FCTSRVBX | Virtual buffers next build |
| (7C) | FULLWORD | 4 | FCTSRHBN | Hiperspace bufs this build |
| (80) | FULLWORD | 4 | FCTSRHBX | Hiperspace bufs next build |
| (84) | FULLWORD | 4 | FCTSRBFF | NUMBER OF LOOK-ASIDE HITS |
| (88) | FULLWORD | 4 | FCTSRFRD | NUMBER OF BUFFER READS |
| (8C) | FULLWORD | 4 | FCTSRUIW | NO OF USER INITIATED WRITES |
| (90) | FULLWORD | 4 | FCTSRNUW | NO OF NON-USER INITIATED WRITES |
| (94) | FULLWORD | 4 | FCTSRCRS | Number successful CREADS |
| (98) | FULLWORD | 4 | FCTSRCWS | Number successful CWRITES |
| (9C) | FULLWORD | 4 | FCTSRCRF | Number failing CREADS |
| (A0) | FULLWORD | 4 | FCTSRCWF | Number failing CWRITES |
| (A0) | ..11 | | FCTSRCIL | "*-FCTSRCIS" LENGTH OF BUFFER SIZE ENTRY |
| (74) | BITSTRING | 1 | FCTSR512_DATA (0) | 512 CI'S NUMBER AND STATISTICS |
| (A4) | BITSTRING | 1 | FCTSR1K_DATA (0) | 1K CI'S NUMBER AND STATISTICS |
| (D4) | BITSTRING | 1 | FCTSR2K_DATA (0) | 2K CI'S NUMBER AND STATISTICS |

Table 212. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|--|
| (104) | BITSTRING | 1 | FCTSR4K_DATA (0) | 4K CI'S NUMBER AND STATISTICS |
| (134) | BITSTRING | 1 | FCTSR8K_DATA (0) | 8K CI'S NUMBER AND STATISTICS |
| (164) | BITSTRING | 1 | FCTSR12K_DATA (0) | 12K CI'S NUMBER AND STATISTICS |
| (194) | BITSTRING | 1 | FCTSR16K_DATA (0) | 16K CI'S NUMBER AND STATISTICS |
| (1C4) | BITSTRING | 1 | FCTSR20K_DATA (0) | 20K CI'S NUMBER AND STATISTICS |
| (1F4) | BITSTRING | 1 | FCTSR24K_DATA (0) | 24K CI'S NUMBER AND STATISTICS |
| (224) | BITSTRING | 1 | FCTSR28K_DATA (0) | 28K CI'S NUMBER AND STATISTICS |
| (254) | BITSTRING | 1 | FCTSR32K_DATA (0) | 32K CI'S NUMBER AND STATISTICS |
| (254) | | 0 | FCTSRRFL | "(*-FCTSRCIS)" Length of repeating fields |
| (254) | 1.11 | | FCTSRNCI | "(FCTSRRFL/FCTSRCIL)" Number of CI sizes |
| (284) | BITSTRING | 1 | FCTSR512_INDX (0) | 512 CI'S NUMBER AND STATISTICS |
| (2B4) | BITSTRING | 1 | FCTSR1K_INDX (0) | 1K CI'S NUMBER AND STATISTICS |
| (2E4) | BITSTRING | 1 | FCTSR2K_INDX (0) | 2K CI'S NUMBER AND STATISTICS |
| (314) | BITSTRING | 1 | FCTSR4K_INDX (0) | 4K CI'S NUMBER AND STATISTICS |
| (344) | BITSTRING | 1 | FCTSR8K_INDX (0) | 8K CI'S NUMBER AND STATISTICS |
| (374) | BITSTRING | 1 | FCTSR12K_INDX (0) | 12K CI'S NUMBER AND STATISTICS |
| (3A4) | BITSTRING | 1 | FCTSR16K_INDX (0) | 16K CI'S NUMBER AND STATISTICS |
| (3D4) | BITSTRING | 1 | FCTSR20K_INDX (0) | 20K CI'S NUMBER AND STATISTICS |
| (404) | BITSTRING | 1 | FCTSR24K_INDX (0) | 24K CI'S NUMBER AND STATISTICS |
| (434) | BITSTRING | 1 | FCTSR28K_INDX (0) | 28K CI'S NUMBER AND STATISTICS |
| (464) | BITSTRING | 1 | FCTSR32K_INDX (0) | 32K CI'S NUMBER AND STATISTICS |
| (494) | | 0 | FCTSR LNG | "*-DFHFCTSR" RESOURCE CONTROL ENTRY LENGTH |

FIOA - File input/output area

CONTROL BLOCK NAME = DFHFIOA
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS File I/O Area.
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 1984, 1991
FUNCTION = FILE I/O AREA
The FIOA is acquired dynamically from main storage by File Control whenever a request is made for I/O to a BDAM data set. The data area, beginning at field FIOADBA, is used as the true I/O area from/to which records are read/written. The FRTE contains the address of the FIOA at FRT_WORK_AREA_ADDRESS. The following fields form part of the Product-Sensitive Programming Interface.

FIOAIND
FIOAM
FCFIODEC
FCFIOBEX
FCFIOECB
FCFIOLRA
FIOADBA
FCDS01D

PN= REASON REL YYMMDD HDXXIII : REMARKS

Table 213.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------|-----------|-----|--------------|--------------------------------|
| (0) | STRUCTURE | 0 | DFHFIOA | DUMMY SECTION - FILE I/O AREA |
| FIXED SECTION | | | | |
| (0) | HALFWORD | 2 | FIOALGTH | Length of FIOA. |
| DATA EVENT CONTROL BLOCK | | | | |
| (2) | BITSTRING | 1 | FIOAIND (0) | FILE I/O AREA INDICATOR |
| (2) | 11.. | | FIOAM | "X'CO'" FILE I/O AREA |
| (4) | FULLWORD | 4 | FCFIODEC (0) | DATA EVENT CONTROL BLOCK |
| (4) | FULLWORD | 4 | FCFIOBEX (0) | EXCEPTION CODES - BDAM |
| (4) | FULLWORD | 4 | FCFIOECB | EVENT CONTROL BLOCK |
| (8) | HALFWORD | 2 | FCFIOTYP | TYPE OF OPERATION |
| (A) | HALFWORD | 2 | FCFIOLNG | DATA / AREA LENGTH |
| (C) | FULLWORD | 4 | FCFIODCB | DATA CONTROL BLOCK ADDRESS |
| (10) | ADDRESS | 4 | FCFIOAA | INPUT / OUTPUT DATA ADDR |
| (14) | FULLWORD | 4 | FCFIOIOB | IOB ADDRESS |
| (18) | FULLWORD | 4 | FCFIOKA | KEY ADDRESS |
| (1C) | FULLWORD | 4 | FCFIOBRF | BLKREF FIELD - BDAM |
| (20) | FULLWORD | 4 | FCFNXADR | ADDR OF NEXT ADDR FEEDBACK FLD |
| VARIABLE SECTION | | | | |

Table 213. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|--|
| (24) | BITSTRING | 1 | FCIOEXB (0) | EXCLUSIVE CONTROL INDICATOR |
| (24) | 1... | | FCECIND | "X'80" RECORD IS UNDER EXCLUSIVE CNTRL |
| (24) | CHARACTER | 1 | (3) | RESERVED |
| (28) | ADDRESS | 4 | FIOAFRTE | ADDRESS OF ASSOCIATED FRTE |
| (2C) | FULLWORD | 4 | FCFIOLRA | LOGICAL RECORD ADDRESS |
| (30) | HALFWORD | 2 | FCFIOLRL | Logical record length |
| (34) | FULLWORD | 4 | FCFIOFCT | FILE CONTROL TABLE ENTRY ADDR |
| (38) | FULLWORD | 4 | FIOA_KEY_ADDRESS | Address of RIDFLD in FIOA |
| (3C) | FULLWORD | 4 | | Reserved |
| (40) | FULLWORD | 4 | FIOA_BLOCK_END | Address of end of block |
| (44) | HALFWORD | 2 | FIOA_BROWSE_KEYLENGTH | Keylength during browse |
| (46) | HALFWORD | 2 | FIOA_BROWSE_RRN | DEBREC number in browse |
| (48) | CHARACTER | 8 | FIOA_KEY_WORKAREA | Workarea for real address conversion |
| (50) | CHARACTER | 8 | FIOA_JOURNAL_ECN | Workarea for FCJL |
| (58) | BITSTRING | 1 | FIOA_BROWSE_FLAGS | Indicators for browse |
| (58) | 1... | | FIOA_BROWSE_IN_ PROGRESS | "X'80" Browse in progress |
| (58) | .1.. | | FIOA_DEBREC_BROWSE | "X'40" DEBREC browse |
| (58) | ..1. | | FIOA_DEBKEY_BROWSE | "X'20" DEBKEY browse |
| (59) | BITSTRING | 1 | FIOA_INDICATORS | Miscellaneous indicators |
| (59) | 1... | | FIOA_DEBLOCK_REQUIRED | "X'80" Deblock required |
| (60) | DBL WORD | 8 | FIOACAE (0) | CONTROL AREA ENDING ADDRESS |
| (60) | .11. | | FIOACAD | "*-DFHFIOA" CONTROL AREA DISPLACEMENT |
| (60) | .1.1 11.. | | FIOAL | "*-FCFIOECB" FIOA LENGTH |
| (60) | DBL WORD | 8 | FCDS01D (0) | BEGINNING ADDRESS DATA AREA |
| (60) | .11. | | FIOADBA | "FCDS01D" DATA BEGINNING ADDRESS |

FLABC - File Lasting Access Block

Table 214.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 144 | DFHFLAB | |
| Eye catcher | | | | |

Table 214. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------------------------|--|
| (0) | CHARACTER | 16 | FLAB_EYE_CATCHER | Eye catcher |
| (0) | HALFWORD | 2 | FLAB_LENGTH | Length of FLAB |
| (2) | CHARACTER | 6 | FLAB_EYE1 | >DFHFC FC 'domain' |
| (8) | CHARACTER | 8 | FLAB_EYE2 | FLAB |
| Main part of FLAB. | | | | |
| (10) | CHARACTER | 128 | FLAB_MAIN_PART | Main part of FLAB |
| (10) | CHARACTER | 4 | * | |
| (10) | CHARACTER | 4 | * | |
| (10) | ADDRESS | 4 | FLAB_NEXT_FLAB_ ADDRESS | -> next FLAB on chain from owning FLAB |
| (10) | ADDRESS | 4 | FLAB_FREE_FLAB_ ADDRESS | Address of next FLAB on free chain |
| (14) | ADDRESS | 4 | FLAB_FRAB_ADDRESS | Addresss of FRAB that owns this FLAB |
| (18) | CHARACTER | 8 | * | |
| (18) | CHARACTER | 8 | FLAB_FILENAME | Name of associated file |
| (20) | CHARACTER | 4 | FLAB_REMOTE_SYSTEM_ID | Name of target system if file is remote |
| (24) | CHARACTER | 8 | FLAB_REMOTE_FILENAME | Name of file on target system if file is remote |
| (2C) | CHARACTER | 4 | * | |
| (2C) | ADDRESS | 4 | FLAB_FCTE_ADDRESS | -> associated FCTE |
| (30) | UNSIGNED | 4 | FLAB_ENVIRONMENT_ID | Environment identifier |
| This part of the FLAB addresses the FRTE chain and controls whether the file may be closed or reallocated. | | | | |
| (34) | CHARACTER | 4 | * | |
| (34) | ADDRESS | 4 | FLAB_FRTE_CHAIN_ ADDRESS | -> first FRTE owned by this FLAB |
| (38) | BIT(8) | 1 | FLAB_FLAGS | Flag byte |
| (38) | 1... | | FLAB_FORCE_ABEND | SDT connect failed, abend |
| (38) | .1.. | | * | Reserved |
| (38) | ..1. | | FLAB_BACKOUT_ ATTEMPTS_DISABLED | Do not attempt backout: base data set has had a backout failure since the last unshunt |
| (38) | ...1 | | * | Reserved |
| (38) | 1... | | FLAB_MI_COMPLETE_SEEN | Mass insert complete log rec seen (restart) |
| (38) |1.. | | FLAB_WA_COMPLETE_SEEN | Write add complete log rec seen (restart) |
| (38) |1. | | FLAB_NEEDS_FLLB | FLLB getmained but not yet chained |
| (38) |1 | | FLAB_HAS_FLLB | FLLB now chained |
| (39) | BIT(8) | 1 | FLAB_SECURITY_ACCESS | Security Characteristics |

Table 214. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------------------|---|
| (39) | 1... | | FLAB_READ_ALLOWED | Read security check OK |
| (39) | .1.. | | FLAB_UPDATE_ALLOWED | Update security check OK |
| (39) | ..11 1111 | | * | Reserved |
| (3A) | CHARACTER | 1 | * | |
| (3A) | UNSIGNED | 1 | FLAB_RETAIN_REASON | Reason work had to be retained |
| (3B) | UNSIGNED | 1 | FLAB_RETAIN_REASON2 | Sub-reason for backout failures |
| SET storage for READ_SET requests | | | | |
| (3C) | CHARACTER | 8 | FLAB_SET_CONTROL | Set storage control |
| (44) | CHARACTER | 8 | FLAB_SETU_CONTROL | Set storage control |
| Threadsafe Flags ??? make these separate words | | | | |
| (4C) | BIT(8) | 1 | * | |
| (4C) | CHARACTER | 1 | * | |
| (4C) | BIT(8) | 1 | FLAB_DO_NOT_CLOSE_FLAG | |
| (4C) | 1... | | FLAB_DO_NOT_CLOSE | Dont close file until syncpoint commit |
| (4D) | BIT(8) | 1 | * | |
| (4D) | CHARACTER | 1 | * | |
| (4D) | BIT(8) | 1 | FLAB_DO_NOT_REALLOCATE_FLAG | |
| (4D) | 1... | | FLAB_DO_NOT_REALLOCATE | Dont realloc file exist |
| (4E) | BIT(8) | 1 | * | |
| (4E) | CHARACTER | 1 | * | |
| (4E) | BIT(8) | 1 | FLAB_RECOVERABLE_WORK_DONE_FLAG | |
| (4E) | 1... | | FLAB_RECOVERABLE_WORK_DONE | Recoverable work done so eligible for shunting |
| (4F) | BIT(8) | 1 | * | |
| (4F) | CHARACTER | 1 | * | |
| (4F) | BIT(8) | 1 | FLAB_QUICMP_PENDING_FLAG | |
| (4F) | 1... | | FLAB_QUICMP_PENDING | RLS QUICOPY or QUIBWO req recvd for base data set |
| Statistics for this task. Copied to FCT at end of task. If a stats are collected before end of task the value collected is saved in FLAB_STATS_COLLECTED so that the extra value saved at end of task is reduced by that value | | | | |
| (50) | CHARACTER | 28 | FLAB_STATS | Stats for task |
| (50) | FULLWORD | 4 | FLAB_FCTDSRD | READ |
| (54) | FULLWORD | 4 | FLAB_FCTDSWRA | ADD |
| (58) | FULLWORD | 4 | FLAB_FCTDSWRU | UPDATE |
| (5C) | FULLWORD | 4 | FLAB_FCTDSGU | GET UPDATE |

Table 214. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|-------------------------------|
| (60) | FULLWORD | 4 | FLAB_FCTDSBR | BROWSE |
| (64) | FULLWORD | 4 | FLAB_FCTDSBRU | BROWSE UPDATE |
| (68) | FULLWORD | 4 | FLAB_FCTDSDEL | DELETE |
| (6C) | CHARACTER | 28 | FLAB_STATS_COLLECTED | Stats collected |
| (6C) | FULLWORD | 4 | FLAB_FCTDSRD_ COLLECTED | READ |
| (70) | FULLWORD | 4 | FLAB_FCTDSWRA_ COLLECTED | ADD |
| (74) | FULLWORD | 4 | FLAB_FCTDSWRU_ COLLECTED | UPDATE |
| (78) | FULLWORD | 4 | FLAB_FCTDSGU_ COLLECTED | GET UPDATE |
| (7C) | FULLWORD | 4 | FLAB_FCTDSBR_ COLLECTED | BROWSE |
| (80) | FULLWORD | 4 | FLAB_FCTDSBRU_ COLLECTED | BROWSE UPDATE |
| (84) | FULLWORD | 4 | FLAB_FCTDSDEL_ COLLECTED | DELETE |
| (88) | CHARACTER | 8 | * | Reserved |
| (90) | CHARACTER | 0 | * | Align to double word boundary |

Constants

Table 215.

| Len | Type | Value | Name | Description |
|--------------------------------|---------|-------|----------------------------|-------------|
| Values for flab_retain_reason | | | | |
| 1 | DECIMAL | 0 | FLAB_NOT_RETAINED | |
| 1 | DECIMAL | 1 | FLAB_FILE_BACKOUT_ FAILURE | |
| 1 | DECIMAL | 2 | FLAB_CACHE_FAILURE | |
| 1 | DECIMAL | 3 | FLAB_RLS_CATASTROPHE | |
| 1 | DECIMAL | 4 | FLAB_INDOUBT | |
| 1 | DECIMAL | 5 | FLAB_COMMIT_FAILURE | |
| 1 | DECIMAL | 6 | FLAB_CICS_FAILURE | |
| Values for flab_retain_reason2 | | | | |
| 1 | DECIMAL | 0 | FLAB_NO_SUBREASON | |
| 1 | DECIMAL | 1 | FLAB_IO_ERROR | |
| 1 | DECIMAL | 2 | FLAB_NO_SPACE | |
| 1 | DECIMAL | 3 | FLAB_AIX_FULL | |
| 1 | DECIMAL | 4 | FLAB_DUP_RECORD | |
| 1 | DECIMAL | 5 | FLAB_OPEN_ERROR | |
| 1 | DECIMAL | 6 | FLAB_NO_LDEL | |
| 1 | DECIMAL | 7 | FLAB_DEADLOCK | |
| 1 | DECIMAL | 8 | FLAB_COPY_ACTIVE | |
| 1 | DECIMAL | 9 | FLAB_SEVERE_ERROR | |
| 1 | DECIMAL | 10 | FLAB_RETAINABLE_LOCKS | |
| 1 | DECIMAL | 11 | FLAB_REPEATABLE_READS | |

Table 215. (continued)

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------------------|-------------|
| 1 | DECIMAL | 12 | FLAB_LOCK_STRUC_FULL | |

FMH - Function management headers

NAME OF MATCHING PL/S MODULE = None
 DESCRIPTIVE NAME = CICS TS CICS Function Management Headers
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1981, 2013
 FUNCTION =
 Copybook DFHFMHDS provides dsect DFHFMHDS.
 DFHFMHDS describes the format of the Function Management Headers (FMHs) used by CICS.
 LIFETIME =
 FMHs are used (in conjunction with user data) for communication between CICS and other LUs. These include:
 1. 3600 and batch LUs
 2. LUs supporting LU6.1 protocols
 3. LUs supporting LU6.2 protocols
 4. LUs supporting (CICS) IRC protocols
 The lifetime, as far as CICS is concerned, is no more than the lifetime of the TIOAs containing the FMHs and user data.
 STORAGE CLASS =
 As for TIOAs.
 LOCATION =
 As for TIOAs.
 INNER CONTROL BLOCKS =
 There are no inner control blocks.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = There are no restrictions.
 MODULE TYPE = Control block definition.

EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =

COMMON SECTION - 3600, BATCH LU

Table 216.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|---------------------------------------|
| (0) | STRUCTURE | 0 | DFHFMHDS | DSECT - FORMAT MESSAGE HDR |
| (0) | BITSTRING | 1 | FMHLENG | FMH LENGTH |
| (0) |11 | | FMHL3600 | "3" ...LENGTH OF 3600 FMH |
| (0) |11. | | FMHLBLU | "6" ...LENGTH OF BATCH LU FMH |
| (0) | 1..1 | | FMHLLU4 | "9" ...LENGTH OF LU4 FMH-NO DSN |
| (1) | BITSTRING | 1 | FMHHD | HEADER DESCRIPTION |
| (1) | .1.. | | FMHFD | "X'40'" ...MESSAGE HAS FORMATTED DATA |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|------------|--|
| (1) | ..1. | | FMHALARM | "X'20'" ...TRIGGER ALARM AT DEVICE |
| (1) |1 | | FMHTBLU | "X'01'" ...BATCH LU IS TYPE X'01' |
| (2) | BITSTRING | 1 | FMHLDC | LOGICAL DEVICE CODE -- SAME VALUES IN DFHSLDC, EXCEPT: |
| (2) | 1... | | FMHBLUIN | "X'80'" ...INPUT INDICATOR FOR BATCH LU |
| (3) | BITSTRING | 1 | | RESERVED |
| BATCH LU EXTENSION | | | | |
| (4) | BITSTRING | 1 | FMHFLAGS | BATCH LU FLAGS |
| (4) | 1... | | FMHSUSP | "X'80'" ...SUSPEND DATA SET |
| (4) | .1.. | | FMHBODS | "X'40'" ...BEGINNING OF DATA SET |
| (4) | ..1. | | FMHEODS | "X'20'" ...END OF DATA SET |
| (5) | BITSTRING | 1 | | RESERVED |
| RESPECIFICATION FOR BATCH LU FMHS TYPE 1 FMH FORMAT | | | | |
| (0) | BITSTRING | 1 | FMHLEN | LENGTH OF COMPLETE FMH |
| (1) | BITSTRING | 1 | FMHTYPE | TYPE OF FMH |
| (1) |1 | | FMHFTYP1 | "X'01'" ..TYPE 1 FMH |
| (1) |1. | | FMHFTYP2 | "X'02'" ..TYPE 2 FMH |
| (1) |11 | | FMHFTYP3 | "X'03'" ..TYPE 3 FMH |
| (1) | 1... | | FMHFCONC | "X'80'" CONCATENATED FMH |
| (2) | BITSTRING | 1 | FMHMEDIA | MEDIA SELECTION BYTE |
| (2) | .... .... |  | FMHMEFCN | "X'00'" ..CONSOLE |
| (2) | ...1 | | FMHMEFEX | "X'10'" ..EXCHANGE MEDIA |
| (2) | ..1. | | FMHMEFCD | "X'20'" ..CARD READER |
| (2) | ..11 | | FMHMEFPR | "X'30'" ..PRINT |
| (2) | .1.. | | FMHMEFDI | "X'40'" ..DISK |
| (2) | .11. | | FMHMEFPD | "X'60'" ..PDS |
| (2) | .1.1 | | FMHMEXDC | "X'50'" .. EXTENDED DOCUMENT |
| (2) | 1... | | FMHMEWM1 | "X'80'" .. WP MEDIUM 1 |
| (2) | 1..1 | | FMHMEWM2 | "X'90'" .. WP MEDIUM 2 |
| (2) | 1.1. | | FMHMEWM3 | "X'A0'" .. WP MEDIUM 3 |
| (2) | 11.. | | FMHMEWM4 | "X'C0'" .. WP MEDIUM 4 |
| (2) | 11.1 | | FMHMENCI | "X'D0'" .. NCI |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------|------------|-----|--------------|--|
| (2) | .111 1111 | | FMHMEFAN | "X'7F'" ..ANY NOTE ONLY BITS 1-3 USED BIT 0 RESERVED BIT 4-7 LOGICAL SUBADDRESS |
| (3) | BITSTRING | 1 | FMHFLAG3 (0) | FLAG BYTE |
| (3) | 1... | | FMHT1STK | "X'80'" 'YOUR' STACK INDICATOR BIT 1-3 RESERVED |
| (3) | BITSTRING | 1 | FMHDSP (0) | DATA STREAM PROFILE |
| (3) | .... .... |  | FMHDSPDE | "X'00'" DEFAULT DSP |
| (3) |1 | | FMHDSPBA | "X'01'" BASE DSP |
| (3) |11 | | FMHDSPJB | "X'03'" JOB DSP |
| (3) |1.. | | FMHDSPRW | "X'04'" WP RAW |
| (3) |11. | | FMHDSPI1 | "X'06'" OII LEVEL 1 |
| (3) |111 | | FMHDSPI2 | "X'07'" OII LEVEL 2 |
| (3) | 1... | | FMHDSPI3 | "X'08'" OII LEVEL 3 X'09' - X'0A' RESERVED |
| (3) | 1.11 | | FMHDSPSF | "X'0B'" STRUCTURED FIELDS X'0C' - X'0F' RESERVED |
| (3) | BITSTRING | 1 | FMHSDSP | DEFINE STORAGE |
| (4) | BITSTRING | 1 | FMHDESEL | DESTINATION SELECT FIELD BIT 0-2 ONLY |
| (4) | .... .... |  | FMHDEFRE | "X'00'" ..RESUME DATA SET |
| (4) | ..1. | | FMHDEFEN | "X'20'" ..END DATA SET |
| (4) | ..1.. | | FMHDEFBG | "X'40'" ..BEGIN DATA SET |
| (4) | ..11. | | FMHDEFBD | "X'60'" ..BEGIN AND END DATA SET |
| (4) | 1... | | FMHDEFSU | "X'80'" ..SUSPEND DATA SET |
| (4) | 1.1. | | FMHDEFAB | "X'A0'" ..ABORT DATA SET |
| (5) | BITSTRING | 1 | FMHRESV1 (0) | RESERVED |
| (5) | BITSTRING | 1 | FMHERCI | EXCHANGE RECORD LENGTH |
| (6) | BITSTRING | 1 | FMHRESV2 (2) | RESERVED |
| (8) | BITSTRING | 1 | FMHDSNL | LENGTH OF DESTINATION NAME |
| (9) | CHARACTER | 1 | FMHDSNH (0) | ACTUAL DSN NAME |
| TYPE 2 FMH OVERLAY | | | | |
| (2) | BITSTRING | 1 | FMH2OPCD | TYPE OF OPERATION |
| (2) | ..1. .1.. | | FMH2FADD | "X'24'" ..ADD OPERATION |
| (2) | ..1. .1.1 | | FMH2FREP | "X'25'" ..REPLACE OPERATION |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|--------------|----------------------------------|
| (2) | ..1. 1... | | FMH2FQUE | "X'28'" ..QUERY OPERATION |
| (2) | ..1. 1..1 | | FMH2FNOT | "X'29'" ..NOTE OPERATION |
| (2) | ..1. 1.1. | | FMH2NTRY | "X'2A'" ..NOTE REPLY OPERATION |
| (2) | ..1. 1.11 | | FMH2FRID | "X'2B'" ..RECID OPERATION |
| (2) | ..1. 11.. | | FMH2FERA | "X'2C'" ..ERASE OPERATION |
| (2) | ..1. 111. | | FMH2FVOL | "X'2E'" ..VOLID OPERATION |
| (3) | BITSTRING | 1 | FMH2NURC (0) | NUMBER OF RECORDS AFFECTED |
| (3) | BITSTRING | 1 | FMH2RITY (0) | TYPE OF KEY FOR RECID TYPE |
| (3) | .... .... |  | FMH2RIAK | "X'00'" ..ADDRESSED DIRECT |
| (3) |1 | | FMH2RID1 | "X'01'" ..KEY DIRECT KEY1 |
| (3) |1. | | FMH2RID2 | "X'02'" ..KEY DIRECT KEY2 |
| (3) |11 | | FMH2RIAP | "X'03'" ..APPLICATION DEFINITION |
| (3) |1.. | | FMH2RICC | "X'04'" ..CONTROL DEFINITION |
| (3) | BITSTRING | 1 | FMH2DAT1 (0) | START OF DATA FIRST TYPE |
| (3) | BITSTRING | 1 | | OVERLAYED BYTE |
| (4) | CHARACTER | 1 | FMH2DAT2 (0) | START OF DATA SECOND TYPE |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| <p>THE FOLLOWING DSECT DESCRIBES FUNCTION MANAGEMENT HEADERS AND IN SOME CASES THE DATA THAT CAN FOLLOW THE HEADER. THE ORGANIZATION OF THE DEFINITIONS WITHIN THIS PART OF THE COPY BOOK IS AS FOLLOWS :-</p> <ol style="list-style-type: none"> 1. THE STANDARD PART OF A FUNCTION MANAGEMENT HEADER. THESE DEFINITIONS APPLY WHATEVER TYPE, GROUP AND FUNCTION CODE THE HEADER MAY CARRY. 2. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 5; THAT IS, ATTACH HEADERS. THESE MAY BE IDENTIFIED BY THE PREFIX 'FMHA' FOR LU6.1 AND BY THE PREFIX 'FMHB' FOR LU6.2. 3. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 6; THAT IS, SCHEDULER MODEL, QUEUE MODEL AND DL/I MODEL HEADERS. THESE MAY BE IDENTIFIED BY THE PREFIXES 'FMHS', 'FMHQ' AND 'FMHD' RESPECTIVELY. 4. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 7; THAT IS, SYSTEM MESSAGES. THESE ARE IDENTIFIED BY THE PREFIX 'FMHSM' 5. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 10; THAT IS, SYNCPOINT HEADERS. THESE ARE IDENTIFIED BY THE PREFIX 'FMHP' 6. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 12; THAT IS, TRANSFORMED PASSWORD HEADERS. THESE ARE IDENTIFIED BY THE PREFIX 'FMHV'. 7. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 43; THAT IS, CICS PRIVATE HEADERS. THESE MAY BE IDENTIFIED BY THE PREFIX 'FMHC'. <p>NOTE THAT THE DECLARED LENGTHS OF VARIABLE LENGTH PARAMETERS ALLOW FOR THE (REASONABLE) LENGTH OF THE PARAMETER VALUES. TO EACH MUST BE ADDED ONE BYTE FOR THE PRECEEDING LENGTH FIELD. (REFER TO MODULE DFHXFP FOR EXAMPLES OF HOW VARIABLE LENGTH PARAMETERS ARE HANDLEED.)</p> <p>NOTE ALSO THAT A THEORETICAL MAXIMUM LENGTH IS QUOTED FOR MOST FMHS. THIS PERMITS THE FASTER CONSTRUCTION OF FMHS AT THE EXPENSE OF A FEW EXTRA BYTES OF STORAGE.</p> | | | | |
| (0) | CHARACTER | 1 | FMHL | LENGTH OF FMH |
| (1) | CHARACTER | 1 | FMHCT | CONCATENATION FLAG AND FMH TYPE BITS SET AS FOLLOWS |
| (1) | 1... | | FMHCAT | "X'80" A SECOND F.M. HEADER COMES AFTER THIS ONE BIT1 - BIT 7 FMH TYPE VALUES SET AS FOLLOWS |
| (1) |1.1 | | FMHT05 | "X'05" IBM ARCHITECTED ATTACH F.M. HEADER |
| (1) |11. | | FMHT06 | "X'06" IBM ARCHITECTED MODEL F.M. HEADER |
| (1) |111 | | FMHT07 | "X'07" IBM ARCHITECTED SYSTEM MESSAGE F.M. HEADER |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|-------------|--|
| (1) | 1.1. | | FMHT0A | "X'0A" IBM ARCHITECTED SYNCPOINT F.M. HEADER |
| (1) | 11.. | | FMHT0C | "X'0C" IBM ARCHITECTED TRANSFORMED PASSWORD F.M. HEADER |
| (1) | .1.. ..11 | | FMHT43 | "X'43" CICS ARCHITECTED MODEL F.M. HEADER |
| (2) | CHARACTER | 2 | FMHXCMD (0) | GROUP AND FUNCTION CODES |
| (2) | CHARACTER | 2 | FMHXSS (0) | FMH T7 SYSTEM SENSE |
| (2) | CHARACTER | 1 | FMHGROUP | GROUP CODE |
| (3) | CHARACTER | 1 | FMHFN | FUNCTION CODE |
| (4) | CHARACTER | 2 | FMHXUS (0) | FMH T7 USER SENSE |
| (4) | CHARACTER | 1 | FMHXM0D | MODIFIER BITS SET AS FOLLOWS |
| (4) | 1... | | FMHXLNSZ | "X'80" '0' FOR 1 BYTE FMH LENGTH FIELDS(LU6.1 FMH ONLY) |
| (4) | .1.. | | FMHXTOS | "X'40" Set if system supports Time-out delete of remote skeletons (Transaction Routing only) BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED BIT5 RESERVED BIT6 RESERVED BIT7 RESERVED |
| (5) | CHARACTER | 1 | FMHFXCT | LENGTH OF FIXED LENGTH PARAMETERS IN FMH |
| (6) | CHARACTER | 1 | FMHFORG (0) | ORIGIN FOR THE TYPE, GROUP AND FUNCTION DEPEND- ENT FIXED LENGTH PARAMETERS |
| (6) |11. | | LFMH | "*-DFHFMHDS" LENGTH OF THE STANDARD PART OF THE HEADER |
| TYPE 5 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF ATTACH MANAGEMENT LU6.1 ATTACH FUNCTION MANAGEMENT HEADER X'0202' GROUP AND FUNCTION FMHGROUP VALUES SET AS FOLLOWS | | | | |
| (6) |1. | | FMHT5ATT | "X'02" GROUP IS ATTACH FMHFN VALUES SET AS FOLLOWS |
| (6) |1. | | FMHATTFN | "X'02" FUNCTION IS ATTACH |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (6) | CHARACTER | 1 | FMHATDS | SECURITY ALGORITHM VALUE |
| (7) | CHARACTER | 1 | FMHATDBA | DATA ALGORITHM VALUE VALUES SET AS FOLLOWS |
| (7) | .... .... |  | FMHAU | "X'00'" UNDEFINED |
| (7) |1 | | FMHAV | "X'01'" VARIABLE LENGTH |
| (7) |1. | | FMHASCSD | "X'02'" DOCUMENT SUBSET OF SCS |
| (7) |11 | | FMHASCSC | "X'03'" CARD SUBSET OF SCS |
| (7) |1.. | | FMHARUC | "X'04'" CHAIN OF REQUEST UNITS |
| (7) |1.1 | | FMHARU | "X'05'" REQUEST UNIT |
| (7) | 1... | | LFMH0202 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (7) | 1... | | LF050202 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | FMHATDPN (0) | PROCESS TO BE INITIATED |
| (0) | CHARACTER | 1 | FMHATDPL | PROCESS NAME LENGTH |
| (0) |1 | | FMHARLEN | "1" LENGTH OF AN ARCHITECTED PROCESS NAME |
| (1) | CHARACTER | 4 | FMHATDPV (0) | PROCESS NAME UP TO FOUR CHARACTERS |
| (1) | ..11 1111 | | FMHARMAX | "X'3F'" MAXIMUM POSSIBLE VALUE FOR ARCHITECTED PROCESS NAMES - NON-GRAPHIC VALUES |
| (0) | CHARACTER | 8 | FMHATPRN (0) | RESOURCE FOR INITIATED PROCESS |
| (0) | CHARACTER | 8 | FMHARDPN (0) | RETURN PROCESS NAME |
| (0) | CHARACTER | 8 | FMHARPRN (0) | RESOURCE FOR RETURN PROCESS |
| (0) | CHARACTER | 8 | FMHATDQN (0) | QUEUE TO BE ASSOCIATED WITH INITIATED PROCESS |
| (0) | ..1. ..11 | | TA050202 | "LF050202+ 1+ L'FMHATDPN+ 1+ L'FMHATPRN+ 1+ L'FMHARDPN" |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|--|
| (0) | ..11 .1.1 | | MF050202 | "TA050202+ 1+ L'FMHARPRN+ 1+ L'FMHATDQN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE ATTACH FMH |
| LU6.2 ATTACH FUNCTION MANAGEMENT HEADER X'02FF' GROUP AND FUNCTION GROUP AND FUNCTION VALUES SET AS FOLLOWS | | | | |
| (0) | BITSTRING | 0 | FMHBCMD | "X'02FF'" ATTACH LU6.2 |
| (0) | 1111 1111 | | FMHBTTFN | "X'FF'" FUNCTION = LU6.2 ATTACH FLAGS SET IN FMHXM0D |
| (0) | 1... | | FMHBPIP | "X'08'" PIP PRESENT |
| (0) |1.. | | FMHBXSEC | "X'04'" Extended security bit |
| (0) | 1... | | FMHBAVER | "X'80'" USERID ALREADY VERIFIED |
| (0) | .1.. | | FMHBPVER | "X'40'" USERID PERSISTENTLY VERIFIED |
| (0) | ..1. | | FMHBPV2 | "X'20'" Userid Persistently Signed On FMHFXCT |
| (0) |11 | | FMHBFXCT | "X'03'" LENGTH OF FIXED LENGTH PARMS |
| (6) | BITSTRING | 1 | FMHBCVT (0) | CONVERSATION TYPE |
| (6) | 11.1 | | FMHBUNMP | "X'D0'" UNMAPPED |
| (6) | 11.1 ...1 | | FMHBMAPD | "X'D1'" MAPPED |
| (6) | BITSTRING | 1 | FMHBFXT1 | 1ST BYTE |
| (7) | BITSTRING | 1 | FMHBFXT2 | 2ND BYTE - RESERVED 3RD BYTE |
| (8) | BITSTRING | 1 | FMHBSPL (0) | BITS 0-1 - SYNC POINT LEVEL |
| (8) | .... .... |  | FMHBSPL0 | "X'00'" NO SYNC |
| (8) | .1.. | | FMHBSPL1 | "X'40'" COMMIT ONLY (CONFIRM) |
| (8) | 1... | | FMHBSPL2 | "X'80'" FULL SYNCPT |
| (8) | 11.. | | FMHBSPMK | "X'C0'" SYNC POINT MASK |
| (8) | BITSTRING | 1 | FMHBRSTL (0) | BIT 2 - RESTART LEVEL |
| (8) | .... .... |  | FMHBRNO | "X'00'" - NO |
| (8) | ..1. | | FMHBRYES | "X'20'" - YES |
| (8) | BITSTRING | 1 | FMHBFXT3 | 3RD BYTE |
| (8) | 1..1 | | LF0502FF | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 1 | FMHBTPNL | ACTUAL LENGTH OF FMHBTPN |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------|----------------------------------|
| (1) | CHARACTER | 32 | FMHBTPN (0) | TRANSACTION PROGRAM NAME |
| (0) | CHARACTER | 1 | FMHBACCL | ACTUAL LENGTH OF FMHBACC |
| (1) | CHARACTER | 139 | FMHBACC (0) | SECURITY ACCESS CODE |
| (0) | CHARACTER | 1 | FMHBACSL | ACCESS SUBFIELD LENGTH |
| (1) | CHARACTER | 1 | FMHBACST | ACCESS SUBFIELD TYPE |
| (1) | .... .... |  | FMHBACPR | "X'00'" PROFILE-ID |
| (1) |1 | | FMHBACPA | "X'01'" PASSWORD |
| (1) |1. | | FMHBACUS | "X'02'" USER-ID |
| (1) | 1111 1... | | FMHBAC_EWLM | "X'F8'" EWLM correlator |
| (1) | 1111 1..1 | | FMHBAC_RQS | "X'F9'" Requeststream flow |
| (1) | 1111 1.1. | | FMHBAC_RRS | "X'FA'" RRS data field |
| (1) | 1111 1.11 | | FMHBAC_EPN | "X'FB'" ENTRY PORT NAME |
| (1) | 1111 11.. | | FMHBAC_EPT | "X'FC'" ENTRY PORT TYPE |
| The entry port type can either be X'00' representing a VTAM terminal, or X'01' representing a console. | | | | |
| (1) | .... .... |  | FMH_VTAM_TERMINAL | "X'00'" |
| (1) |1 | | FMH_CONSOLE | "X'01'" |
| (1) | 1111 11.1 | | FMHBAC_APL | "X'FD'" APPLID OF ENTRY PORT |
| (1) | 1111 111. | | FMHBAC_PRI | "X'FE'" SHIPPED TASK PRIORITY |
| (1) | 1111 1111 | | FMHBAC_SRC | "X'FF'" MVS/WLM SRC TOKEN |
| (2) | CHARACTER | 64 | FMHBACSD (0) | ACCESS SUBFIELD DATA |
| (0) | CHARACTER | 1 | FMHBUOWL | ACTUAL LENGTH OF FMHBUOW |
| (1) | CHARACTER | 30 | FMHBUOW (0) | UNIT OF WORK ID |
| (1) | CHARACTER | 1 | FMHBULUL | LENGTH OF LU NAME |
| (2) | CHARACTER | 17 | FMHBULU (0) | LU NAME (NETWORK NAME FROM ACB) |
| (0) | CHARACTER | 6 | FMHBUCLK | UOW INSTANCE (STORE CLOCK VALUE) |
| (6) | CHARACTER | 2 | FMHBUSEQ | UOW SEQUENCE NO |
| (0) | CHARACTER | 1 | FMHBCCSL | ACTUAL LENGTH OF FMHBCCS |
| (1) | CHARACTER | 8 | FMHBCCS (0) | SENDER'S CONVERSATION CORRELATOR |
| (0) | CHARACTER | 1 | FMHBSEQL | Actual length of FMHBSEQ |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------|---|
| (1) | CHARACTER | 8 | FMHBSEQ (0) | Sender's DCE sequence number |
| (1) | 11.1 .1.1 | | TA0502FF | "LF0502FF+ 1+ L'FMHBTPN+ 1+ L'FMHBACC+ 1+ L'FMHBUOW" |
| (1) | 111. .11. | | MF0502FF | "TA0502FF+ 1+ L'FMHBCCS+ L'FMHBSEQ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE LU6.2 ATTACH FMH |
| TYPE 6 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 SYSTEM MESSAGE MODEL SYSSTAT FUNCTION MANAGEMENT HEADER USED FOR LOGGING ERROR MESSAGES ON CSMT X'0402' GROUP AND FUNCTION NOTE THAT CICS/VS WILL NOT SEND THE SYSSTAT FMH | | | | |
| (1) |11. | | LF060402 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| SYSERROR FUNCTION MANAGEMENT HEADER USED FOR X'0404' GROUP AND FUNCTION NOTE THAT CICS/VS WILL NOT SEND NOR RECEIVE THE SYSERROR FMH | | | | |
| (1) |11. | | LF060404 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 4 | FMHERDPN | DPN FOR INTENDED REPLY |
| (0) | CHARACTER | 4 | FMHERPRN | PRN FOR INTENDED REPLY |
| (0) | ...1 | | MF060404 | "LF060404+ 1+ L'FMHERDPN+ 1+ L'FMHERPRN" GOOD UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SYSERROR FMH |
| FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 SCHEDULER MODEL SCHED FUNCTION MANAGEMENT HEADER USED FOR IC SCHEDULE REQUESTS X'0802' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXM0D FOR SCHED FMH | | | | |
| (0) | .1.. | | FMHXRPLY | "X'40'" REPLY IS EXPECTED |
| (0) | ..1. | | FMHXPROT | "X'20'" REQUEST IS PROTECTED |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (0) | ...1 | | FMHXDELY | "X'10'" TIMER IS REQUIRED |
| (0) | 1... | | FMHRTST | "X'08'" Routable START |
| (0) |1.. | | FMHRESUN | "X'04'" RESUNAVAIL is supported |
| (0) |1. | | FMHCHANL | "X'02'" CHANNEL request |
| (6) | CHARACTER | 1 | FMHSRQST | DETAILS OF SCHEDULE REQUEST BITS SET AS FOLLOWS |
| (6) | 1... | | FMHSTIME | "X'80'" TIME DELAY SPECIFIED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED BIT5 RESERVED BIT6 RESERVED BIT7 RESERVED |
| (6) |111 | | LF060802 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | FMHSSDPN (0) | NAME OF PROCESS THAT IS TO BE INITIATED |
| (0) | CHARACTER | 4 | FMHSPRN (0) | NAME OF PRIMARY RESOURCE FOR PROCESS BEING INITIATED |
| (0) | CHARACTER | 8 | FMHSRDPN (0) | SUGGESTED NAME FOR RETURN PROCESS |
| (0) | CHARACTER | 4 | FMHSRPRN (0) | SUGGESTED NAME FOR PRIMARY RESOURCE FOR RETURN PROCESS |
| (0) | CHARACTER | 8 | FMHSQNME (0) | NAME OF QUEUE ASSOCIATED WITH PROCESS BEING INITIATED |
| (0) | CHARACTER | 8 | FMHSREQN (0) | NAME OF REQUEST INSTANCE ASSOCIATED WITH PROCESS |
| (0) | CHARACTER | 6 | FMHSDELY (0) | THE INTERVAL OR TIME INITIATION DELAY FIELD |
| (0) | CHARACTER | 8 | FMHUSID (0) | THE USERID ON A START COMMAND |
| (0) | CHARACTER | 8 | FMHSYSNE (0) | Applid for PF start |
| (0) | CHARACTER | 8 | FMHTRMNE (0) | Terminal netname for start |
| (0) | ...1 111. | | TA060802 | "LF060802+ 1+ L'FMHSSDPN+ 1+ L'FMHSPRN+ 1+ L'FMHSRDPN" |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| (0) | ..11 .1.1 | | TB060802 | "TA060802+ 1+ L'FMHSRPRN+ 1+ L'FMHSQNME+ 1+ L'FMHSREQN" |
| (0) | .1.. 11.1 | | MF060802 | "TB060802+ 1+ L'FMHSDELY+ 1+ L'FMHUSID+ L'FMHSYSNE" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SCHED FMH |
| SCDSTAT FUNCTION MANAGEMENT HEADER USED FOR IC SCHEDULE REPLIES X'0804' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 1 | FMHSSSTS | STATUS OF SCHEDULE REQUEST BITS SET AS FOLLOWS BIT0 RESERVED |
| (6) | .1.. | | FMHSSYSI | "X'40" Unable to ship request to next node |
| (6) | ..1. | | FMHSINAU | "X'20" UNAUTHORIZED REQUEST |
| (6) | ...1 | | FMHSIEXP | "X'10" INITIATION TIME EXPIRED |
| (6) | 1... | | FMHSIDPN | "X'08" INVALID PROCESS NAME |
| (6) |1.. | | FMHSIPRN | "X'04" INVALID RESOURCE NAME |
| (6) |1. | | FMHSERR | "X'02" UNABLE TO SCHEDULE DUE TO PROCESSING ERROR |
| (6) |1 | | FMHSINV | "X'01" INVALID REQUEST |
| (7) | CHARACTER | 1 | FMHSSST2 | EXTENSION TO FMHSSSTS BITS SET AS FOLLOWS |
| (7) | 1... | | FMHUIDER | "X'80" USERID ERROR |
| (7) | 1... | | LF060804 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | FMHSIREQ (0) | REQUEST NAME GENERATED BY RECEIVING SYSTEM |
| (0) | ...1 ...1 | | MF060804 | "LF060804+ 1+ L'FMHSIREQ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SCDSTAT FMH |
| PURGREQ FUNCTION MANAGEMENT HEADER USED FOR IC CANCEL REQUESTS X'0806' GROUP AND FUNCTION | | | | |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|--|
| (0) |11. | | LF060806 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | (0) | see definition for FMHSREQN |
| (0) | CHARACTER | 8 | FMHSCDPN (0) | NAME OF PROCESS THAT IS TO BE CANCELLED |
| (0) | ...1 1... | | MF060806 | "LF060806+ 1+ L'FMHSREQN+ 1+ L'FMHSCDPN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE PURGREQ FMH |
| PURGSTAT FUNCTION MANAGEMENT HEADER USED FOR IC CANCEL REPLIES X'0808' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 1 | FMHSPSTS | STATUS OF PURGE REQUEST BITS SET AS FOLLOWS BIT0 RESERVED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED |
| (6) |1.. | | FMHSPSYS | "X'04'" Unable to ship request to next node |
| (6) |1. | | FMHSPNAU | "X'02'" UNAUTHORIZED REQUEST |
| (6) |1 | | FMHSNFD | "X'01'" NAMED REQUEST NOT FOUND |
| (6) |111 | | LF060808 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 QUEUE MODEL QPUT FUNCTION MANAGEMENT HEADER USED FOR WRITEQ TD REQUESTS WRITEQ TS REQUESTS X'0A02' GROUP AND FUNCTION | | | | |
| (6) |1. | | FMHCNDRQ | "X'02'" CONDITIONAL REQUEST |
| (6) | CHARACTER | 1 | FMHQQORG | TYPE OF QUEUE VALUES SET AS FOLLOWS |
| (6) | .... .... |  | FMHQNSPE | "X'00'" QUEUE TYPE NOT SPECIFIED |
| (6) |1 | | FMHQSEQL | "X'01'" QUEUE TYPE IS SEQUENTIAL |
| (6) |1. | | FMHQLINE | "X'02'" QUEUE TYPE IS LINEAR |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|--------------|--|
| (6) |11 | | FMHQHIER | "X'03" QUEUE TYPE IS HIERARCHICAL |
| (6) |111 | | LF060A02 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 16 | FMHQNAME (0) | THE QUEUE NAME IS FROM 1 TO 16 CHARACTERS |
| (0) | ...1 1... | | MF060A02 | "LF060A02+ 1+ L'FMHQNAME" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QPUT FMH |
| QGET FUNCTION MANAGEMENT HEADER USED FOR READQ TS REQUESTS X'0A04' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXM0D FOR QGET FMH FMHCNDRQ EQU X'02' CONDITIONAL REQUEST | | | | |
| (6) | CHARACTER | 1 | | see definition for FMHQQORG |
| (6) |111 | | LF060A04 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | (0) | see definition for FMHQNAME |
| (0) | CHARACTER | 2 | FMHQCURS | THE CURSOR IS HELD AS TWO BYTE BINARY |
| (0) | CHARACTER | 2 | FMHQTRSZ | THE MAXIMUM RECORD LENGTH IS HELD AS TWO BYTE BINARY |
| (0) | ...1 111. | | MF060A04 | "LF060A04+ 1+ L'FMHQNAME+ 1+ L'FMHQCURS+ 1+ L'FMHQTRSZ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QGET FMH |
| QPURGE FUNCTION MANAGEMENT HEADER USED FOR DELETEQ TD REQUESTS DELETEQ TS REQUESTS X'0A06' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 1 | | see definition for FMHQQORG |
| (6) |111 | | LF060A06 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | (0) | see definition for FMHQNAME |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--|
| (0) | ...1 1... | | MF060A06 | "LF060A06+ 1+ L'FMHQNAME" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QPURGE FMH |
| QXFR FUNCTION MANAGEMENT HEADER USED FOR READQ TD REPLIES READQ TS REPLIES X'0A08' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 1 | | see definition for FMHQQORG |
| (7) | CHARACTER | 1 | FMHQXFST | STATUS BYTE BITS SET AS FOLLOWS BIT0 RESERVED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED |
| (7) |1.. | | FMHQDISP | "X'04'" DISPOSITION OF QUEUE BIT6 RESERVED |
| (7) |1 | | FMHQEMSG | "X'01'" END OF MESSAGE |
| (7) | 1... | | LF060A08 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 2 | (0) | see definition for FMHQCURS |
| (0) | CHARACTER | 2 | FMHQRCNT (0) | NUMBER OF OCCURENCES OF RECORDS AT LOWEST LEVEL OF CURSOR |
| (0) | CHARACTER | 2 | FMHQRCLN (0) | RECORD LENGTH BEFORE TRUNCATION |
| (0) | ...1 ...1 | | MF060A08 | "LF060A08+ 1+ L'FMHQCURS+ 1+ L'FMHQRCNT+ 1+ L'FMHQRCLN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QXFR FMH |
| QSTATUS FUNCTION MANAGEMENT HEADER USED FOR WRITEQ TD REPLIES WRITEQ TS REPLIES READQ TD REPLIES READQ TS REPLIES DELETEQ TD REPLIES DELETEQ TS REPLIES X'0A0A' GROUP AND FUNCTION NOTE THAT CICS/VS WILL NOT SEND EITHER THE FMHQSENS OR THE FMHQNAME VARIABLE LENGTH PARAMETER | | | | |
| (6) | CHARACTER | 1 | | see definition for FMHQQORG |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (7) | CHARACTER | 2 | FMHQSTAT (0) | STATUS OF REQUEST |
| (7) | CHARACTER | 1 | FMHQSTA1 | FIRST STATUS BYTE BITS SET AS FOLLOWS |
| (7) | 1... | | FMHQINVL | "X'80" INVALID LENGTH FOR REQUEST |
| (7) | .1.. | | FMHQINVN | "X'40" INVALID QUEUE NAME |
| (7) | ..1. | | FMHQRNVL | "X'20" RECORD NOT AVAILABLE |
| (7) | ...1 | | FMHQNAVL | "X'10" QUEUE NAME NOT AVAILABLE |
| (7) | 1... | | FMHQSPAC | "X'08" NO SPACE LEFT ON QUEUE |
| (7) |1.. | | FMHQINVC | "X'04" INVALID CURSOR |
| (7) |1. | | FMHQUERRO | "X'02" I/O ERROR WHEN QUEUE ACCESSED |
| (7) |1 | | FMHQEMPT | "X'01" QUEUE IS EMPTY |
| (8) | CHARACTER | 1 | FMHQSTA2 | RESERVED |
| (8) | 1... | | FMHQIORG | "X'80" Q-ORG NOT SUPPORTED |
| (8) | .1.. | | FMHQNAUT | "X'40" UNAUTHORIZED REQUEST |
| (8) | ..1. | | FMHQSYSI | "X'20" Unable to ship request to next node |
| (8) | ...1 | | FMHQDISA | "X'10" Queue exists but has been disabled |
| (8) | 1... | | FMHQINVR | "X'08" Invalid request; e.g. DELETEQ for extra TD |
| (8) |1.. | | FMHQLOCK | "X'04" Queue is locked |
| (8) | 1..1 | | LF060A0A | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 2 | (0) | see definition for FMHQCURS |
| (0) | CHARACTER | 256 | FMHQSENS (0) | SENSE DATA (COULD BE ACCESS METHOD DATA) |
| (0) | CHARACTER | 8 | (0) | see definition for FMHQNAME |
| (0) | 11.. | | MF060A0A | "LF060A0A+ 1+ L'FMHQCURS" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QSTATUS FMH |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| QREPL FUNCTION MANAGEMENT HEADER USED FOR WRITEQ TS REQUESTS X'0A0C' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXM0D FOR QREPL FMH FMHCNDRQ EQU X'02' CONDITIONAL REQUEST | | | | |
| (6) | CHARACTER | 1 | | see definition for FMHQQORG |
| (6) |111 | | LF060A0C | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | (0) | see definition for FMHQNAME |
| (0) | CHARACTER | 2 | (0) | see definition for FMHQCURS |
| (0) | ...1 1.11 | | MF060A0C | "LF060A0C+ 1+ L'FMHQNAME+ 1+ L'FMHQCURS" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QREPL FMH |
| QGETN FUNCTION MANAGEMENT HEADER USED FOR READQ TD REQUESTS READQ TS REQUESTS X'0A10' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXM0D FOR QGETN FMH FMHCNDRQ EQU X'02' CONDITIONAL REQUEST | | | | |
| (6) | CHARACTER | 1 | | see definition for FMHQQORG |
| (6) |111 | | LF060A10 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | | see definition for FMHQNAME |
| (0) | CHARACTER | 2 | | see definition for FMHQTRSZ |
| (0) | ...1 1.11 | | MF060A10 | "LF060A10+ 1+ L'FMHQNAME+ 1+ L'FMHQTRSZ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QGETN FMH |
| FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 DL/I MODEL DL/I MODEL FUNCTION MANAGEMENT HEADERS CAN BE FOLLOWED BY ONE OR MORE SELF DESCRIBING PIECES OF DATA. | | | | |
| (0) | CHARACTER | 2 | FMHDLENG | LENGTH OF PARAMETER; INCLUDES LENGTH AND TYPE FIELDS |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-------------|-----|--------------|--|
| (2) | CHARACTER | 1 | FMHDTYPE | PARAMETER TYPE - VALUES SET AS FOLLOWS |
| (2) |1 | | FMHDIOA | "X'01" FLAG SET TO SHOW THAT PARAMETER IS AN I/O AREA |
| (2) |1. | | FMHDSOA | "X'02" FLAG SET TO SHOW THAT PARAMETER IS A SOA |
| (2) |11 | | FMHDPGB | "X'03" FLAG SET TO SHOW THAT PARAMETER IS A GB |
| (2) |1.. | | FMHDKEY | "X'04" FLAG SET TO SHOW THAT PARAMETER IS A KEY |
| (2) |1.1 | | FMHDSSTFN | "X'05" Flag set to show that parameter is a STATFUNC |
| (2) |11. | | FMHDSRTK | "X'06" Flag set to show that parameter is a SRTOKEN |
| (2) |111 | | FMHDSCHD | "X'07" Flag set to show that parameter is a SCHEDINFO |
| (2) |1... | | FMHDAIB | "X'08" Flag set to show that parameter is a AIB |
| (3) | CHARACTER | 256 | FMHDPARM (0) | THE PARAMETER ITSELF; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE |
| (3) | CHARACTER | 256 | FMHDAEA (0) | THE I/O AREA; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE |
| (3) | CHARACTER | 256 | FMHDPSSA (0) | THE SEGMENT SEARCH ARGU- MENT; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE |
| (3) | CHARACTER | 256 | FMHDPGB (0) | THE GB VIEW DESCRIPTOR; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE |
| (3) | CHARACTER | 4 | FMHDNTNT | PROCESSING INTENT FOR THIS DATA BASE |
| (7) | CHARACTER | 4 | FMHDMKYL | MAXIMUM KEY LENGTH FOR THIS GB (BINARY) |
| (B) | CHARACTER | 4 | FMHDSEGS | NUMBER OF SENSITIVE SEGMENTS (BINARY) |
| (B) | 1111 | | LFMHDDVD | "*-FMHDLENG" LENGTH OF THE FIXED PART OF THE VIEW DESCR (GB) |
| (0) | CHARACTER | 8 | FMHDDBDN (0) | DBD NAME - VARIABLE PARAM - FROM 1 TO 8 CHARACTERS LONG |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--|
| (0) | CHARACTER | 2 | FMHDSAMX (0) | MAX SSA SIZE - VARIABLE PARAM - 2 BYTES LONG |
| (0) | CHARACTER | 2 | FMHDIOMX (0) | MAX I/O AREA SIZE - VARIABLE PARAM - 2 BYTES LONG |
| (0) | CHARACTER | 2 | FMHDSSTC (0) | Status Codes- Variable parameter - 2 bytes long |
| (0) | CHARACTER | 8 | FMHDBORG (0) | Database Organisation -Variable param - 8 bytes long |
| (0) | CHARACTER | 8 | FMHDPBPN (0) | Real PCBNAME -Variable param - 8 bytes long |
| (0) | ..11 ..11 | | MAXLDVD | "LFMHDDVD+ 1+ L'FMHDDBDN+ 1+ L'FMHDSAMX+ 1+ L'FMHDIOMX+ 1+ L'FMHDS |
| GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR VIEW DESCRIPTOR | | | | |
| (3) | CHARACTER | 256 | FMHDPKEY (0) | THE FULLY CONCATENATED KEY FOR THIS OPERATION; 256 IS AN ARBITRARY RATHER RATHER THAN MAXIMUM VALUE |
| DLIDBS FUNCTION MANAGEMENT HEADER USED FOR DL/I SCHEDULE REQUESTS X'4002' GROUP AND FUNCTION | | | | |
| (3) |11. | | LF064002 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | FMHDPBPN (0) | PSB NAME - VARIABLE PARAM - FROM 1 TO 8 CHARACTERS LONG |
| (0) | 1111 | | MF064002 | "LF064002+ 1+ L'FMHDPBPN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE PSB FMH |
| DLIDBSR FUNCTION MANAGEMENT HEADER USED FOR DL/I SCHEDULE REPLIES X'4004' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | FMHDSRCS (0) | DL/I RETURN CODES |
| (6) | CHARACTER | 1 | FMHDSRC1 | DL/I RETURN CODE WITH BITS SET AS FOLLOWS |
| (6) | 1... | | FMHDNOPN | "X'80'" DATA BASE NOT OPEN |
| (6) | .1.. | | FMHDNFND | "X'40'" PSB NOT FOUND |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (6) | ..1. | | FMHDNACT | "X'20'" DL/I NOT ACTIVE |
| (6) | ...1 | | FMHDFAIL | "X'10'" PSB INITIALIZATION FAILED |
| (6) | 1... | | FMHDNAUT | "X'08'" UNAUTHORIZED ACCESS TO PSB |
| (6) |1.. | | FMHDCONF | "X'04'" INTENT SCHEDULE CONFLICT |
| (6) |1. | | FMHDIPCB | "X'02'" Invalid PCB Request E.G. IOPCB for Local PSB BIT6 RESERVED BIT7 RESERVED |
| (7) | CHARACTER | 1 | FMHDSRC2 | RESERVED |
| (7) | 1... | | LF064004 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIREPL FUNCTION MANAGEMENT HEADER USED FOR DL/I REPL REQUESTS X'4006' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | FMHDPCCI | THE INDEX FOR THIS PCB |
| (6) | 1... | | LF064006 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIISRT FUNCTION MANAGEMENT HEADER USED FOR DL/I ISRT REQUESTS X'4008' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | | see definition for FMHDPCCI |
| (6) | 1... | | LF064008 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIDLET FUNCTION MANAGEMENT HEADER USED FOR DL/I DLET REQUESTS X'400A' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | | see definition for FMHDPCCI |
| (6) | 1... | | LF06400A | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIGU FUNCTION MANAGEMENT HEADER USED FOR DL/I GU REQUESTS X'4010' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | | see definition for FMHDPCCI |
| (6) | 1... | | LF064010 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------|--|
| DLIGHU FUNCTION MANAGEMENT HEADER USED FOR DL/I GHU REQUESTS X'4012' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | | see definition for FMHDP CBI |
| (6) | 1... | | LF064012 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIGN FUNCTION MANAGEMENT HEADER USED FOR DL/I GN REQUESTS X'4014' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | | see definition for FMHDP CBI |
| (6) | 1... | | LF064014 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIGN FUNCTION MANAGEMENT HEADER USED FOR DL/I GHN REQUESTS X'4016' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | | see definition for FMHDP CBI |
| (6) | 1... | | LF064016 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIGNP FUNCTION MANAGEMENT HEADER USED FOR DL/I GNP REQUESTS X'4018' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | | see definition for FMHDP CBI |
| (6) | 1... | | LF064018 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIGNP FUNCTION MANAGEMENT HEADER USED FOR DL/I GHNP REQUESTS X'401A' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | | see definition for FMHDP CBI |
| (6) | 1... | | LF06401A | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIDBXFR FUNCTION MANAGEMENT HEADER USED FOR DL/I DATABASE REPLIES (SUCCESSFUL GET REQUESTS) X'401C' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | FMHDCRS (0) | DL/I RETURN CODES |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (6) | CHARACTER | 1 | FMHDRCD1 | DL/I RETURN CODE WITH BITS SET AS FOLLOWS |
| FMHDNOPN EQU X'80' DATA BASE NOT OPEN BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED | | | | |
| (6) | 1.. | | FMHDNVRQ | "X'04'" INVALID PCB INDEX BIT6 RESERVED BIT7 RESERVED |
| (7) | CHARACTER | 1 | FMHDRCD2 | RESERVED |
| (8) | CHARACTER | 2 | FMHDSEGL | SEGMENT LEVEL (BINARY) |
| (A) | CHARACTER | 2 | FMHDSTCD | STATUS CODES |
| (A) | 11.. | | LF06401C | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | FMHDSEGN (0) | THE SEGMENT NAME IS FROM ONE TO EIGHT CHARACTERS |
| (0) | ...1 .1.1 | | MF06401C | "LF06401C+ 1+ L'FMHDSEGN" GOOD UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE DLIDBXHR FMH |
| DLIDBSTS FUNCTION MANAGEMENT HEADER USED FOR DL/I DATABASE REPLIES (UN)SUCCESSFUL GET REQUESTS AND (UN)SUCCESSFUL REPL/ISRT/DELET REQUESTS) X'401E' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | (0) | see definition for FMHDRCDS |
| (6) | CHARACTER | 1 | | see definition for FMHDRCD1 |
| (7) | CHARACTER | 1 | | see definition for FMHDRCD2 |
| (8) | CHARACTER | 2 | | see definition for FMHDSEGL |
| (A) | CHARACTER | 2 | | see definition for FMHDSTCD |
| (A) | 11.. | | LF06401E | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | (0) | see definition for FMHDSEGN |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------|--|
| (0) | ...1 .1.1 | | MF06401E | "LF06401E+ 1+ L'FMHDSGN" GOOD UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE DLIDBSTS FMH |
| DLIDEQ FUNCTION MANAGEMENT HEADER USED FOR DL/I DEQ REQUESTS X'4020' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | | PCB index |
| (6) | 1... | | LF064020 | "*-DFHFMHDS" Length of fixed part |
| (8) | ADDRESS | 2 | | Length of view descriptor |
| (A) | BITSTRING | 1 | | I/O area type View descriptor |
| (B) | BITSTRING | 1 | | I/O area (1 byte) |
| (B) | 11.. | | MF064020 | "*-DFHFMHDS" Maximum length of this header |
| DLIDEQR FUNCTION MANAGEMENT HEADER USED FOR DL/I DEQ REPLIES X'4022' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | | FMHDCRDS |
| (8) | CHARACTER | 2 | FMHDESTC | DL/I Status Code |
| (8) | 1.1. | | LF064022 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIDBSI Function Management Header Used for DL/I Schedule requests with IOPCB X'4024' Group and Function | | | | |
| (6) | CHARACTER | 8 | FMHSIPSNM | PSB Name |
| (6) | 111. | | LF064024 | "*-DFHFMHDS" |
| (0) | CHARACTER | 2 | | FMHDLENG |
| (2) | CHARACTER | 1 | | FMHDTYPE |
| (3) | CHARACTER | 12 | FMHDPSC (0) | |
| (3) | CHARACTER | 8 | FMHDIOPC | |
| (C) | HALFWORD | 2 | FMHDNBA | |
| (E) | HALFWORD | 2 | FMHDOBA | |
| (E) | ...1 11.1 | | MF064024 | "LF064024+ 2+ 1+ L'FMHDPSC" |
| DLILOG Function Management Header User for DL/I LOG requests X'4026' Group and Function | | | | |
| (6) | CHARACTER | 2 | | PCB index |
| (6) | 1... | | LF064026 | "*-DFHFMHDS" |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---------------------------------|
| DLISTAT Function Management Header User for DL/I STAT requests X'4028' Group and Function | | | | |
| (6) | CHARACTER | 2 | | PCB index |
| (6) | 1... | | LF064028 | "*-DFHFMHDS" |
| (0) | CHARACTER | 2 | | FMHDLENG |
| (2) | CHARACTER | 1 | | FMHDTYPE |
| (3) | CHARACTER | 9 | FMHDPSTA (0) | |
| (3) | CHARACTER | 4 | FMHDSTTY | |
| (7) | CHARACTER | 1 | FMHDSTFO | |
| (8) | CHARACTER | 4 | FMHDSSTRE | |
| (8) | ...1 .1.. | | MF064028 | "LF064028+ 2+ 1+ L'FMHDPSTA" |
| DLIINIT Function Management Header User for DL/I INIT requests X'402A' Group and Function | | | | |
| (6) | CHARACTER | 2 | | PCB index |
| (6) | 1... | | LF06402A | "*-DFHFMHDS" |
| DLISETS Function Management Header User for DL/I SETS requests X'402C' Group and Function | | | | |
| (6) | CHARACTER | 2 | | PCB index |
| (6) | 1... | | LF06402C | "*-DFHFMHDS" |
| (0) | CHARACTER | 4 | FMHDPSTRT | |
| DLIROLS Function Management Header User for DL/I ROLS requests X'402E' Group and Function | | | | |
| (6) | CHARACTER | 2 | | PCB index |
| (6) | 1... | | LF06402E | "*-DFHFMHDS" |
| DLIPOS Function Management Header User for DL/I POS requests X'4030' Group and Function | | | | |
| (6) | CHARACTER | 2 | | PCB index |
| (6) | 1... | | LF064030 | "*-DFHFMHDS" |
| DLISSR Function Management Header User for DL/I System Service Reply X'4032' Group and Function | | | | |
| (6) | CHARACTER | 2 | | FMHDCRDS |
| (8) | CHARACTER | 2 | FMHDSSTCD | Status Code |
| (8) | 1.1. | | LF064032 | "*-DFHFMHDS" |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------|---------------------------------------|
| DLIINITR Function Management Header User for DL/I INIT Reply X'4034' Group and Function | | | | |
| (8) |11. | | LF064034 | "*-DFHFMHDS" |
| DLIICMD Function Management Header User for DL/I ICMD requests X'4036' Group and Function | | | | |
| (6) | CHARACTER | 2 | | PCB index (zero for ICMD, RCMD, GMSG) |
| (6) | 1... | | LF064036 | "*-DFHFMHDS" Length of fixed part |
| DLIAOIR Function Management Header User for DL/I ICMD, RCMD, GMSG Reply X'4038' Group and Function | | | | |
| (6) | CHARACTER | 2 | | FMHDCDS |
| (6) | 1... | | LF064038 | "*-DFHFMHDS" |
| DLIRCMD Function Management Header User for DL/I RCMD requests X'403A' Group and Function | | | | |
| (6) | CHARACTER | 2 | | PCB index (zero for ICMD, RCMD, GMSG) |
| (6) | 1... | | LF06403A | "*-DFHFMHDS" Length of fixed part |
| DLIGMSG Function Management Header User for DL/I GMSG requests X'403C' Group and Function | | | | |
| (6) | CHARACTER | 2 | | PCB index (zero for ICMD, RCMD, GMSG) |
| (6) | 1... | | LF06403C | "*-DFHFMHDS" Length of fixed part |
| DLIINQY Function Management Header User for DL/I INQY requests X'403E' Group and Function | | | | |
| (6) | CHARACTER | 2 | | PCB index (zero for INQY) |
| (6) | 1... | | LF06403E | "*-DFHFMHDS" Length of fixed part |
| TYPE 7 FUNCTION MANAGEMENT HEADERS | | | | |
| (6) | CHARACTER | 1 | FMHELOG (0) | LUTYPE 6.2 ERROR LOG |
| (6) | 1... | | FMHELOG1 | "X'80" GDS DATA VARIABLE |
| (6) | .... .... |  | FMHELOG0 | "X'00" NO GDS DATA VARIABLE |
| (6) | CHARACTER | 2 | FMHSMNUM | MESSAGE NUMBER |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|--------------|--|
| (6) | 1... | | LFMHSM | "*-DFHFMHDS" LENGTH OF ARCHITECTED T7 FMH |
| (8) | CHARACTER | 1 | FMHSMSTD (0) | END OF ARCHITECTED T7 FMH |
| (8) | CHARACTER | 4 | FMHSMCCD | CICS ABEND CODE |
| (C) | CHARACTER | 5 | FMHSMDCD | DL/I ABEND CODE |
| (C) | ...1 ...1 | | LFMHSMDL | "*-DFHFMHDS" LENGTH OF MM T7 FMH |
| TYPE 10 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF SYNCPOINT MANAGEMENT SYNCPOINT FUNCTION MANAGEMENT HEADER X'0202' GROUP AND FUNCTION | | | | |
| (C) |1. | | FMHPPGSY | "X'02'" SYNCH POINT GROUP |
| (C) |1. | | FMHPPPPR | "X'02'" PREPARE SUBGROUP |
| (4) | BITSTRING | 1 | FMHPPRSV1 | RESERVED '00' |
| (5) | BITSTRING | 1 | FMHPPPTYP | PREPARE TYPE |
| (5) | .... .... |  | FMHPPPTFL | "X'00'" PREPARE WITH KEEP FLOW |
| (5) |1 | | FMHPPTEB | "X'01'" PREPARE WITH REQUEST EB |
| (5) |1. | | FMHPPPCD | "X'02'" PREPARE WITH REQUEST CD |
| (5) |11. | | LF0A0202 | "*-DFHFMHDS" LENGTH |
| TYPE 12 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF BIND TIME SECURITY TRANSFORMED PASSWORD FUNCTION MANAGEMENT HEADER ---- GROUP AND FUNCTION NOT SUPPORTED | | | | |
| (2) | BITSTRING | 8 | FMHVTPW | TRANSFORMED PASSWORD |
| (2) | 1.1. | | LFFMHV | "*-DFHFMHDS" LENGTH |
| TYPE 43 FUNCTION MANAGEMENT HEADERS CICS PRIVATE HEADERS THE FUNCTION MANAGEMENT HEADER FOR A CICS REQUEST OR REPLY. SINCE THIS IS A PRIVATE FMH, THE DIRECTION OF TRANSMISSION DETERMINES WHETHER IT REPRESENTS A REQUEST OR A REPLY. | | | | |
| (2) |11. | | LFMHCICS | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 14 | FMHCOPTS (0) | FOR OUTBOUND REQUESTS - THE EXISTENCE AND TCA BITS FROM ARG0 |

Table 216. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------|--|
| (0) | CHARACTER | 9 | FMHCINVP (0) | For outbound DPL requests - the name of the invoking program |
| (0) | CHARACTER | 5 | FMH43_PC_CCSID (0) | |
| (0) | CHARACTER | 5 | FMH43_PC_NDIAN (0) | |
| (0) | CHARACTER | 7 | FMHCRCDE (0) | FOR INBOUND REPLIES - THE ERROR CODES FROM EIBRCODES |
| (0) | CHARACTER | 7 | FMHRESP (0) | FOR INBOUND REPLIES - RESPONSE/REASON ETC. |
| (0) | CHARACTER | 5 | FMHVRSN (0) | FOR INBOUND REPLIES - VERSION NUMBER OF REPLY FIELDS |
| (0) | CHARACTER | 3 | FMHFLGS (0) | FOR INBOUND REPLIES - FLAG BYTES |
| (0) | 1... | | FMH_TERMINATE_STRING | "X'80'" TERMINATE STRING INDICATOR |
| (0) | CHARACTER | 5 | FMHCTRRC (0) | FOR INBOUND REPLIES - THE TRANSACTION ROUTING RETURN CODE TO BE PASSED TO CPSM |
| THIS FMH IS FOLLOWED BY ZERO OR MORE DATA VARIABLES WHICH REPRESENT ARGUMENTS TO AN EXEC CICS COMMAND. NOT ALL ARGUMENTS WILL BE SENT AND FURTHERMORE THE VALUES TRANSMITTED WILL DEPEND ON THE FUNCTION AND DIRECTION OF TRANSMISSION. | | | | |
| (0) | CHARACTER | 2 | FMHCARGL | LENGTH OF PARAMETER; INCLUDES LENGTH AND ARGNO FIELDS |
| (2) | CHARACTER | 1 | FMHCARGN | ARGUMENT NUMBER; ARG3 IS REPRESENTED BY VALUE X'06' |
| (3) | CHARACTER | 256 | FMHCARGV (0) | THE ARGUMENT ITSELF; IT MAY BE, FOR EXAMPLE, A KEY |
| (3) | BITSTRING | 1 | FMHCACFL | Current App Ctxt Flags |
| (3) | 1... | | FMH_CUR_IS_INITIAL | "X'80'" Use initial ctxt as current |

FMI - Function and module identifiers

Constants

Table 217.

| Len | Type | Value | Name | Description |
|--|------|-------|----------|---------------------------------|
| MODULE NAME = DFHFMIPI MATCHING ASSEMBLER MODULE = DFHFMIPI DESCRIPTIVE NAME = CICS TS FUNCTION AND MODULE IDENTIFIERS Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1980, 2010 All names defined in DFHFMIPI form part of the Product-Sensitive Programming Interface. STATUS = 6.9.0 FUNCTION IDENTIFIERS X'20' PLUS X'8-' ...USE FOR AUTOMATIC JOURNALING X'40' PLUS X'8-' ...USE FOR AUTOMATIC LOGGING X'E0' thru X'FF' are reserved for Sync-Point logging (MUST BE PRESENT IN 'LOGGABLE' DWE'S) DFHFMIPI CONSTANTS JOURNAL CONTROL | | | | |
| 1 | HEX | 80 | FIDJCLAB | JOURNAL CONTROL LABEL |
| FILE CONTROL | | | | |
| 1 | HEX | 40 | FIDALOG | AUTOMATICALLY LOGGED |
| 1 | HEX | 20 | FIDAJRN | AUTOMATICALLY JOURNALLED |
| 1 | HEX | 10 | FIDMASS | MASSINSERT REQ (FIDFCWA ONLY) * |
| 1 | HEX | 80 | FIDFCRO | FILE CONTROL READ-ONLY |
| 1 | HEX | 81 | FIDFCRU | FILE CONTROL READ-UPDATE |
| 1 | HEX | 82 | FIDFCWU | FILE CONTROL WRITE-UPDATE |
| 1 | HEX | 83 | FIDFCWA | FILE CONTROL WRITE-ADD |
| 1 | HEX | 84 | FIDFCWAC | FILE CONTROL WRITE-ADD-COMP * |
| 1 | HEX | 86 | FIDFCWD | FILE CONTROL WRITE-DELETE * |
| 1 | HEX | 88 | FIDFCBOF | Backout Failed Log Record * |
| 1 | HEX | 8F | FIDFCDSN | Dsname record * |
| NOTE THAT FID VALUES (AS ABOVE) ARE OFTEN USED BOTH TO IDENTIFY THE FUNCTION OF THE DWE AND THE FUNCTION OF THE LOG RECORD. IN THE CASE OF THE FIDFC EQU'S ABOVE, THEY ARE USED FOR LOG RECORDS ONLY. SPECIAL FEATURES FUNCTION IDENTIFIERS | | | | |
| 1 | HEX | 80 | FIDPSOPC | CONTINUOUS LOGICAL SPOOLOPEN |

Table 217. (continued)

| Len | Type | Value | Name | Description |
|---------------------------------------|------|-------|----------|-------------------------------|
| 1 | HEX | 81 | FIDPSWRC | CONTINUOUS LOGICAL SPOOLWRITE |
| 1 | HEX | 82 | FIDPSCLC | CONTINUOUS LOGICAL SPOOLCLOSE |
| 1 | HEX | 83 | FIDPSOPS | STANDARD SPOOLOPEN |
| INTERVAL CONTROL FUNCTION IDENTIFIERS | | | | |
| 1 | HEX | 50 | FIDICPDF | INTERVAL CONTROL PUT, DEFER |
| 1 | HEX | 80 | FIDICRGT | RESTART GET. |
| 1 | HEX | 90 | FIDICCAN | COPY OF CANCELLED ICE |
| 1 | HEX | 08 | FIDICDB | CKOUT MASK |
| BMS FUNCTION IDENTIFIERS:- | | | | |
| 1 | HEX | 81 | FIDBMPM | BMS - PARTIAL MESSAGE ON |
| 1 | HEX | 82 | FIDBMODS | BMS - OPEN DATA SET ON |
| TERMINAL CONTROL FUNCTION IDENTIFIERS | | | | |
| 1 | HEX | F0 | FIDTCML | SYNC POINT - LOG SEQUENCE |
| 1 | HEX | 01 | FIDTCDWL | DEFERRED WRITE DATA |
| 1 | HEX | 02 | FIDTCFMH | FUNCTION MANAGEMENT |
| 1 | HEX | 04 | FIDTCDIP | DIP REQUEST |
| 1 | HEX | 08 | FIDTCDB | DYNAMIC BACKOUT MASK |
| 1 | HEX | 40 | FIDTCAL | AUTOMATIC LOGGING MASK |
| 1 | HEX | 20 | FIDTCAJ | AUTOMATIC JOURNALING MASK |
| 1 | HEX | 80 | FIDTCTL | SEQUENCE NUMBER ONLY |
| 1 | HEX | 81 | FIDTCIM | INPUT MESSAGE (LOG AND |
| 1 | HEX | 82 | FIDTCOM | OUTPUT MESSAGE (JOURNAL |
| 1 | HEX | 83 | FIDTCWP | WRITE WAS PURGED (LOG |
| 1 | HEX | 84 | FIDTCPRR | POSITIVE RESPONSE |
| 1 | HEX | 85 | FIDTCIMF | INPUT MESSAGE (W/FMH, |
| 1 | HEX | 86 | FIDTCOMN | OUTPUT MESSAGE, (W/O |
| 1 | HEX | 87 | FIDTCON | OUTPUT MESSAGE, FMH, |
| 1 | HEX | 88 | FIDTCONN | OUTPUT MESSAGE, W/O FMH, |
| 1 | HEX | 89 | FIDTCUA | INITIAL TCT USER AREA |

Table 217. (continued)

| Len | Type | Value | Name | Description |
|--|------|-------|----------|--------------------------------|
| 1 | HEX | 8A | FIDTCEIB | INITIAL EXEC COMM AREA |
| 1 | HEX | 8B | FIDTCIMN | IN MSG, NO FMH, DATA COMPLT * |
| 1 | HEX | 8C | FIDTCINN | IN MSG, NO FMH, DATA -COMPLT * |
| GENERAL PURPOSE SUBTASK FUNCTION IDENTIFIERS | | | | |
| 1 | HEX | 80 | FIDSKDF | DEFAULT FUNCTION CODE |
| Front-End Programming Interface FUNCTION IDENTIFIERS | | | | |
| 1 | HEX | F0 | FIDFEPIN | FEPI Inbound API<-FEPI |
| 1 | HEX | F1 | FIDFEPOU | FEPI Outbound API->FEPI |
| MODULE IDENTIFIERS (MAY BE X'01'-->X'FF'.) | | | | |
| 1 | HEX | 08 | MODIDIC | INTERVAL CONTROL |
| 1 | HEX | 10 | MODIDTC | TERMINAL CONTROL |
| 1 | HEX | 11 | MODIDFC | FILE CONTROL |
| 1 | HEX | 13 | MODIDTS | TEMPORARY STORAGE |
| 1 | HEX | 14 | MODIDFCJ | FILE CONTROL JOURNALLING * |
| 1 | HEX | 40 | MODIDBM | BASIC MAPPING |
| 1 | HEX | 45 | MODIDJC | JOURNAL CONTROL |
| 1 | HEX | 53 | MODIDPS | SPECIAL FEATURES |
| 1 | HEX | 5B | MODIDTMP | TABLE MANAGER |
| 1 | HEX | 5C | MODIDSKP | SUBTASK MANAGER |
| 1 | HEX | 5D | MODIDFEP | Front-End Prog Inter |
| 1 | HEX | FF | MODIDUSR | RESERVED FOR USER SYNC |

FRABC - File Request Anchor Block

Table 218.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------|--------------------|
| (0) | STRUCTURE | 312 | DFHFRAB | |
| Eye catcher | | | | |
| (0) | CHARACTER | 16 | FRAB_EYE_CATCHER | Eye catcher |
| (0) | UNSIGNED | 2 | FRAB_LENGTH | Length of FRAB |
| (2) | CHARACTER | 6 | FRAB_EYE1 | >DFHFC FC 'domain' |
| (8) | CHARACTER | 8 | FRAB_EYE2 | FRAB |
| Following storage is not reinitialise for each task | | | | |
| (10) | CHARACTER | 16 | * | |
| (10) | ADDRESS | 4 | FRAB_FREE_FLAB | Free FLAB |

Table 218. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------------|--|
| (14) | ADDRESS | 4 | FRAB_FREE_FRTE | Free FRTE |
| (18) | ADDRESS | 4 | * (4294967298:341913600) | Reserved |
| Main part of FRAB (initialised at start of task) | | | | |
| (20) | CHARACTER | 280 | FRAB_MAIN_PART | Main part of FRAB |
| (20) | CHARACTER | 4 | * | |
| (20) | CHARACTER | 4 | * | |
| (20) | ADDRESS | 4 | FRAB_NEXT_FRAB_ ADDRESS | -> next FRAB in FRAB chain |
| (20) | ADDRESS | 4 | FRAB_FREE_FRAB_ ADDRESS | Next FRAB in FC static free chain. |
| (24) | ADDRESS | 4 | FRAB_PREV_FRAB_ ADDRESS | Pointer to previous FRAB in FRAB chain |
| (28) | CHARACTER | 4 | * | |
| (28) | ADDRESS | 4 | FRAB_FLAB_CHAIN_ ADDRESS | -> FLAB chain for current tran |
| (2C) | CHARACTER | 4 | * | |
| (2C) | ADDRESS | 4 | FRAB_FLLB_CHAIN_ ADDRESS | -> FLLB chain for current tran |
| (30) | ADDRESS | 4 | FRAB_EXCL_VSWA | VSWA that suffered excl control conflict for this task. |
| (34) | CHARACTER | 4 | * | |
| (34) | ADDRESS | 4 | FRAB_TRANSACTION_ TOKEN | Current TCA |
| (38) | FULLWORD | 4 | FRAB_UPDATE_TOKEN | Current update token |
| Data tables section of FRAB | | | | |
| (3C) | ADDRESS | 4 | FRAB_DT_UOW_TOKEN | Data tables recovery token |
| Recovery-related section of FRAB | | | | |
| (40) | BIT(8) | 1 | FRAB_FLAGS | Assorted flags |
| (40) | 1... | | FRAB_REPLICATION_DONE | Replication log record since syncpoint |
| (40) | .1.. | | FRAB_NON_RLS_LOCKS_ HELD | NQ Manager DEQ is required |
| (40) | ..1. | | FRAB_HAS_LOCKS | FLLB lost locks chain is built |
| (40) | ...1 | | FRAB_UOWID_SET | UOW has been recorded in FRAB |
| (40) | 1... | | FRAB_PHASE_2_SYNC | UOW has been through ph2 of syncpoint |
| (40) |1.. | | FRAB_REQUEST_FORGET | Request_forget has been issued |
| (40) |1. | | FRAB_LONG_RUNNING | The XFCFRIN exit has intercepted the request and indicated that the mirror is to remain long running |
| (40) |1 | | FRAB_FORCE_PURGE_ ISSUED | FCFS issued purge |

Table 218. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------------|-----------|-----|----------------------------|---|
| (41) | CHARACTER | 1 | * | |
| (41) | CHARACTER | 1 | * | |
| (41) | BIT(8) | 1 | FRAB_RLS_LOCKS_HELD_FLAG | |
| (41) | 1... .. | | FRAB_RLS_LOCKS_HELD | IDALKREL is reqd |
| (42) | CHARACTER | 1 | * | |
| (42) | CHARACTER | 1 | * | |
| (42) | BIT(8) | 1 | FRAB_HAS_BEEN_SHUNTED_FLAG | |
| (42) | 1... .. | | FRAB_HAS_BEEN_SHUNTED | UOW was shunted at least once |
| (43) | CHARACTER | 1 | * | Reserved |
| (44) | ADDRESS | 4 | FRAB_FCUP_CHAIN_ADDRESS | Pointer to start of FCUP chain |
| RLS section of FRAB | | | | |
| (48) | UNSIGNED | 2 | FRAB_RLS_TIMEOUT | Timeout value |
| (4A) | UNSIGNED | 2 | FRAB_SERVER_SEQUENCE | Sequence number of server at time FRAB created. |
| (4C) | ADDRESS | 4 | FRAB_NEXT_RECOV_UPDT | -> frab |
| (50) | CHARACTER | 4 | FRAB_TRANNUM | Transaction # for deadlock/timeout pd |
| (54) | CHARACTER | 4 | FRAB_TRANID | Transaction id for deadlock/timeout pd |
| (58) | CHARACTER | 96 | * | |
| (58) | CHARACTER | 96 | FRAB_LUWID | RLS Luwid |
| (B8) | CHARACTER | 80 | FRAB_VSAM_WORKAREA | VSAM workarea |
| (B8) | FULLWORD | 4 | *(4294967316:341915600) | (20 words) |
| (108) | CHARACTER | 0 | * | Align to double word boundary |
| FRAB extension - multi-purpose | | | | |
| (108) | FULLWORD | 4 | FRAB_REQUEST_COUNT | req counter |
| (10C) | ADDRESS | 4 | FRAB_REP_LOG_TOKEN_P | replication |
| (110) | FULLWORD | 4 | *(4294967298:341915600) | future use |
| (118) | CHARACTER | 26 | FRAB_FCTBCCRL | curr repl log name |
| (132) | CHARACTER | 6 | * | future use |
| (138) | CHARACTER | 0 | * | Align to double word boundary |

MACRO NAME: IFGLUWID
 DESCRIPTION: Mapping the Logical Unit of Work ID Control Block
 STATUS: Version 1 DFSMS Release 3.0
 PROPRIETARY V3 STATEMENT
 LICENSED MATERIALS - PROPERTY OF IBM
 RESTRICTED MATERIALS OF IBM
 5695-DF1
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 END PROPRIETARY V3 STATEMENT

FUNCTION = Mapping Macro for Logical Unit of Work ID
INCLUDED MACROS = NONE
METHOD OF ACCESS = PL/X-370 OR ASSEMBLER

Table 219.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------------|-------------------------------|
| (0) | STRUCTURE | 96 | IFGLUWID | |
| (0) | CHARACTER | 16 | LUWIDHDR | |
| (0) | CHARACTER | 8 | LUWIDID | Eye Catcher - IFGLUWID |
| (8) | FULLWORD | 4 | LUWIDLEN | Control Block Length |
| (C) | UNSIGNED | 1 | LUWIDVER | Version Identifier |
| (D) | CHARACTER | 3 | * | Reserved |
| (10) | CHARACTER | 8 | LUWIDVAL | Logical Unit Of Work ID |
| (18) | CHARACTER | 36 | LUWIDPDI | deadlock/timeout problem |
| determination information | | | | |
| (18) | BIT(8) | 1 | LUWIDFL1 | first flag field |
| (18) | 1... | | LUWIDNDL | '1'= LUWID is not a preferred |
| deadlock victim | | | | |
| (19) | CHARACTER | 3 | * | reserved |
| (1C) | CHARACTER | 32 | LUWIDPD | Deadlock/time out problem |
| determination data area | | | | |
| (3C) | UNSIGNED | 4 | LUWIDWLM | WLM transaction token or 0 |
| The LUWID should be on a dblword boundary. In PL/X, if LIKE is used, LIKE must specify BDY(DWORD). To avoid potential problems with how the user gets the LUWID block, whether PL/X or ASM, VSAM will save result of TIMEUSED in a BDY(DWORD) internal field and then move to LUWIDCPU | | | | |
| (40) | CHARACTER | 8 | LUWIDCPU | Total CPU time used by the |
| current SRB up until TIMEUSED is issued. Time used by TCB is NOT included. (Field must be cleared by user before issuing a VSAM request. Field is not available until the VSAM request is complete. For SYN,RLSWAIT, field is available when control is returned from RLSWAIT exit. For ASY requests, field is available when CHECK completes. VSAM may not be able to set this field if Cancel or ABEND occurs, or TIMEUSED fails.) | | | | |
| (48) | ADDRESS | 4 | LUWIDSVA | Ptr to a 20-word BDY(DWORD) |
| user-provided area required for VSAM to use TIMEUSED | | | | |
| (4C) | FULLWORD | 4 | *(4294967301:341930184) | Reserved, unused |

Constants

Table 220.

| Len | Type | Value | Name | Description |
|-----------------|-----------|----------------------|----------|-------------|
| LUWID Constants | | | | |
| 8 | CHAR HEX | 00000000 00000000 | LUWIDNUL | Null LUWID |
| 8 | CHARACTER | IFGLUWID | LUWIDIDC | Eyecatcher |

Table 220. (continued)

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|----------------|
| 1 | DECIMAL | 1 | LUWIDVRC | Version Number |

FRTEC - File Request Thread Element

Table 221.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------------|--|
| (0) | STRUCTURE | 116 | DFHFRTE | |
| Eye catcher | | | | |
| (0) | CHARACTER | 16 | FRT_EYE_CATCHER | Eye catcher |
| (0) | HALFWORD | 2 | FRT_LENGTH | length of FRTE |
| (2) | CHARACTER | 6 | FRT_EYE1 | >DFHFC FC 'domain' |
| (8) | CHARACTER | 8 | FRT_EYE2 | FRTE |
| NOTE: frt_ifgluwid_pointer is NOT part of frt_main_part. This ensures that this field is not cleared when the FRTE is reused. The FRTE stays permanently attached the IFGLUWID area. | | | | |
| (10) | ADDRESS | 4 | FRT_IFGLUWID_POINTER | Address of IFGLUWID associated with this request thread. |
| Main part of FRTE FRT_MAIN_PART starts here - Do not move fields out of FRT_MAIN_PART - All fields in FRT_MAIN_PART are reset together | | | | |
| (14) | CHARACTER | 96 | FRT_MAIN_PART | Main part of FRTE |
| (14) | CHARACTER | 4 | * | |
| (14) | CHARACTER | 4 | * | |
| (14) | ADDRESS | 4 | FRT_NEXT_FRTE_ADDRESS | -> next FRTE in chain for current file. |
| (14) | ADDRESS | 4 | FRT_FREE_FRTE_ADDRESS | Next FRTE in FC static storage free chain. |
| (18) | ADDRESS | 4 | FRT_FLAB_ADDRESS | Address of FLAB that owns this FRTE. |
| (1C) | CHARACTER | 1 | * | |
| (1C) | CHARACTER | 1 | FRT_FUNCTION | Function byte see CONSTANT defs |
| (1D) | BIT(8) | 1 | FRT_FLAGS | FRTE flag byte |
| (1D) | 1... | | * | |
| (1D) | .1.. | | FRT_INITIAL_LOAD | Initial loading lock held. |
| (1D) | ..1. | | FRT_USE_FCDT | Call FCDT if a CMT |
| (1D) | ...1 | | FRT_BACKOUT | Backing out |
| (1D) | 1.. | | FRT_CONTINUATION | This request continues a previous one |
| (1D) |1.. | | * | |
| (1D) |1. | | FRT_UMT_LOCK_HELD | UMT record lock held for frt_key_copy |

Table 221. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------------------|--|
| (1D) |1 | | FRT_GENERIC_BROWSE | Generic browse |
| (1E) | UNSIGNED | 2 | FRT_REQID | Browse request ident. |
| (20) | ADDRESS | 4 | FRT_DATA_BUFFER | Temporary area to read record into |
| (24) | UNSIGNED | 4 | FRT_DATA_BUFFER_LENGTH | Length of temporary area |
| (28) | ADDRESS | 4 | FRT_UPDATE_TOKEN | TOKEN for read update |
| This section of the FRTE describes the work area (VSWA or FIOA) | | | | |
| (2C) | ADDRESS | 4 | FRT_WORK_AREA_ADDRESS | Address of work area i.e. VSWA or FIOA |
| (30) | UNSIGNED | 4 | FRT_WORK_AREA_LENGTH | Work area length |
| (34) | CHARACTER | 8 | FRT_WORK_AREA_SUBPOOL | Work area subpool |
| This section of the FRTE describes SET storage | | | | |
| (3C) | CHARACTER | 8 | FRT_SET_CONTROL | Set storage control area. |
| This section of the FRTE is used by data tables | | | | |
| (44) | ADDRESS | 4 | FRT_KEY_COPY | Key copy area |
| (48) | CHARACTER | 12 | FRT_DT_RECORD_TOKEN | Table record token |
| (48) | ADDRESS | 4 | FRT_FBWA_ADDRESS | Table browse area |
| (54) | ADDRESS | 4 | FRT_CF_CONNECTION_TOKEN | CFDT pool connect token |
| (58) | FULLWORD | 4 | FRT_CF_INSTANCE_NUMBER | CFDT server instance number |
| This section of the FRTE is temporary and will be removed later | | | | |
| (5C) | ADDRESS | 4 | FRT_BCB_ADDRESS | Base Cluster Block addr |
| This section of the FRTE is used by the log and journal program | | | | |
| (60) | ADDRESS | 4 | FRT_FORCE_TOKEN | Token returned from RMRE APPEND & supplied to RMRE FORCE |
| This section of the FRTE is used by RLS. | | | | |
| (64) | FULLWORD | 4 | FRT_WRMI_COUNT | no. of massinsert requests to recoverable ESDS. |
| (68) | CHARACTER | 8 | FRT_WRMI_START_TIME | Time of first massinsert to recoverable ESDS. |
| This section of the FRTE is flags for general use | | | | |
| (70) | BIT(8) | 1 | * | Reserved |
| (70) | CHARACTER | 1 | * | |
| (70) | BIT(8) | 1 | FRT_PRIVILEGED_FLAG | |
| (70) | 1... | | FRT_PRIVILEGED | Privileged req |
| (71) | BIT(8) | 1 | * | Reserved |
| (71) | CHARACTER | 1 | * | |
| (71) | BIT(8) | 1 | FRT_ACCMETH_MODULE_ACTIVE_FLAG | |
| (71) | 1... | | FRT_ACCMETH_MODULE_ACTIVE | access method dependent module is active |

Table 221. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--------|-----|------------|-------------|
| (72) | BIT(8) | 1 | * | Reserved |
| (73) | BIT(8) | 1 | * | Reserved |

Constants

Table 222.

| Len | Type | Value | Name | Description |
|----------------------------|---------|-------|------------------|--------------|
| Constants for FRT_FUNCTION | | | | |
| 1 | DECIMAL | 1 | FRT_READ | Read |
| 1 | DECIMAL | 3 | FRT_READ_UPDATE | Read_Update |
| 1 | DECIMAL | 5 | FRT_WRITE | Write |
| 1 | DECIMAL | 8 | FRT_DELETE | Delete |
| 1 | DECIMAL | 10 | FRT_START_BROWSE | Start Browse |

ICE - Interval Control Element

CONTROL BLOCK NAME = DFHICEDS

DESCRIPTIVE NAME = CICS TS Interval Control Element (ICE)

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5655-Y04

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FUNCTION =

An ICE is created for each time-dependent request received by the interval control program. These ICEs are logically chained from CSAICEBA in the CSA in expiration time-of-day sequence.

LIFETIME =

Expiration of a time-ordered request is detected by the expired request logic of the interval control program running as a CICS system task. The type of service represented by the expired ICE is initiated, if all resources required for the service are available, and the ICE is removed from the chain. If the resources are not available, the ICE remains on the chain and another attempt to initiate the request service is made the next time the expiry logic runs.

STORAGE CLASS =

LOCATION =

INNER CONTROL BLOCKS =

NOTES :

DEPENDENCIES = S/370

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

DATA AREAS =

CONTROL BLOCKS =

GLOBAL VARIABLES (Macro pass) =

The following fields form part of the product sensitive programming interface:

ICECHNAD ICERQID ICETRMID ICETRNID ICEXTOD (Marked #)

Table 223.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------|
| (0) | STRUCTURE | 172 | DFHICEDS | ICE control block |

Table 223. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|---|
| (0) | CHARACTER | 16 | ICEPRFX | ICE prefix |
| (0) | UNSIGNED | 2 | ICELEN | ICE length |
| (2) | CHARACTER | 6 | ICEBLKID | Eye-catcher ('>DFHAP') |
| (8) | CHARACTER | 8 | ICEBLKNM | Control block name ('ICE') |
| (10) | CHARACTER | 8 | ICEBODY | ICE body |
| (10) | ADDRESS | 4 | ICECHNAD | #ICE chain address |
| (14) | ADDRESS | 4 | ICETECAA | Timer event area address |
| (18) | ADDRESS | 4 | ICETCAAD | TCA address |
| (18) | CHARACTER | 4 | ICETRMID | #Symbolic terminal id |
| (1C) | CHARACTER | 4 | ICETRNIID | #Transaction identification |
| (20) | ADDRESS | 4 | ICE_ICUS_PTR | ICE Security Extension |
| (24) | CHARACTER | 9 | * | Reserved |
| (2D) | CHARACTER | 1 | ICETYPE | Type of ICE |
| (2E) | BIT(8) | 1 | ICESTATI | ICE status indicator |
| (2E) | 1... | | ICESTNRL | Expired normally |
| (2E) | .1.. | | ICE_BEING_PROCESSED | Being processed |
| (2E) | ..1. | | ICESTXTE | Expired on entry |
| (2E) | ...1 | | ICESTCNL | Cancelled by other task |
| (2E) | 1... | | ICESTXTM | Expiration time |
| (2E) |1.. | | ICESTRES | Awaiting DS resume |
| (2E) |1. | | * | Reserved |
| (2E) |1 | | ICESTCHN | On chain |
| (2F) | CHARACTER | 1 | ICERQCLS | Request identification |
| (30) | UNSIGNED | 4 | ICE_UNIQUE_ID | Number used to construct unique request id. |
| (30) | CHARACTER | 4 | ICEXTOD | #Exp'n time of day |
| (34) | CHARACTER | 8 | ICERQID | #Request identification |
| (3C) | CHARACTER | 8 | ICENETSY | Netname/sysid from XICTFNF exit |
| (44) | CHARACTER | 8 | ICEMODEN | Mode name |
| (4C) | CHARACTER | 1 | ICETR | Transaction routing indicator |
| (4D) | CHARACTER | 1 | ICEFS | Function shipping indicator |
| (4E) | BIT(8) | 1 | ICEFLAGS | Flags |
| (4E) | 1... | | ICESZ | Startcode SZ for FEPI |
| (4E) | .1.. | | * | Reserved |
| (4E) | ..1. | | * | Reserved |
| (4E) | ...1 | | ICEDYNTR | Transaction dynamic |
| (4E) | 1... | | * | Reserved |
| (4E) |1.. | | ICE_DATA_RECOVERABLE | ICE is associated with a recoverable TS queue |

Table 223. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|---|
| (4E) |1. | | ICE_ZERO_INTERVAL | Originating request specified an INTERVAL of zero |
| (4E) |1 | | ICE_PROTECTED | START was protected |
| (4F) | BIT(8) | 1 | ICEFLAG2 | Flags |
| (4F) | 1... | | ICERTST | Routable START |
| (4F) | .1.. | | ICE_TRACK_OVERRIDE_NO | Tracking data for user task not required |
| (4F) | ..1. | | ICE_TRACK_OVERRIDE_YES | Tracking data for system task is required |
| (4F) | ...1 | | ICE_TG_ACD_IS_CAC | Initial ctx = current |
| (4F) | 1111 | | * | Reserved |
| (50) | CHARACTER | 4 | ICECURTR | Current terminal id |
| (54) | CHARACTER | 12 | ICE_QUALIFIED_EXPIRY_TIME | Expiry time and expiry time qualifier |
| (54) | CHARACTER | 8 | ICE_EXPIRY_TIMES | Absolute expiry times |
| (54) | CHARACTER | 8 | ICE_EXPIRY_STCK | STCK expiry time for an interval ICE |
| (54) | CHARACTER | 8 | ICE_EXPIRY_DT | Date and time of expiry for time ICE |
| (54) | CHARACTER | 4 | ICE_EXPIRY_DATE | ccyyddd+ expiry date for time ICE |
| (58) | CHARACTER | 4 | ICE_EXPIRY_TIME | Timer unit (1/300sec) expiry TOD for time ICE |
| (5C) | CHARACTER | 4 | ICETIMST | Expiry time qualifier |
| (60) | HALFWORD | 2 | ICE_START_DATA_LEN | Length of data |
| (62) | CHARACTER | 2 | * | Reserved |
| (64) | CHARACTER | 8 | ICE_CREATION_TIME | Creation time STCK value |
| (6C) | CHARACTER | 8 | ICE_TERMINAL_NETNAME | Netname of terminal |
| (74) | CHARACTER | 4 | ICESHSYS | Shipped via sysid |
| (78) | CHARACTER | 8 | ICE_TOR_NETNAME | Netname of TOR |
| (80) | ADDRESS | 4 | ICE_ROUTER_COMM_ADDR | Address of commarea for dynamic routing program |
| (84) | HALFWORD | 2 | ICE_ROUTER_COMM_LEN | Length of DYP commarea |
| (86) | CHARACTER | 4 | ICEDFTRN | Transaction id for deferred dynamic start request |
| (8A) | CHARACTER | 8 | ICEDSRP | Router program name - stored here for ICXM processing to reduce SHRTM calls |
| (92) | CHARACTER | 2 | * | RESERVED |
| (94) | UNSIGNED | 4 | ICE_CHANNEL_TOKEN | Channel token for started task |
| (98) | ADDRESS | 4 | ICE_CORRELATOR_ADDR | Address of EWLM correlator |

Table 223. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---------------------|
| (9C) | ADDRESS | 4 | ICE_TG_ODR_ADDR | A(TGRPID & ODR) |
| (A0) | ADDRESS | 4 | ICE_ADAPTER_ADDR | Addr adapter fields |
| (A4) | ADDRESS | 4 | ICE_TG_ACD_ADDR | A(ACD) initial |
| (A8) | ADDRESS | 4 | ICE_TG_CAC_ADDR | A(ACD) current |
| (AC) | CHARACTER | 0 | * | end of ICE |

Constants

Table 224.

| Len | Type | Value | Name | Description |
|--|---------|-------|-----------------|-------------------------|
| Length of the ICE control block | | | | |
| 4 | DECIMAL | 172 | ICEAD | ICE length |
| Possible values of ICETYPE | | | | |
| 1 | HEX | 20 | ICEWTM | |
| 1 | HEX | 30 | ICEPST | |
| 1 | HEX | 40 | ICEINT | |
| 1 | HEX | 50 | ICEPUT | |
| Values used in DFHIC get wait requests | | | | |
| 1 | DECIMAL | 0 | ICE_GW_DATA | Resumed due to new data |
| 1 | DECIMAL | 4 | ICE_GW_SHUTDOWN | Resumed due to shutdown |

ICUE - Interval Control EXEC Parameter List

CONTROL BLOCK NAME = DFHICUEC
DESCRIPTIVE NAME = CICS TS EXEC argument list for Interval
Control user exits.
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Although provided in a general library, DFHICUED is not
to be used as a general programming interface. Refer to
product documentation to determine intended usage.
The following fields are part of the Product-sensitive
Programming Interface.

- IC_ADDR0
- IC_ADDR1
- IC_ADDR2
- IC_ADDR3
- IC_ADDR4
- IC_ADDR5
- IC_ADDR6
- IC_ADDR7
- IC_ADDR8
- IC_ADDR9
- IC_ADDRA
- IC_ADDRB
- IC_ADDRD
- IC_ADDRE
- IC_ADDRF
- IC_ADDR10

IC_ADDR11
 IC_ADDR12
 IC_ADDR13
 IC_ADDR14
 IC_ADDR15
 IC_ADDR16
 IC_ADDR17
 IC_ADDR1D
 IC_ADDR1E
 IC_ADDR1F
 IC_GROUP
 IC_FUNCT
 IC_BITS1
 IC_BITS2
 IC_BITS3
 IC_EIDOPT5
 IC_EIDOPT6
 IC_EIDOPT7
 IC_EIDOPT8
 IC_INTERVAL
 IC_START_INTERVAL
 IC_DELAY_INTERVAL
 IC_POST_INTERVAL
 IC_TIME
 IC_START_TIME
 IC_DELAY_TIME
 IC_POST_TIME
 IC_CANCEL_REQID
 IC_RETRIEVE_INT0
 IC_RETRIEVE_SET
 IC_REQID
 IC_DELAY_REQID
 IC_POST_REQID
 IC_START_REQID
 IC_RETRIEVE_LENGTH
 IC_POST_SET
 IC_TRANSID
 IC_CANCEL_TRANSID
 IC_START_TRANSID
 IC_START_FROM
 IC_START_LENGTH
 IC_START_TERMID
 IC_SYSID
 IC_START_SYSID
 IC_CANCEL_SYSID
 IC_RTRANSID
 IC_START_RTRANSID
 IC_RETRIEVE_RTRANSID
 IC_RTERMID
 IC_START_RTERMID
 IC_RETRIEVE_RTERMID
 IC_QUEUE
 IC_START_QUEUE
 IC_RETRIEVE_QUEUE
 IC_HOURS
 IC_DELAY_HOURS
 IC_POST_HOURS
 IC_START_HOURS
 IC_MINUTES
 IC_DELAY_MINUTES
 IC_POST_MINUTES
 IC_START_MINUTES
 IC_SECONDS
 IC_DELAY_SECONDS
 IC_POST_SECONDS
 IC_START_SECONDS
 IC_START_USERID

```

IC_START_SYSNET
IC_ASKTIME_ABSTIME
IC_FORMATTIME_ABSTIME
IC_FORMATTIME_YYDDD
IC_FORMATTIME_YYMDD
IC_FORMATTIME_YYDDMM
IC_FORMATTIME_DMMYY
IC_FORMATTIME_MMDDYY
IC_FORMATTIME_DATE
IC_FORMATTIME_DATEFORM
IC_FORMATTIME_DATESEP
IC_FORMATTIME_DAYCOUNT
IC_FORMATTIME_DAYOFWEEK
IC_FORMATTIME_DAYOFMONTH
IC_FORMATTIME_MONTHOFYEAR
IC_FORMATTIME_YEAR
IC_FORMATTIME_TIME
IC_FORMATTIME_TIMESEP
IC_FORMATTIME_YYYYDDD
IC_FORMATTIME_YYYYMDD
IC_FORMATTIME_YYYYDDMM
IC_FORMATTIME_DMMYYYY
IC_FORMATTIME_MMDDYYYY
IC_FORMATTIME_FULLDATE

```

All equates for values of EIBRCODE, EIBRESP and EIBRESP2 form part of the General-purpose Programming Interface. All remaining fields used in defining the Exec Parameter List are product sensitive and may vary between CICS releases.

FUNCTION =

To define the EXEC parameter list for Interval Control requests, for use by global user exit programs at exit points XICEREQ and XICEREQC.

On entry to the XICEREQ and XICEREQC User Exits, the EXEC parameter list is pointed to by UEPCPLPS.

The EXEC parameter list for Interval Control consists of thirty one addresses.

The thirty two addresses are defined by

IC_ADDR0 to IC_ADDR1F.

This DSECT defines IC_ADDR0 to IC_ADDR1F and the areas that they point to.

On entry to the XICEREQ and XICEREQC User Exits, the copy of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP is pointed to by UEPRESP and the copy of EIBRESP2 is pointed to by UEPRESP2.

This DSECT also contains equates for values of EIBRCODE, EIBRESP and EIBRESP2 used by Interval Control.

LIFETIME = Lifetime of the IC command request

STORAGE CLASS = As the storage being mapped is the translated source in the user's application program, the storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCPLPS.

(2) Fields copied from the EIB are addressed by UEPRCODE, UEPRESP and UEPRESP2.

(3) The token for use in communicating between XICEREQ and XICEREQC is addressed by UEPIC TOK.

INNER CONTROL BLOCKS =

IC_ADDR_LIST declares the EXEC addresses.

IC_EID defines the EID pointed to by IC_ADDR0.

NOTES :

DEPENDENCIES = S/370 ESA

RESTRICTIONS = None

MODULE TYPE = Control Block definition

EXTERNAL REFERENCES =

None.

DATA AREAS =

None.
CONTROL BLOCKS =
None.
GLOBAL VARIABLES (Macro pass) =
None.

The command parameter list is a list of addresses which reference the various elements of the EXEC CICS command. The addresses are only valid if the element is applicable to this command. The existence bits in the EID component (IC_BITS1) specify those addresses that are valid, and the flagword bits (IC_EIDOPT5 - IC_EIDOPT8) specify the keywords that were given in the EXEC CICS command.

Table 225.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|----------------------------------|
| (0) | STRUCTURE | 128 | IC_ADDR_LIST | Addresses of... |
| (0) | ADDRESS | 4 | IC_ADDR0 | the EID |
| (4) | ADDRESS | 4 | IC_ADDR1 | TIME or INTERVAL value |
| (DELAY, POST or START) SET address (RETRIEVE) REQID value (CANCEL) ABSTIME value (FORMATTIME, ASKTIME) | | | | |
| (8) | ADDRESS | 4 | IC_ADDR2 | REQID value |
| (DELAY, POST or START) LENGTH value (RETRIEVE) YYDDD value (FORMATTIME) | | | | |
| (C) | ADDRESS | 4 | IC_ADDR3 | TRANSID value (START, CANCEL) |
| SET address (POST) YYMDD value (FORMATTIME) | | | | |
| (10) | ADDRESS | 4 | IC_ADDR4 | FROM address (START) |
| YYDDMM value (FORMATTIME) | | | | |
| (14) | ADDRESS | 4 | IC_ADDR5 | LENGTH value (START) |
| DDMMYY value (FORMATTIME) | | | | |
| (18) | ADDRESS | 4 | IC_ADDR6 | TERMID value (START) |
| MMDDYY value (FORMATTIME) | | | | |
| (1C) | ADDRESS | 4 | IC_ADDR7 | SYSID value (START, CANCEL) |
| DATE value (FORMATTIME) | | | | |
| (20) | ADDRESS | 4 | IC_ADDR8 | RTRANSID value |
| (START or RETRIEVE) DATEFORM value (FORMATTIME) | | | | |
| (24) | ADDRESS | 4 | IC_ADDR9 | RTERMID value |

Table 225. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|---|------------------------|
| | | | (START or RETRIEVE) DATESEP value (FORMATTIME) | |
| (28) | ADDRESS | 4 | IC_ADDRA | QUEUE value |
| | | | (START or RETRIEVE) DAYCOUNT value (FORMATTIME) | |
| (2C) | ADDRESS | 4 | IC_ADDRB | HOURS value |
| | | | (DELAY, POST or START) DAYOFWEEK value (FORMATTIME) | |
| (30) | ADDRESS | 4 | IC_ADDRC | MINUTES value |
| | | | (DELAY, POST or START) DAYOFMONTH value (FORMATTIME) | |
| (34) | ADDRESS | 4 | IC_ADDRD | SECONDS value |
| | | | (DELAY, POST or START) MONTHOFYEAR value (FORMATTIME) | |
| (38) | ADDRESS | 4 | IC_ADDRE | USERID value (START) |
| | | | YEAR value (FORMATTIME) | |
| (3C) | ADDRESS | 4 | IC_ADDRF | System netname |
| | | | TIME value (FORMATTIME) | |
| (40) | ADDRESS | 4 | IC_ADDR10 | BREXIT value (START) |
| | | | TIMESEP value (FORMATTIME) | |
| (44) | ADDRESS | 4 | IC_ADDR11 | YYYYDDD value |
| | | | (FORMATTIME) | |
| (48) | ADDRESS | 4 | IC_ADDR12 | YYYYMMDD value |
| | | | (FORMATTIME) | |
| (4C) | ADDRESS | 4 | IC_ADDR13 | YYYYDDMM value |
| | | | (FORMATTIME) | |
| (50) | ADDRESS | 4 | IC_ADDR14 | DDMMYYYY value |
| | | | (FORMATTIME) | |
| (54) | ADDRESS | 4 | IC_ADDR15 | MMDDYYYY value |
| | | | (FORMATTIME) | |
| (58) | ADDRESS | 4 | IC_ADDR16 | FULLDATE value |
| | | | (FORMATTIME) | |
| (5C) | ADDRESS | 4 | IC_ADDR17 | EWLM correaltor |
| | | | (START - internal only) | |
| (60) | ADDRESS | 4 | * (4294967301:341913848) | Addresses 24-28 |
| (74) | ADDRESS | 4 | IC_ADDR1D | BRDATA address (START) |

Table 225. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|------------|----------------------------|
| (78) | ADDRESS | 4 | IC_ADDR1E | BRDATALENGTH value (START) |
| (7C) | ADDRESS | 4 | IC_ADDR1F | CHANNEL name (START) |

IC_EID (addressed by IC_ADDR0) gives the request type, and uses bits to identify those keywords that are valid and/or have been explicitly stated in the EXEC CICS command being processed.
Note: Equates for IC_GROUP, IC_FUNCT, EIBRCODE, EIBRESP and EIBRESP2 values are defined at the end of this data structure.

Table 226.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------------|--------------------------|
| (0) | STRUCTURE | 9 | IC_EID | |
| (0) | CHARACTER | 1 | IC_GROUP | X'10' = Interval Control |
| X'4A' = ASKTIME or FORMATTIME | | | | |
| (1) | CHARACTER | 1 | IC_FUNCT | If IC_GROUP = X'10' |
| X'02' = Asktime X'04' = Delay X'06' = Post X'08' = Start X'0A' = Retrieve X'0C' = Cancel If IC_GROUP = X'4A' X'02' = ASKTIME X'04' = FORMATTIME ----- The existence bits specify the parameters that are valid for this command. For example, IC_EXIST7 set on indicates that IC_ADDR7 is valid, meaning that it addresses a SYSID value. IC_ADDR0 is always valid and has no existence bit. ----- | | | | |
| (2) | BIT(8) | 1 | IC_BITS1 | |
| ----- IC_EXIST1 is set if IC_ADDR1 is valid. IC_EXIST1 is always set on DELAY, POST, RETRIEVE and CANCEL commands, or on a CANCEL command which specifies REQID. IC_EXIST1 may only be modified by a user exit program invoked for a CANCEL command. ----- | | | | |
| (2) | 1... .. | | IC_EXIST1 | |
| (2) | 1... .. | | IC_TIME_INTERVAL_V | |
| (2) | 1... .. | | IC_DELAY_TIME_INTERVAL_V | |
| (2) | 1... .. | | IC_POST_TIME_INTERVAL_V | |
| (2) | 1... .. | | IC_START_TIME_INTERVAL_V | |
| (2) | 1... .. | | IC_RETRIEVE_SET_INTO_V | |
| (2) | 1... .. | | IC_CANCEL_REQID_V | |

Table 226. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------|-------------|
| ----- IC_EXIST2 is set if IC_ADDR2 is valid. IC_EXIST2 is always set on RETRIEVE commands, or if REQID is specified on a DELAY, POST or START command. IC_EXIST2 may only be modified by a user exit program invoked for a DELAY, POST or START command. ----- | | | | |
| (2) | .1.. | | IC_EXIST2 | |
| (2) | .1.. | | IC_REQID_V | |
| (2) | .1.. | | IC_DELAY_REQID_V | |
| (2) | .1.. | | IC_POST_REQID_V | |
| (2) | .1.. | | IC_START_REQID_V | |
| (2) | .1.. | | IC_RETRIEVE_LENGTH_V | |
| ----- IC_EXIST3 is set if IC_ADDR3 is valid. IC_EXIST3 is always set on START and POST commands, or if TRANSID is specified on a CANCEL command. IC_EXIST3 may only be modified by a user exit program invoked for a CANCEL command. ----- | | | | |
| (2) | ..1. | | IC_EXIST3 | |
| (2) | ..1. | | IC_TRANSID_V | |
| (2) | ..1. | | IC_CANCEL_TRANSID_V | |
| (2) | ..1. | | IC_START_TRANSID_V | |
| (2) | ..1. | | IC_POST_SET_V | |
| ----- IC_EXIST4 is set if IC_ADDR4 is valid. IC_EXIST4 is set if a START command specifies FROM. IC_EXIST4 may only be modified by a user exit program invoked for a START command. ----- | | | | |
| (2) | ...1 | | IC_EXIST4 | |
| (2) | ...1 | | IC_START_FROM_V | |
| ----- IC_EXIST5 is set if IC_ADDR5 is valid. IC_EXIST5 is set if a START command specifies LENGTH IC_EXIST5 may only be modified by a user exit program invoked for a START command. ----- | | | | |
| (2) | 1... | | IC_EXIST5 | |
| (2) | 1... | | IC_START_LENGTH_V | |
| ----- IC_EXIST6 is set if IC_ADDR6 is valid. IC_EXIST6 is set if a START command specifies TERMID IC_EXIST6 may only be modified by a user exit program invoked for a START command. ----- | | | | |
| (2) |1.. | | IC_EXIST6 | |
| (2) |1.. | | IC_START_TERMID_V | |

Table 226. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------------|-------------|
| ----- IC_EXIST7 is set if IC_ADDR7 is valid. IC_EXIST7 is set if a START or CANCEL command specifies SYSID. IC_EXIST7 may only be modified by a user exit program invoked for a START or CANCEL command. ----- | | | | |
| (2) |1. | | IC_EXIST7 | |
| (2) |1. | | IC_SYSID_V | |
| (2) |1. | | IC_CANCEL_SYSID_V | |
| (2) |1. | | IC_START_SYSID_V | |
| ----- IC_EXIST8 is set if IC_ADDR8 is valid. IC_EXIST8 is set if a START or RETRIEVE command specifies RTRANSID. IC_EXIST8 may only be modified by a user exit program invoked for a START or RETRIEVE command. ----- | | | | |
| (2) |1 | | IC_EXIST8 | |
| (2) |1 | | IC_RTRANSID_V | |
| (2) |1 | | IC_START_RTRANSID_V | |
| (2) |1 | | IC_RETRIEVE_RTRANSID_V | |
| IC_BITS2 defines existence bits for keywords containing values. | | | | |
| (3) | BIT(8) | 1 | IC_BITS2 | |
| ----- IC_EXIST9 is set if IC_ADDR9 is valid. IC_EXIST9 is set if a START or RETRIEVE command specifies RTERMID. IC_EXIST9 is set if a FORMATTIME command specifies DATESEP. IC_EXIST9 may only be modified by a user exit program invoked for a START or RETRIEVE command. ----- | | | | |
| (3) | 1... | | IC_EXIST9 | |
| (3) | 1... | | IC_RTERMID_V | |
| (3) | 1... | | IC_START_RTERMID_V | |
| (3) | 1... | | IC_RETRIEVE_RTERMID_V | |
| (3) | 1... | | IC_FORMATTIME_DATESEP_V | |
| ----- IC_EXISTA is set if IC_ADDRA is valid. IC_EXISTA is set if a START or RETRIEVE command specifies QUEUE. IC_EXISTA may only be modified by a user exit program invoked for a START or RETRIEVE command. ----- | | | | |
| (3) | .1.. | | IC_EXISTA | |
| (3) | .1.. | | IC_QUEUE_V | |
| (3) | .1.. | | IC_START_QUEUE_V | |
| (3) | .1.. | | IC_RETRIEVE_QUEUE_V | |

Table 226. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------|-------------|
| ----- IC_EXISTB is set if IC_ADDRB is valid. IC_EXISTB is set if a DELAY, POST or START command specifies HOURS. IC_EXISTB may only be modified by a user exit program invoked for a DELAY, POST or START command. ----- | | | | |
| (3) | ..1. | | IC_EXISTB | |
| (3) | ..1. | | IC_HOURS_V | |
| (3) | ..1. | | IC_DELAY_HOURS_V | |
| (3) | ..1. | | IC_POST_HOURS_V | |
| (3) | ..1. | | IC_START_HOURS_V | |
| ----- IC_EXISTC is set if IC_ADDRD is valid. IC_EXISTC is set if a DELAY, POST or START command specifies MINUTES. IC_EXISTC may only be modified by a user exit program invoked for a DELAY, POST or START command. ----- | | | | |
| (3) | ...1 | | IC_EXISTC | |
| (3) | ...1 | | IC_MINUTES_V | |
| (3) | ...1 | | IC_DELAY_MINUTES_V | |
| (3) | ...1 | | IC_POST_MINUTES_V | |
| (3) | ...1 | | IC_START_MINUTES_V | |
| ----- IC_EXISTD is set if IC_ADDRD is valid. IC_EXISTD is set if a DELAY, POST or START command specifies SECONDS. IC_EXISTD may only be modified by a user exit program invoked for a DELAY, POST or START command. ----- | | | | |
| (3) | 1... | | IC_EXISTD | |
| (3) | 1... | | IC_SECONDS_V | |
| (3) | 1... | | IC_DELAY_SECONDS_V | |
| (3) | 1... | | IC_POST_SECONDS_V | |
| (3) | 1... | | IC_START_SECONDS_V | |
| ----- IC_EXISTE is set if IC_ADDRE is valid. IC_EXISTE is set if a START command specifies a USERID ----- | | | | |
| (3) |1.. | | IC_EXISTE | |
| (3) |1.. | | IC_START_USERID_V | |
| ----- IC_EXISTF is set if IC_ADDRF is valid IC_EXISTF is set if a start is for it's PF ----- | | | | |
| (3) |1. | | IC_EXISTF | PF starts |
| (3) |1. | | IC_START_SYSNET_V | |

Table 226. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------------|---|
| (3) |1. | | IC_DELAY_MILLISECS_V | |
| <p>-----</p> <p>IC_EXIST10 is set if IC_ADDR10 is valid IC_EXIST10 is set if START specifies BREXIT with an argument IC_EXIST10 is set if a FORMATTIME command specifies TIMESEP.</p> <p>-----</p> | | | | |
| (3) |1 | | IC_EXIST10 | BREXIT(value) |
| (3) |1 | | IC_START_BREXIT_V | |
| (3) |1 | | IC_FORMATTIME_ TIMESEP_V | |
| <p>-----</p> <p>EIDOPT4 Any changes made by the exit are ignored</p> <p>-----</p> | | | | |
| (4) | BIT(8) | 1 | IC_EIDOPT4 | |
| (4) | 1... | | IC_SYSEIB | Program uses SYSEIB |
| (4) | .1.. | | IC_NOEDF | NOEDF specified |
| (4) | ..1. | | IC_NOHANDLE | NOHANDLE specified |
| (4) | ...1 111. | | * | Language identifying bits |
| (4) |1 | | * | Reserved |
| <p>-----</p> <p>EIDOPT5 - EIDOPT8 The next 4 bytes are the flagword bits that identify the keywords that were specified on the EXEC CICS command. Some bits have more than one meaning, depending on the command function being processed, and thus have multiple definitions. Do not test these bits unless you know that the keywords are valid for the specific command being processed.</p> <p>-----</p> <p>EIDOPT5</p> <p>-----</p> | | | | |
| (5) | BIT(8) | 1 | IC_EIDOPT5 | |
| (5) | 1... | | IC_FORMATTIME_ ABSTIME_X | ABSTIME specified on a FORMATTIME command. |
| (5) | 1... | | IC_ASKTIME_ABSTIME_X | ABSTIME specified on an ASKTIME command. |
| (5) | .1.. | | IC_FORMATTIME_ YYDDD_X | YYDDD specified on a FORMATTIME command. |
| (5) | ..1. | | IC_FORMATTIME_ YYMMDD_X | YYMMDD specified on a FORMATTIME command. |
| (5) | ...1 ... | | IC_FORMATTIME_ YYDDMM_X | YYDDMM specified on a FORMATTIME command. |
| (5) | 1... | | IC_FORMATTIME_ DDMMYY_X | DDMMYY specified on a FORMATTIME command. |
| (5) |1.. | | IC_FORMATTIME_ MMDDYY_X | MMDDYY specified on a FORMATTIME command. |
| (5) |1. | | IC_FORMATTIME_ DATE_X | DATE specified on a FORMATTIME command. |

Table 226. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------|------------|-----|------------------------------|--|
| (5) |1 | | IC_RETRIEVE_SET_X | SET (not INTO) specified on a RETRIEVE command. This bit may NOT be modified by a user exit. |
| (5) |1 | | IC_START_ATTACH_X | ATTACH specified on a START command. This bit may NOT be modified by a user exit. |
| (5) |1 | | IC_FORMATTIME_ DATEFORM_X | DATEFORM specified on a FORMATTIME command. |
| ----- EIDOPT6 ----- | | | | |
| (6) | BIT(8) | 1 | IC_EIDOPT6 | |
| (6) | 1... | | IC_START_ROUTABLE | |
| (6) | 1... | | IC_FORMATTIME_ DATESEP_X | DATESEP specified on a FORMATTIME command. |
| (6) | .1.. | | IC_FORMATTIME_ DAYCOUNT_X | DAYCOUNT specified on a FORMATTIME command. |
| (6) | ..1. | | IC_FORMATTIME_ DAYOFWEEK_X | DAYOFWEEK specified on a FORMATTIME command. |
| (6) | ...1 | | IC_START_FMH_X | FMH specified on a START cmd. |
| (6) | ...1 | | IC_FORMATTIME_ DAYOFMONTH_X | DAYOFMONTH specified on a FORMATTIME command. |
| (6) | 1... | | IC_FORMATTIME_ MONTHOFYEAR_X | MONTHOFYEAR specified on a FORMATTIME command. |
| (6) |1.. | | IC_FORMATTIME_ YEAR_X | YEAR specified on a FORMATTIME command. |
| (6) |1. | | IC_START_PROTECT_X | PROTECT specified on a START command. |
| (6) |1. | | IC_FORMATTIME_ TIME_X | TIME specified on a FORMATTIME command. |
| (6) |1 | | IC_START_NOCHECK_X | NOCHECK specified on a START command. |
| (6) |1 | | IC_FORMATTIME_ TIMESEP_X | TIMESEP specified on a FORMATTIME command. |
| ----- EIDOPT7 ----- | | | | |
| (7) | BIT(8) | 1 | IC_EIDOPT7 | |
| (7) | 1... | | IC_FORMATTIME_ YYYYDDD_X | YYYYDDD specified on a FORMATTIME command. |
| (7) | .1.. | | IC_FORMATTIME_ YYYYMMDD_X | YYYYMMDD specified on a FORMATTIME command. |

Table 226. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------------------|---|
| (7) | ..1. | | IC_START_HEADER_X | RTRANSID, RTERMID, FMH and/or QUEUE specified on a START command. |
| (7) | ..1. | | IC_FORMATTIME_ YYYYDDMM_X | YYYYDDMM specified on a FORMATTIME command. |
| (7) | ...1 | | IC_START_DATA_X | FROM, RTRANSID, RTERMID, FMH and/or QUEUE specified on a START command. |
| (7) | ...1 | | IC_FORMATTIME_ DDMMYYYY_X | DDMMYYYY specified on a FORMATTIME command. |
| (7) | 1... | | IC_DELAY_TIME_X | TIME (not INTERVAL) specified on a DELAY command. |
| (7) | 1... | | IC_POST_TIME_X | TIME (not INTERVAL) specified on a POST command. |
| (7) | 1... | | IC_START_TIME_X | TIME (not INTERVAL) specified on a START command. |
| (7) | 1... | | IC_RETRIEVE_WAIT_X | WAIT specified on a RETRIEVE command. |
| (7) | 1... | | IC_FORMATTIME_ MMDDYYYY_X | MMDDYYYY specified on a FORMATTIME command. |
| (7) |1.. | | IC_CANCEL_REQID_X | REQID specified on a CANCEL command. |
| (7) |1.. | | IC_DELAY_REQID_X | REQID specified on a DELAY command. |
| (7) |1.. | | IC_POST_REQID_X | REQID specified on a POST command. |
| (7) |1.. | | IC_START_REQID_X | REQID specified on a START command. |
| (7) |1.. | | IC_FORMATTIME_ FULLDATE_X | FULLDATE specified on a FORMATTIME command. |
| (7) |1. | | * | Reserved |
| (7) |1 | | IC_START_TERMID_X | TERMID specified on a START command. |
| <div>-----</div> <div>EIDOPT8</div> <div>-----</div> | | | | |
| (8) | BIT(8) | 1 | IC_EIDOPT8 | |
| (8) | 1... | | IC_FORAFTER_X | Command specifies FOR or AFTER |
| (8) | 1... | | IC_DELAY_FOR_X | FOR (not UNTIL) specified on a DELAY command. |
| (8) | 1... | | IC_POST_AFTER_X | AFTER (not AT) specified on a DELAY command. |

Table 226. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|---|
| (8) | 1... | | IC_START_AFTER_X | AFTER (not AT) specified on a START command. |
| (8) | .1.. | | IC_ATUNTIL_X | Command specifies AT or UNTIL |
| (8) | .1.. | | IC_DELAY_UNTIL_X | UNTIL (not FOR) specified on a DELAY command. |
| (8) | .1.. | | IC_POST_AT_X | AT (not AFTER) specified on a POST command. |
| (8) | .1.. | | IC_START_AT_X | AT (not AFTER) specified on a START command. |
| (8) | ..1. | | * | Reserved |
| (8) | ...1 | | IC_START_BREXIT_X | START BREXIT |
| (8) | 1.. | | IC_START_BRDATA_X | |
| (8) |1.. | | IC_START_BRDATALENGTH_X | BRDATALENGTH * |
| (8) |1. | | IC_START_CHANNEL_X | |
| (8) |1 | | IC_START_CORREL_X | |

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by IC_ADDR1 - IC_ADDR1E in IC_ADDR_LIST.

 IC_DATA1 - Addressed by IC_ADDR1

Table 227.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 8 | IC_DATA1 | |
| (0) | CHARACTER | 8 | * | |

Table 228.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|-------------------|
| (0) | STRUCTURE | 4 | IC_INTERVAL | Value of INTERVAL |
| (0) | CHARACTER | 4 | IC_START_INTERVAL | |
| (0) | CHARACTER | 4 | IC_DELAY_INTERVAL | |
| (0) | CHARACTER | 4 | IC_POST_INTERVAL | |
| (0) | CHARACTER | 4 | IC_TIME | Value of TIME |
| (0) | CHARACTER | 4 | IC_START_TIME | |
| (0) | CHARACTER | 4 | IC_DELAY_TIME | |
| (0) | CHARACTER | 4 | IC_POST_TIME | |

Table 229.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------------|
| (0) | STRUCTURE | 8 | IC_CANCEL_REQID | Value of REQID on |
| (0) | CHARACTER | 8 | * | a CANCEL command. |

Table 230.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|--------------------|
| (0) | STRUCTURE | * | IC_RETRIEVE_INT0 | Value of DATA on a |
| (0) | CHARACTER | * | * | RETRIEVE INTO cmd |

Table 231.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------------|
| (0) | STRUCTURE | 4 | IC_RETRIEVE_SET | Pointer for SET on |
| (0) | ADDRESS | 4 | * | a RETRIEVE command |

Table 232.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|-------------|
| (0) | STRUCTURE | 8 | IC_FORMATTIME_ABSTIME | |
| (0) | CHARACTER | 8 | * | |

Table 233.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-------------|
| (0) | STRUCTURE | 8 | IC_ASKTIME_ABSTIME | |
| (0) | CHARACTER | 8 | * | |

 IC_DATA2 - Addressed by IC_ADDR2

Table 234.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 8 | IC_DATA2 | |
| (0) | CHARACTER | 8 | * | |

Table 235.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-------------------------------|
| (0) | STRUCTURE | 8 | IC_REQID | Value of REQID |
| (0) | CHARACTER | 8 | IC_DELAY_REQID | Value of REQID on a DELAY cmd |
| (0) | CHARACTER | 8 | IC_POST_REQID | Value of REQID on a POST cmd |
| (0) | CHARACTER | 8 | IC_START_REQID | Value of REQID on a START cmd |

Table 236.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-----------------------------------|
| (0) | STRUCTURE | 2 | IC_RETRIEVE_LENGTH | Value of LENGTH on a RETRIEVE cmd |
| (0) | HALFWORD | 2 | * | |

Table 237.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|-------------|
| (0) | STRUCTURE | * | IC_FORMATTIME_YYDDD | |
| (0) | CHARACTER | * | * | |

 IC_DATA3 - Addressed by IC_ADDR3

Table 238.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|----------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA3 | |
| (0) | ADDRESS | 4 | IC_POST_SET | SET address on a POST command |
| (0) | CHARACTER | 4 | IC_TRANSID | Value of TRANSID |
| (0) | CHARACTER | 4 | IC_CANCEL_TRANSID | Value of TRANSID on a CANCEL cmd |
| (0) | CHARACTER | 4 | IC_START_TRANSID | Value of TRANSID on a START cmd |

Table 239.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|-------------|
| (0) | STRUCTURE | * | IC_FORMATTIME_YYMMDD | |
| (0) | CHARACTER | * | * | |

 IC_DATA4 - Addressed by IC_ADDR4

Table 240.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-------------------------|
| (0) | STRUCTURE | * | IC_DATA4 | |
| (0) | CHARACTER | * | IC_START_FROM | Data on a START command |

Table 241.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|-------------|
| (0) | STRUCTURE | * | IC_FORMATTIME_YYDDMM | |
| (0) | CHARACTER | * | * | |

 IC_DATA5 - Addressed by IC_ADDR5

Table 242.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------------------------|
| (0) | STRUCTURE | 2 | IC_DATA5 | |
| (0) | HALFWORD | 2 | IC_START_LENGTH | Length of data on a START cmd |

Table 243.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|-------------|
| (0) | STRUCTURE | * | IC_FORMATTIME_DDMMYY | |
| (0) | CHARACTER | * | * | |

 IC_DATA6 - Addressed by IC_ADDR6

Table 244.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA6 | |
| (0) | CHARACTER | 4 | IC_START_TERMID | Value of TERMID on a START cmd |

Table 245.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|-------------|
| (0) | STRUCTURE | * | IC_FORMATTIME_MMDDYY | |
| (0) | CHARACTER | * | * | |

 IC_DATA7 - Addressed by IC_ADDR7

Table 246.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA7 | |
| (0) | CHARACTER | 4 | IC_SYSID | Value of SYSID |
| (0) | CHARACTER | 4 | IC_START_SYSID | Value of SYSID on a START cmd |
| (0) | CHARACTER | 4 | IC_CANCEL_SYSID | Value of SYSID on a CANCEL cmd |

Table 247.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-------------|
| (0) | STRUCTURE | * | IC_FORMATTIME_DATE | |
| (0) | CHARACTER | * | * | |

 IC_DATA8 - Addressed by IC_ADDR8

Table 248.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|----------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA8 | |
| (0) | CHARACTER | 4 | IC_RTRANSID | Value of RTRANSID |
| (0) | CHARACTER | 4 | IC_START_RTRANSID | Value of RTRANSID on a START cmd |

Table 248. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|-------------------------------------|
| (0) | CHARACTER | 4 | IC_RETRIEVE_RTRANSID | Value of RTRANSID on a RETRIEVE cmd |

Table 249.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|-------------|
| (0) | STRUCTURE | 6 | IC_FORMATTIME_ DATEFORM | |
| (0) | CHARACTER | 6 | * | |

 IC_DATA9 - Addressed by IC_ADDR9

Table 250.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|------------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA9 | |
| (0) | CHARACTER | 4 | IC_RTERMID | Value of RTERMID |
| (0) | CHARACTER | 4 | IC_START_RTERMID | Value of RTERMID on a START cmd |
| (0) | CHARACTER | 4 | IC_RETRIEVE_RTERMID | Value of RTERMID on a RETRIEVE cmd |

Table 251.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|-------------|
| (0) | STRUCTURE | 1 | IC_FORMATTIME_ DATESEP | |
| (0) | CHARACTER | 1 | * | |

 IC_DATA10 - Addressed by IC_ADDRA

Table 252.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|----------------------------------|
| (0) | STRUCTURE | 8 | IC_DATA10 | |
| (0) | CHARACTER | 8 | IC_QUEUE | Value of QUEUE |
| (0) | CHARACTER | 8 | IC_START_QUEUE | Value of QUEUE on a START cmd |
| (0) | CHARACTER | 8 | IC_RETRIEVE_QUEUE | Value of QUEUE on a RETRIEVE cmd |

Table 253.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|-------------|
| (0) | STRUCTURE | 4 | IC_FORMATTIME_ DAYCOUNT | |
| (0) | FULLWORD | 4 | * | |

 IC_DATA11 - Addressed by IC_ADDRB

Table 254.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA11 | |
| (0) | CHARACTER | 4 | IC_HOURS | Value of HOURS |
| (0) | CHARACTER | 4 | IC_DELAY_HOURS | Value of HOURS on a DELAY cmd |
| (0) | CHARACTER | 4 | IC_POST_HOURS | Value of HOURS on a POST cmd |
| (0) | CHARACTER | 4 | IC_START_HOURS | Value of HOURS on a START cmd |

Table 255.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|-------------|
| (0) | STRUCTURE | 4 | IC_FORMATTIME_ DAYOFWEEK | |
| (0) | FULLWORD | 4 | * | |

 IC_DATA12 - Addressed by IC_ADDRC

Table 256.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA12 | |
| (0) | CHARACTER | 4 | IC_MINUTES | Value of MINUTES |
| (0) | CHARACTER | 4 | IC_DELAY_MINUTES | Value of MINUTES on a DELAY cmd |
| (0) | CHARACTER | 4 | IC_POST_MINUTES | Value of MINUTES on a POST cmd |
| (0) | CHARACTER | 4 | IC_START_MINUTES | Value of MINUTES on a START cmd |

Table 257.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|-------------|
| (0) | STRUCTURE | 4 | IC_FORMATTIME_ DAYOFMONTH | |
| (0) | FULLWORD | 4 | * | |

 IC_DATA13 - Addressed by IC_ADDRD

Table 258.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA13 | |
| (0) | CHARACTER | 4 | IC_SECONDS | Value of SECONDS |
| (0) | CHARACTER | 4 | IC_DELAY_SECONDS | Value of SECONDS on a DELAY cmd |
| (0) | CHARACTER | 4 | IC_POST_SECONDS | Value of SECONDS on a POST cmd |

Table 258. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---------------------------------|
| (0) | CHARACTER | 4 | IC_START_SECONDS | Value of SECONDS on a START cmd |

Table 259.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|-------------|
| (0) | STRUCTURE | 4 | IC_FORMATTIME_ MONTHOFYEAR | |
| (0) | FULLWORD | 4 | * | |

 IC_DATA14 - Addressed by IC_ADDRE

Table 260.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|----------------------------------|
| (0) | STRUCTURE | 8 | IC_DATA14 | |
| (0) | CHARACTER | 8 | IC_START_USERID | Value of USERID on START command |

Table 261.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-------------|
| (0) | STRUCTURE | 4 | IC_FORMATTIME_YEAR | |
| (0) | FULLWORD | 4 | * | |

 IC_DATA15 - Addressed by IC_ADDRF

Table 262.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|--------------------|
| (0) | STRUCTURE | 8 | IC_DATA15 | |
| (0) | CHARACTER | 8 | IC_START_SYSNET | Value of SYSNET |
| (0) | CHARACTER | 4 | IC_DELAY_MILLISECS | MILLISECS on DELAY |

Table 263.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-------------|
| (0) | STRUCTURE | * | IC_FORMATTIME_TIME | |
| (0) | CHARACTER | * | * | |

 IC_DATA16 - Addressed by IC_ADDR10

Table 264.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------|
| (0) | STRUCTURE | 8 | IC_DATA16 | |
| (0) | CHARACTER | 8 | IC_START_BREXIT | Value BREXIT |

Table 265.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|-------------|
| (0) | STRUCTURE | 1 | IC_FORMATTIME_TIMESEP | |
| (0) | CHARACTER | 1 | * | |

 IC_DATA17 - Addressed by IC_ADDR11

Table 266.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|-------------|
| (0) | STRUCTURE | * | IC_DATA17 | |
| (0) | CHARACTER | * | IC_FORMATTIME_YYYYDDD | |

 IC_DATA18 - Addressed by IC_ADDR12

Table 267.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|-------------|
| (0) | STRUCTURE | * | IC_DATA18 | |
| (0) | CHARACTER | * | IC_FORMATTIME_YYYYMMDD | |

 IC_DATA19 - Addressed by IC_ADDR13

Table 268.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|-------------|
| (0) | STRUCTURE | * | IC_DATA19 | |
| (0) | CHARACTER | * | IC_FORMATTIME_YYYYDDMM | |

 IC_DATA20 - Addressed by IC_ADDR14

Table 269.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|-------------|
| (0) | STRUCTURE | * | IC_DATA20 | |
| (0) | CHARACTER | * | IC_FORMATTIME_DDMMYYYY | |

 IC_DATA21 - Addressed by IC_ADDR15

Table 270.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|-------------|
| (0) | STRUCTURE | * | IC_DATA21 | |
| (0) | CHARACTER | * | IC_FORMATTIME_MMDDYYYY | |

 IC_DATA22 - Addressed by IC_ADDR16

Table 271.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|-------------|
| (0) | STRUCTURE | * | IC_DATA22 | |
| (0) | CHARACTER | * | IC_FORMATTIME_ FULLDATE | |

 IC_DATA23 - Addressed by IC_ADDR17

Table 272.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-------------|
| (0) | STRUCTURE | * | IC_DATA23 | |
| (0) | CHARACTER | * | IC_EWLM_CORRELATOR | |

 IC_DATA29 - Addressed by IC_ADDR1D

Table 273.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|----------------|
| (0) | STRUCTURE | * | IC_DATA29 | |
| (0) | CHARACTER | * | IC_START_BRDATA | Address BRDATA |

 IC_DATA30 - Addressed by IC_ADDR1E

Table 274.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|--------------------|
| (0) | STRUCTURE | 4 | IC_DATA30 | |
| (0) | FULLWORD | 4 | IC_START_BRDATALENGTH | Value BRDATALENGTH |

 IC_DATA31 - Addressed by IC_ADDR1F

Table 275.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-----------------|
| (0) | STRUCTURE | 16 | IC_DATA31 | |
| (0) | CHARACTER | 16 | IC_START_CHANNEL | Name of channel |

Constants

Table 276.

| Len | Type | Value | Name | Description |
|--|------|-------|------|-------------|
| Equate for IC_GROUP. All Interval Control requests have group code '10' except ASKTIME and FORMATTIME which have group code '4A' | | | | |

Table 276. (continued)

| Len | Type | Value | Name | Description |
|--|---------|-------|------------------------|-------------|
| 1 | HEX | 10 | IC_INTERVAL_GROUP | |
| 1 | HEX | 4A | IC_ABSTIME_GROUP | |
| Equates for IC_FUNCT values. | | | | |
| 1 | HEX | 02 | IC_ASKTIME | Asktime |
| 1 | HEX | 04 | IC_FORMATTIME | Formattime |
| 1 | HEX | 04 | IC_DELAY | Delay |
| 1 | HEX | 06 | IC_POST | Post |
| 1 | HEX | 08 | IC_START | Start |
| 1 | HEX | 0A | IC_RETRIEVE | Retrieve |
| 1 | HEX | 0C | IC_CANCEL | Cancel |
| Start of General Use Programming Interface. Equates for EIBRCODE values used by Interval Control. | | | | |
| 1 | HEX | 00 | IC_OK_EIBRCODE | OK |
| 1 | HEX | 01 | IC_ENDDATA_EIBRCODE | ENDDATA |
| 1 | HEX | 04 | IC_IOERR_EIBRCODE | IOERR |
| 1 | HEX | 11 | IC_TRANSIDERR_EIBRCODE | |
| | | | | TRANSIDERR |
| 1 | HEX | 1B | IC_PGMIDERR_EIBRCODE | PGMIDERR |
| 1 | HEX | 20 | IC_EXPIRED_EIBRCODE | EXPIRED |
| 1 | HEX | 81 | IC_NOTFND_EIBRCODE | NOTFND |
| 1 | HEX | 7A | IC_CHANNELERR_EIBRCODE | |
| | | | | CHANELERR |
| 1 | HEX | D0 | IC_SYSIDERR_EIBRCODE | SYSIDERR |
| 1 | HEX | D1 | IC_ISCINVREQ_EIBRCODE | |
| | | | | ISCINVREQ |
| 1 | HEX | D6 | IC_NOTAUTH_EIBRCODE | NOTAUTH |
| 1 | HEX | E1 | IC LENGERR_EIBRCODE | LENGERR |
| 1 | HEX | E9 | IC_ENVDEFERR_EIBRCODE | |
| | | | | ENVDEFERR |
| 1 | HEX | D8 | IC_USERIDERR_EIBRCODE | |
| | | | | USERIDERR |
| 1 | HEX | D9 | IC_RESUNAVAIL_EIBRCODE | |
| | | | | RESUNAVAIL |
| 1 | HEX | FF | IC_INVREQ_EIBRCODE | INVREQ |
| Equates for EIBRESP values used by Interval Control. | | | | |
| 1 | DECIMAL | 0 | IC_OK_EIBRESP | OK |
| 1 | DECIMAL | 13 | IC_NOTFND_EIBRESP | NOTFND |
| 1 | DECIMAL | 16 | IC_INVREQ_EIBRESP | INVREQ |
| 1 | DECIMAL | 17 | IC_IOERR_EIBRESP | IOERR |
| 1 | DECIMAL | 22 | IC LENGERR_EIBRESP | LENGERR |

Table 276. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-------|-----------------------------------|---|
| 1 | DECIMAL | 27 | IC_PGMIDERR_EIBRESP | PGMIDERR |
| 1 | DECIMAL | 28 | IC_TRANSIDERR_EIBRESP | |
| | | | | TRANSIDERR |
| 1 | DECIMAL | 29 | IC_ENDDATA_EIBRESP | ENDDATA |
| 1 | DECIMAL | 31 | IC_EXPIRED_EIBRESP | EXPIRED |
| 1 | DECIMAL | 53 | IC_SYSIDERR_EIBRESP | SYSIDERR |
| 1 | DECIMAL | 54 | IC_ISCINVREQ_EIBRESP | ISCINVREQ |
| 1 | DECIMAL | 56 | IC_ENVDEFERR_EIBRESP | ENVDEFERR |
| 1 | DECIMAL | 69 | IC_USERIDERR_EIBRESP | USERIDERR |
| 1 | DECIMAL | 70 | IC_NOTAUTH_EIBRESP | NOTAUTH |
| 1 | DECIMAL | 121 | IC_RESUNAVAIL_EIBRESP | |
| | | | | RESUNAVAIL |
| 1 | DECIMAL | 122 | IC_CHANNELERR_EIBRESP | |
| | | | | CHANNELERR |
| Equates for EIBRESP2 values used by Interval Control. | | | | |
| 1 | DECIMAL | 0 | IC_OK_EIBRESP2 | OK |
| 1 | DECIMAL | 1 | IC_CHANNEL_INVCHARS_EIBRESP2 | |
| | | | | Invalid chars in channel name |
| 1 | DECIMAL | 1 | IC_ROUTER_REJECTED_EIBRESP2 | |
| | | | | Router rejected start request |
| 1 | DECIMAL | 4 | IC_INVHRS_EIBRESP2 | Hours out of range |
| 1 | DECIMAL | 5 | IC_INVMINS_EIBRESP2 | Minutes out of range |
| 1 | DECIMAL | 6 | IC_INVSECS_EIBRESP2 | Seconds out of range |
| 1 | DECIMAL | 22 | IC_INVMSECS_EIBRESP2 | milliseconds out of range |
| 1 | DECIMAL | 7 | IC_NOTAUTH_EIBRESP2 | Request not authorised |
| 1 | DECIMAL | 8 | IC_USERID_NOT_DEFINED_EIBRESP2 | |
| | | | | Userid not known |
| 1 | DECIMAL | 9 | IC_SURROGATE_FAILURE_EIBRESP2 | |
| | | | | Surrogate check failed |
| 1 | DECIMAL | 10 | IC_USERID_NOT_DETERMINED_EIBRESP2 | |
| | | | | CICS is unable to determine whether the userid exists |
| 1 | DECIMAL | 18 | IC_SECURITY_INACTIVE_EIBRESP2 | |
| | | | | SEC=NO specified on SIT |
| 1 | DECIMAL | 19 | IC_USERID_REVOKED_EIBRESP2 | |
| | | | | Userid is revoked |

IMSDS - Function request shipping message

```

CONTROL BLOCK NAME = DFHIMSDS
NAME OF MATCHING PLAS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Function Request Shipping Message
                    Insert Area.
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 1981, 1991
FUNCTION =
    Description of message insert information chained off
    ISC TCITE during session failure while in doubt.
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS =
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES =
    DATA AREAS =
    CONTROL BLOCKS =
    GLOBAL VARIABLES (Macro pass) =
-----

```

Table 277.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---------------------------------|
| (0) | STRUCTURE | 0 | DFHIMSDS | |
| (0) | FULLWORD | 4 | | SAA (CLASS=CONTROL) |
| (4) | ADDRESS | 4 | (10) | Parm address list for MGP |
| (2C) | BITSTRING | 6 | ISMDESC | Message descriptor for MGP |
| (32) | ADDRESS | 2 | | Reserved |
| (2E) | HALFWORD | 2 | ISMMSGNO | Message number |
| (34) | CHARACTER | 6 | ISMISTM | LL & ISC terminal |
| (3A) | CHARACTER | 6 | ISMRSYS | LL & remote system id |
| (40) | CHARACTER | 6 | ISMTRAN | LL & transaction id |
| (46) | CHARACTER | 6 | ISMOPTM | LL & operator's terminal |
| (4C) | CHARACTER | 5 | ISMOPID | LL & operator id |
| (51) | CHARACTER | 7 | ISMTKNO | LL & task number (packed) |
| (58) | CHARACTER | 11 | ISMTIME | LL & time hh:mm:sss |
| (63) | CHARACTER | 4 | ISMMODID | LL & module id |
| (67) | CHARACTER | 41 | ISMUOWID (0) | Full formatted UOW id def |
| | | | | |
| (67) | HALFWORD | 2 | ISMUWLEN | UOW length excluding this field |
| (69) | CHARACTER | 17 | ISMUWLUN | LU name (NB variable length) |
| length of the variable length field ISMUWLUN is less than 17. | | | | |
| (7A) | CHARACTER | 3 | ISMUWC1 | A constant |
| (7D) | CHARACTER | 0 | ISMUWTKN | Token |

Table 277. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------------|
| (89) | CHARACTER | 2 | ISMUWC2 | A constant |
| (8B) | CHARACTER | 5 | ISMUWSEQ | Sequence number |
| (8B) | 1..1 | | ISMEND | "X" |
| (8B) | .1.1 11.. | | ISMKPL | "ISMEND-*" Length to be keypointed |
| (34) | CHARACTER | 1 | ISMKP | Bytes to be keypointed |
| (34) | 1..1 | | ISMLEN | "ISMEND-DFHIMSDS" Dsect length |

IRRDS - Interregion Session Recovery

CONTROL BLOCK NAME = DFHIRRDS
NAME OF MATCHING PLS CONTROL BLOCK = None.
DESCRIPTIVE NAME = CICS TS Interregion Session Recovery
Data Stream.

FUNCTION =

This DSECT describes the datastream sent by both primary and secondary at the start of an IRC session. The datastream is used to perform session recovery immediately after a new IRC connection has been established between two systems.

Table 278.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---|
| (0) | STRUCTURE | 0 | DFHIRRDS | |
| (0) | BITSTRING | 1 | IRRSTRT (0) | START |
| (0) | BITSTRING | 4 | IRFLGS (0) | FLAGS |
| (0) | BITSTRING | 1 | IRFLG1 | FLAG BYTE 1 |
| (0) | 1... | | IRFLGFX | "X'80'" .. FAST PATH XFORMER SUPPORTED |
| (0) | .1.. | | IRFLFACC | "X'40'" .. Revised State-after-Rollback rules are required |
| (0) | ..1. | | IRFLBSND | "X'20'" .. Sender is 'new batch' |
| (0) | ...1 | | IRFLBREJ | "X'10'" .. Sender is non-batch connection reject |
| (0) | 1... | | IRFLCONT | "X'08'" .. More bind data after IRLLEN (see IRCONT DSECT below) |
| (0) |1.. | | IRFLRSYN | "X'04'" .. Sender is capable of new (LU62-style) resync |
| (0) |1. | | IRFLFCTK | "X'02'" .. Sender can handle FC Tokens |
| (0) |1 | | IRFRRS | "X'01'" .. Sender supports transactional EXCI |
| (1) | BITSTRING | 1 | IRFLG2 | |

Table 278. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------|-----------|-----|------------|--|
| (1) | 1... | | IRFLRTST | "X'80'" .. Routable START support |
| (1) | .1.. | | IRFLRQST | "X'40'" .. Requeststreams |
| (1) | ..1. | | IRFLCHAN | "X'20'" .. Sender can handle Channels |
| (1) | ...1 | | IRFLEWLM | "X'10'" .. Sender can handle EWLM correlators |
| (1) | 1... | | IRFLTXBK | "X'08'" .. TEXCI BACKOUT AFTER ABEND |
| EQU X'04' Reserved - Do not use | | | | |
| (1) |1. | | IRFLICRX | "X'02'" .. Sender can handle ICX's |
| (1) |1 | | IRFLODRP | "X'01'" .. Sender can handle Origin Data |
| (2) | BITSTRING | 1 | IRFLG3 | |
| (2) | 1... | | IRFLSTIX | "X'80'" .. Sender supports ICX on start |
| (2) | .1.. | | IRFLACTX | "X'40'" .. Sender supports initial app ctxt |
| (2) | ..1. | | IRFLCACX | "X'20'" .. Sender supports current app ctxt |
| (2) | ...1 | | IRFLXCHAN | "X'10'" .. Sender can handle Tran Channels |
| (3) | BITSTRING | 1 | | RESERVED |
| (4) | BITSTRING | 4 | IRRELNO | SENDER'S RELEASE LEVEL (SAME FORMAT AS ISC RLSE NO IN USER AREA IN BIND) |
| (8) | CHARACTER | 4 | IRSNAM | SENDER'S NAME |
| (C) | CHARACTER | 4 | IRRNAM | NAME TO WHICH SENDER WAS CONNECTED IN PREV. SESSION (BLANKS IF NONE OR UNKNWN) |
| (10) | BITSTRING | 2 | IRLONO | LOGICAL OUTBOUND SEQUENCE NO. AT END OF LAST SESSION (ZEROS IF COLD-STARTED) |
| (12) | BITSTRING | 2 | IRLINO | LOGICAL OUTBOUND SEQUENCE NO. AT END OF LAST SESSION (ZEROS IF COLD-STARTED) |
| (12) | ...1 .1.. | | IRLEN | "*-IRRSTRT" LENGTH OF DATASTREAM |

The IRCONT DSECT describes a bind continuation element. The presence of such an element is signalled by the setting of the IRFLCONT flag in IRFLGS (see the DFHIRRDS DSECT above). The element appears immediately after the bind data (ie at offset IRLen from DFHIRRDS).

Table 279.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|---|
| (0) | STRUCTURE | 0 | IRCONT | |
| (0) | HALFWORD | 2 | IRCONT_LTH | lth of data item (including lth field itself) |
| (2) | HALFWORD | 2 | IRCONT_TYPE | type of data item |
| (2) |1 | | IRCONT_JOBID | "X'01" type value for jobid data item |
| (2) |1. | | IRCONT_XLN | "X'02" type value for bind XLN data |
| (4) | BITSTRING | 1 | IRCONT_DATA (0) | start of data proper |
| (2) | BITSTRING | 1 | IRCONT_FLAG | flag at start of type field |
| (2) | 1... | | IRCONT_MORE | "X'80" IRCONT_FLAG value indicating presence of another data item |

IRC - Interregion control blocks

CONTROL BLOCK NAME = DFHIRSPS
 DESCRIPTIVE NAME = CICS TS Interregion Control Blocks
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1980, 2005
 FUNCTION =
 Descriptions of all inter-region communication control blocks which are visible to the subsystem level of inter-region communication.
 The control blocks defined are:
 SLCB Subsystem Logon Control Block
 SCCB Subsystem Connection Control Block
 SCACB(E) Subsystem Connection Address Control Block
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = N/A
 MODULE TYPE = Control block definition
 Subsystem Logon Control Block
 This DSECT describes the format of the SLCB which is the control block that contains the information relevant to the logon session which is of interest to the subsystem level of inter-region communication.
 First define the format of the fields in the SLCB.

Table 280.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 16 | SLCB | |
| (0) | FULLWORD | 4 | SLCBLECB | Logon (Master) ECB |
| (4) | FULLWORD | 4 | SLCBSCAC | SCACB Address |
| (8) | CHARACTER | 4 | SLCBSTTS | Status bytes |
| (8) | CHARACTER | 1 | SLCBSTS1 | Status byte 1 |

Table 280. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| FLAGS IN STATUS BYTE 1: LCBSTTS1 OR SLCBSTS1 | | | | |
| (8) | 1... | | LCBFAM31 | '80'X User of LCB is AMODE(31) |
| (8) | .1.. | | LCBFQUIP | '40'X Normal quiesce in progress |
| (8) | ..1. | | LCBFQUIM | '20'X Immediate quiesce |
| (8) | ...1 | | LCBFSPST | '10'X System Post |
| (8) | 1... | | LCBFBTCH | '08'X Batching of opsys |
| (8) |1.. | | LCBFBTCP | '04'X Batch=Postexit |
| (8) |1. | | LCBFBEXL | '02'X Exit Loaded |
| (8) |1 | | LCBFUNIQ | '01'X LCB corresponds to a UNIQUE user |
| (9) | CHARACTER | 1 | SLCBSTS2 | Status byte 2 |
| FLAGS IN STATUS BYTE 2: LCBSTTS2 OR SLCBSTS2 | | | | |
| (9) | 1... | | LCBFNWCN | '80'X New connector: scan ECBs |
| (9) | .1.. | | LCBFQUCM | '40'X Quiesce complete |
| (9) | ..1. | | LCBFSWFS | '20'X Switch First received |
| (9) | ...1 | | LCBFDSCR | '10'X Disconnect received |
| (9) | 1... | | LCBFJOIN | '08'X IXCJOIN may have been done |
| (9) |1.. | | LCBFLVIP | '04'X IXCLEAVE in flight |
| (9) |11 | | * | Reserved |
| (A) | BIT(8) | 1 | SLCBSTS3 | Status byte 3 |
| (B) | CHARACTER | 1 | SLCBSTS4 | Status byte 4 |
| FLAGS IN STATUS BYTE 4: LCBSTTS4 OR SLCBSTS2 | | | | |
| (B) | 1... | | LCBSRBSE | '80'X Serialization with work queue processor |
| (B) | .111 1111 | | * | Reserved |
| (C) | ADDRESS | 4 | SLCBLCB | Address of LCB |

Subsystem Connection Control Block
This DSECT defines the SCCB, the control block which contains the information about a particular connection which can be accessed by the subsystem level of inter-region communication function.
First define the format of the fields in the SCCB.

Table 281.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 96 | SCCB | |
| (0) | FULLWORD | 4 | SCCBDECB | Dependent ECB |
| (4) | FULLWORD | 4 | SCCBTHNM | Thread number |
| (8) | FULLWORD | 4 | SCCBTHID | Thread identification |
| (C) | CHARACTER | 4 | SCCBSTAT | Status bytes |

Table 281. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------|-----------|-----|------------|---|
| (C) | CHARACTER | 1 | SCCBSTS1 | Status byte 1 |
| (C) | 1... | | CCBFNWCN | '80'X New connector |
| (C) | .1.. | | * | '40'X Was CCBFCNTR - now reserved |
| (C) | ..1. | | CCBFSWDT | '20'X Data passed with switch |
| (C) | ...1 | | CCBFSWFS | '10'X Switch First received |
| (C) | 1... | | CCBFDTNF | '08'X Data doesn't fit |
| (C) |1.. | | CCBFDWP | '04'X Disconnect when possible |
| (C) |1. | | CCBFSWIT | '02'X Invalid target for switch |
| (C) |1. | | CCBFUNEX | '02'X Unexpected failure in SRB/subtask |
| (C) |1 | | CCBIRCWT | '01'X This side is waiting for a session recovery response from the other side. |
| (D) | CHARACTER | 1 | SCCBSTS2 | Status byte 2 |
| FLAGS IN STATUS BYTE 2: | | | | |
| (D) | 1... | | CCBFTERM | '80'X Other side terminated normally |
| (D) | .1.. | | CCBFABTM | '40'X Other side terminated abnormally |
| (D) | ..1. | | CCBFABTQ | '20'X Abnormal termination due to Quiesce |
| (D) | ...1 | | CCBFCNCT | '10'X The connection is currently connected |
| (D) | 1... | | CCBFFTRM | '08'X Other side's normal disc. requests FORGET |
| (D) |1.. | | CCBNOTFY | '04'X Notify request |
| (E) | BIT(8) | 1 | SCCBSTS3 | Status byte 3 |
| (E) | 1... | | CCBFPRIM | '80'X This is a primary SCCB |
| (F) | BIT(8) | 1 | SCCBSTS4 | Status byte 4 |
| (10) | FULLWORD | 4 | SCCBDLTH | Total length of data passed |
| (14) | FULLWORD | 4 | SCCBSLTH | Target area length |
| (18) | ADDRESS | 4 | SCCBAREA | Target area address |
| (1C) | CHARACTER | 8 | SCCBCNAM | Connector LOGON name |
| (24) | FULLWORD | 4 | SCCBUSER | User field |
| (28) | CHARACTER | 8 | SCCBSEC | Security user field |
| (30) | ADDRESS | 4 | SCCBELA | SCCB associated work element |
| (38) | CHARACTER | 8 | SCCBCTIM | STCK time at which connection connected |

Table 281. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (40) | CHARACTER | 8 | SCCBSTOD | STCK time by when the secondary TCB had chosen a specific instance of the target primary |
| (48) | CHARACTER | 24 | SCCBEL | SCCB internal work element |

Subsystem Connection Address Control Block
 These DSECTs define the format of the SCACB and its entries. The SCACB is used by the subsystem level of interregion communication function to obtain the addresses of the SCCBs representing its connections.

Table 282.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 8 | SCACB | |
| (0) | FULLWORD | 4 | SCACBNUM | Number of entries in SCACB |
| (4) | FULLWORD | 4 | SCACBENT | Start of entries |
| (4) | FULLWORD | 4 | SCACBEND | End marker = 'FFFFFFFF' |

Table 283.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------|
| (0) | STRUCTURE | 4 | SCACBE | |
| (0) | FULLWORD | 4 | SCACBEAD | Address of SCCB |

Logon Connections List
 This list is passed to logon by the requester, and it describes the systems to which this logger-on can be connected.

Table 284.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 22 | LCL | |
| (0) | CHARACTER | 8 | LCLNAME | Name of connected system |
| (8) | CHARACTER | 8 | LCLUSRID | Was security userid (ignored) |
| (10) | UNSIGNED | 2 | LCLSECNO | Number of secondaries for connections to given system |
| (12) | UNSIGNED | 2 | LCLPRMNO | Number of primaries for connections to given system |
| (14) | BIT(8) | 1 | LCLFLG | Flag byte |
| (14) | 1... | | LCLFLGLS | '80'X Last element in list |
| (14) | .1.. | | LCLFLGCN | '40'X Connections to this system are initially 'IN SERVICE' |
| (14) | ..1. | | LCLFLGSK | '20'X Partner must be a system key user |

Table 284. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (14) | ...1 | | LCLFLGXM | '10'X Cross-Memory acceptable |
| (15) | BIT(8) | 1 | * | Reserved |

The SVC argument list comprises a list of addresses, each of which is the address of a function argument list.

Table 285.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 4 | IRSVCADS | |
| (0) | FULLWORD | 4 | IRVCAARG | Address of function argument list |

The function argument list, addressed from the SVC argument list, contains different arguments according to the function being requested. The first six arguments identify the function required, the function modifier (for SWITCH, DISCONNECT or QUIESCE), the user number and identification, and the thread number and identification (where required). The remaining three arguments depend on the function requested and identify a system name (for LOGON, INSERV or QUIESCE), a subsystem control block address (for LOGON or CONNECT) and a parameter list (for LOGON or SWITCH).

Table 286.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 24 | IRSVCFDS | |
| (0) | UNSIGNED | 1 | IRVCLEN | Length of parameter list |
| (1) | UNSIGNED | 1 | IRVCTYP | Function type |
| (2) | HALFWORD | 2 | IRVCSTYP | Function modifier |
| (4) | FULLWORD | 4 | IRVCUSID | Address of userid argument (except LOGON) OR userid return slot (LOGON only) |
| (8) | FULLWORD | 4 | IRVCTHID | Address of thread ID argument (SWITCH, PULL or DISCONNECT only) or thread number return slot (CONNECT only) |
| (C) | CHARACTER | 12 | IRVCALST | Start of function specific argument list |
| (18) | CHARACTER | 0 | IRVCEND | |

Table 287.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (8) | STRUCTURE | 4 | IRVCLGFL | Logon flags |
| (8) | UNSIGNED | 1 | IRVCLGF1 | First flag byte |
| (8) | 1... | | IRVCLGSP | SYS POST req'd on links |

Table 287. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------------|
| (8) | .1.. | | IRVCLGBT | Batching of operating system POSTs |
| (8) | ..1. | | IRVCLGBX | BATCH=POSTEXIT |
| (8) | ...1 | | IRVCLEXM | Exit module name given |
| (8) | 1... | | IRVCLELT | Latent parameter supplied on logon |
| (8) |1.. | | IRVCLDOK | Allow duplicate names for this logon |
| (8) |11 | | * | Reserved |
| (9) | UNSIGNED | 1 | IRVCLGF2 | Second flag byte |
| (A) | UNSIGNED | 1 | IRVCLGBV | Batching value (IRVCLGBT set) |
| (B) | UNSIGNED | 1 | IRVCLGGM | GETMAIN above if SVCLOC=ANY |
| (B) | 1... | | IRVCL SVC | 1 SVCLOC=ANY, 0 SVCLOC=BELOW |
| (B) | .111 1111 | | * | Reserved |

Table 288.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|----------------------------------|
| (C) | STRUCTURE | 24 | * | Argument list for LOGON |
| (C) | FULLWORD | 4 | IRVCLGIM | Address of MYNAME argument |
| (10) | FULLWORD | 4 | IRVCLGSL | Address of SLCB addr return slot |
| (14) | FULLWORD | 4 | IRVCLGMU | Address of max users argument |
| (18) | FULLWORD | 4 | IRVCLGEX | Addr of exit module name |
| (1C) | FULLWORD | 4 | IRVCLGLT | Addr of latent parameter |
| (20) | ADDRESS | 4 | IRCVLNEW_PARM_PTR | Addrs of ext. PLIST |

Table 289.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------------|
| (C) | STRUCTURE | 12 | * | Argument list for LOGOFF |
| (C) | FULLWORD | 4 | IRVCL ODS | Address of dynamic storage operand |
| (10) | CHARACTER | 8 | * | |

Table 290.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (C) | STRUCTURE | 12 | * | Argument list for CONNECT |
| (C) | FULLWORD | 4 | IRVCCNTO | Address of TO argument |

Table 290. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (10) | FULLWORD | 4 | IRVCCNSC | Address of SCCB addr return slot |
| (14) | CHARACTER | 4 | * | |

Table 291.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (C) | STRUCTURE | 12 | * | Argument list for SWITCH |
| (C) | FULLWORD | 4 | * | Reserved |
| (10) | FULLWORD | 4 | * | Reserved |
| (14) | FULLWORD | 4 | IRVCSWPM | Address of parameter to pass |

Table 292.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (C) | STRUCTURE | 12 | * | Argument list for QUIESCE |
| (C) | FULLWORD | 4 | IRVCQUTO | Address of TO argument |
| (10) | CHARACTER | 8 | * | |

Table 293.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (C) | STRUCTURE | 12 | * | Argument list for INSERT |
| (C) | FULLWORD | 4 | IRVCINTO | Address of TO argument |
| (10) | CHARACTER | 8 | * | |

Table 294.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (C) | STRUCTURE | 12 | * | Argument list for RECOVER |
| (C) | FULLWORD | 4 | * | Reserved |
| (10) | FULLWORD | 4 | IRVCRCRS | Register 13 save area |
| (14) | FULLWORD | 4 | IRVCRCSA | Address of save area argument |

Table 295.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (C) | STRUCTURE | 12 | * | Argument list for EOT/M CLEAR |
| (C) | HALFWORD | 2 | IRVCEOAS | ASID of failing memory or ASID of memory containing failing task |
| (E) | HALFWORD | 2 | * | Reserved |
| (10) | FULLWORD | 4 | IRVCEOTA | TCB address of failing task |
| (14) | FULLWORD | 4 | IRVCEOSC | Address of SSCT |

Table 296.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (C) | STRUCTURE | 12 | * | Argument list for ADD |
| (C) | FULLWORD | 4 | IRVCANM | Pointer to netname (=IRVCLGIM) |
| (10) | FULLWORD | 4 | IRVCATOK | ADD token pointer |
| (14) | FULLWORD | 4 | IRVCALCL | A(LCL) - same offset as LOGON |

Table 297.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (C) | STRUCTURE | 4 | * | Argument list for CHCKLEVL |
| (C) | FULLWORD | 4 | IRVCALVL | Caller's level identifier |

Table 298.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|------------------------|
| (0) | STRUCTURE | 8 | IRVCLNEW_PARM | logon extention plist |
| (0) | FULLWORD | 4 | IRVCLNEW_VERSION | version id |
| (4) | FULLWORD | 4 | IRVCLNEW_GRP_NAME | addr of XCF GROUP Name |

Constants

Table 299.

| Len | Type | Value | Name | Description |
|--|---------|-------|----------|-----------------------------------|
| 4 | DECIMAL | 16 | SLCBLENG | Length of SLCB |
| 4 | DECIMAL | 96 | SCCBLENG | Length of SCCB |
| 1 | HEX | 80 | IRXMTHRD | If not XCF, X-Memory thread |
| 1 | HEX | 40 | IRNXTHRD | Non-XCF thread ID |
| 4 | DECIMAL | 8 | SCACBLEN | Basic SCACB length |
| 4 | DECIMAL | 4 | SCACBELN | Length of SCACB entry |
| 4 | DECIMAL | 22 | LCLLENG | Connection list element length |
| 4 | DECIMAL | 24 | IRVCMAXM | Maximum parameter length |
| 4 | DECIMAL | 1 | IRVCLVL1 | Function lvl 1 - basic XCF |
| 4 | DECIMAL | 2 | IRVCLVL2 | Function lvl 2 - FORGET |
| <p>The following equates define the function request codes for the Interregion Communication Program. There are two levels of function request defined here: The SVC function code addressed from the SVC argument list and the function type qualification code addressed from the function argument list for particular functions.</p> | | | | |
| SVC FUNCTION CODES | | | | |
| 1 | DECIMAL | 0 | IRVCEQLG | LOGON |
| 1 | DECIMAL | 4 | IRVCEQLF | LOGOFF |

Table 299. (continued)

| Len | Type | Value | Name | Description |
|---|----------|-------|----------|---|
| 1 | DECIMAL | 8 | IRVCEQCN | CONNECT |
| 1 | DECIMAL | 12 | IRVCEQDC | DISCONNECT |
| 1 | DECIMAL | 16 | IRVCEQSW | SWITCH |
| 1 | DECIMAL | 20 | IRVCEQQU | QUIESCE |
| 1 | DECIMAL | 24 | IRVCEQPL | PULL |
| 1 | DECIMAL | 28 | IRVCEQIN | INSERV |
| 1 | DECIMAL | 32 | IRVCEQCL | CLEAR |
| 1 | DECIMAL | 36 | IRVCEQRC | RECOVER |
| 1 | DECIMAL | 40 | IRVCEQEO | EOT/M CLEAR |
| 1 | DECIMAL | 44 | IRVCEQMX | Immediate Quiesce |
| 1 | DECIMAL | 48 | IRVCEQAD | Connection ADD |
| 1 | DECIMAL | 52 | IRVCEQCK | Check DFHIRP level |
| FUNCTION QUALIFICATION CODES | | | | |
| 1 | DECIMAL | 0 | IRVCEQDN | Normal DISCONNECT |
| 1 | DECIMAL | 4 | IRVCEQDA | Abnormal DISCONNECT |
| 1 | DECIMAL | 8 | IRVCEQDF | FORGET disc (normal quies |
| 1 | DECIMAL | 0 | IRVCEQQN | Normal QUIESCE |
| 1 | DECIMAL | 4 | IRVCEQQI | Immediate QUIESCE |
| 1 | DECIMAL | 0 | IRVCEQSS | SWITCH SUBSEQUENT |
| 1 | DECIMAL | 4 | IRVCEQSF | SWITCH FIRST |
| 1 | DECIMAL | 0 | IRVCEQRP | Recover from program check |
| 1 | DECIMAL | 4 | IRVCEQRA | Recover from ABEND |
| 1 | DECIMAL | 0 | IRVCEQET | End of Task |
| 1 | DECIMAL | 4 | IRVCEQEC | End of Cross Memory Resource Owner Task |
| 1 | DECIMAL | 8 | IRVCEQEM | End of Memory |
| 1 | DECIMAL | 0 | IRVCEQPR | ADD_PREPARE |
| 1 | DECIMAL | 4 | IRVCEQCM | ADD_COMMIT |
| 1 | DECIMAL | 8 | IRVCEQRL | ADD_ROLLBACK |
| Error Return Codes The following equates define the return codes passed back by the interregion communication SVC when it detects an error. These error codes are loaded into R15. | | | | |
| 2 | NUMB HEX | 0004 | IRERRINF | Invalid function requested |
| 2 | NUMB HEX | 0008 | IRERRAUT | User not authorized to use SVC (MVS only) |
| 2 | NUMB HEX | 000C | IRERRINE | Environment incorrect |
| 2 | NUMB HEX | 0010 | IRERRUNM | Invalid user number |
| 2 | NUMB HEX | 0014 | IRERRUID | Invalid user identification |
| 2 | NUMB HEX | 0018 | IRERRKEY | PSW key not same as at LOGON |

Table 299. (continued)

| Len | Type | Value | Name | Description |
|---|----------|-------|----------|--|
| 2 | NUMB HEX | 001C | IRERRTHN | Invalid thread number |
| 2 | NUMB HEX | 0020 | IRERRTHD | Invalid thread ID |
| 2 | NUMB HEX | 0024 | IRERRCFT | Set footprint failed |
| 2 | NUMB HEX | 0028 | IRERRLVE | * DFHIRP services are down-level |
| 2 | NUMB HEX | 002C | IRERRLGN | Valid userno & ID but LCB not fully logged on |
| 2 | NUMB HEX | 0034 | IRERRNOS | No SCTE in the SVA |
| 2 | NUMB HEX | 0038 | IRERRNFL | No free LACBE for LOGON |
| 2 | NUMB HEX | 003C | IRERRDPL | Duplicate LOGON |
| 2 | NUMB HEX | 0040 | IRERRMXL | Maximum LOGONs already reached |
| 2 | NUMB HEX | 0044 | IRERRGMD | GETMAIN failed XCF busy retry TQE storage |
| 2 | NUMB HEX | 0048 | IRERRGM1 | GETMAIN failed LACB storage |
| 2 | NUMB HEX | 004C | IRERRGM4 | GETMAIN failed SUDB storage |
| 2 | NUMB HEX | 0050 | IRERRGM2 | GETMAIN failed LCB/CCB storage |
| 2 | NUMB HEX | 0054 | IRERRGM3 | GETMAIN failed - private area storage |
| Qualifiers for Getmain and size exceeded errors | | | | |
| 1 | NUMB HEX | 01 | IRERQSCW | IRERRGM3 qualifier security work area |
| 1 | NUMB HEX | 02 | IRERQLCC | IRERRGM3 qualifier LCL copy area |
| 1 | NUMB HEX | 03 | IRERQVFW | IRERRGM3 qualifier SSI VERIFY work area |
| 1 | NUMB HEX | 04 | IRERQSDW | SUDB work area security work area |
| 1 | NUMB HEX | 05 | IRERQJSB | IRERRGM3 qualifier JSB storage |
| 1 | NUMB HEX | 06 | IRERQSCA | IRERRGM3/IRERRSIZ qualifier SCACB storage |
| 1 | NUMB HEX | 07 | IRERQLCV | IRERRGM3/IRERRSIZ qualifier LCBE vector storage |
| 1 | NUMB HEX | 08 | IRERQLCD | IRERRGM2/IRERRSIZ qualifier LCBD, LCBE & CCB storage |
| 1 | NUMB HEX | 09 | IRERQSCC | IRERRGM3/IRERRSIZ qualifier SCCB storage |
| 1 | NUMB HEX | 0A | IRERQLCX | IRERRGM3/IRERRSIZ qualifier LCBEX & CCBX storage |

Table 299. (continued)

| Len | Type | Value | Name | Description |
|------------------------------|----------|-------|----------|--|
| 1 | NUMB HEX | 0B | IRERQPHB | IRERRGM3/IRERRSIZ qualifier PHB storage |
| 1 | NUMB HEX | 0C | IRERQSLC | IRERRGM3/IRERRSIZ qualifier SLCB storage |
| 1 | NUMB HEX | 0D | IRERQSRW | IRERRGM3/IRERRSIZ qualifier SRB work area |
| 1 | NUMB HEX | 0E | IRERQXTT | IRERRGM3/IRERRSIZ qualifier XCF Trace Table |
| 1 | NUMB HEX | 0F | IRERQQSW | IRERRGM3/IRERRSIZ qualifier QUERY SYSPLEX work area |
| 1 | NUMB HEX | 10 | IRERQGXW | IRERRGM3/IRERRSIZ qualifier XCF Group Exit work area |
| 1 | NUMB HEX | 11 | IRERQRXW | IRERRGM3/IRERRSIZ qualifier XCF busy retry SRB work area |
| 1 | NUMB HEX | 12 | IRERQRTT | IRERRGM3/IRERRSIZ qualifier XCF busy retry SRB Trace Table |
| Error return codes continued | | | | |
| 2 | NUMB HEX | 0058 | IRERRNSK | Potential partner is not a system key user but LCBE insists on system key partners |
| 2 | NUMB HEX | 005C | IRERRNLG | System not logged on |
| 2 | NUMB HEX | 0060 | IRERRNCT | Primary & secondary DFHIRP levels have incompatible XCF User State Data formats |
| 2 | NUMB HEX | 0064 | IRERRGM5 | GETMAIN failed CSB/CND storage |
| 2 | NUMB HEX | 0068 | IRERRNSS | Secondary system not in primary LCB |
| 2 | NUMB HEX | 006C | IRERRCCS | No secondary CCB found for primary system |
| 2 | NUMB HEX | 0070 | IRERRIQS | Secondary is in QUIESCE |
| 2 | NUMB HEX | 0074 | IRERRNSP | Primary system not in secondary LCB |
| 2 | NUMB HEX | 0078 | IRERRCCP | No primary CCB found for secondary |
| 2 | NUMB HEX | 007C | IRERRIQP | Primary is in QUIESCE |
| 2 | NUMB HEX | 0080 | IRERRCCR | No primary CCB/retry req |
| 2 | NUMB HEX | 0084 | IRERRDSC | Link is already disconnected |
| 2 | NUMB HEX | 0088 | IRERRSWI | Other side cannot receive data |
| 2 | NUMB HEX | 008C | IRERRNSW | This side cannot send data |

Table 299. (continued)

| Len | Type | Value | Name | Description |
|---------------------------------------|----------|-------|----------|---|
| 2 | NUMB HEX | 0090 | IRERRPL1 | Other side cannot be pulled from |
| 2 | NUMB HEX | 0094 | IRERRPL2 | This side cannot pull data |
| 2 | NUMB HEX | 0098 | IRERRNPP | There is no pull pending |
| 2 | NUMB HEX | 009C | IRERRNDP | No data to be pulled (Internal error) |
| 2 | NUMB HEX | 00A0 | IRERRLIQ | LCB is in QUIESCE |
| 2 | NUMB HEX | 00A4 | IRERRUKS | Target system not found in LCB |
| 2 | NUMB HEX | 00A8 | IRERRCSB | CSB cannot be found |
| 2 | NUMB HEX | 00AC | IRERRLNC | Link is not connected |
| 2 | NUMB HEX | 00B0 | IRERRSCF | Security check failed |
| Qualifiers for security check failure | | | | |
| 1 | NUMB HEX | 01 | IRERQAUT | IRERRSCF qualifier AUTH denied access |
| 1 | NUMB HEX | 02 | IRERQFAU | IRERRSCF qualifier FASTAUTH denied access |
| Error codes continued | | | | |
| 2 | NUMB HEX | 00B4 | IRERRSCH | Attempt to schedule an SRB/subtask failed |
| 2 | NUMB HEX | 00B8 | IRERRGM7 | GETMAIN failed for SRB storage (MVS) |
| 2 | NUMB HEX | 00BC | IRERRPST | 'Special' ABEND (Bad ECB etc.) |
| 2 | NUMB HEX | 00C0 | IRERRIA0 | Invalid argument or Parameter addr |
| 2 | NUMB HEX | 00C4 | IRERRIA1 | Invalid address in parameter list |
| 2 | NUMB HEX | 00C8 | IRERRIA2 | Invalid address in data list |
| 2 | NUMB HEX | 00CC | IRERRABN | An MVS ABEND occurred |
| 2 | NUMB HEX | 00D0 | IRERRGM8 | GETMAIN failed for Transfer Buffer |
| 2 | NUMB HEX | 00D4 | IRERRGM9 | GETMAIN failed for EOM wk area |
| 2 | NUMB HEX | 00D8 | IRERRENV | Subsystem notification error (MVS only) |
| 2 | NUMB HEX | 00DC | IRERRIA3 | Invalid target for data movement |
| 2 | NUMB HEX | 00E0 | IRERRILE | Internal logic error |
| 2 | NUMB HEX | 00E4 | IRERRGMX | GETMAIN failed for use count array |
| 2 | NUMB HEX | 00E8 | IRERRAX | Non-zero AX value currently set |

Table 299. (continued)

| Len | Type | Value | Name | Description |
|--|----------|-------|----------|--|
| 2 | NUMB HEX | 00EC | IRERRGMA | GETMAIN failed for XCF part table or XCF retry storage |
| 2 | NUMB HEX | 00F0 | IRERRCAT | Connect SRB ATSET failed |
| 2 | NUMB HEX | 00F4 | IRERRXME | Cross memory environment error |
| 2 | NUMB HEX | 00F8 | IRERRIDL | Total data length invalid For SWITCH or PULL |
| 2 | NUMB HEX | 00FC | IRERRMPD | M/C check paging I/O or DAT error |
| 2 | NUMB HEX | 0100 | IRERRWEN | Bad name for EXITS= |
| 2 | NUMB HEX | 0104 | IRERRWEL | LOAD failed for IR work exit |
| 2 | NUMB HEX | 0108 | IRERRWEF | IR work exit is bad format |
| 2 | NUMB HEX | 010C | IRERRLCL | Error in LOGON/ADD connections list |
| Qualifiers for logon/add connection list error | | | | |
| 1 | NUMB HEX | 01 | IRERQDNM | Duplicate connection name in LCL or LCBs |
| 1 | NUMB HEX | 02 | IRERQEXC | Restricted options requested by an EXCI user |
| 1 | NUMB HEX | 03 | IRERQ#SN | Number of sessions is invalid |
| 1 | NUMB HEX | 04 | IRERQPNU | Primary sessions requested by a non-unique user or LCL end flag cleared asynchronously |
| Error codes continued | | | | |
| 2 | NUMB HEX | 0114 | IRERRXCQ | IXCQUERY failure, reason in R0 |
| 2 | NUMB HEX | 0118 | IRERRTKN | Token not found - dynamic ADD |
| 2 | NUMB HEX | 011C | IRERRSCV | SCTE already built by an incompatible version of DFHIRP |
| 2 | NUMB HEX | 0120 | IRERRRSM | MVS RESMGR failed - 1st 2 bytes of RF is RESMGR return code |
| 2 | NUMB HEX | 0124 | IRERRSIZ | Max. size exceeded for SCACB, LCBE vector, LCB block, SCCB block or LCBEX block |
| 2 | NUMB HEX | 0128 | IRERRTSW | Non-zero POST code from TRANSWAP |
| 2 | NUMB HEX | 012C | IRERRSN# | No unused session numbers left for an XCF CONNECT request |

Table 299. (continued)

| Len | Type | Value | Name | Description |
|-----|----------|-------|-------------------|---|
| 2 | NUMB HEX | 0130 | IRERRMTM | LCBFJOIN set at start of IRCJOIN but XCF member token not present in LCB - probably caused by a previous ABEND during IXCJOIN |
| 2 | NUMB HEX | 0134 | IRERRSCM | The LACB that currently exists was built by an incompatible version of DFHIRP |
| 2 | NUMB HEX | 0138 | IRERRXCF | Co-located systems, or systems in the same MVS image cannot connect if they belong to different XCF GROUPS |
| 2 | NUMB HEX | 013C | IRERRXCF_INV_NAME | Specified XCF Group Name does not conform to XCF naming conventions |
| 2 | NUMB HEX | 0FFF | IRERRINVHW | DFHIRP is being run on non z/Architecture hardware |

ISMF - ISC IP Message Formats

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The name of this header is defined in constant ISHH_NAME. It is the main HTTP header present on all protocol(IPIC) HTTP requests and responses.

The IS HTTP header is added by the ISSR send_request and send_response functions and inspected by the ISRR process_input_queue function to determine what action to take on receipt of incoming IPIC data.

It has a prefix and a data component.

The conversation ID, ishh_conv_id, relates the message to its session. If a new conversation is to be started on a particular previous session, for example to implement the CICS RM Implicit Forget protocol, the ishh_prev_conv_id field must be set to the conversation ID that used that session previously. Otherwise it should be left blank.

The ishh_msg_seqno is incremented for each new request within a conversation. This number is allowed to wrap back to 1 after 999999. The reply carries the same ishh_msg_seqno as the request to which it relates.

There may be multiple chain elements within an IS request or response. Each IS chain element is an HTTP request or response message.

The first or only chain element within a request should have ishh_chain_seqno = 1.

A sender must wait for a pacing response after every four messages. A pacing message carries no body data.

IS HTTP msgs are:

ISHH_DATA

half duplex flip-flop, conversation level messages. Change direction is implied at the end of every message, or chain of messages.

ISHH_EXPD

expedited conversation level command messages that carry no body data; may be sent with or against the conversation level flow. ishh_conv_state should be set to ishh_end, indicating that no reply to the conversation level command is expected.

ISHH_CMD

connection level command messages are at the IPCONN level and carry no body data; the ishh_conv_id and ishh_conv_state are ignored.

Table 300.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---------------------------------|
| (0) | STRUCTURE | 50 | ISHH_PREFIX | |
| (0) | CHARACTER | 10 | ISHH_PREFIX_V1 | fixed part of ishh at v1 |
| (0) | CHARACTER | 1 | ISHH_MAJOR_VERSION | |
| (1) | CHARACTER | 1 | ISHH_MINOR_VERSION | |
| (2) | CHARACTER | 1 | ISHH_MSG_TYPE | message type: D, C, X |
| (3) | CHARACTER | 1 | ISHH_CONV_STATE | conversation state: B, I, E, O |
| (4) | CHARACTER | 6 | ISHH_CONV_ID | conversation id correlator |
| (A) | CHARACTER | 0 | ISHH_PREFIX_END_V1 | end of fixed part of ishh at v1 |
| (A) | CHARACTER | 8 | ISHH_PREFIX_V2 | fixed part of ishh at v2 |
| (A) | CHARACTER | 6 | ISHH_PREV_CONV_ID | previous conv id correlator |
| (10) | CHARACTER | 2 | ISHH_REQUEST_TYPE | type if request flowed |
| (12) | CHARACTER | 0 | ISHH_PREFIX_END_V2 | end of fixed part of ishh at v2 |
| (12) | CHARACTER | 32 | ISHH_PREFIX_V3 | fixed part of ishh at v3 |
| (12) | CHARACTER | 16 | ISHH_CONV_ID8 | previous conv id correlator |
| (22) | CHARACTER | 16 | ISHH_PREV_CONV_ID8 | conv id correlator |
| (32) | CHARACTER | 0 | ISHH_PREFIX_END_V3 | end of fixed part of ishh at v2 |

Table 301.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|---------------------------------|
| (0) | STRUCTURE | 31 | ISHH_TYPE_DEP | msg type dependent part of ishh |
| (0) | CHARACTER | 31 | ISHH_CONV_DATA | data (msg_type=D) |
| (0) | CHARACTER | 13 | ISHH_CONV_DATA_PREFIX | fixed part of conv_data |
| (0) | CHARACTER | 6 | ISHH_MSG_SEQNO | message no. w/n conversation |
| (6) | CHARACTER | 1 | ISHH_CHAIN | chain indicator: F, M, L, P |
| (7) | CHARACTER | 6 | ISHH_CHAIN_SEQNO | chain element sequence no. |

Table 301. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|---|
| (D) | CHARACTER | 18 | * | |
| (D) | CHARACTER | 18 | ISHH_CONV_ATTACH_DATA | reqd if conv_state=B |
| (D) | CHARACTER | 4 | ISHH_ATTACH_TRAN_ID | mirror tran id |
| (11) | CHARACTER | 8 | ISHH_SRC_TOKEN | WLM SRC token |
| (19) | CHARACTER | 5 | ISHH_CCSID | client ccsid: ' ' for no conv, '-1 ' for default conv |
| (1E) | CHARACTER | 1 | ISHH_ENDIAN | client endian:0=little, 1=big |
| (0) | CHARACTER | 4 | ISHH_CMD_DATA | command (msg_type=C\|X) |
| (0) | CHARACTER | 2 | ISHH_CMD_ID | command |
| (2) | CHARACTER | 2 | * | reserved |

--

This name of this header is defined in constant ISUH_NAME.

It should only be present when using CICS recovery protocol.

The IS HTTP uowid header is added by the ISSR send_request function when a new transaction is to be attached in the partner system.

The data it contains is binary data, unpacked and converted to ASCII for transmission over HTTP.

Table 302.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---------------|
| (0) | STRUCTURE | 54 | ISUH | |
| (0) | CHARACTER | 54 | ISUH_UOW_ID | Remote UOW ID |

--

This name of this header is defined in constant ISAH_NAME.

It should only be present when a START has been issued where a TRUE set adapter data and that START was found to be remote. If this header is present there will not be an ODR header.

The IS HTTP adapter header is added by the ISSR send_request function when a new transaction is to be attached in the partner system.

The data it contains is binary data, unpacked and converted to ASCII for transmission over HTTP.

Table 303.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|------------------------|
| (0) | STRUCTURE | 512 | ISAH | |
| (0) | CHARACTER | 512 | ISAH_ADAPTER_DATA | Flattened adapter data |

--

The generic field header format.

Table 304.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--------------------------------|
| (0) | STRUCTURE | 6 | ISFLD | |
| (0) | UNSIGNED | 4 | ISFLD_LENGTH | Field length, including itself |
| (4) | UNSIGNED | 2 | ISFLD_TYPE | Field type number |
| (6) | CHARACTER | 0 | ISFLD_DATA | Field data |

--

The Capability Exchange request message (Type 1).

When an IPIC connection is established between two CICS systems, or between CICS and a JCA client, an instance of the capability exchange message is sent by the initiator, immediately after the first socket (WB session) is opened, before the connection can be used for any other work.

The Capability Exchange both identifies the partner and defines any functional constraints it may have.

The IS HTTP headers (ISHH) associated with the capability exchange messages have a convid of 0.

When the initiator of a connection is a CICS system, this message is triggered by SET IPCONN ACQUIRED. This SPI command attaches transaction CISC which issue DFHISCO acquire_connection to create a socket and send a Capability Exchange to the partner.

The partner CICS attaches the IPIC TCPIPSERVICE protocol transaction, CISS by default, to issue DFHISCO initialize_connection. The initialize_connection function calls the acquire_connection routine to create a similar connection back to the initiator, to allow work to be started from the partner back to the connection initiator.

If the connection initiator has no requirement for a return connection e.g because it doesn't support inbound requests, the isce_callback_port should be set to ISCE_NO_PORT. (This is currently only supported for recovery protocol XA).

If the partner supports multiple sockets per IPCONN, a capability exchange request is sent for each socket opened. Second and subsequent capex requests use the isce_reqd_sessions field to indicate how many IS sessions are to be allocated to the new socket. Data following the comment isce_primary_data is ignored in secondary capex requests.

Table 305.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|----------------|
| (0) | STRUCTURE | 84 | ISCE | |
| (0) | CHARACTER | 68 | ISCE_V11 | length at v1.1 |
| (0) | CHARACTER | 2 | ISCE_PREFIX | |

Table 305. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------------|--|
| (0) | UNSIGNED | 1 | ISCE_MAJOR_VERSION | |
| (1) | UNSIGNED | 1 | ISCE_MINOR_VERSION | |
| (2) | UNSIGNED | 2 | ISCE_LEN_FIXED | length of fixed part |
| (4) | CHARACTER | 16 | ISCE_FULL_CLIENT_ APPLID | isce sender's applid |
| (4) | CHARACTER | 8 | ISCE_CLIENT_NETWORKID | to match target IPCONN |
| (C) | CHARACTER | 8 | ISCE_CLIENT_APPLID | to match target IPCONN |
| (14) | CHARACTER | 16 | ISCE_FULL_SERVER_ APPLID | client's view of partner |
| (14) | CHARACTER | 8 | ISCE_SERVER_NETWORKID | validated in server |
| (1C) | CHARACTER | 8 | ISCE_SERVER_APPLID | validated in server |
| (24) | UNSIGNED | 4 | ISCE_REQD_SESSIONS | no. sessions requested |
| (28) | BIT(8) | 1 | ISCE_FLAGS | |
| (28) | 1... | | ISCE_INITIATOR | 1=capex initiator |
| (28) | .1.. | | ISCE_SECONDARY_SOCKET | 1=capex on secondary socket |
| (28) | ..1. | | ISCE_IPV6_ADDRESS | 1=ipv6 addr used |
| (28) | ...1 | | ISCE_XA_ROLLBACK | 1=rollback mirror if appl-ication abend occurs |
| (28) | 1... | | ISCE_HA_CLUSTER_ CONNECT | 1=Request to connect to an HA cluster |
| (28) |1.. | | ISCE_HA_SPECIFIC_ CONNECT | 1=Request to connect to a specific region in an HA cluster |
| (28) |11 | | * | spare |
| isce_primary_data. Data after this point in the isce is ignored for secondary capex requests. | | | | |
| (29) | CHARACTER | 15 | ISCE_CALLBACK_IPADDR | |
| (38) | FULLWORD | 4 | ISCE_CALLBACK_PORT | NO=-1 |
| (3C) | UNSIGNED | 1 | ISCE_PREFERRED_ RECOVERY | 1=CICS, 2=XA |
| (3D) | BIT(8) | 1 | ISCE_SUPPORTED_ PROTOCOLS | protocols supported |
| (3D) | 1... | | ISCE_RECOV_CICS | |
| (3D) | .1.. | | ISCE_RECOV_XA | |
| (3D) | ..11 1111 | | * | spare |
| (3E) | CHARACTER | 6 | ISCE_CONV_ID | copy of conv_id |
| (44) | CHARACTER | 16 | ISCE_V31 | v3.1 fixed extensions |
| (44) | CHARACTER | 16 | ISCE_CONV_ID8 | copy of ishh_conv_id8 |
| (54) | CHARACTER | 0 | ISCE_SUBFIELDS | start of variable data |

Table 306.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------------|
| (0) | STRUCTURE | * | ISCE_SUB | Argument subfield |
| (0) | CHARACTER | 3 | ISCE_SUB_PREFIX | Length of subfield |
| (0) | UNSIGNED | 2 | ISCE_SUB_LEN | Length of subfield |

Table 306. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|---------------|
| (2) | UNSIGNED | 1 | ISCE_SUB_TYPE | Subfield type |
| (3) | CHARACTER | * | ISCE_SUB_DATA | Argument data |

--

The Capability Exchange response message (Type 2).

When iscer_response is iscer_exception, iscer_reason may take any of the following values:

REASON(AUTOINSTALL_FAILED)

No IPCONN was found to match an incoming IPIC connection and capability exchange and the subsequent autoinstall attempt was disallowed or failed.

REASON(INVALID_PARTNER_STATE)

A capability exchange request was received for an IPCONN whose state is invalid. The IPCONN must be inservice and not already acquired.

REASON(INVALID_IPCONN_STATE)

An ISCO ACQUIRE_CONNECTION has been issued for an IPCONN whose state is invalid. The IPCONN must be inservice and released.

REASON(IPCONN_NOT_FOUND)

An ISCO ACQUIRE_CONNECTION has been issued for an IPCONN which no longer exists.

REASON(ISCE_ERROR)

The capability exchange request was determined to be invalid and rejected by the partner CICS.

REASON(ISCE_INVALID_APPLID)

The server_applid, or its high level qualifier, in the capability exchange message does not match the partner CICS's local applid and high level qualifier.

REASON(ISCE_TIMED_OUT)

The TCPIPService transaction (CISS by default) has been attached to initialize a connection for an ipconn but it has not received its initial data, the capability exchange request, within the timeout period defined in its transaction profile.

REASON(ISCE_BAD_RECOV)

A capability exchange request has been received that contains an unsupported isce_preferred_recovery value and no matching isce_in.isce_supported_protocols flags are set to fallback to.

REASON(ISCER_BAD_RESPONSE)

The callback capability exchange response contains a bad isco response and reason from the partner CICS.

REASON(ISCER_ERROR)

The callback capability exchange response was determined to be invalid.

REASON(ISCER_HTTP_ERROR)

The callback capability exchange response contained a bad http status code.

REASON(ISCER_TIMED_OUT)

DFHISCO acquire_connection has not received a response to its capability exchange request within the timeout period specified.

REASON(SESSION_OPEN_FAILED)

While acquiring an ipconn, DFHISCO has failed to open a web session to the partner host defined in the ipconn.

REASON(SHUTDOWN)

A call has been made to DFHISCO to acquire or initialize an ipconn but CICS has been shutdown before the function completed.

REASON(TCPIP_CLOSED)

DFHISCO acquire_connection has been called for an ipconn but tcpip is closed.

REASON(TCPIPService_MISMATCH)

A capability exchange request was received for an IPCONN which

is defined as using a different tcpip service from that used for the capability exchange.
 REASON(TCPIP_SERVICE_NOT_FOUND)
 Either acquire_connection has been called for an ipconn but the tcpip service named in the ipconn is not installed or release_connection has been called for a tcpip service that is no longer installed.
 REASON(TCPIP_SERVICE_NOT_OPEN)
 DFHISCO acquire_connection has been called for an ipconn but the tcpip service named in the ipconn is not open.
 REASON(NO_IPCONN)
 DFHISCO acquire or release_connection has been called for a tcpip service that has no ipconn referencing it.
 REASON(ISCER_ONE_WAY_IPCONN)
 The caller requires a two-way connection but the partner IPCONN is defined as one-way.
 REASON(ISCER_SECURITY_VIOLATION)
 The security credentials of the caller are not
 REASON(ISCER_SEC_SOCKET_ERROR)
 An error occurred while attempting to obtain a secondary socket.
 REASON(ISCER_CLIENT_CONNECTION_CLOSED)
 The client connection has been closed.
 REASON(ISCER_INVALID_HA_TCPIP_SERVICE)
 TCPIP attributes in server region are invalid for HA.
 REASON(ISCER_HA_RESOURCE_MISMATCH)
 Resource definitions in client and server regions to establish a high availability connection do not match.

Table 307.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|----------------------|
| (0) | STRUCTURE | 52 | ISCER | |
| (0) | CHARACTER | 50 | ISCER_V11 | length at v1.1 |
| (0) | CHARACTER | 2 | ISCER_PREFIX | |
| (0) | UNSIGNED | 1 | ISCER_MAJOR_VERSION | |
| (1) | UNSIGNED | 1 | ISCER_MINOR_VERSION | |
| (2) | UNSIGNED | 1 | ISCER_RESPONSE | isco_response |
| (3) | UNSIGNED | 1 | ISCER_REASON | isco_reason |
| (4) | UNSIGNED | 4 | ISCER_MAX_SESSIONS | max sessions allowed |
| (8) | BIT(64) | 8 | ISCER_CAPABILITIES | system capabilities |
| (8) | BIT(8) | 1 | IS_PROTOCOLS | protocols supported |
| (8) | 1... .. | | IS_RECOV_CICS | |
| (8) | .1.. .. | | IS_RECOV_XA | |
| (8) | ..1. | | IS_ISHH_V2 | |
| (8) | ...1 | | IS_IMPLICITFORGET | |
| (8) | 1... | | IS_IPV6_ADDRESSING | |
| (8) |1.. | | IS_IDPROP | |
| (8) |1. | | IS_ISHH_V3 | |
| (8) |1 | | IS_ODR_GT_384 | |
| (9) | BIT(8) | 1 | IS_FUNCTIONS | functions supported |
| (9) | 1... .. | | IS_SYNCLEVEL2 | |
| (9) | .1.. | | IS_DPL | |

Table 307. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------------|-------------------------------|
| (9) | ..1. | | IS_CONTAINER | |
| (9) | ...1 | | IS_START_CANCEL | |
| (9) | 1... | | IS_TRANSACTION_ ROUTING | routing |
| (9) |1.. | | IS_REMOTE_SCHEDULES | |
| (9) |1. | | IS_ENHANCED_ROUTING | |
| (9) |1 | | IS_FILE_CONTROL | |
| (A) | BIT(8) | 1 | IS_FUNCTIONS2 | more functions supported |
| (A) | 1... | | IS_MIRRORLIFE | |
| (A) | .1.. | | IS_TRANSIENT_DATA | |
| (A) | ..1. | | IS_TEMPORARY_STORAGE | |
| (A) | ...1 | | IS_TIMEOUT | |
| (A) | 1... | | IS_ESI | |
| (A) |1.. | | IS_EDF | |
| (A) |1. | | IS_IMS | |
| (A) |1 | | IS_ICRX_ON_START | |
| (B) | BIT(8) | 1 | IS_FUNCTIONS3 | more supported |
| (B) | 1... | | IS_HA | |
| (B) | .1.. | | IS_CAC | |
| (B) | ..1. | | IS_TRANSACTION_ CHANNEL | |
| (B) | ...1 1111 | | * | spare |
| (C) | BIT(32) | 4 | * | spare |
| (10) | CHARACTER | 16 | ISCER_FULL_CLIENT_ APPLID | client fully qualified applid |
| (10) | CHARACTER | 8 | ISCER_CLIENT_ NETWORKID | |
| (18) | CHARACTER | 8 | ISCER_CLIENT_APPLID | |
| (20) | CHARACTER | 16 | ISCER_FULL_SERVER_ APPLID | server fully qualified applid |
| (20) | CHARACTER | 8 | ISCER_SERVER_ NETWORKID | |
| (28) | CHARACTER | 8 | ISCER_SERVER_APPLID | |
| (30) | UNSIGNED | 1 | ISCER_RECOV_PROTOCOL | 1=CICS, 2=XA |
| (31) | BIT(8) | 1 | ISCER_RESULTS | negotiated values |
| (31) | 1... | | ISCER_SEC_VERIFY | auth: verify user sec |
| (31) | .1.. | | ISCER_SEC_IDENTIFY | auth: identify user sec |
| (31) | ..1. | | ISCER_SEC_CERTIFICATE | auth: certificate sec |
| (31) | ...1 | | ISCER_RESYNC | resync possible |
| (31) | 1... | | ISCER_HA_CLUSTER_ CONNECT_RESPONSE | HA: response |
| (31) |111 | | * | spare |
| (32) | CHARACTER | 2 | ISCER_V21 | v2.1 fixed extensions |
| (32) | UNSIGNED | 2 | ISCER_LEN_FIXED | length of fixed part |
| (34) | CHARACTER | 0 | ISCER_SUBFIELDS | start of variable data |

Table 308.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|-----------------------------|
| (0) | STRUCTURE | 48 | ISCER_SUB | Argument subfield |
| (0) | CHARACTER | 4 | ISCER_SUB_PREFIX | Length of subfield |
| (0) | UNSIGNED | 2 | ISCER_SUB_LEN | Length of subfield |
| (2) | UNSIGNED | 1 | ISCER_SUB_TYPE | Subfield type |
| (3) | UNSIGNED | 1 | * | spare |
| (4) | CHARACTER | 44 | ISCER_SUB_DATA | sub_type dependent arg data |
| (4) | UNSIGNED | 4 | ISCER_SUB_NUM_SOCKETS | Max sockets allowed |
| (4) | UNSIGNED | 4 | ISCER_SUB_MIRRORLIFE_DATA | Mirrorlife field |
| (4) | UNSIGNED | 1 | ISCER_SUB_MIRRORLIFE_VALUE | Mirrorlife value |
| (5) | UNSIGNED | 3 | * | Spare |
| (4) | CHARACTER | 44 | ISCER_SUB_SPECIFIC_DATA | HA spec data |
| (4) | FULLWORD | 4 | ISCER_SUB_SPECIFIC_PORT | HA spec port |
| (8) | UNSIGNED | 1 | ISCER_SUB_SPECIFIC_IPFAMILY | HA spec ipfamily |
| (9) | CHARACTER | 39 | ISCER_SUB_SPECIFIC_IPADDRESS | HA spec ipaddr |
| (9) | CHARACTER | 15 | IPV4 | |
| (9) | CHARACTER | 39 | IPV6 | |
| (4) | CHARACTER | 0 | * | |

--

The Bracket Initiation Stopped (BIS) request message (Type 3) and the Bracket Initiation Stopped (BISR) response message (Type 4) have the same format.

When an IPIC connection between two CICS systems is released, a drain command is sent by the initiator causing both sides to quiesce: current and queued work is processed, no new work is accepted. Once all activity on the ipserver connection has terminated, a BIS message and response is exchanged prior to closing the web session (socket) IF any send session is flagged send or receive forget pending i.e if any conversation on that session has terminated leaving an RM link pending.

The BIS message carries a list of conversations for which forget is pending.

Table 309.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|-------------------------|
| (0) | STRUCTURE | 6 | ISBIS | |
| (0) | CHARACTER | 6 | ISBIS_FIXED | minimum fixed part |
| (0) | UNSIGNED | 2 | ISBIS_LEN_FIXED | length of fixed part |
| (2) | UNSIGNED | 2 | ISBIS_LEN_CONV_ENTRY | length of a conv entry |
| (4) | UNSIGNED | 2 | ISBIS_NUM_CONVS | Number of conversations |
| (6) | CHARACTER | 0 | ISBIS_CONV_LIST | List of conversations |

Table 310.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------------------|
| (0) | STRUCTURE | 6 | ISBIS_CONV | Conversation to complete |
| (0) | UNSIGNED | 4 | ISBIS_CONV_ID | Conversation id |
| (4) | UNSIGNED | 2 | ISBIS_CONV_RESP | BIS response |

Table 311.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|--------------------------|
| (0) | STRUCTURE | 18 | ISBIS_CONV2 | Conversation to complete |
| (0) | CHARACTER | 16 | ISBIS_CONV2_ID8 | Conversation id8 |
| (10) | UNSIGNED | 2 | ISBIS_CONV2_RESP | BIS response |

--

The Syncpoint Command field (Type 6).

The normal syncpoint exchange is as follows:- Initiator

-----Prepare-----> Agent 1 <-----Request

Commit-----

Initiator -----Request Commit-----> Agent 2 (=last agent)

<-----Committed----- Forget----->

Initiator -----Committed-----> Agent 1

<-----Forget-----

Alternate flows - When the decision is to roll back the UOW, then the coordinator sends an FMH7 as the data portion of the Type 6 field.

Resync Flows - Type 6 fields are also used in resync messages, exchanged between CICS regions. The are preceded by a Type A field except in the case of a Forget flow, which contains only the Type 6 forget field.

XA Resync Flows - An XA client may scheule a resync attempt with CICS by calling the CISX transaction and passing it a message containing a Type 6 field followed by a Type C field. The Type 6 field indicates the decision for the UOW, which must either be COMMITTED or FMH7 (= ROLLBACK).

Structure of the PS Header used for 2PC protocol messages

Table 312.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-------------|
| (0) | STRUCTURE | 8 | PS_HEADER | |
| (0) | UNSIGNED | 2 | PS_LL | |
| (2) | CHARACTER | 6 | PS_TP_DATA | |
| (2) | UNSIGNED | 1 | PS_LEN | |
| (3) | UNSIGNED | 1 | PS_TYPE | |
| (4) | UNSIGNED | 1 | PS_FLAGS | |
| (5) | UNSIGNED | 1 | PS_CMD | |
| (6) | CHARACTER | 2 | PS_SPC_MOD | |
| (6) | UNSIGNED | 1 | PS_SPC_MOD0 | |

Table 312. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|-------------|-------------|
| (7) | UNSIGNED | 1 | PS_SPC_MOD1 | |

--

The Conversation Error field (Type 7).

IS7 messages are similar in intent and content to the SNA FMH7. Their purpose is to notify a partner of an error situation. They can be sent from client to server or server to client at any time during a conversation whether the sending partner is in send or receive state.

SENSE CODES

Many of the sense codes used are equivalent, and have the same value as those used previously in SNA FMH7 messages (see the SNA Formats manual). However, as this function is developed it is expected that new IS domain specific sense codes will be introduced. Those beginning 0000 are IPIC specific.

- 00000001 ROUTED_TRANS_ABENDED

transaction routed task abended

- 080F0983 ACCESS_DENIED

security error.

- 080F6051 SECURITY_NOT_VALID

security error.

- 08240000 TASK_BACKED_OUT

conversation id no longer valid; task was backed out.

- 08390000 IPCONN QUIESCING

transaction attach rejected; the partner system is quiescing.

- 084C0000 NOT_AVAIL_NO_RETRY

transaction attach rejected; trans id known but disabled.

- 08640001 DEALLOCATE_ABEND_SVC

mirror has abended.

- 1008600B RESOURCE_FAILURE

system error.

- 10086021 TPN_NOT_RECOGNIZED

transaction attach rejected; unknown transid.

Subfields

- Type 1 - the text of an associated error message.

Table 313.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|--------------------------------|
| (0) | STRUCTURE | 7 | IS7_DATA | Type 7 field data |
| (0) | UNSIGNED | 2 | IS7_LEN_FIXED | Length of fixed part |
| (2) | BIT(32) | 4 | IS7_SENSE | Sense code |
| (6) | BIT(8) | 1 | IS7_MODIFIER | Modifier |
| (6) | 1... | | IS7_LOG_DATA | Error msg present |
| (6) | .1.. | | IS7_SYSTEM_SESSION | IS7 sent from system session ! |
| (6) | ..11 1111 | | * | Reserved |

Table 314.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|----------------------|
| (0) | STRUCTURE | * | IS7_SUB1 | Subfield 1 (message) |
| (0) | UNSIGNED | 2 | IS7_SUB1_LEN | Length of subfield |
| (2) | UNSIGNED | 1 | IS7_SUB1_TYPE | Subfield type 1 |
| (3) | CHARACTER | * | IS7_SUB1_MSG | Message text |

--

The Security field (Type 8).

Subfields

- Type 1 - Userid
- Type 2 - Password

Table 315.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------------|-----------|-----|------------|----------------------|
| (0) | STRUCTURE | 3 | IS8_DATA | Type 8 subfield data |
| (0) | UNSIGNED | 2 | IS8_LEN | Length of subfield |
| including this subfield header | | | | |
| (2) | UNSIGNED | 1 | IS8_TYPE | Subfield type |
| (3) | CHARACTER | 0 | IS8_STRING | Subfield string |

Fields at is8_string

Table 316.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|-------------|
| (0) | STRUCTURE | 100 | IS8_STRING_FIELDS | |
| (0) | CHARACTER | 10 | IS8_STRING_USERID | |
| (0) | CHARACTER | 100 | IS8_STRING_PASSWORD | |
| (0) | UNSIGNED | 1 | IS8_STRING_PASSWORD_ TYPE | |
| (0) | CHARACTER | 10 | IS8_STRING_GROUPID | |

--

The External Security Interface field (Type 9).

Subfields

- Type 1 - Userid
- Type 2 - Password (1-8 chars) or Password Phrase (9-100 chars)

Table 317.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|----------------------|
| (0) | STRUCTURE | 0 | IS9_DATA | Type 9 subfield data |
| (0) | CHARACTER | 0 | IS9_GDS_DATA | GDS data |

Input_TP_LLID

The Input_TP_LLID consists of a second LLID pair and data
TP_LL is the total length of the TP record.
TP_ID is the indicator for SIGN-ON or SIGN-ON/CHANGE_PASSWORD.
TP_Data contains the data for this LLID. It is a series of
variable length subfields.

The Input_TP_LLID has the following format:

| L | I | Input_Data | Input_Data | Input_Data |
| L | D | SF(1) | SF(2) | SF(3) |

Table 318.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-------------|
| (0) | STRUCTURE | * | INPUT_TP_LLID | |
| (0) | UNSIGNED | 2 | INPUT_TP_LL | |
| (2) | UNSIGNED | 2 | INPUT_TP_ID | |
| (4) | CHARACTER | * | INPUT_TP_DATA | |

Input_SF_LID

Each Input_SF_LID consists of a one byte length, an Id field
and a variable length data field.
SF_L is the total length of the SF record.
SF_Id indicates which subfield type it is.
SF_Data contains the data for this subfield.

The subfields have the following format:

| L | I | SF_Data |
| d | |

Table 319.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-------------|
| (0) | STRUCTURE | * | INPUT_SF_LID | |
| (0) | UNSIGNED | 1 | INPUT_SF_L | |

Table 319. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-------------|
| (1) | UNSIGNED | 1 | INPUT_SF_ID | |
| (2) | CHARACTER | * | INPUT_SF_DATA | |

Output_GDS_LLID

The Output Data consists of an initial LLID pair and data
GDS_LL is the total length of Output Data.
GSD_ID is the indicator for SIGN-ON data.
GDS_Data contains the data to be passed to the partner.

The Output_GDS_LLID has the following format:

| | | |
|---|---|-----------------|
| L | I | Output_GDS_Data |
| L | D | |

Within the Output_GDS_Data exists a second LLID pair called the
TP record

TP_LL is the total length of the TP record.
TP_ID is the indicator for SIGN-ON reply data.
TP_Data contains the data for this LLID. It is a series of
variable length subfields.

The Output_TP_LLID has the following format:

| | | | | |
|---|---|-------------|-------------|-------------|
| L | I | Output_Data | Output_Data | Output_Data |
| L | D | SF(1) | SF(2) | SF(3) |

Each subfield has the following format:

| | | |
|---|---|---------|
| L | I | SF_Data |
| | d | |

Table 320.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------|
| (0) | STRUCTURE | 229 | OUTPUT_GDS_LLID | |
| (0) | UNSIGNED | 2 | OUTPUT_GDS_LL | |
| (2) | UNSIGNED | 2 | OUTPUT_GDS_ID | |
| (4) | CHARACTER | 225 | OUTPUT_GDS_DATA | |
| (4) | UNSIGNED | 2 | OUTPUT_TP_LL | |
| (6) | UNSIGNED | 2 | OUTPUT_TP_ID | |
| (8) | CHARACTER | 221 | OUTPUT_TP_DATA | |

--

The ICRX Security field (Type 19).

This field may appear together with or without an IS-8 field in a
message.

The format of the ICRX data is not known to the IS domain, and can

be found in the IRRPICRX macro.

Table 321.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|------|----------------|-----------------------|
| (0) | STRUCTURE | 2000 | IS19_DATA | Type 19 subfield data |
| (0) | CHARACTER | 2000 | IS19_ICRX_DATA | ICRX data ! |

Need to pull in the GDS structure from ISXS at some point

--

The UOWID recovery field (Type A).

The Type A field is included as part of a DPL request between CICS regions. It contains the coordinating UOWID, that is then added to the participant's RM link for its principle facility.

The Type A field also forms the first part of a resync message, sent between CICS regions. If the corresponding UOW, or an RM link containing it, cannot be found then the response sent back contains only a Type A field with the unresolved UOWID in it, indicating the resync attempt for that UOW has failed.

Table 322.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-------------------------|
| (0) | STRUCTURE | 8 | UOWID_DATA | Type A field data |
| (0) | CHARACTER | 8 | UOWID_VALUE | Unit of Work Identifier |

--

The XID recovery field (Type B).

A Type B field is included in a DPL request from an XA client when the request is intended to form part of an extended UOW. CICS takes the XID from the Type B field and stores it with the corresponding UOW. It can then be matched to a resync attempt should one be necessary.

Table 323.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-----------------------|
| (0) | STRUCTURE | 136 | XID_DATA | Type B field data |
| (0) | FULLWORD | 4 | XID_FORMAT_ID | Format ID |
| (4) | CHARACTER | 66 | XID_GTRID | Global Transaction ID |
| (4) | UNSIGNED | 2 | XID_GTRID_LENGTH | |
| (6) | CHARACTER | 64 | XID_GTRID_DATA | |
| (46) | CHARACTER | 66 | XID_BQUAL | Branch Qualifier |
| (46) | UNSIGNED | 2 | XID_BQUAL_LENGTH | |
| (48) | CHARACTER | 64 | XID_BQUAL_DATA | |

--

The XID recovery list field (Type C).

An XA client can request that CICS carries out a search for any in-doubt UOWs that have XIDs associated with them. It does so by sending a message to CICS to start transaction CISX, passing it no data. The transaction runs and returns a Type C field. The field consists of 0 to N xidrl_item blocks of data.

An XA client can ask CICS to carry out a resync attempt for a specific UOW, by calling the CISX transaction and passing it a message containing a Type 6 field followed by a Type C field. The Type 6 field contains the UOWs decision, and the Type C contains a single recovery list item - UOW token + XID. The UOW token may be set to null when the XA client does not have access to this information.

Table 324.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-----------------------------|
| (0) | STRUCTURE | * | XIDRL_LIST | Recovery list |
| (0) | UNSIGNED | 4 | XIDRL_ITEMS | Number of items in the list |
| (4) | CHARACTER | * | XIDRL_LIST_START | Start of list items |

Table 325.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------------|
| (0) | STRUCTURE | 140 | XIDRL_ITEM | Recovery list item |
| (0) | UNSIGNED | 4 | XIDRL_UOW_TOKEN | RMLN UOW token |
| (4) | CHARACTER | 136 | XIDRL_XID_VALUE | |

--

The ReSync Outcome field (Type C).

The Type C field is exchanged by a pair of CICS regions that are involved in a resync attempt relating to a particular connection. One region initiates the resync attempt and, when it has completed processing the RM links that it has found, sends a message comprising only of this field to the partner region. The partner then processes any RM links that it has and responds with its own Type C message.

Table 326.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------|
| (0) | STRUCTURE | 1 | RSO_DATA | Type C field data |
| (0) | CHARACTER | 1 | RSO_VALUE | Outcome value |

--

The API Request/Response field (Type 43). Note that the length field for the fixed length part is one byte rather than two to maintain consistency with SNA FMH43 so that the transformer code ported into DFHISXF can work unchanged. The same header is used for requests and responses. Request flows include subfields for the input parameters. Response flows include subfields for the output parameters.

Subfield types are assigned to all fields on a particular command

that can be shipped, as follows:
 FOR EXEC CICS LINK 02 program 04 length 06 commarea 08 transid 0A
 hex transid

Table 327.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|--------------------------------|
| (0) | STRUCTURE | 23 | IS43_DATA | Type 43 field data |
| (0) | UNSIGNED | 1 | IS43_LEN_FIXED | Length of fixed part |
| (1) | BIT(8) | 1 | IS43_FMH_TYPE | Old-style FMH number = 43x |
| (2) | CHARACTER | 1 | IS43_GROUP | API command group |
| (3) | CHARACTER | 1 | IS43_FUNCTION | API command function |
| (4) | CHARACTER | 1 | IS43_FMHXMOD | Old-style fmh field (not used) |
| (5) | CHARACTER | 1 | IS43_FMHXFXCT | Old-style fmh field (not used) |
| (6) | UNSIGNED | 1 | IS43_OPTION_LEN | Command options length |
| (7) | CHARACTER | 7 | IS43_OPTIONS | Option bytes from ARG0 |
| (7) | CHARACTER | 2 | IS43_ARG_EXISTENCE | Argument existence bits |
| (9) | CHARACTER | 1 | IS43_COMMAND_FLAGS | Command modifier flags |
| (A) | CHARACTER | 4 | IS43_KEYW_EXISTENCE | Keyword existence bits |
| (E) | UNSIGNED | 1 | IS43_INVPROG_LEN | Invoking program name length |
| (F) | CHARACTER | 8 | IS43_INVPROG | Invoking program name |
| (17) | CHARACTER | 0 | IS43_SUBFIELDS | Start of subfields |

Table 328.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-----------------------------|
| (0) | STRUCTURE | * | IS43_SUB | Argument subfield |
| (0) | UNSIGNED | 2 | IS43_SUB_LEN | Length of subfield |
| (2) | UNSIGNED | 1 | IS43_SUB_TYPE | Subfield type (arg num x 2) |
| (3) | CHARACTER | * | IS43_SUB_DATA | Argument data |

--

The Channel header field (Type 44). This structure MUST match the definition of DFHCHAN in DFHAPCR. If present, this field will always follow an IS43, and will be followed by zero or more IS45s.

Table 329.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (0) | STRUCTURE | 40 | DFHCHAN | |
| (0) | UNSIGNED | 2 | CHAN_LEN | Length of channel header |
| (2) | CHARACTER | 8 | CHAN_EYE | Eye catcher |
| (A) | CHARACTER | 16 | CHAN_INAME | Name of channel |

Table 329. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-----------------------------|
| (1A) | UNSIGNED | 1 | CHAN_VERSION | Version of channel header |
| (1B) | CHARACTER | 5 | * | May be useful one day |
| (20) | UNSIGNED | 4 | CHAN_CCSD | Channel codepage (as CCSID) |
| (24) | UNSIGNED | 4 | CHAN_CNUM | Total number of containers |

--

The Container field (Type 45). This structure MUST match the definition of DFHCHDR in DFHAPCR. The container data follows immediately after the DFHCHDR fields. Note that the upper size limit for an individual container is currently 2G-1. The bin(32) length in the IS45 header allows for containers up to 4G-1-length(isfld)-length(dfhchdr), so it is sufficient for the time being. If containers longer than this are ever supported, a new IS field that allows splitting of a container into multiple fields will be required. Every instance of this field will always be preceded by either another IS45 or an IS44.

Table 330.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|------------------------------|
| (0) | STRUCTURE | 32 | DFHCHDR | |
| (0) | UNSIGNED | 2 | CHDR_LEN | length of container header |
| (2) | CHARACTER | 8 | CHDR_EYE | Eye catcher |
| (A) | CHARACTER | 16 | CHDR_CNAME | Name of container |
| (1A) | BIT(8) | 1 | CHDR_BITS | |
| (1A) | 1... | | CHDR_DELETED | Container is deleted |
| (1A) | .1.. | | CHDR_CHANGED | Container is changed |
| (1A) | ..1. | | CHDR_READONLY | Container is readonly |
| (1A) | ...1 | | CHDR_CICS | Container is owned by system |
| (1A) | 1111 | | * | |
| (1B) | CHARACTER | 1 | CHDR_DATATYPE | Datatype (see values below) |
| (1C) | UNSIGNED | 4 | CHDR_CCSD | Codepage (as CCSID) |

--

The Transaction Routing Attach field (Type 50).

This IS field is used to identify a request by a routing region for a transaction routed transaction to be attached.

It carries transaction identification and terminal identification parameters together with other parameter information for the transaction that is to be attached in an AOR.

It is also followed by argument fields that are created and interpreted by the IPIC Transaction Routing Transformer DFHAPRX.

Table 331.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------|-------------------------------|
| (0) | STRUCTURE | 32 | IS50_DATA | Type 50 field data |
| (0) | UNSIGNED | 2 | IS50_LEN | Length of field |
| (2) | CHARACTER | 28 | * | Terminal identification |
| (2) | CHARACTER | 8 | IS50_TERMINAL_OWNER_NETWORK | Network name of TOR |
| (A) | CHARACTER | 8 | IS50_TERMINAL_OWNER_NETNAME | Netname name of TOR |
| (12) | CHARACTER | 4 | IS50_TERMID | Terminal id in owning region |
| (16) | CHARACTER | 8 | IS50_TERMINAL_TOKEN | Terminal definition token |
| (1E) | UNSIGNED | 1 | IS50_PRIORITY | Priority value to pass to AOR |
| (1F) | BIT(8) | 1 | * | |
| (1F) | 1... | | IS50_TERMINAL_SHIPPABLE | Terminal shippable(yes) |
| (1F) | .1.. | | IS50_TERMINAL_APPC | Terminal is APPC device |
| (1F) | ..1. | | IS50_CHANNEL_SEND | Channel data is being sent |
| (1F) | ...1 | | IS50_SET_PRIORITY | Pass priority value to AOR |
| (1F) | 1111 | | * | |
| (20) | CHARACTER | 0 | IS50_ARGUMENTS | Start of arguments |

--

The Transaction Routing Inquire Request field (Type 51).

This IS field is used to identify a request issued by an application owning region to a routing region for terminal definition parameters. It also identifies a response.

For a response, this IS field carries AP domain parameter information in argument fields. This parameter information is a Builder Parameter Set that is supplied by ZC Builder modules (DFHBSxxx modules) from a DFHZCQ function INQUIRE and used as input to ZC Builder modules with a DFHZCQ function INSTALL to install a terminal definition in the AP domain of an application owning region.

Table 332.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|----------------------|
| (0) | STRUCTURE | 2 | IS51_DATA | Type 51 field data ! |
| (0) | UNSIGNED | 2 | IS51_LEN | Length of field ! |
| (2) | CHARACTER | 0 | IS51_ARGUMENTS | Start of arguments ! |

--

The Transaction Routing Relay Request field (Type 55).

This IS field is used to identify a terminal request issued in an application owning region that is to be relayed to a routing region. It also identifies a response.

It carries AP domain parameter information in argument fields that identify the terminal request or response. The argument fields are created and interpreted by the IPIC Transaction Routing Transformer DFHAPRX.

Table 333.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|----------------------|
| (0) | STRUCTURE | 2 | IS55_DATA | Type 55 field data ! |
| (0) | UNSIGNED | 2 | IS55_LEN | Length of field ! |
| (2) | CHARACTER | 0 | IS55_ARGUMENTS | Start of arguments ! |

--

The Transaction Routing Schedule Request field (Type 60).

This IS field is used to identify a remote schedule request. This could be a remote terminal request issued in response to a terminal START and flowing from the AOR to the TOR, or a remote delete request for a badly-disconnected terminal that had been running CRTE flowing from the TOR to the AOR.

The flow is sent by and received by DFHCRS.

Table 334.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-----------------------------------|
| (0) | STRUCTURE | 30 | IS60_DATA | Remote schedule request |
| (0) | UNSIGNED | 2 | IS60_LEN | Length of field |
| (2) | UNSIGNED | 2 | * | |
| (4) | CHARACTER | 2 | IS60_CRSTAT | Request status (CRSTAT) |
| (6) | CHARACTER | 4 | IS60_TRANSID | Name of transaction to be started |
| (CRSTRNID) | | | | |
| (A) | CHARACTER | 4 | IS60_TERMID | Terminal id in owning region |
| (CRSFQTID) | | | | |
| (E) | CHARACTER | 8 | IS60_TERMNAME | Netname of terminal (CRSFQTID) |
| (16) | CHARACTER | 8 | IS60_NETNAME | Network name of TOR (CRSNNAM) |

--

The Transaction Routing Schedule Response field (Type 61).

This IS field is used to identify a remote schedule response. This is the response to the IS60 remote schedule request described above.

The flow is sent by and received by DFHCRS.

Table 335.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---|
| (0) | STRUCTURE | 20 | IS61_DATA | Remote schedule response |
| (0) | UNSIGNED | 2 | IS61_LEN | Length of field |
| (2) | UNSIGNED | 2 | * | |
| (4) | UNSIGNED | 4 | IS61_RESPONSE | Response code (CRSRESPC) |
| (8) | CHARACTER | 8 | IS61_TARGET_APPLID | Name of new TOR to try (CRSR_TARGET_APPL) |
| (10) | CHARACTER | 4 | IS61_TOR_TERMID | Termid on TOR (CRSR_TOR_TERMID) |

--

The ACD field (Type 62).

This field may appear if application context needs to be passed on a request.

The format of the ACD data is not known to the IS domain, and can be found in DFHMNAC.

Table 336.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-----------------------|
| (0) | STRUCTURE | 4 | IS62_DATA | Type 62 subfield data |
| (0) | FULLWORD | 4 | IS62_ACD_LEN | ACD len |
| (4) | CHARACTER | 0 | IS62_ACD_DATA | ACD data |

Constants

Table 337.

| Len | Type | Value | Name | Description |
|---|-----------|-----------------------|---------------|-------------|
| Constants for the IS HTTP header names. The HTTP header names and character data will be converted to ASCII for transmission. ----- | | | | |
| 13 | CHARACTER | X-ibm-cics-is | ISHH_NAME | |
| 14 | CHARACTER | ARM_CORRELATOR | ISAC_NAME | |
| 17 | CHARACTER | X-ibm-cics-is-uow | ISUH_NAME | |
| 17 | CHARACTER | X-ibm-cics-is-odr | ISOH_NAME | |
| 21 | CHARACTER | X-ibm-cics-is-adapter | ISAH_NAME | |
| Values of major_version | | | | |
| 1 | CHARACTER | 1 | ISHH_MAJOR_V1 | |

Table 337. (continued)

| Len | Type | Value | Name | Description |
|--|-----------|-------|--------------------|--------------------------|
| 1 | CHARACTER | 2 | ISHH_MAJOR_V2 | |
| 1 | CHARACTER | 3 | ISHH_MAJOR_V3 | |
| 1 | CHARACTER | 3 | ISHH_MAJOR_CURRENT | |
| Values of minor_version | | | | |
| 1 | CHARACTER | 1 | ISHH_MINOR_V1 | |
| 1 | CHARACTER | 1 | ISHH_MINOR_CURRENT | |
| Values of ishh_chain | | | | |
| 1 | CHARACTER | F | ISHH_FIRST | first in chain |
| 1 | CHARACTER | M | ISHH_MIDDLE | middle in chain |
| 1 | CHARACTER | L | ISHH_LAST | last or only in chain |
| 1 | CHARACTER | P | ISHH_PACING | pacing response(no data) |
| Values of ishh_conv_state | | | | |
| 1 | CHARACTER | B | ISHH_BEGIN | first request in conv |
| 1 | CHARACTER | I | ISHH_IN | in conversation |
| 1 | CHARACTER | E | ISHH_END | final or only req/resp |
| 1 | CHARACTER | O | ISHH_ONLY | 1st + last msg |
| Values of ishh_msg_type | | | | |
| 1 | CHARACTER | D | ISHH_DATA | conversation data |
| 1 | CHARACTER | X | ISHH_EXPD | conversation level cmd |
| 1 | CHARACTER | C | ISHH_CMD | connection level command |
| Values of ishh_request_type | | | | |
| 2 | CHARACTER | FC | ISHH_FC | FC request |
| 2 | CHARACTER | IC | ISHH_IC | IC request |
| 2 | CHARACTER | LN | ISHH_DPL | DPL request |
| 2 | CHARACTER | TD | ISHH_TD | TD request |
| 2 | CHARACTER | TR | ISHH_TR | TR request |
| 2 | CHARACTER | TS | ISHH_TS | TS request |
| 2 | CHARACTER | | ISHH_OTHER | Non-EXEC request |
| ishh_ccsid, required for msg_type=D & conv_state=B, has value: - a 5 digit decimal IBM CCSID supported by dfhcnv or - blanks for no data conversion for e.g DPL commareas or - minus one for the default client code page (CLINTCP) to be used e.g. for when the input CCSID can not be determined | | | | |
| 5 | CHARACTER | | ISHH_NO_CONV | no data conversion |
| 5 | CHARACTER | -1 | ISHH_DEFAULT_CONV | use default code page |
| Values of ishh_endian for msg_type=D if conv_state=B | | | | |
| 1 | CHARACTER | 0 | ISHH_LITTLE_ENDIAN | little endian |
| 1 | CHARACTER | 1 | ISHH_BIG_ENDIAN | big endian |
| Values of ishh_cmd_id for ishh_msg_type=ISHH_CMD | | | | |
| 2 | CHARACTER | 01 | ISHH_DRAIN | drain |
| 2 | CHARACTER | 98 | ISHH_PING | ping |

Table 337. (continued)

| Len | Type | Value | Name | Description |
|--|-----------|-------|-------------------|----------------------|
| 2 | CHARACTER | 99 | ISHH_PONG | ping response |
| Both the connection level ping flows consist of an IS Header and a zero length message body. Values of ishh_cmd_id for ishh_msg_type=ISHH_EXPD | | | | |
| 1 | CHARACTER | 5 | ISHH_PURGE | Any version of purge |
| 2 | CHARACTER | 50 | ISHH_TIMEOUT | timeout |
| 2 | CHARACTER | 51 | ISHH_PURGE_NORMAL | purge |
| 2 | CHARACTER | 52 | ISHH_PURGE_FORCE | forcepurge |
| 2 | CHARACTER | 53 | ISHH_PURGE_KILL | kill |
| Constants for the types of the IS message fields. All data within the request or response message is preceded by a header containing one of these types. | | | | |
| ----- | | | | |
| TYPE 1 - CAPABILITY EXCHANGE REQUEST | | | | |
| 2 | DECIMAL | 1 | ISFLD_TYPE_CE | |
| TYPE 2 - CAPABILITY EXCHANGE RESPONSE | | | | |
| 2 | DECIMAL | 2 | ISFLD_TYPE_CER | |
| TYPE 3 - BRACKET INITIATION STOPPED (BIS) REQUEST | | | | |
| 2 | DECIMAL | 3 | ISFLD_TYPE_BIS | |
| TYPE 4 - BRACKET INITIATION STOPPED (BIS) RESPONSE | | | | |
| 2 | DECIMAL | 4 | ISFLD_TYPE_BISR | |
| TYPE 6 - SYNCPOINT COMMAND (= SNA PS Header) | | | | |
| 2 | DECIMAL | 6 | ISFLD_TYPE_SPC | |
| TYPE 7 - CONVERSATION ERROR (= SNA FMH7) | | | | |
| 2 | DECIMAL | 7 | ISFLD_TYPE_ERROR | |
| TYPE 8 - SECURITY | | | | |
| 2 | DECIMAL | 8 | ISFLD_TYPE_SEC | |
| TYPE 9 - ESI | | | | |
| 2 | DECIMAL | 9 | ISFLD_TYPE_ESI | |
| TYPE 10 - UNIT OR WORK ID RECOVERY DATA | | | | |
| 2 | DECIMAL | 10 | ISFLD_TYPE_UOWID | |
| TYPE 11 - XID RECOVERY DATA | | | | |
| 2 | DECIMAL | 11 | ISFLD_TYPE_XID | |
| TYPE 12 - XID RECOVERY LIST | | | | |
| 2 | DECIMAL | 12 | ISFLD_TYPE_XIDRL | |
| TYPE 13 - RESYNC OUTCOME | | | | |
| 2 | DECIMAL | 13 | ISFLD_TYPE_RSO | |
| TYPE 19 - ICRX = ID-propagation | | | | |
| 2 | DECIMAL | 25 | ISFLD_TYPE_ICRX | |
| TYPE 43 - API REQUEST/RESPONSE (= SNA FMH43) | | | | |
| 2 | DECIMAL | 67 | ISFLD_TYPE_API | |

Table 337. (continued)

| Len | Type | Value | Name | Description |
|--|---------|-------|---------------------------------|--------------------|
| TYPE 44 - CHANNEL HEADER | | | | |
| 2 | DECIMAL | 68 | ISFLD_TYPE_CHANNEL | |
| TYPE 45 - CONTAINER | | | | |
| 2 | DECIMAL | 69 | ISFLD_TYPE_CONTAINER | |
| TYPE 46 - FREE REQUEST | | | | |
| 2 | DECIMAL | 70 | ISFLD_TYPE_FREE | |
| TYPE 50 - TRANSACTION ROUTING ATTACH REQUEST | | | | |
| 2 | DECIMAL | 80 | ISFLD_TYPE_TR_ATTACH | |
| TYPE 51 - TRANSACTION ROUTING INQUIRE REQUEST/RESPONSE | | | | |
| 2 | DECIMAL | 81 | ISFLD_TYPE_TR_INQUIRE | |
| TYPE 55 - TRANSACTION ROUTING RELAY REQUEST/RESPONSE | | | | |
| 2 | DECIMAL | 85 | ISFLD_TYPE_TR_RELAY | |
| TYPE 60 - TRANSACTION ROUTING SCHEDULE REQUEST | | | | |
| 2 | DECIMAL | 96 | ISFLD_TYPE_TR_SCHEDULE_REQUEST | |
| TYPE 61 - TRANSACTION ROUTING SCHEDULE RESPONSE | | | | |
| 2 | DECIMAL | 97 | ISFLD_TYPE_TR_SCHEDULE_RESPONSE | |
| TYPE 62 - APPLICATION CONTEXT HEADER | | | | |
| 2 | DECIMAL | 98 | ISFLD_TYPE_ACD | |
| Values of isce_sub_type | | | | |
| 1 | DECIMAL | 1 | ISCE_SUB_LOGNAME | Local logname |
| 1 | DECIMAL | 2 | ISCE_SUB_IPV6_ADDR | IPv6 callback addr |
| Values of major_version | | | | |
| 1 | DECIMAL | 1 | ISCE_MAJOR_V1 | |
| 1 | DECIMAL | 2 | ISCE_MAJOR_V2 | |
| 1 | DECIMAL | 3 | ISCE_MAJOR_V3 | |
| 1 | DECIMAL | 3 | ISCE_MAJOR_CURRENT | |
| Values of minor_version | | | | |
| 1 | DECIMAL | 1 | ISCE_MINOR_V1 | |
| 1 | DECIMAL | 1 | ISCE_MINOR_CURRENT | |
| Values of isce_callback_port (1-65535 or IS_NO_PORT) | | | | |
| 4 | DECIMAL | -1 | IS_NO_PORT | |
| Values of isce_recovery | | | | |
| 1 | DECIMAL | 1 | IS_CICS | |
| 1 | DECIMAL | 2 | IS_XA | |
| Values of iscer_sub_type | | | | |
| 1 | DECIMAL | 1 | ISCER_SUB_MAX_SOCKETS | |
| | | | | Number of sockets |

Table 337. (continued)

| Len | Type | Value | Name | Description |
|--------------------------|---------|-------|-------------------------------|-------------|
| 1 | DECIMAL | 2 | ISCER_SUB_MIRRORLIFE | Mirrorlife |
| 1 | DECIMAL | 3 | ISCER_SUB_SPECIFIC | Spec data |
| 1 | DECIMAL | 4 | ISCER_SUB_SPEC_IPV6 | Spec ipv6 |
| Values of iscer_response | | | | |
| 1 | DECIMAL | 1 | ISCER_OK | |
| 1 | DECIMAL | 2 | ISCER_EXCEPTION | |
| 1 | DECIMAL | 3 | ISCER_DISASTER | |
| 1 | DECIMAL | 4 | ISCER_INVALID | |
| 1 | DECIMAL | 5 | ISCER_KERNERROR | |
| 1 | DECIMAL | 6 | ISCER_PURGED | |
| Values of iscer_reason | | | | |
| 1 | DECIMAL | 1 | ISCER_AUTOINSTALL_ FAILED | |
| 1 | DECIMAL | 2 | ISCER_INVALID_IPCONN_ STATE | |
| 1 | DECIMAL | 3 | ISCER_INVALID_PARTNER_ STATE | |
| 1 | DECIMAL | 4 | ISCER_IPCONN_NOT_FOUND | |
| 1 | DECIMAL | 5 | ISCER_ISCE_ERROR | |
| 1 | DECIMAL | 6 | ISCER_ISCE_INVALID_ APPLID | |
| 1 | DECIMAL | 7 | ISCER_ISCE_TIMED_OUT | |
| 1 | DECIMAL | 8 | ISCER_ISCE_BAD_RECOV | |
| 1 | DECIMAL | 9 | ISCER_ISCER_BAD_ RESPONSE | |
| 1 | DECIMAL | 10 | ISCER_ISCER_ERROR | |
| 1 | DECIMAL | 11 | ISCER_ISCER_HTTP_ERROR | |
| 1 | DECIMAL | 12 | ISCER_ISCER_TIMED_OUT | |
| 1 | DECIMAL | 13 | ISCER_SESSION_OPEN_ FAILED | |
| 1 | DECIMAL | 14 | ISCER_SHUTDOWN | |
| 1 | DECIMAL | 15 | ISCER_TCPIP_CLOSED | |
| 1 | DECIMAL | 16 | ISCER_TCPIPSERVICE_ MISMATCH | |
| 1 | DECIMAL | 17 | ISCER_TCPIPSERVICE_ NOT_FOUND | |
| 1 | DECIMAL | 18 | ISCER_TCPIPSERVICE_ NOT_OPEN | |
| 1 | DECIMAL | 19 | ISCER_NO_IPCONN | |
| 1 | DECIMAL | 20 | ISCER_ONE_WAY_IPCONN | |
| 1 | DECIMAL | 21 | ISCER_CAPEX_RACE | |
| 1 | DECIMAL | 22 | ISCER_SECURITY_ VIOLATION | |
| 1 | DECIMAL | 23 | ISCER_SEC_SOCKET_ERROR | |
| 1 | DECIMAL | 24 | ISCER_CLIENT_SOCKET_ ERROR | |

Table 337. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-------|------------------------------|-------------------|
| 1 | DECIMAL | 25 | ISCER_INVALID_HA_TCIPSERVICE | |
| 1 | DECIMAL | 26 | ISCER_HA_RESOURCE_MISMATCH | |
| NOTE - remember to change the logic in dfhisco_check_iscer_reason when any new reason codes are added here. | | | | |
| 1 | DECIMAL | 99 | ISCER_UNKNOWN | |
| Values of isbis_conv_resp | | | | |
| 2 | DECIMAL | 0 | ISBIS_FORGET_PENDING | |
| 2 | DECIMAL | 1 | ISBIS_OK_TO_FORGET | |
| 2 | DECIMAL | 2 | ISBIS_FORGET_RESOLVED | |
| 2 | DECIMAL | 3 | ISBIS_TASK_ACTIVE | |
| 2 | DECIMAL | 4 | ISBIS_FORGET_NOT_PENDING | |
| 2 | DECIMAL | 5 | ISBIS_CONV_NOT_FOUND | |
| PS LL value is fixed for all messages | | | | |
| 2 | DECIMAL | 1 | PS_LL_VALUE | |
| Header Length constants for SP messages | | | | |
| 1 | DECIMAL | 6 | PS_HLEN_PREP | Prepare |
| 1 | DECIMAL | 6 | PS_HLEN_RCOM | Request Commit |
| 1 | DECIMAL | 4 | PS_HLEN_CMTD | Committed |
| 1 | DECIMAL | 4 | PS_HLEN_FGET | Forget |
| 1 | DECIMAL | 4 | PS_HLEN_HMIX | Heuristic Mix |
| 1 | DECIMAL | 4 | PS_HLEN_NLUW | New LUWID |
| Default syncpoint control type - always 0001010b | | | | |
| 1 | DECIMAL | 10 | PS_TYPE_SPC | Syncpoint Control |
| Flag byte values | | | | |
| 1 | DECIMAL | 64 | PS_FLAG_PFLD | Prep + new LU |
| 1 | DECIMAL | 96 | PS_FLAG_CFLD | RCom Reserved |
| 1 | DECIMAL | 64 | PS_FLAG_CFLB | RCom Reliable |
| 1 | DECIMAL | 32 | PS_FLAG_CFLV | Vote reliable |
| 1 | DECIMAL | 8 | PS_FLAG_FGET | Implied Forget |
| 1 | DECIMAL | 0 | PS_FLAG_NFGT | No Implied Forget |
| 1 | DECIMAL | 0 | PS_FLAG_ZERO | Cleared |
| Command byte values | | | | |
| 1 | DECIMAL | 5 | PS_CMD_PREP | Prepare |
| 1 | DECIMAL | 6 | PS_CMD_RCOM | Request Commit |
| 1 | DECIMAL | 7 | PS_CMD_CMTD | Committed |
| 1 | DECIMAL | 8 | PS_CMD_FGET | Forget |
| 1 | DECIMAL | 9 | PS_CMD_HMIX | Heuristic Mix |
| SyncPoint Control Modifications | | | | |

Table 337. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-----------|----------------------------|------------------|
| 2 | DECIMAL | 0 | PS_SPCM_REQR | Request Received |
| 2 | DECIMAL | 1 | PS_SPCM_REQL | Request Last |
| 2 | DECIMAL | 2 | PS_SPCM_REQS | Request Sent |
| 1 | DECIMAL | 1 | IS7_SUB_MESSAGE | |
| FMH7 Sense Codes used by IS domain in IS7 fields. | | | | |
| 4 | DECIMAL | 1 | ISSNS_ROUTED_TRANS_ABENDED | |
| 4 | DECIMAL | 135203203 | ISSNS_ACCESS_DENIED | |
| 4 | DECIMAL | 135225425 | ISSNS_SECURITY_NOT_VALID | |
| 4 | DECIMAL | 135593984 | ISSNS_DUPLICATE_PREPARE | |
| 4 | DECIMAL | 136577024 | ISSNS_TASK_BACKED_OUT | |
| 4 | DECIMAL | 136577025 | ISSNS_TASK_BACKED_OUT_1 | |
| 4 | DECIMAL | 137953280 | ISSNS_IPCONN QUIESCING | |
| 4 | DECIMAL | 139198464 | ISSNS_NOT_AVAIL_NO_RETRY | |
| 4 | DECIMAL | 140771329 | ISSNS_DEALLOCATE_ABEND_SVC | |
| 4 | DECIMAL | 268984331 | ISSNS_RESOURCE_FAILURE | |
| 4 | DECIMAL | 268984353 | ISSNS_TPN_NOT_RECOGNIZED | |
| Values for is8_type | | | | |
| 1 | DECIMAL | 1 | IS8_USERID | |
| 1 | DECIMAL | 2 | IS8_PASSWORD | |
| 1 | DECIMAL | 3 | IS8_PASSWORD_TYPE | |
| 1 | DECIMAL | 4 | IS8_GROUPID | |
| Values for is8_string_password_type | | | | |
| 1 | DECIMAL | 1 | IS8_PASSWORD_MASKED | Default |
| 1 | DECIMAL | 2 | IS8_PASSWORD_CLEAR | |
| Various GDS field length constants | | | | |
| 1 | DECIMAL | 8 | MAX_USERID_LENGTH | |
| 1 | DECIMAL | 100 | MAX_PASSWORD_LENGTH | |
| 1 | DECIMAL | 221 | MAX_TOTAL_SF_LENGTH | |
| Identifiers used for describing GDS input and output data | | | | |
| 2 | HEX | 1221 | VERIFY_TP_ID | |
| 2 | HEX | FF00 | VERIFY_ID | |
| 2 | HEX | FF01 | CHANGE_PASSWORD_ID | |
| 2 | HEX | FF02 | VERIFY_REPLY_ID | |
| Valid Subfield identifiers | | | | |
| 1 | HEX | 00 | PROFILE_SF_ID | |
| 1 | HEX | 01 | USERID_SF_ID | |
| 1 | HEX | 02 | PASSWORD_SF_ID | |

Table 337. (continued)

| Len | Type | Value | Name | Description |
|-------------------------------------|-----------|----------|--------------------------------|-------------------------|
| 1 | HEX | 03 | THREE_PART_UID_SF_ID1 | |
| 1 | HEX | 04 | THREE_PART_UID_SF_ID2 | |
| 1 | HEX | 05 | THREE_PART_UID_SF_ID3 | |
| 1 | HEX | 06 | NEW_PASSWORD_SF_ID | |
| Reasons used for Unsuccessful Reply | | | | |
| 1 | HEX | 01 | USERID_NOT_KNOWN | |
| 1 | HEX | 02 | INCORRECT_PASSWORD | |
| 1 | HEX | 03 | EXPIRED_PASSWORD | |
| 1 | HEX | 04 | NEW_PASSWORD_NOT_ACCEPTABLE | |
| 1 | HEX | 05 | SECURITY_FUNCTION_FAILURE | |
| Invalid Data Format format errors | | | | |
| 2 | HEX | 0001 | REQUIRED_STRUCTURE_ABSENT | |
| 2 | HEX | 0002 | PRECLUDED_STRUCTURE_PRESENT | |
| 2 | HEX | 0003 | MULTIPLE_NON_REPEATABLE_STRUCT | |
| 2 | HEX | 0005 | UNRECOGNIZED_STRUCTURE | |
| 2 | HEX | 0006 | LENGTH_OUTSIDE_RANGE | |
| 2 | HEX | 0007 | LENGTH_EXCEPTION | |
| 2 | HEX | 000F | DATA_VALUE_OUT_OF_RANGE | |
| 4 | DECIMAL | 2000 | MAX_ICRX_SIZE | |
| 1 | CHARACTER | S | RSO_SUCCESS | |
| 1 | CHARACTER | F | RSO_FAILURE | |
| 1 | DECIMAL | 2 | IS43_SUB_PROGRAM | LINK program name |
| 1 | DECIMAL | 4 | IS43_SUB_CLENGTH | LINK commarea length |
| 1 | DECIMAL | 6 | IS43_SUB_COMMAREA | LINK commarea |
| 1 | DECIMAL | 8 | IS43_SUB_TRANSID | LINK mirror transid |
| 1 | DECIMAL | 10 | IS43_SUB_HEXTRANS | LINK mirror hex transid |
| Constant for chan_version | | | | |
| 1 | DECIMAL | 1 | CHAN_CURRENT_VERSION | |
| Constant for chan_eye | | | | |
| 8 | CHARACTER | >DFHCHAN | CHAN_EYECATCHER | |
| Constant for chdr_eye | | | | |
| 8 | CHARACTER | >DFHCHDR | CHDR_EYECATCHER | |
| Values for chdr_datatype | | | | |
| 1 | CHAR HEX | 01 | CHDR_BIT | |
| 1 | CHAR HEX | 02 | CHDR_CHAR | |
| 1 | CHAR HEX | 03 | CHDR_STRUCTURE | Reserved for release 2 |

ISRDS - ISC IP Connection Statistics

CONTROL BLOCK NAME = DFHISRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHISRPS
DESCRIPTIVE NAME = CICS TS IPCONN statistics record
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 2006, 2009
FUNCTION = This data area contains the IPCONN statistics
provided by the IS Domain.
It is provided for use in users monitoring applications
to map the statistics returned via the API or the
statistics global user exit.
There is a single instance of this data block.
LIFETIME =
This data block is created by the IS Domain to store
statistics to be passed to the user in response to a
for IPCONN statistics. The storage is released when the
user task is detached.
The DSECT also maps the contents of part of the SMF buffer
created by the statistics domain and is used in the
statistics exit.
STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage
block.
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

Table 338.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|--------------------------------|
| (0) | STRUCTURE | 0 | DFHISRDS | IPCONN Resid stats record |
| (0) | HALFWORD | 2 | ISRDS_LEN | IPCONN stats record length |
| (2) | ADDRESS | 2 | ISRDS_ID | IPCONN stats id |
| (4) | CHARACTER | 1 | ISRDS_VERS | IPCONN stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | ISR_IPCONN_NAME | IPCONN name |
| (10) | CHARACTER | 8 | ISR_APPLID | IPCONN applid |
| (18) | CHARACTER | 8 | ISR_NETWORK_ID | IPCONN network id |
| (20) | CHARACTER | 116 | ISR_HOST_NAME | IPCONN Host name |
| (94) | CHARACTER | 4 | | Reserved |
| (98) | FULLWORD | 4 | ISR_PORT_NUMBER | IPCONN port number |
| (9C) | BITSTRING | 1 | ISR_SSL_SUPPORT | IPCONN SSL Support |
| (9D) | BITSTRING | 1 | ISR_USERAUTH | IPCONN Userauth |
| (9E) | BITSTRING | 1 | ISR_LINKAUTH | IPCONN Linkauth |
| (9F) | BITSTRING | 1 | ISR_MIRRORLIFE | IPCONN Mirrorlife |
| (A0) | CHARACTER | 8 | ISR_TCPIP_SERVICE | IPCONN Tcpiip service |
| (A8) | CHARACTER | 28 | | Reserved |
| (C4) | FULLWORD | 4 | ISR_FS_TS_REQUESTS | FS Temporary Storage (TS) reqs |

Table 338. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|-------------------------------|
| (C8) | BITSTRING | 8 | ISR_FS_TS_BYTES_SENT | FS TS reqs bytes sent |
| (D0) | BITSTRING | 8 | ISR_FS_TS_BYTES_RECEIVED | FS TS reqs bytes received |
| (D8) | CHARACTER | 8 | ISR_IPCONN_GMT_CREATE_TIME | AI IPCONN create time - GMT |
| (E0) | CHARACTER | 8 | ISR_IPCONN_CREATE_TIME | AI IPCONN create time - Local |
| (E8) | CHARACTER | 8 | ISR_IPCONN_GMT_DELETE_TIME | AI IPCONN delete time - GMT |
| (F0) | CHARACTER | 8 | ISR_IPCONN_DELETE_TIME | AI IPCONN delete time - Local |
| (F8) | CHARACTER | 8 | | Reserved |
| (100) | FULLWORD | 4 | ISR_SEND_SESSIONS | Send sessions |
| (104) | FULLWORD | 4 | ISR_CURRENT_SEND_SESSIONS | Current send sessions |
| (108) | FULLWORD | 4 | ISR_PEAK_SEND_SESSIONS | Peak send sessions |
| (10C) | FULLWORD | 4 | | Reserved |
| (110) | FULLWORD | 4 | | Reserved |
| (114) | FULLWORD | 4 | ISR_RECEIVE_SESSIONS | Receive sessions |
| (118) | FULLWORD | 4 | ISR_CURRENT_RECEIVE_SESSIONS | Current receive sessions |
| (11C) | FULLWORD | 4 | ISR_PEAK_RECEIVE_SESSIONS | Peak receive sessions |
| (120) | FULLWORD | 4 | | Reserved |
| (124) | FULLWORD | 4 | ISR_TR_REQUESTS | Transaction Routing (TR) reqs |
| (128) | BITSTRING | 8 | ISR_TR_BYTES_SENT | TR reqs bytes sent |
| (130) | BITSTRING | 8 | ISR_TR_BYTES_RECEIVED | TR reqs bytes received |
| (138) | FULLWORD | 4 | ISR_TOTAL_ALLOCATES | IPCONN total allocates |
| (13C) | FULLWORD | 4 | ISR_CURRENT_QUEUED_ALLOCATES | Current queued allocates |
| (140) | FULLWORD | 4 | ISR_PEAK_QUEUED_ALLOCATES | Peak queued allocates |
| (144) | FULLWORD | 4 | ISR_ALLOCATES_FAILED_LINK | Failed allocates - Link |
| (148) | FULLWORD | 4 | ISR_ALLOCATES_FAILED_OTHER | Failed allocates - Other |
| (14C) | FULLWORD | 4 | ISR_FS_TD_REQUESTS | FS Transient Data (TD) reqs |
| (150) | BITSTRING | 8 | ISR_FS_TD_BYTES_SENT | FS TD reqs bytes sent |
| (158) | BITSTRING | 8 | ISR_FS_TD_BYTES_RECEIVED | FS TD reqs bytes received |
| (160) | FULLWORD | 4 | ISR_ALLOCATE_QUEUE_LIMIT | Allocate queue limit |
| (164) | FULLWORD | 4 | ISR_QLIMIT_ALLOC_REJECTS | Queue limit allocate rejects |
| (168) | FULLWORD | 4 | ISR_MAX_QUEUE_TIME | Max queue time |
| (16C) | FULLWORD | 4 | ISR_MAXQTIME_ALLOC_QPURGES | Maxqtime allocate qpurges |
| (170) | FULLWORD | 4 | ISR_MAXQTIME_ALLOCS_PURGED | Maxqtime allocates purged |
| (174) | FULLWORD | 4 | | Reserved |
| (178) | FULLWORD | 4 | | Reserved |

Table 338. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|----------------------------|------------------------------------|
| (17C) | FULLWORD | 4 | ISR_XISQUE_ALLOC_ REJECTS | Xisque allocate rejects |
| (180) | FULLWORD | 4 | ISR_XISQUE_ALLOC_ QPURGES | Xisque allocate qpurges |
| (184) | FULLWORD | 4 | ISR_XISQUE_ALLOCS_ PURGED | Xisque allocates purged |
| (188) | FULLWORD | 4 | | Reserved |
| (18C) | FULLWORD | 4 | ISR_TRANS_ATTACHED | No. transactions attached |
| (190) | FULLWORD | 4 | ISR_REMOTE_TERM_ STARTS | Remote terminal starts |
| (194) | FULLWORD | 4 | ISR_UNSUPPORTED_ REQUESTS | Unsupported requests |
| (198) | FULLWORD | 4 | | Reserved |
| (19C) | FULLWORD | 4 | ISR_FS_PG_REQUESTS | Function Shipped Program reqs |
| (1A0) | BITSTRING | 8 | ISR_FS_PG_BYTES_SENT | FS Program reqs bytes sent |
| (1A8) | BITSTRING | 8 | ISR_FS_PG_BYTES_ RECEIVED | FS Program reqs bytes received |
| (1B0) | FULLWORD | 4 | | Reserved |
| (1B4) | FULLWORD | 4 | ISR_FS_IC_REQUESTS | FS Interval Control (IC) reqs |
| (1B8) | BITSTRING | 8 | ISR_FS_IC_BYTES_SENT | FS IC reqs bytes sent |
| (1C0) | BITSTRING | 8 | ISR_FS_IC_BYTES_ RECEIVED | FS IC reqs bytes received |
| (1C8) | CHARACTER | 39 | ISR_IPCONN_IP_ADDRESS | IP Resolved Address |
| (1EF) | BITSTRING | 1 | ISR_IPCONN_IP_FAMILY | IP Family |
| (1F0) | BITSTRING | 8 | | Reserved |
| (1F8) | CHARACTER | 8 | ISR_IPCONN_DEFINE_ SOURCE | Group installed from |
| (200) | BITSTRING | 8 | ISR_IPCONN_CHANGE_ TIME | Change/create time |
| (208) | CHARACTER | 8 | ISR_IPCONN_CHANGE_ USERID | Change userid |
| (210) | BITSTRING | 2 | ISR_IPCONN_CHANGE_ AGENT | Change agent |
| (212) | BITSTRING | 2 | ISR_IPCONN_INSTALL_ AGENT | Install agent |
| (214) | BITSTRING | 8 | ISR_IPCONN_INSTALL_ TIME | Install/Create time |
| (21C) | CHARACTER | 8 | ISR_IPCONN_INSTALL_ USERID | Install userid |
| (224) | FULLWORD | 4 | ISR_FS_FC_REQUESTS | FS File Control (FC) reqs |
| (228) | BITSTRING | 8 | ISR_FS_FC_BYTES_SENT | FS FC reqs bytes sent |
| (230) | BITSTRING | 8 | ISR_FS_FC_BYTES_ RECEIVED | FS FC reqs bytes received |
| (238) | CHARACTER | 12 | | Reserved |
| (238) | | 0 | ISRDS_END | "15" |
| (238) | | 0 | ISRDS_LENGTH | "*-ISRDS_LEN" IPCONN record length |
| Constants that denote an IS IPCONN stats record | | | | |
| (238) | .11. 11.1 | | ISRIDR | "109" IPCONN resid stats id |
| (238) |1 | | ISR_VERS | "X'01" Record version number |
| (238) |1 | | ISR_SSL_YES | "X'01" SSL = Yes |
| (238) |1. | | ISR_SSL_NO | "X'02" SSL = No |

Table 338. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|--------------------------|--|
| (238) |1 | | ISR_USERAUTH_DEFAULTUSER | "X'01" Userauth = Defaultuser |
| (238) |1. | | ISR_USERAUTH_IDENTIFY | "X'02" Userauth = Identify |
| (238) |11 | | ISR_USERAUTH_LOCAL | "X'03" Userauth = Local |
| (238) |1.. | | ISR_USERAUTH_VERIFY | "X'04" Userauth = Verify |
| (238) |1 | | ISR_LINKAUTH_CERTUSER | "X'01" Linkauth = Certuser |
| (238) |1. | | ISR_LINKAUTH_SECUSER | "X'02" Linkauth = Secuser |
| (238) | .... .... |  | ISR_IP_FAMILY_UNKNOWN | "X'00" IP family = Unknown |
| (238) |1 | | ISR_IP_FAMILY_IPV4 | "X'01" IP family = IPv4 |
| (238) |1. | | ISR_IP_FAMILY_IPV6 | "X'02" IP family = IPv6 Change Agents |
| (238) |1 | | ISR_CSDAPI_CHANGE | "0001" CSD API |
| (238) |1. | | ISR_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (238) |11 | | ISR_DREPAPI_CHANGE | "0003" DREP API |
| (238) |1.. | | ISR_CREATE_CHANGE | "0004" EXEC CREATE SPI |
| (238) |11. | | ISR_AUTOINSTALL_CHANGE | "0006" AUTOINSTALL Install Agents |
| (238) |1 | | ISR_CSDAPI_INSTALL | "0001" CSD API |
| (238) |1.. | | ISR_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (238) |1.1 | | ISR_GRPLIST_INSTALL | "0005" GRPLIST |
| (238) |11. | | ISR_AUTOINSTALL_INSTALL | "0006" AUTOINSTALL |
| (238) |1 | | ISR_MIRRORLIFE_REQUEST | "X'01" Mirrorlife = Request |
| (238) |1. | | ISR_MIRRORLIFE_TASK | "X'02" Mirrorlife = Task |
| (238) |11 | | ISR_MIRRORLIFE_UOW | "X'03" Mirrorlife = UOW |

JCA - Journal Control area

CONTROL BLOCK NAME = DFHJCAPS
 DESCRIPTIVE NAME = CICS TS Journal Control Area
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1987, 1996
 FUNCTION =
 The JCA contains the parameter lists that communicate
 between a task requiring journalling services, and other
 fields used internally by journalling.
 LIFETIME =
 A JCA is normally created on the first occasion that a
 task requests a service of journalling, and persists until
 the task terminates. (Journalling also creates some JCAs
 for internal purposes.) Creation involves DFHJCP; deletion
 is incidental to deletion of the TCA.
 STORAGE CLASS =
 JCA ('9B'X)
 LOCATION =
 Addressed by TCAJCAAD in the user TCA.
 INNER CONTROL BLOCKS =
 None

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

Table 339.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--------------------------------|
| (0) | STRUCTURE | 54 | DFHJCZDS | JCA |
| (0) | HALFWORD | 2 | JCZLEN | Length of the JCA |
| (2) | CHARACTER | 6 | JCZEYE | JCA eyecatcher |
| (8) | BIT(8) | 1 | JCZTR3 | - type of request, byte 3 |
| (9) | BIT(8) | 1 | JCZTR2 | - type of request, byte 2 |
| (A) | BIT(8) | 1 | JCZTR1 | - type of request, byte 1 |
| (B) | BIT(8) | 1 | JCZJCRC | - return code |
| (C) | ADDRESS | 4 | JCZADATA | - A(user data) |
| (10) | ADDRESS | 4 | JCZAPREF | - A(user prefix) |
| (14) | FULLWORD | 4 | JCZFTOK | force token |
| (18) | FULLWORD | 4 | JCZFLEN | - fullword L(user data) |
| (18) | HALFWORD | 2 | * | - section to allow 64K |
| (1A) | HALFWORD | 2 | JCZLDATA | - used with LENGTH |
| (1C) | HALFWORD | 2 | JCZLPRFX | - L(user prefix) |
| (1E) | HALFWORD | 2 | JCZJNUM | journal number as halfword |
| (20) | UNSIGNED | 1 | JCZJFID | - journal identifier |
| (21) | CHARACTER | 8 | JCZJNAME | journal name identifier |
| (29) | CHARACTER | 2 | JCZDOMID | calling domain identifier |
| JCA user prefix: terminal control segment | | | | |
| (2C) | CHARACTER | 10 | JCZUPTC | origin of user prefix |
| (2C) | CHARACTER | 2 | JCZJRTID | - JC rec type (DFHFMIPS) |
| (2C) | BIT(8) | 1 | JCZMODFN | - module function |
| (2D) | BIT(8) | 1 | JCZSVMID | - module id |
| (2E) | HALFWORD | 2 | JCZVSPIN | LU6.1 inbound sequence number |
| (30) | HALFWORD | 2 | JCZVSPON | LU6.1 outbound sequence number |
| (32) | CHARACTER | 4 | JCZUPTID | Terminal ID |

Constants

Table 340.

| Len | Type | Value | Name | Description |
|--|------|-------|----------|---|
| JCZTR3 - CICS system request symbolic settings | | | | |
| 1 | HEX | 10 | JCZTRANY | Concerning addressing mode -- user data may be 'anywhere' |
| JCZTR2 - Request-modifying symbolic settings | | | | |

Table 340. (continued)

| Len | Type | Value | Name | Description |
|---|------|-------|----------|--------------------------------|
| 1 | HEX | 01 | JCZTROUT | TYPE=OUTPUT (with OPEN) |
| 1 | HEX | 01 | JCZTRL | LEAVE=YES (with CLOSE request) |
| 1 | HEX | 01 | JCZTRCR | Conditional (WRITE) request |
| 1 | HEX | 02 | JCZTRIN | TYPE=INPUT (with OPEN) |
| 1 | HEX | 02 | JCZTRSIO | STARTIO=YES (with WRITE) |
| 1 | HEX | 04 | JCZTRPFX | User prefix specified (WRITE) |
| JCZTR1 - Request-type symbolic settings | | | | |
| 1 | HEX | 01 | JCZTRWR | TYPE=WRITE |
| 1 | HEX | 02 | JCZTRW | TYPE=WAIT |
| 1 | HEX | 03 | JCZTRPUT | TYPE=PUT (=WRITE, WAIT) |
| JCZJCRC - return code symbolic settings | | | | |
| 1 | HEX | 00 | JCZRCNR | normal response |
| 1 | HEX | 01 | JCZRCIDE | journal id error |
| 1 | HEX | 02 | JCZRCIRE | invalid request |
| 1 | HEX | 03 | JCZRCSE | status error |
| 1 | HEX | 04 | @NM00002 | reserved |
| 1 | HEX | 05 | JCZRCNOE | journal not open |
| 1 | HEX | 06 | JCZRCLE | length error |
| 1 | HEX | 07 | JCZRCIOE | I/O error |
| 1 | HEX | 08 | JCZRCEOF | end of file (for input req) |
| 1 | HEX | 09 | JCZRCCR | COND=YES, buffer full |
| MISCELLANEOUS VALUES | | | | |
| 1 | HEX | 63 | JCZJNMAX | Max journalname = 99 |

KCS - Transaction manager static storage

CONTROL BLOCK NAME = DFHKCSPS
 DESCRIPTIVE NAME = CICS TS TRANSACTION MANAGER STATIC STORAGE
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 5655-Y04
 (C) Copyright IBM Corp. 1984, 1994

FUNCTION =
 Static storage used by task control component for
 ECBs and working storage.
 There is a single instance of this control block in a CICS
 system.

LIFETIME =
 It is allocated and initialized to hex zeroes in DFHSIB1.
 It has the lifetime of the CICS system.

STORAGE CLASS =
 CICS static storage.

LOCATION =
 Addresses from static storage address list.
 INNER CONTROL BLOCKS =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = PCT
 GLOBAL VARIABLES (Macro pass) = None

Table 341.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------|
| (0) | STRUCTURE | 20 | DFHKCZPS | |
| (0) | CHARACTER | 4 | KCZOBECEB | open-for-business ECB |
| (0) | BIT(8) | 1 | * | |
| (0) | 1... | | * | Reserved |
| (0) | .1.. | | KCZOBPST | open-for-business post bit * |
| (4) | CHARACTER | 4 | KCZCPECEB | KC restart complete ECB * |
| (4) | BIT(8) | 1 | * | |
| (4) | 1... | | * | Reserved |
| (4) | .1.. | | KCZCPPST | restart complete post bit * |
| (8) | BIT(8) | 1 | KCZFLAGS | restart flags |
| (8) | 1... | | KCZRSTIN | restart initiated |
| (9) | UNSIGNED | 1 | KCZRSTRC | restart return code |
| (A) | CHARACTER | 2 | KCZREASN | MSG DFH0302 REASON CODE * |
| (C) | ADDRESS | 4 | KCZNQPCH | DFHKE ENQ string enqueue pool |
| (10) | ADDRESS | 4 | KCZNQPAD | DFHKE ENQ address enqueue pool |
| (14) | CHARACTER | 0 | KCZTLEN | LENGTH INDICATOR |

KERRD - Kernel error data

CONTROL BLOCK NAME = DFHKERRD
 MATCHING ASSEMBLER CONTROL BLOCK = DFHKERN TYPE=ERROR_DATA
 DESCRIPTIVE NAME = CICS TS Kernel Error Data
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 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1988, 2012
 FUNCTION = Kernel Error Data.
 After an MVS Abend, Program Check or Domain Requested Recovery,
 The following data is available to the task in recovery state.
 Once the recovery state is cleared or percolated, this data is
 no longer available.
 The data splits into three parts:
 1. Error Code and Interrupt information.
 The Error Code is supplied on a CICS Request Recovery Call
 and is a CICS Abend Code (as documented in CICS Messages
 and Codes).

If the Error Code is AKEA then there has been a program check and the System Interrupt data will be the program check code (00CX).

If the Error Code is AKEB then there has been an MVS Abend and then System and User Interrupt data will contain the MVS Abend Code split up into the System and User parts. The Kernel will calculate the offset within your program that the CICS error occurred. If not in your program, this field is set negative.

2. SYSTEM Error Data - PSW and Registers taken from the SDWA.
SDWA: PSW and Registers at time of error.
There are two sets of PSW and Registers, which are different when CICS has called an SVC (say) which then issues an Abend. In this case the phrase 'at time of error' indicates that this set of PSW and Registers will be those of the SVC: the PSW will be the address (in the SVC routine) of an Abend SVC (13).
3. CICS Error Data - PSW and Registers taken from the SDWA.
SDWA: "PSW and Registers of last interrupt of the RB that issued this STAE/ESTAE.
This is a rather cryptic phrase. Remember, however, that the RB that issued the ESTAE is actually CICS and that, since CICS does not issue LINK, CICS only ever has the one RB EXCEPT when we issue an SVC.
S370 hardware implements SVC's and Program Checks as interrupts. Thus, if CICS issues an SVC that then abends, the last interrupt we received WAS the SVC. So, this save area describes the last thing CICS did before the Abend.

Notes

1. If CICS issues an Abend (or program checks) from its own code, these two save areas are identical and identify the place where the Abend or program check happened.
2. In the case of requested recovery, both sets of PSW and Registers will identify the state at the time the request recovery was issued.
3. When the Abend is issued from 'the System', the two save areas are used for different purposes.
If the problem is to diagnose what VTAM/VSAM/MVS/etc. was doing for us at the time, the appropriate Error Data is the SYSTEM's, since that tells us what the state was on that side of the SVC.
If the problem is to diagnose an invalid request made by CICS, then the last thing CICS did is relevant and so the CICS Error Data is relevant.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

Table 342.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------|-----------------------------|
| (0) | STRUCTURE | 720 | KERNEL_ERROR_DATA | |
| (0) | CHARACTER | 8 | KERNEL_ERROR_CODE | XXX/NNNN System & User Code |
| (8) | UNSIGNED | 1 | KERNEL_ERROR_TYPE | Error type, see below |
| (9) | BIT(8) | 1 | KERNEL_ERROR_FLAGS | MVS FLAGS |
| (9) | 1... | | KERNEL_ERROR_DUMP_REQUESTED | A dump was requested |
| (9) | .111 | | KERNEL_ERROR_EXECUTING_RB | Flags determining error RB. |
| (9) | .1.. | | KERNEL_ERROR_SRB_MODE | Error in SRB mode |

Table 342. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------------------------------|-------------------------------|
| (9) | ..1. | | KERNEL_ERROR_IRB | IRB on RB stack |
| (9) | ...1 | | KERNEL_ERROR_CICS_ RB_NOT_ACTIVE | CICS RB not in control |
| (9) | 1... | | * | Reserved |
| (9) |1.. | | KERNEL_ERROR_REASON_ PRESENT | Abend reason code is present |
| (9) |1. | | KERNEL_ERROR_BFPR_ SAVED | all fp regs |
| (9) |1 | | KERNEL_ERROR_RA | Reduced authority |
| (A) | BIT(16) | 2 | KERNEL_ERROR_SYSTEM_ INT | XXX in binary format |
| (C) | BIT(16) | 2 | KERNEL_ERROR_USER_INT | NNNN in binary format |
| (E) | HALFWORD | 2 | * | Reserved |
| (10) | CHARACTER | 8 | KERNEL_ERROR_PROGRAM | Name of program in error |
| (18) | ADDRESS | 8 | KERNEL_ERROR_ADDRESS | Address of program in error |
| (20) | ADDRESS | 4 | * | Reserved - 64 bit |
| (24) | FULLWORD | 4 | KERNEL_ERROR_TASTRTOK | Transaction token |
| (28) | ADDRESS | 8 | KERNEL_ERROR_TAS_ ADDRESS | Address of task in error |
| (30) | FULLWORD | 4 | KERNEL_ERROR_TASRQTOK | Attach token of task |
| (34) | FULLWORD | 4 | KERNEL_ERROR_NUMBER | Error number |
| (38) | CHARACTER | 4 | KERNEL_ERROR_REASON | Abend reason code |
| (3C) | FULLWORD | 4 | KERNEL_ERROR_OFFSET_F | Offset of program in |
| (3C) | UNSIGNED | 2 | * | error |
| (3E) | UNSIGNED | 2 | KERNEL_ERROR_OFFSET | |
| <p>For some unknown reason the compile does not like the statement below. DFHPGRE has about a hundred compile errors with it but all the other modules in mpu UAPV are happy with it To overcome the problem I've put KERNEL_ERROR_REASON in a structure 2 PTR, Reserved - 64 bit</p> | | | | |
| (40) | CHARACTER | 232 | CICS_ERROR_DATA | CICS error data |
| (40) | BIT(128) | 16 | CICS_ERROR_16_PSW | PSW EC Mode |
| (40) | BIT(16) | 2 | * | Padding |
| (42) | BIT(8) | 1 | CICS_ERROR_16_BYTE3 | |
| (42) | 1... | | CICS_ERROR_AR_MODE | CICS AR mode flag |
| (43) | BIT(40) | 5 | * | Padding |
| (48) | ADDRESS | 8 | CICS_ERROR_ INSTRUCTION_ADDR | PSW address |
| (50) | CHARACTER | 8 | CICS_ERROR_EC_ADD | Int Code, ILC from SDWAAEC2 |
| (58) | ADDRESS | 4 | * | Reserved - 64 bit |
| (5C) | ADDRESS | 4 | * | Reserved - 64 bit PSW address |
| (60) | UNSIGNED | 1 | CICS_ERROR_KEY | PSW key in form X'n0' |
| (61) | BIT(8) | 1 | CICS_ERROR_FLAG | various flags |

Table 342. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---|-----------------------------|
| (61) | 1... | | CICS_ERROR_BIT64_GPR | 64_bit GPR |
| (61) | .111 1111 | | * | |
| (62) | UNSIGNED | 2 | * | Padding |
| (64) | ADDRESS | 4 | * | Reserved - 64 bit |
| (68) | CHARACTER | 128 | CICS_ERROR_REGST | |
| (68) | CHARACTER | 128 | CICS_ERROR_R32_STORAGE | |
| (68) | ADDRESS | 4 | CICS_ERROR_REGISTERS32 (4294967312:341924272) | |
| (A8) | ADDRESS | 4 | CICS_ERROR_G64H (4294967312:341924056) | |
| (68) | ADDRESS | 8 | CICS_ERROR_REGISTERS64 (4294967312:341920640) | 64bit GPR |
| (E8) | CHARACTER | 64 | CICS_ERROR_ACCESS_REGST | |
| (E8) | ADDRESS | 4 | CICS_ERROR_ACCESS_REGISTERS (4294967312:341914656) | CICS Access Regs |
| (128) | CHARACTER | 232 | SYSTEM_ERROR_DATA | System error data |
| (128) | BIT(128) | 16 | SYSTEM_ERROR_16_PSW | PSW EC Mode |
| (128) | BIT(16) | 2 | * | Padding |
| (12A) | BIT(8) | 1 | SYSTEM_ERROR_16_BYTE3 | |
| (12A) | 1... | | SYSTEM_ERROR_AR_MODE | SYSTEM AR mode flag |
| (12B) | BIT(40) | 5 | * | Padding |
| (130) | ADDRESS | 8 | SYSTEM_ERROR_INSTRUCTION_ADDR | PSW address |
| (138) | CHARACTER | 8 | SYSTEM_ERROR_EC_ADD | Int Code, ILC from SDWAAEC1 |
| (140) | ADDRESS | 4 | * | Reserved - 64 bit |
| (144) | ADDRESS | 4 | * | Reserved - 64 bit |
| (148) | UNSIGNED | 1 | SYSTEM_ERROR_KEY | PSW key in form X'n0' |
| (149) | BIT(8) | 1 | SYSTEM_ERROR_FLAG | |
| (149) | 1... | | SYSTEM_ERROR_BIT64_GPR | 64bit gpr |
| (149) | .111 1111 | | * | |
| (14A) | UNSIGNED | 2 | * | Padding |
| (14C) | ADDRESS | 4 | * | Reserved - 64 bit |
| (150) | CHARACTER | 128 | SYSTEM_ERROR_REGST | |
| (150) | CHARACTER | 128 | SYSTEM_ERROR_R32_STORAGE | |
| (150) | ADDRESS | 4 | SYSTEM_ERROR_REGISTERS32 (4294967312:341929424) | |
| (190) | ADDRESS | 4 | SYSTEM_ERROR_G64H (4294967312:341929208) | |
| (150) | ADDRESS | 8 | SYSTEM_ERROR_REGISTERS64 (4294967312:341925768) | 64bit GPR |
| (1D0) | CHARACTER | 64 | SYSTEM_ERROR_ACCESS_REGST | |

Table 342. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--|----------------------------------|
| (1D0) | ADDRESS | 4 | SYSTEM_ERROR_ACCESS_ REGISTERS (4294967312:341914656) | System access registers |
| (210) | BIT(64) | 8 | KERNEL_ERROR_TIMESTAMP | Timestamp of error |
| (218) | CHARACTER | 132 | KERNEL_ERROR_FP_REGS | FP register values: |
| (218) | CHARACTER | 8 | KERNEL_ERROR_FP_REG_0 | FP register 0 |
| (220) | CHARACTER | 8 | * | FP register 1 |
| (228) | CHARACTER | 8 | KERNEL_ERROR_FP_REG_2 | FP register 2 |
| (230) | CHARACTER | 8 | * | FP register 3 |
| (238) | CHARACTER | 8 | KERNEL_ERROR_FP_REG_4 | FP register 4 |
| (240) | CHARACTER | 8 | * | FP register 5 |
| (248) | CHARACTER | 8 | KERNEL_ERROR_FP_REG_6 | FP register 6 |
| (250) | CHARACTER | 8 | * | FP register 7 |
| (258) | CHARACTER | 8 | * | FP register 8 |
| (260) | CHARACTER | 8 | * | FP register 9 |
| (268) | CHARACTER | 8 | * | FP register 10 |
| (270) | CHARACTER | 8 | * | FP register 11 |
| (278) | CHARACTER | 8 | * | FP register 12 |
| (280) | CHARACTER | 8 | * | FP register 13 |
| (288) | CHARACTER | 8 | * | FP register 14 |
| (290) | CHARACTER | 8 | * | FP register 15 |
| (298) | CHARACTER | 4 | KERNEL_ERROR_FPC_REGISTER | FPC register |
| (29C) | CHARACTER | 4 | * | Reserved |
| The following 2 fields are only valid if KERNEL_ERROR_IN_SUBSPACE is set | | | | |
| (2A0) | CHARACTER | 8 | KERNEL_ERROR_STOKEN | Stoken for subspace |
| (2A8) | CHARACTER | 4 | KERNEL_ERROR_ALET | ALET for subspace |
| (2AC) | BIT(8) | 1 | KERNEL_ERROR_ SUBSPACE_FLAGS | |
| (2AC) | 1... | | KERNEL_ERROR_IN_ SUBSPACE | error while in ss |
| (2AC) | .1.. | | KERNEL_ACTIVE_IN_ SUBSPACE | in subspace |
| (2AC) | ..11 1111 | | * | Reserved |
| (2AD) | CHARACTER | 3 | * | Reserved |
| (2B0) | CHARACTER | 8 | KERNEL_ERROR_BEAR | BEAR |
| (2B8) | ADDRESS | 4 | KERNEL_ERROR_KTCB_POINTER | |
| (2BC) | CHARACTER | 4 | KERNEL_ERROR_TRAN_ TRANNUM | |
| (2C0) | CHARACTER | 8 | KERNEL_ERROR_TEA | Translation exception address |
| (2C8) | CHARACTER | 8 | * | |
| (2D0) | CHARACTER | 0 | * | |

Constants

Table 343.

| Len | Type | Value | Name | Description |
|---|---------|-------|------------------------------|-------------|
| Kernel Error Type: Value Definitions. | | | | |
| 1 | DECIMAL | 1 | KERNEL_ERROR_PROGRAM_CHECK | |
| 1 | DECIMAL | 2 | KERNEL_ERROR_ABEND | |
| 1 | DECIMAL | 3 | KERNEL_ERROR_RUNAWAY | |
| 1 | DECIMAL | 4 | KERNEL_ERROR_REQUESTED | |
| 1 | DECIMAL | 5 | KERNEL_ERROR_PERCOLATE | |
| 1 | DECIMAL | 6 | KERNEL_ERROR_KERNERROR | |
| 1 | DECIMAL | 7 | KERNEL_ERROR_DEFERRED_ABEND | |
| 1 | DECIMAL | 8 | KERNEL_ERROR_LINKAGE | |
| 1 | DECIMAL | 9 | KERNEL_ERROR_ABEND_PERCOLATE | |
| 1 | DECIMAL | 10 | KERNEL_ERROR_ABEND_REQUESTED | |
| 1 | DECIMAL | 11 | KERNEL_ERROR_RUNNING_CANCEL | |
| 1 | DECIMAL | 12 | KERNEL_ERROR_KILL | |
| Kernel Error Executing RB : Test value - Error occurred in CICS RB if: not in SRB mode, no IRB in RB stack, and CICS RB was in control. | | | | |
| 0 | BIT | 000 | KERNEL_ERROR_CICS_RB | |

KPLEC - Keypoint list element

CONTROL BLOCK NAME = DFHKPLEC
 DESCRIPTIVE NAME = CICS TS (FILE) Keypoint List Element DSECT
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 5655-Y04
 (C) Copyright IBM Corp. 1994, 1995
 FUNCTION =
 Declare a structure for the keypoint list element (KPLE).
 The keypoint list forms part of file control's
 implementation of fuzzy image copy, also known as backup
 while open. One KPLE exists for each keypoint and records
 the start and end times at which tie up records are written.
 LIFETIME =
 The keypoint list elements are created, processed and
 deleted (when they become redundant) by DFHFCBWO. DFHFCBWO
 is called from the file control recovery program DFHFCRC
 following RMKP take keypoint calls from recovery manager.
 LOCATION =
 The KPLE chain is anchored off fc_kple_chain in file
 control static storage.
 STORAGE CLASS =
 KPLEs are getmained from the variable length file control
 subpool above the line.

```

INNER CONTROL BLOCKS =
    None.
NOTES :
    DEPENDENCIES = S/390
    RESTRICTIONS = None.
    MODULE TYPE = Control block definition.

```

```

-----
EXTERNAL REFERENCES =
    None.
DATA AREAS =
    None.
CONTROL BLOCKS =
    None.
GLOBAL VARIABLES (Macro pass) =
    None.
-----

```

Table 344.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|--|
| (0) | STRUCTURE | 20 | KPLE | keypoint list element |
| (0) | ADDRESS | 4 | KPLE_NEXT | pointer to next element, or null pointer if the last |
| (4) | CHARACTER | 8 | KPLE_START_WRITE_PACKED | when starting to write TURs |
| (4) | CHARACTER | 4 | KPLE_START_WRITE_DAY | 0CYDDDC |
| (8) | CHARACTER | 4 | KPLE_START_WRITE_TIME | HHMMSSTC |
| (C) | CHARACTER | 8 | KPLE_END_WRITE_PACKED | when ending write of TURs |
| (C) | CHARACTER | 4 | KPLE_END_WRITE_DAY | 0CYDDDC |
| (10) | CHARACTER | 4 | KPLE_END_WRITE_TIME | HHMMSSTC |

LDBDS - Loader statistics for public LIBRARYs

```

CONTROL BLOCK NAME = DFHLDBDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHLDBPS
DESCRIPTIVE NAME = CICS TS Loader Statistics for LIBRARYs
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 2006, 2013
FUNCTION =
    This block described the statistics collected by the Loader
    Domain.
    There is an instance of this block for each public library
    for which statistics have been requested.
LIFETIME = This block exists until the statistics request has been
    satisfied.
STORAGE CLASS =
LOCATION = The user is passed a pointer to the head of the block
INNER CONTROL BLOCKS = None
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition

```

```

-----
EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = None
GLOBAL VARIABLES (Macro pass) = None
-----

```

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLDBDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 345.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|--|
| (0) | STRUCTURE | 0 | DFHLDBDS | Loader Library Resid stats record |
| (0) | HALFWORD | 2 | LDBDS_LEN | Loader Library stats record length |
| (2) | ADDRESS | 2 | LDBDS_ID | Loader Library stats id |
| (4) | CHARACTER | 1 | LDBDS_VERS | Loader Library stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | LDB_LIBRARY_NAME | Library name |
| (10) | FULLWORD | 4 | LDB_LIBRARY_SEARCH_POS | Library search position |
| (14) | FULLWORD | 4 | LDB_LIBRARY_RANKING | Library ranking |
| (18) | BITSTRING | 1 | LDB_LIBRARY_CRITICAL | Library critical |
| (19) | BITSTRING | 1 | LDB_LIBRARY_ENABLE_STATUS | Library enable status |
| (1A) | BITSTRING | 2 | | Reserved |
| (1C) | FULLWORD | 4 | LDB_LIBRARY_PROG_LOADS | Library program loads |
| (20) | BITSTRING | 4 | | Reserved |
| (24) | BITSTRING | 4 | | Reserved |
| (28) | BITSTRING | 4 | | Reserved |
| (2C) | BITSTRING | 4 | | Reserved |
| (30) | CHARACTER | 8 | LDB_LIBRARY_DEFINE_SOURCE | Group installed from |
| (38) | BITSTRING | 8 | LDB_LIBRARY_CHANGE_TIME | Change/create time |
| (40) | CHARACTER | 8 | LDB_LIBRARY_CHANGE_USERID | Change userid |
| (48) | BITSTRING | 2 | LDB_LIBRARY_CHANGE_AGENT | Change agent |
| (4A) | BITSTRING | 2 | LDB_LIBRARY_INSTALL_AGENT | Install agent |
| (4C) | BITSTRING | 8 | LDB_LIBRARY_INSTALL_TIME | Install/Create time |
| (54) | CHARACTER | 8 | LDB_LIBRARY_INSTALL_USERID | Install userid |
| (5C) | BITSTRING | 4 | | Reserved |
| (60) | BITSTRING | 4 | | Reserved |
| (64) | FULLWORD | 4 | LDB_LIBRARY_NUMDSNAMES | Library number dsnames |
| (64) | .11. 1... | | LDBDS_END | "*" |
| (64) | .11. 1... | | LDBDS_LENGTH | "*-LDBDS_LEN" Loader Library record length |

Table 346.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | LDB_DSNAME | Library Dsnames |
| (0) | CHARACTER | 44 | LDB_DSNAME | Library Dsname |
| Constants that denote a LD Library stats record | | | | |
| (0) | ...1 1111 | | LDBIDR | "31" Loader Public Library resid stats id |

Table 346. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-------------|-----|-----------------------------|---|
| (0) |1 | | LDB_VERS | "X'01" Record version number |
| (0) |1 | | LDB_CRITICAL_NO | "X'01" Library Critical - No |
| (0) |1. | | LDB_CRITICAL_YES | "X'02" Library Critical - Yes |
| (0) |1 | | LDB_LIBRARY_ENABLED | "X'01" Library Enable Status - Enabled |
| (0) |1. | | LDB_LIBRARY_DISABLED | "X'02" Library Enable Status - Disabled |
| (0) |1 | | LDB_LIBRARY_CSDAPI_CHANGE | "0001" Change Agent - CSD API |
| (0) |1. | | LDB_LIBRARY_CSDbatch_CHANGE | "0002" Change Agent - DFHCSDUP |
| (0) |11 | | LDB_LIBRARY_DREPAPI_CHANGE | "0003" Change Agent - DREP API |
| (0) |1.. | | LDB_LIBRARY_CREATE_CHANGE | "0004" Change Agent - CREATE SPI |
| (0) |111 | | LDB_LIBRARY_SYSTEM_CHANGE | "0007" Change Agent - SYSTEM |
| (0) |1 | | LDB_LIBRARY_CSDAPI_INSTALL | "0001" Install Agent - CSD API |
| (0) |1.. | | LDB_LIBRARY_CREATE_INSTALL | "0004" Install Agent - CREATE SPI |
| (0) |1.1 | | LDB_LIBRARY_GRPLIST_INSTALL | "0005" Install Agent - GRPLIST |
| (0) |111 | | LDB_LIBRARY_SYSTEM_INSTALL | "0007" Install Agent - SYSTEM |
| (0) |1..1 | | LDB_LIBRARY_BUNDLE_INSTALL | "0009" Install Agent - BUNDLE |

LDGDS - Loader statistics

CONTROL BLOCK NAME = DFHLDGDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHLDGPS
 DESCRIPTIVE NAME = CICS TS Loader Statistics
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1986, 2012
 FUNCTION =
 This block described the statistics maintained by the Loader.
 The loader maintains a single instance of this block representing its global statistics
 LIFETIME = This block is created by the Loader to satisfy a request for statistics
 STORAGE CLASS =
 LOCATION = The user is passed a pointer to the head of the block
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = Data from Loader domain
GLOBAL VARIABLES (Macro pass) = none

Table 347.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHLDGDS | Loader statistics (GLOBAL) |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | LDGLEN | Length of data area |
| (0) | ...1 111. | | LDGIDE | "30" Global loader stats id mask |
| (2) | ADDRESS | 2 | LDGID | Loader domain global stats id |
| (2) |1 | | LDGVERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | LDGDVERS | Domain data format version number |
| (5) | CHARACTER | 3 | | Reserved |
| (5) | 1... | | LDGHEND | "*" End of header |
| (5) | 1... | | LDGHLEN | "*-LDGLEN" Length of header |

Table 348.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | LDGGLOBAL | Global statistics DSECT |
| (0) | FULLWORD | 4 | LDGLLR | Number of LIBRARY load requests |
| (4) | FULLWORD | 4 | LDGLLT | Total time for all loads |
| (8) | FULLWORD | 4 | LDGPUSES | Number of program uses |
| (C) | FULLWORD | 4 | LDGWLR | Number of loader reqs waiting |
| (10) | FULLWORD | 4 | LDGWLRHW | HWM waiting loader reqs |
| (14) | FULLWORD | 4 | LDGHWMT | Times at HWM |
| (18) | FULLWORD | 4 | LDGTTW | Total time waiting |
| (1C) | FULLWORD | 4 | LDGDREBS | Number of LIBRARY DEB rebuilds |
| (20) | FULLWORD | 4 | LDGWTDLR | Number of loader reqs that waited |
| (24) | FULLWORD | 4 | LDGLLRRO | Number of LIBRARY load requests on the RO TCB |
| (28) | FULLWORD | 4 | LDGLLTRO | Total time for loads on the RO TCB |
| (2C) | FULLWORD | 4 | LDGLWSOU | Load waits due to search order update |
| (30) | BITSTRING | 8 | LDGLSORT | LIBRARY search order update time |

Table 348. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (38) | FULLWORD | 4 | LDGLBSOU | LIBRARY search order updates |
| (38) | ..11 11.. | | LDGGEND | "*" End of global statistics |
| (38) | ..11 11.. | | LDGGLEN | "*-LDGGLOBAL" Length of global statistics |

Table 349.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-----------|-----|-------------|---|
| (0) | STRUCTURE | 0 | LDGDSASTAT | Program stats on a DSA basis |
| (0) | FULLWORD | 4 | LDGSTGNIU | Amount of storage occupied by NIU programs |
| (4) | FULLWORD | 4 | LDGPROGNIU | Number of programs on NIU queue |
| (8) | FULLWORD | 4 | LDGRECNIU | Number of programs reclaimed from NIU queue |
| (C) | FULLWORD | 4 | LDGDPSCR | Number of programs removed by DPSC |
| (10) | BITSTRING | 8 | LDGDPSCCT | Total time on NIU queue |
| (18) | BITSTRING | 1 | LDGDSAINDEX | DSA index |
| (19) | BITSTRING | 3 | | Reserved |
| (1C) | FULLWORD | 4 | | Reserved |
| (20) | FULLWORD | 4 | | Reserved |
| (24) | FULLWORD | 4 | | Reserved |
| (28) | FULLWORD | 4 | | Reserved |
| (2C) | FULLWORD | 4 | | Reserved |
| (2C) | ..11 | | LDGDSAEND | "*" End of DSA program stats |
| (2C) | ..11 | | LDGDSALEN | "*-LDGDSASTAT" Length of DSA program stats |
| Equates for LDGDSASTAT array | | | | |
| (2C) |11. | | LDGMAXDSA | "6" Number of elements |
| (2C) |1 | | LDGCDSA | "1" CDSA |
| (2C) |1. | | LDGECDSA | "2" ECDSA |
| (2C) |11 | | LDGSDSA | "3" SDSA |
| (2C) |1.. | | LDGESDSA | "4" ESDSA |
| (2C) |1.1 | | LDGRDSA | "5" RDSA |
| (2C) |11. | | LDGERDSA | "6" ERDSA |

LDPDS - Loader statistics for private programs

CONTROL BLOCK NAME = DFHLDPPDS

NAME OF MATCHING PLS CONTROL BLOCK = DFHLDPPS

DESCRIPTIVE NAME = CICS TS Loader Statistics for private programs

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FUNCTION =
This block described the statistics collected by the Loader Domain.
There is an instance of this block for each program for which statistics have been requested.

LIFETIME = This block exists until the statistics request has been satisfied.

STORAGE CLASS =
LOCATION = The user is passed a pointer to the head of the block

INNER CONTROL BLOCKS = none

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = Data from Loader Domain
GLOBAL VARIABLES (Macro pass) = none

Table 350.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHLDPDS | Loader statistics (RESID) |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | LDPLEN | Length of data area |
| (0) | ..1. .1.. | | LDPIDR | "36" Loader stats Resid mask |
| | | | | |
| (2) | ADDRESS | 2 | LDPID | Loader domain stats id |
| (2) |1 | | LDPVERS | "X'01'" DSECT version number |
| (4) | CHARACTER | 1 | LDPDVERS | Domain data format version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 64 | LDP_PLATFORM_NAME | Platform name |
| (48) | CHARACTER | 64 | LDP_APPLICATION_NAME | Application name |
| (88) | FULLWORD | 4 | LDP_APPL_MAJOR_VER | Application major version |
| (8C) | FULLWORD | 4 | LDP_APPL_MINOR_VER | Application minor version |
| (90) | FULLWORD | 4 | LDP_APPL_MICRO_VER | Application micro version |
| (94) | CHARACTER | 8 | LDPPNAME | Program name |
| (9C) | FULLWORD | 4 | LDPTU | Times used since last reset |
| (A0) | FULLWORD | 4 | LDPFC | Fetch count |
| (A4) | FULLWORD | 4 | LDPFT | Total time taken for all fetchs |
| (A8) | FULLWORD | 4 | LDPRPLO | Offset into LIBRARY DD ... |
| (AC) | FULLWORD | 4 | LDPTN | Times NEWCOPYed |
| (B0) | FULLWORD | 4 | LDPPSIZE | Program size |

Table 350. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|--------------------------------------|
| (B4) | FULLWORD | 4 | LDPRPC | Times removed by program compression |
| (B8) | ADDRESS | 1 | LDPLOCN | Location of current copy |
| (B8) | .... .... |  | LDPNOCO | "X'00" No current copy |
| (B8) |1 | | LDPCDCO | "X'01" Current copy in the CDSA |
| (B8) |11 | | LDPLPACO | "X'03" Current copy in the LPA |
| (B8) |1.. | | LDPECDCO | "X'04" Current copy in the ECDSA |
| (B8) |11. | | LDPERDCO | "X'06" Current copy in the ERDSA |
| (B8) |111 | | LDPELPCO | "X'07" Current copy in the ELPA |
| (B8) | 1... | | LDPSDCO | "X'08" Current copy in the SDSA |
| (B8) | 1..1 | | LDPESDCO | "X'09" Current copy in the ESDSA |
| (B8) | 1.1. | | LDPRDCO | "X'0A" Current copy in the RDSA |
| (B9) | ADDRESS | 3 | | Reserved |
| (BC) | CHARACTER | 8 | LDPLBNM | Program library name |
| (C4) | CHARACTER | 44 | LDPLBDNM | Program library dsname |
| (F0) | CHARACTER | 64 | LDP_OPERATION_NAME | Operation name |
| (130) | CHARACTER | 20 | | Reserved |
| (130) | | 0 | LDPEND | "1">"1" |
| (130) | | 0 | LDPCLEN | "1*-LDPLEN" Length of DSECT |

LDRDS - Loader statistics for public programs

CONTROL BLOCK NAME = DFHLDRDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHLDRPS
 DESCRIPTIVE NAME = CICS TS Loader Statistics for programs
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 (C) Copyright IBM Corp. 1986, 2007
 FUNCTION =
 This block described the statistics collected by the Loader Domain.
 There is an instance of this block for each program for which statistics have been requested.
 LIFETIME = This block exists until the statistics request has been satisfied.
 STORAGE CLASS =
 LOCATION = The user is passed a pointer to the head of the block
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none

MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = Data from Loader Domain
 GLOBAL VARIABLES (Macro pass) = none

Table 351.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------------|
| (0) | STRUCTURE | 0 | DFHLDRDS | Loader statistics (RESID) |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | LDRLEN | Length of data area |
| (0) | ...1 1..1 | | LDRIDR | "25" Loader stats Resid mask |
| | | | | |
| (2) | ADDRESS | 2 | LDRID | Loader domain stats id |
| (2) |1 | | LDRVERS | "X'01'" DSECT version number |
| (4) | CHARACTER | 1 | LDRDVERS | Domain data format version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | LDRPNAME | Program name |
| (10) | FULLWORD | 4 | LDRTU | Times used since last reset |
| (14) | FULLWORD | 4 | LDRFC | Fetch count |
| (18) | FULLWORD | 4 | LDRFT | Total time taken for all fetchs |
| (1C) | FULLWORD | 4 | LDRRPLO | Offset into LIBRARY DD ... |
| (20) | FULLWORD | 4 | LDRTN | Times NEWCOPYed |
| (24) | FULLWORD | 4 | LDRPSIZE | Program size |
| (28) | FULLWORD | 4 | LDRRPC | Times removed by program compression |
| (2C) | ADDRESS | 1 | LDRLOCN | Location of current copy |
| (2C) | .... .... |  | LDRNOCO | "X'00'" No current copy |
| (2C) |1 | | LDRCDCO | "X'01'" Current copy in the CDSA |
| (2C) |11 | | LDRLPACO | "X'03'" Current copy in the LPA |
| (2C) |1.. | | LDREDCO | "X'04'" Current copy in the ECDSA |
| (2C) |11. | | LDRERDCO | "X'06'" Current copy in the ERDSA |
| (2C) |111 | | LDRELPCO | "X'07'" Current copy in the ELPA |
| (2C) | 1... | | LDRSDCO | "X'08'" Current copy in the SDSA |
| (2C) | 1..1 | | LDRESDCO | "X'09'" Current copy in the ESDSA |

Table 351. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (2C) | 1.1. | | LDRRDCO | "X'0A'" Current copy in the RDSA |
| (2D) | ADDRESS | 3 | | Reserved |
| (30) | CHARACTER | 8 | LDRLBNM | Program library name |
| (38) | CHARACTER | 44 | LDRLBDNM | Program library dsname |
| (64) | CHARACTER | 20 | | Reserved |
| (64) | .111 1... | | LDREND | "1%11" |
| (64) | .111 1... | | LDRCLN | "1%-LDRLN" Length of DSECT |

LDYDS - Loader statistics for private LIBRARYs

CONTROL BLOCK NAME = DFHLDYDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHLDYPS
DESCRIPTIVE NAME = CICS TS Loader Statistics for LIBRARYs
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FUNCTION =
This block described the statistics collected by the Loader Domain.
There is an instance of this block for each private library for which statistics have been requested.

LIFETIME = This block exists until the statistics request has been satisfied.

STORAGE CLASS =

LOCATION = The user is passed a pointer to the head of the block

INNER CONTROL BLOCKS = None

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = None
GLOBAL VARIABLES (Macro pass) = None

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLDYDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 352.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHLDYDS | Loader Private Library Resid stats record |
| (0) | HALFWORD | 2 | LDYDS_LEN | Loader Library stats record length |
| (2) | ADDRESS | 2 | LDYDS_ID | Loader Library stats id |
| (4) | CHARACTER | 1 | LDYDS_VERS | Loader Library stats version |
| (5) | CHARACTER | 3 | | Reserved |

Table 352. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|---|
| (8) | CHARACTER | 64 | LDY_LIBRARY_PLATFORM_NAME | Platform name |
| (48) | CHARACTER | 64 | LDY_LIBRARY_APPLICATION_NAME | Application name |
| (88) | FULLWORD | 4 | LDY_LIBRARY_APPL_MAJOR_VER | Application major version |
| (8C) | FULLWORD | 4 | LDY_LIBRARY_APPL_MINOR_VER | Application minor version |
| (90) | FULLWORD | 4 | LDY_LIBRARY_APPL_MICRO_VER | Application micro version |
| (94) | CHARACTER | 8 | LDY_LIBRARY_NAME | Library name |
| (9C) | FULLWORD | 4 | LDY_LIBRARY_SEARCH_POS | Library search position |
| (A0) | FULLWORD | 4 | LDY_LIBRARY_RANKING | Library ranking |
| (A4) | BITSTRING | 1 | LDY_LIBRARY_CRITICAL | Library critical |
| (A5) | BITSTRING | 1 | LDY_LIBRARY_ENABLE_STATUS | Library enable status |
| (A6) | BITSTRING | 2 | | Reserved |
| (A8) | FULLWORD | 4 | LDY_LIBRARY_PROG_LOADS | Library program loads |
| (AC) | BITSTRING | 4 | | Reserved |
| (B0) | BITSTRING | 4 | | Reserved |
| (B4) | BITSTRING | 4 | | Reserved |
| (B8) | BITSTRING | 4 | | Reserved |
| (BC) | CHARACTER | 8 | LDY_LIBRARY_DEFINE_SOURCE | Group installed from |
| (C4) | BITSTRING | 8 | LDY_LIBRARY_CHANGE_TIME | Change/create time |
| (CC) | CHARACTER | 8 | LDY_LIBRARY_CHANGE_USERID | Change userid |
| (D4) | BITSTRING | 2 | LDY_LIBRARY_CHANGE_AGENT | Change agent |
| (D6) | BITSTRING | 2 | LDY_LIBRARY_INSTALL_AGENT | Install agent |
| (D8) | BITSTRING | 8 | LDY_LIBRARY_INSTALL_TIME | Install/Create time |
| (E0) | CHARACTER | 8 | LDY_LIBRARY_INSTALL_USERID | Install userid |
| (E8) | BITSTRING | 4 | | Reserved |
| (EC) | BITSTRING | 4 | | Reserved |
| (F0) | FULLWORD | 4 | LDY_LIBRARY_NUMDSNAMES | Library number dsnames |
| (F0) | 1111 .1.. | | LDYDS_END | "*" |
| (F0) | 1111 .1.. | | LDYDS_LENGTH | "*-LDYDS_LEN" Loader Library record length |

Table 353.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | LDY_DSNAME | Library Dsnames |
| (0) | CHARACTER | 44 | LDY_DSNAME | Library Dsname |
| Constants that denote a LD Library stats record | | | | |
| (0) | ..1. | | LDYIDR | "32" Loader Private Library resid statsid |

Table 353. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-------------|-----|-----------------------------|---|
| (0) |1 | | LDY_VERS | "X'01" Record version number |
| (0) |1 | | LDY_CRITICAL_NO | "X'01" Library Critical - No |
| (0) |1. | | LDY_CRITICAL_YES | "X'02" Library Critical - Yes |
| (0) |1 | | LDY_LIBRARY_ENABLED | "X'01" Library Enable Status - Enabled |
| (0) |1. | | LDY_LIBRARY_DISABLED | "X'02" Library Enable Status - Disabled |
| (0) |1 | | LDY_LIBRARY_CSDAPI_CHANGE | "0001" Change Agent - CSD API |
| (0) |1. | | LDY_LIBRARY_CSDbatch_CHANGE | "0002" Change Agent - DFHCSDUP |
| (0) |11 | | LDY_LIBRARY_DREPAPI_CHANGE | "0003" Change Agent - DREP API |
| (0) |1.. | | LDY_LIBRARY_CREATE_CHANGE | "0004" Change Agent - CREATE SPI |
| (0) |111 | | LDY_LIBRARY_SYSTEM_CHANGE | "0007" Change Agent - SYSTEM |
| (0) |1 | | LDY_LIBRARY_CSDAPI_INSTALL | "0001" Install Agent - CSD API |
| (0) |1.. | | LDY_LIBRARY_CREATE_INSTALL | "0004" Install Agent - CREATE SPI |
| (0) |1.1 | | LDY_LIBRARY_GRPLIST_INSTALL | "0005" Install Agent - GRPLIST |
| (0) |111 | | LDY_LIBRARY_SYSTEM_INSTALL | "0007" Install Agent - SYSTEM |
| (0) |1..1 | | LDY_LIBRARY_BUNDLE_INSTALL | "0009" Install Agent - BUNDLE |

LESRV - Service routine vector

Vector of routines provided to Language Environment

Table 354.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|---------------|
| (0) | STRUCTURE | 136 | DFH_SERVICE_VECTOR | |
| (0) | FULLWORD | 4 | DFH_SERVICE_VECTOR_LENGTH | vector length |
| (4) | BIT(32) | 4 | DFH_SERVICE_FLAGS | availability |
| (4) | BIT(8) | 1 | DFH_SERVICE_FLAG_BYTE1 | |
| (4) | 1... | | DFHGCAA_AVAIL | |
| (4) | .1.. | | DFHSCAA_AVAIL | |
| (4) | ..1. | | DFHLEGM_AVAIL | |
| (4) | ...1 | | DFHLEFM_AVAIL | |
| (4) | 1... | | DFHLEAS_AVAIL | |
| (4) |1.. | | DFHLEDS_AVAIL | |

Table 354. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|------------------|
| (4) |1. | | DFHLEGQ_AVAIL | |
| (4) |1 | | DFHLEFQ_AVAIL | |
| (5) | BIT(8) | 1 | DFH_SERVICE_FLAG_ BYTE2 | |
| (5) | 1... | | DFHLETR_AVAIL | |
| (5) | .1.. | | DFHLEDT_AVAIL | |
| (5) | ..1. | | DFHLERO_AVAIL | |
| (5) | ...1 1111 | | * | reserved |
| (6) | BIT(8) | 1 | DFH_SERVICE_FLAG_ BYTE3 | reserved |
| (7) | BIT(8) | 1 | DFH_SERVICE_FLAG_ BYTE4 | reserved |
| (8) | CHARACTER | 128 | DFH_SERVICE_ROUTINES | |
| (8) | ADDRESS | 4 | DFHGCAA_ADDRESS | get anchor |
| (C) | ADDRESS | 4 | DFHSCAA_ADDRESS | set anchor |
| (10) | ADDRESS | 4 | DFHLEGM_ADDRESS | getmain |
| (14) | ADDRESS | 4 | DFHLEFM_ADDRESS | freemain |
| (18) | ADDRESS | 4 | DFHLEAS_ADDRESS | add subpool |
| (1C) | ADDRESS | 4 | DFHLEDS_ADDRESS | delete subpool |
| (20) | ADDRESS | 4 | DFHLEGQ_ADDRESS | get quickcell |
| (24) | ADDRESS | 4 | DFHLEFQ_ADDRESS | free quickcell |
| (28) | ADDRESS | 4 | DFHLETR_ADDRESS | trace |
| (2C) | ADDRESS | 4 | DFHLEDT_ADDRESS | transaction dump |
| (30) | ADDRESS | 4 | DFHLERO_ADDRESS | runtime options |
| (34) | ADDRESS | 4 | * (4294967317:0) | reserved |

LFM - LIFO parameter list and standard DSA

CONTROL BLOCK NAME = DFHLPLST, DFHLFS
NAME OF MATCHING PLS CONTROL BLOCK = DFHLMDS for DFHLFS
DESCRIPTIVE NAME = CICS TS LIFO Parameter List and Standard DSA
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(C) Copyright IBM Corp. 1980, 2013
FUNCTION =
Maps the parameter list passed to DFHLFA.
The values of the field DFHLPMOD are given in the module
identifiers in DFHFMIDS.
Maps the standard DSA.
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Control block definition

Table 355.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 0 | DFHLPLST | DSECT FOR PLIST |
| (0) | DBL WORD | 8 | (0) | Double word alignment |

Table 355. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (0) | .... .... |  | OFF0 | "00" OFFSET OF FLAGS |
| (0) |1 | | OFF1 | "01" OFFSET OF STATUS FLAGS |
| (0) |1. | | OFLN | "02" LENGTH OFFSET |
| (0) | 1... | | OFGR | "128" CHAIN BACK OFFSET (64 bit) |
| (0) | 1... ..1. | | OFDR | "132" CHAIN BACK OFFSET (32 bit) |
| (0) | 1... | | OFGRE | "8" OFFSET OF REG 14 (64 bit) |
| (0) | 11.. | | OFLR | "12" OFFSET OF REG 14 (32 bit) |
| (0) | ..1. | | OFGR1 | "32" OFFSET OF REG 1 (64 bit) |
| (0) | ..1. ..1. | | OFR1 | "36" OFFSET OF REG 1 (32 bit) |
| (0) | 1..1 | | OFGRD | "144" OFFSET OF REG 13 (64 bit) |
| (0) | 1..1 ..1. | | OFRD | "148" OFFSET OF REG 13 (32 bit) |
| (0) | 11.1 | | OFNB | "208" NAB OFFSET (64 bit) |
| (0) | 11.1 | | NAB | "208" NAB OFFSET (64 bit) |
| (0) | 1.11 | | OFTASN | "176" OFFSET OF TASN (64 bit) |
| (0) | 1.11 1... | | OFPOWN | "184" Offset of POWN |
| (0) | 1111 111. | | CINTISA | "X'FE" INITIAL SEGMENT NO * |
| PLIST PASSED BETWEEN MODULE AND FIRST GET LIFO MODULE | | | | |
| (0) | HALFWORD | 2 | DFHLPLEN | LENGTH OF PLIST |
| (2) | HALFWORD | 2 | DFHLPDFG | DSA ID |
| (4) | HALFWORD | 2 | DFHLPDLN | DSA LENGTH |
| (6) | HALFWORD | 2 | DFHLPMDS | OFFSET OF MODULE START FROM PLIST START |
| (8) | FULLWORD | 4 | DFHLPTRC | TRACE FLAGS |
| (C) | HALFWORD | 2 | DFHLPMOD | MOD ID |
| (E) | HALFWORD | 2 | DFHLPMDC | MOD ID IN CHARACTER FORM |
| (10) | BITSTRING | 1 | DFHLPTRF | OPTION SETTING |
| (10) | ..1. | | LFLPTRRC | "X'40" RECOVERY ROUTINE PRESENT |
| (10) | 1... | | LFLPTRCN | "X'08" CONDITIONAL REQUEST |
| (10) |1. | | LFLPTRRN | "X'04" COND RETURN REQUEST |

Table 355. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (10) |1. | | LFLPTRIC | "X'02" IC LOGIC IS REQUESTED. |
| (10) |1 | | LFLPTRTR | "X'01" TRACE IS REQUESTED. |
| (11) | BITSTRING | 1 | DFHLPTR2 | PERFORM, ACCOUNT, EXCEPT |
| (12) | BITSTRING | 1 | DFHLPRS3 | RESERVED |
| (13) | BITSTRING | 1 | DFHLPRS4 | RESERVED |
| (14) | FULLWORD | 4 | DFHLPSMD | Smode index |
| (14) | .... .... |  | DFHLPS31 | "0" Smode 31 |
| (14) | 1... | | DFHLPS24 | "8" Smode 24 |
| (18) | ADDRESS | 8 | DFHLPREC | Recovery routine address * |

STANDARD DSA

Table 356.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (0) | STRUCTURE | 0 | DFHLFS | |
| (0) | BITSTRING | 1 | LFDSOFF0 | FLAG BYTE 0 |
| (1) | BITSTRING | 1 | LFDSOFF1 | FLAG BYTE 1 |
| (1) | 1... | | LFDSRST | "X'80" Trusted stack |
| (1) | .1.. | | LFDSERRD | "X'40" DFHKERRD exists, i.e. stack in error state |
| (1) | ..1. | | LFDSACR | "X'20" CICS Recovery added |
| (1) | ...1 | | LFDS SAVE | "X'10" Save area exists and is pointed to by KERNSAVP |
| (1) | 1... | | LFDSLCON | "X'08" Loop controller |
| (1) |1.. | | LFDSDFAB | "X'04" Deferred abend scheduled |
| (1) |1 | | LFDSF4SA | "X'01" Format 4 save area against this stack |
| (2) | HALFWORD | 2 | LFDSOFLN | LENGTH OF DSA |
| (4) | CHARACTER | 4 | LFDSOSID | Savearea Id |
| (8) | ADDRESS | 8 | LFDSOGLR (0) | Register 14 (64 bit) |
| (8) | ADDRESS | 4 | | |
| (C) | ADDRESS | 4 | LFDSOFLR | Register 14 (32 bit) |
| (10) | ADDRESS | 8 | LFDSOGBR (0) | Register 15 (64 bit) |
| (10) | ADDRESS | 4 | | |
| (14) | ADDRESS | 4 | LFDSOFBR | Register 15 (32 bit) |
| (18) | ADDRESS | 8 | LFDSOGR0 (0) | Register 0 (64 bit) |
| (18) | ADDRESS | 4 | | |
| (1C) | ADDRESS | 4 | LFDSOFR0 | Register 0 (32 bit) |

Table 356. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|--------------|-------------------------|
| (20) | ADDRESS | 8 | LFDSOGR1 (0) | Register 1 (64 bit) |
| (20) | ADDRESS | 4 | | |
| (24) | ADDRESS | 4 | LFDSOFR1 | Register 1 (32 bit) |
| (28) | ADDRESS | 8 | LFDSOGR2 (0) | Register 2 (64 bit) |
| (28) | ADDRESS | 4 | | |
| (2C) | ADDRESS | 4 | LFDSOFR2 | Register 2 (32 bit) |
| (30) | ADDRESS | 8 | LFDSOGAR (0) | Register 3 (64 bit) |
| (30) | ADDRESS | 4 | | |
| (34) | ADDRESS | 4 | LFDSOFAR | Register 3 (32 bit) |
| (38) | ADDRESS | 8 | LFDSOGR4 (0) | Register 4 (64 bit) |
| (38) | ADDRESS | 4 | | |
| (3C) | ADDRESS | 4 | LFDSOFR4 | Register 4 (32 bit) |
| (40) | ADDRESS | 8 | LFDSOGR5 (0) | Register 5 (64 bit) |
| (40) | ADDRESS | 4 | | |
| (44) | ADDRESS | 4 | LFDSOFR5 | Register 5 (32 bit) |
| (48) | ADDRESS | 8 | LFDSOGR6 (0) | Register 6 (64 bit) |
| (48) | ADDRESS | 4 | | |
| (4C) | ADDRESS | 4 | LFDSOFR6 | Register 6 (32 bit) |
| (50) | ADDRESS | 8 | LFDSOGR7 (0) | Register 7 (64 bit) |
| (50) | ADDRESS | 4 | | |
| (54) | ADDRESS | 4 | LFDSOFR7 | Register 7 (32 bit) |
| (58) | ADDRESS | 8 | LFDSOGR8 (0) | Register 8 (64 bit) |
| (58) | ADDRESS | 4 | | |
| (5C) | ADDRESS | 4 | LFDSOFR8 | Register 8 (32 bit) |
| (60) | ADDRESS | 8 | LFDSOGR9 (0) | Register 9 (64 bit) |
| (60) | ADDRESS | 4 | | |
| (64) | ADDRESS | 4 | LFDSOFR9 | Register 9 (32 bit) |
| (68) | ADDRESS | 8 | LFDSOGRX (0) | Register 10 (64 bit) |
| (68) | ADDRESS | 4 | | |
| (6C) | ADDRESS | 4 | LFDSOFRX | Register 10 (32 bit) |
| (70) | ADDRESS | 8 | LFDSOGRY (0) | Register 11 (64 bit) |
| (70) | ADDRESS | 4 | | |
| (74) | ADDRESS | 4 | LFDSOFRY | Register 11 (32 bit) |
| (78) | ADDRESS | 8 | LFDSOGCR (0) | Register 12 (64 bit) |
| (78) | ADDRESS | 4 | | |
| (7C) | ADDRESS | 4 | LFDSOFCR | Register 12 (32 bit) |
| (80) | ADDRESS | 8 | LFDSOGDR (0) | Backward chain (64 bit) |
| (80) | ADDRESS | 4 | | |
| (84) | ADDRESS | 4 | LFDSOFDR | Backward chain (32 bit) |

Table 356. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (88) | ADDRESS | 8 | | Reserved (Forward chain) End of F4SA |
| (90) | ADDRESS | 8 | LFDSOGRD (0) | Register 13 (64 bit) |
| (90) | ADDRESS | 4 | | |
| (94) | ADDRESS | 4 | LFDSOFRD | Register 13 (32 bit) |
| (98) | ADDRESS | 4 | | Reserved - 64 bit |
| (9C) | BITSTRING | 1 | LFDSFLG2 | Flag byte 2 |
| (9C) | 1... | | LFDSABTM | "X'80" Abterm allowed switch |
| (9C) |1. | | LFDSPCPY | "X'02" Plist was copied |
| (9C) | ...1 | | LFDSLOOP | "X'10" DSA may be looping |
| (9D) | FULLWORD | 1 | LFDSMX | Stack mode index used by kernel |
| (9E) | FULLWORD | 1 | LFDSKEY | Stack key |
| (9F) | FULLWORD | 1 | LFDSPLLN | Plist qword length (if copied) |
| (A0) | ADDRESS | 8 | | Reserved - 64 bit |
| (A8) | ADDRESS | 8 | | Used by Kernel |
| | | | | |
| (B0) | ADDRESS | 8 | LFDSTASN | Address of task entry |
| (B8) | ADDRESS | 8 | LFDSPOWN | Address of process own |
| (C0) | ADDRESS | 8 | LFSDTAB | Callers domain entry |
| (C8) | FULLWORD | 8 | LFDSTRFL | Trace flags |
| (D0) | ADDRESS | 8 | LFDSOFNB | NAB |
| (D8) | ADDRESS | 8 | LFDSAPLT | Module PLIST pointer |
| (E0) | ADDRESS | 8 | | Used by Kernel. |
| (E8) | FULLWORD | 8 | LFDSMOD | SMODE index 0=31-bit 8=24-bit |
| (F0) | BITSTRING | 1 | LFDSMOD1 | MODULE ID |
| (F1) | BITSTRING | 1 | LFDSMOD2 | SUB MODULE ID |
| (F2) | HALFWORD | 2 | LFDSMODN | MOD NAME 2 CHAR |
| (F4) | ADDRESS | 4 | | Reserved |
| (F8) | ADDRESS | 4 | | Used by Kernel |
| (FC) | ADDRESS | 4 | | Used by Kernel |
| (100) | DBL WORD | 8 | LFDSUSS1 (0) | USER AREA START |
| (100) | DBL WORD | 8 | LFDSUSS2 (0) | START USER AREA AFTER COPY * |

END OF STANDARD SECTION
Kernel Domain Table Entry Overlay. Pointed to by LFSDTAB.

Table 357.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------|
| (0) | STRUCTURE | 0 | LFDSLTE | , |
| (0) | CHARACTER | 8 | | Used by Kernel |
| (8) | FULLWORD | 4 | LFDSLTEI | Domain index |
| (C) | CHARACTER | 4 | | USED BY KERNEL |
| (10) | ADDRESS | 8 | LFDSLTEA | Domain anchor |
| (18) | CHARACTER | 32 | | Used by Kernel |
| (38) | CHARACTER | 1 | (0) | Used by Kernel |

Table 358.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------|
| (0) | STRUCTURE | 0 | DFHLFS | Continue stack dsect |

LGGDS - Log Manager Global Statistics

CONTROL BLOCK NAME = DFHLGGDS
 NAME OF MATCHING PLX CONTROL BLOCK = DFHLGGPS
 DESCRIPTIVE NAME = CICS TS Log Manager Logstream Global Statistics
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 5655-Y04
 (C) Copyright IBM Corp. 2000
 FUNCTION =
 This data area contains logstream global statistics
 provided by the Log Manager Domain.
 It is provided for use in users monitoring applications
 to map the statistics returned via the API or the statistics
 exit.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the Log Manager
 Domain to store statistics to be passed to the user in
 response to a request for statistics. The storage is
 released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer
 created by the statistics domain and is used in the
 statistics exit.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage
 block.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer

 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from logger domain
 GLOBAL VARIABLES (Macro pass) = none

 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGGDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 359.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|----------------------------------|
| (0) | STRUCTURE | 0 | DFHLGGDS | Log Mgr Global stats record |
| (0) | HALFWORD | 2 | LGGLLEN | Record length |
| (2) | ADDRESS | 2 | LGGID | Log Manager logstream stats id |
| (4) | CHARACTER | 1 | LGGDVERS | Log Manager stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | LGGAKPFREQ | Keypoint Frequency |
| (C) | FULLWORD | 4 | LGGLGDEFER | Logdefer Interval |
| (10) | FULLWORD | 4 | LGGAKPSTKN | Number of Keypoints Taken |
| (14) | CHARACTER | 4 | | Reserved |
| (18) | CHARACTER | 4 | | Reserved |
| (18) | ...1 11.. | | LGGEND | "*" |
| (18) | ...1 11.. | | LGGDSLEN | "*-LGGLLEN" Record length |
| Constants that denote a LG logstream global stats record | | | | |
| (18) | .1.1 11.. | | LGGIDE | "92" Log Manager global stats id |
| (18) |1 | | LGGVERS | "X'01" Record version number |

LGGF - General Log Format

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A General Log is any CICS log other than the CICS System Log. It may reside upon the MVS Logger or upon MVS SMF. Such a log comprises a sequence of contiguous blocks. A block is the unit of output when flushing the internal log buffer.

Each block comprises a block header followed by a variable number of CICS records. The format of the block header is defined by the dssect "lgbh_block_header".

Each CICS record comprises a record header followed by the caller data part. The record header is defined by the dssect "glrh_record_header".

The format of the caller data part is unknown at the Log Manager functional level. It usually comprises one or several other CICS component record headers followed by yet another embedded caller data part. The record header fields "glrh_rec_type" and "glrh_rec_compid" indicates which CICS component is to be used to define this part of the record.

If this is 'UJ', which means the record originated from an application program, then this record header is followed by a user header as defined by "cl_user_header".

The following diagram shows the physical layout of a General Log block.

```

general log
__ first general log block
__ __ block header (lgbh_block_header)
__ __ __ first cics record
__ __ __ __ record header (glrh_record_header)
__ __ __ __ caller data
__ __ __ __ next cics record
__ __ __ ...
__ __ __ last cics record
__ __ __ ...
__ next general log block
__ ...
__ last general log block
__ ...

```

This copybook defines the block header, record header, general user header, and 'start of run' record body for General Logs.

Each block starts with a block header as defined here.

Table 360.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---|-----|---------------------|--------------------------------|
| (0) | STRUCTURE | 40 | LGBH_BLOCK_HEADER | |
| (0) | STRUCTURE IsA(MVSLOGBLOCKHEADER) | 40 | * | |
| (0) | CHARACTER | 8 | LGBH_GLOBAL_INFO | |
| (0) | CHARACTER | 4 | LGBH_BLOCK_TYPE | set to '>DFH' to |
| (0) | CHARACTER | 1 | LGBH_BT_ARROW | identify a CICS |
| (1) | CHARACTER | 3 | LGBH_BT_DFH | block |
| (4) | CHARACTER | 4 | * | |
| (4) | UNSIGNED | 1 | LGBH_LOG_TYPE | general or system log |
| (5) | CHARACTER | 1 | LGBH_FLAGS | reserved |
| (6) | UNSIGNED | 2 | LGBH_BLOCK_VER | block format version number |
| (8) | CHARACTER | 24 | LGBH_CICS_INFO | |
| (8) | CHARACTER | 8 | LGBH_GENERIC_APPLID | CICS generic applid |
| (10) | CHARACTER | 8 | LGBH_START_GMT | record time (GMT) |
| (18) | CHARACTER | 8 | LGBH_START_LOCAL | record time (LOCAL) |
| (20) | CHARACTER | 8 | LGBH_BLOCK_INFO | |
| (20) | CHARACTER | 8 | LGBH_BLOCK_NUMBER | block sequence number |
| (28) | CHARACTER | 0 | LGBH_DATA | records follow |

--

Each record starts with a record header as defined here.

Table 361.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------------------------------|-----|--------------------|--------------------------------------|
| (0) | STRUCTURE | 56 | GLRH_RECORD_HEADER | |
| (0) | STRUCTURE IsA(GENLOGRECORD) | 56 | * | |
| (0) | CHARACTER | 12 | * | |
| (0) | UNSIGNED | 4 | GLRH_RECORD_LENGTH | inclusive length of this record |
| (4) | UNSIGNED | 4 | GLRH_HEADER_LENGTH | inclusive length of this header |
| (8) | UNSIGNED | 4 | GLRH_REC_DATA_LEN | length of data following this header |
| (C) | CHARACTER | 16 | GLRH_TIMESTAMPS | timestamps |
| (C) | CHARACTER | 8 | GLRH_GMT | record time (GMT) |
| (14) | CHARACTER | 8 | GLRH_LOCAL | record time (LOCAL) |
| (1C) | CHARACTER | 12 | GLRH_TASK_INFO | logging task information |
| (1C) | CHARACTER | 4 | GLRH_TRAN_ID | transaction id |
| (20) | CHARACTER | 4 | GLRH_TASK_ID | task number |
| (24) | CHARACTER | 4 | GLRH_TERM_ID | terminal id |
| (28) | CHARACTER | 12 | GLRH_RECORD_ID | record identification |
| (28) | UNSIGNED | 2 | GLRH_REC_TYPE | start_of_run (sor) or user |
| (2A) | CHARACTER | 2 | GLRH_REC_COMPID | logging component id |
| (2C) | CHARACTER | 8 | GLRH_REC_JOURNAL | logging journal name |
| (34) | CHARACTER | 4 | GLRH_LGSSI | for DFHLGSSI conversion rtn |
| (34) | CHARACTER | 1 | GLRH_LGSSI_FLAGS | not set for system log |
| (34) | 1... | | GLRH_START_OF_TASK | equivalent to JCSPSOTK |
| (34) | .1.. | | GLRH_START_OF_UOW | equivalent to JCSPSTK |
| (35) | CHARACTER | 3 | GLRH_LGSSI_RSVD | reserved |
| (38) | CHARACTER | 0 | GLRH_REC_DATA | |

--

When CICS connects to a MVS Logger General Log it writes a 'start-of-run' record to the log as the first record written during this run of CICS. This record is made up of a record header as defined above followed by the dsect "gl_sor_body".

NOTE: "gl_sor_body" is a particular case of 'caller data' referred to above.

The following diagram shows how a 'start-of-run' record appears within a General Log block.

```

general log
-- ...
-- a general log block
--   block header (lgbh_block_header)
--   first cics record
--   record header (glrh_record_header)

```

```

__ __ __ __ start of run record body (gl_sor_body)
__ __ __ next cics record
__ __ __ ...
__ __ __ last cics record
__ __ __ ...

```

Table 362.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--------------------------------------|-----|---------------------|--------------------------|
| (0) | STRUCTURE | 20 | GL_SOR_BODY | |
| (0) | STRUCTURE IsA(STARTOFRUNDATA) | 20 | * | |
| (0) | CHARACTER | 20 | SOR_CICS_INFO | start-of-run information |
| (0) | CHARACTER | 4 | SOR_CICS_RELEASE | CICS version and release |
| (4) | CHARACTER | 8 | SOR_SPECIFIC_APPLID | CICS specific applid |
| (C) | CHARACTER | 8 | SOR_CICS_USERNAME | CICS userid |

--

The CICS API supports writing directly to a user journal (which may be a General Log or the System Log) using the EXEC CICS WRITE JOURNALNAME command. This takes as input the journal type, user data and optional user prefix data. These elements are put together as shown in the dsect "cl_user_header".

NOTE: "cl_user_header" is a particular case of 'caller data' referred to above.

In this case "glrh_rec_compid" will be set to 'UJ'.

The following diagram shows how a user header appears within a General Log record.

```

general log
__ ...
__ general log block
__ __ block header (lgbh_block_header)
__ __ __ first cics record
__ __ __ ...
__ __ __ next cics record
__ __ __ record header (glrh_record_header)
__ __ __ user header (cl_user_header)
__ __ __ rest of caller data
__ __ __ last cics record
__ __ __ ...

```

NOTE: "cl_uh_prefix_length" shows the number of bytes of data that is contained in the user prefix. The user prefix data, if present, immediately follows this header, which in turn is followed by the user data.

Table 363.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-------------|
| (0) | STRUCTURE | 12 | CL_USER_HEADER | |

Table 363. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------------------------|-----|---------------------|---|
| (0) | STRUCTURE IsA(GENLOGUSER) | 12 | * | |
| (0) | UNSIGNED | 4 | CL_UH_LENGTH | length of structure inclusive of this field |
| (4) | UNSIGNED | 2 | CL_UH_JOURNAL_TYPE | journal type |
| (6) | CHARACTER | 2 | CL_UH_RSVD1 | reserved |
| (8) | UNSIGNED | 4 | CL_UH_PREFIX_LENGTH | user prefix length |
| (C) | CHARACTER | 0 | CL_UH_END | user prefix data (if any) followed by user data |

Constants

Table 364.

| Len | Type | Value | Name | Description |
|-----|-----------|-------|-----------------------|-------------|
| | | | | |
| 2 | DECIMAL | 1 | LGBH_BLOCK_VERSION_NO | |
| 3 | CHARACTER | DFH | LGBH_BLOCK_TYPE_DFH | |
| 1 | CHARACTER | > | LGBH_BLOCK_TYPE_ARROW | |
| 1 | DECIMAL | 0 | LGBH_LOG_TYPE_GENERAL | |
| 1 | DECIMAL | 1 | LGBH_LOG_TYPE_SYSTEM | |
| 2 | DECIMAL | 1 | SOR_REC_TYPE | |
| 2 | DECIMAL | 2 | USER_REC_TYPE | |

LGMS - SMF Log Format

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A CICS user journal (not the System Log) can be defined to reside upon SMF (a special log that MVS SMF manages). This log comprises a sequence of contiguous blocks, some of which are built and written by CICS.

Each block built and written by CICS comprises a SMF block header, CICS SMF product section, followed by a CICS data section. The latter comprises of a variable number of CICS records. The format of the block header is defined by the dsect "smf_block_header".

The SMF CICS data section, which only shows its start address, has been included for completeness. In reality this section includes a variable number of CICS records.

Each CICS record comprise a record header followed by the caller data part. The format of the record header is defined by the dsect "glrh_record_header". The format of the caller data part is

unknown at the Log Manager functional level. It usually comprises one or several other CICS component record headers. The record header fields "glrh_rec_type" and "glrh_rec_compid" indicates which CICS component is to be used to define this part of the record.

The following diagram shows the physical layout of an SMF log block

```

MVS SMF log
__ first log block
__ __ smf block header (smf_header)
__ __ smf cics product section (smf_product_section)
__ __ smf cics data section (smf_data_section)
__ __ __ first cics record
__ __ __ __ record header (lgrh_record_header)
__ __ __ __ caller data
__ __ __ __ next cics record
__ __ __ ...
__ __ __ last cics record
__ __ __ ...
__ __ next general log block
__ __ ...
__ __ last general log block
__ __ ...

```

This copybook defines the SMF block header. It should be used in conjunction with the General Log copybook DFHLGGFD which defines the record header and user header.

Each block starts with a block header as defined here.

Table 365.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---|-----|------------------|---|
| (0) | STRUCTURE | 158 | SMF_BLOCK_HEADER | |
| (0) | STRUCTURE IsA(SMFLOGBLOCKHEADER) | 158 | * | |
| (0) | CHARACTER | 44 | SMF_HEADER | |
| (0) | UNSIGNED | 2 | SMFH_LEN | record length |
| (2) | UNSIGNED | 2 | SMFH_SEG | segment descriptor |
| (4) | CHARACTER | 1 | SMFH_FLG | operating system indicator (see constant prefixed smfh_flg below) |
| (5) | CHARACTER | 1 | SMFH_RTY | record type (see constant prefixed smfh_rty below) |
| (6) | CHARACTER | 4 | SMFH_TME | time record moved (HHMMSST+) |
| (A) | CHARACTER | 4 | SMFH_DTE | date record moved (0CYYDDD+) |
| (E) | CHARACTER | 4 | SMFH_SID | system identification |
| (12) | CHARACTER | 4 | SMFH_SSI | sub-system identification (see constant prefixed smfh_ssi below) |

Table 365. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|---|
| (16) | UNSIGNED | 2 | SMFH_STY | record subtype (see constant prefixed smfh_sty below) |
| (18) | UNSIGNED | 2 | SMFH_TRN | number of triplets in record |
| (1A) | UNSIGNED | 2 | SMFH_RSVD1 | reserved |
| (1C) | UNSIGNED | 4 | SMFH_APS | offset to CICS product section |
| (20) | UNSIGNED | 2 | SMFH_LPS | length of CICS product section |
| (22) | UNSIGNED | 2 | SMFH_NPS | number of CICS product sections |
| (24) | UNSIGNED | 4 | SMFH_ASS | offset to CICS data section |
| (28) | UNSIGNED | 2 | SMFH_ASL | length of CICS data section |
| (2A) | UNSIGNED | 2 | SMFH_ASN | number of CICS data sections |
| (2C) | CHARACTER | 0 | * | |
| (2C) | CHARACTER | 114 | SMF_PRODUCT_SECTION | |
| (2C) | CHARACTER | 2 | SMFPS_VRM | record version format x'0vrm' v = version r = release m = modification (set to &SMF in DFHSYS) |
| (2E) | CHARACTER | 8 | SMFPS_PRN | product name (generic APPLID) |
| (36) | CHARACTER | 8 | SMFPS_SPN | specific APPLID |
| (3E) | CHARACTER | 2 | SMFPS_MFL | record maintenance indicator |
| (40) | CHARACTER | 2 | SMFPS_RSVD2 | reserved |
| (42) | CHARACTER | 52 | SMFPS_RSVD3 | reserved |
| (76) | CHARACTER | 8 | SMFPS_JNM | journal name |
| (7E) | CHARACTER | 8 | SMFPS_JBN | jobname |
| (86) | CHARACTER | 4 | SMFPS_RSD | job date |
| (8A) | CHARACTER | 4 | SMFPS_RST | job time |
| (8E) | CHARACTER | 8 | SMFPS_UIF | user identification |
| (96) | CHARACTER | 8 | SMFPS_PDN | operating system product level |
| (9E) | CHARACTER | 0 | * | |
| (9E) | CHARACTER | 0 | SMF_DATA_SECTION | CICS records |
| (9E) | CHARACTER | 0 | SMFDS_DATA | records follow |

Constants

Table 366.

| Len | Type | Value | Name | Description |
|-----|-----------|-------|---------------|---------------------------|
| 4 | CHARACTER | CICS | SMFH_SSI_CICS | sub-system identification |

Table 366. (continued)

| Len | Type | Value | Name | Description |
|-----|----------|-------|--------------------------|--------------------------|
| 1 | CHAR HEX | DE | SMFH_FLG_ESA4 | MVS/ESA V4 |
| 1 | CHAR HEX | 6E | SMFH_RTY_110 | record type 110 for CICS |
| 2 | DECIMAL | 0 | SMFH_STY_LG | for journaling |
| 2 | DECIMAL | 1 | SMFH_STY_MN | for monitoring |
| 2 | DECIMAL | 2 | SMFH_STY_ST | for statistics |
| 4 | DECIMAL | 2 | SMFH_NUMBER_TRIPLETS | |
| 4 | DECIMAL | 0 | SMFH_MFL_ID | |
| 2 | DECIMAL | 0 | SMFPS_MFL_0 | |
| 4 | DECIMAL | 44 | SMFH_PRD_SECT_OFFSET | |
| 4 | DECIMAL | 114 | SMFH_PRD_SECT_LENGTH | |
| 4 | DECIMAL | 1 | SMFH_PRD_SECT_NUMBER | |
| 4 | DECIMAL | 158 | SMFH_DATA_SECT_OFFSET | |
| 4 | DECIMAL | 0 | SMFH_DATA_SECT_LENGTH | |
| 4 | DECIMAL | 1 | SMFH_DATA_SECT_NUMBER | |
| 4 | DECIMAL | 32756 | SMF_MAX_BLOCK_LEN | |
| 4 | DECIMAL | 32598 | SMF_MAX_DATA_SECTION_LEN | |

LGRDS - Log Manager Journal Statistics

```

CONTROL BLOCK NAME = DFHLGRDS
NAME OF MATCHING PLX CONTROL BLOCK = DFHLGRPS
DESCRIPTIVE NAME = CICS TS Log Manager Journal Statistics
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1994, 1995
    CICS level at which this module was last updated
FUNCTION =
    This data area contains journal statistics provided by
    the Log Manager Domain.
    It is provided for use in users monitoring applications
    to map the statistics returned via the API or the statistics
    exit.
    There is a single instance of this data block.
LIFETIME =
    This data block is created by the Log Manager
    Domain to store statistics to be passed to the user in
    response to a request for statistics. The storage is
    released when the user task is detached.
    The DSECT also maps the contents of part of the SMF buffer
    created by the statistics domain and is used in the
    statistics exit.
STORAGE CLASS =
LOCATION =
    The user is passed a pointer to the head of the storage
    block.
INNER CONTROL BLOCKS = none
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Domain call buffer
    -----

```

EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from logger domain
 GLOBAL VARIABLES (Macro pass) = none

 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGRDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 367.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------|---------------------------------|
| (0) | STRUCTURE | 0 | DFHLGRDS | Log Mgr Resid stats record |
| (0) | HALFWORD | 2 | LGRLEN | Record length |
| (2) | ADDRESS | 2 | LGRID | Log Manager stats id |
| (4) | CHARACTER | 1 | LGRDVERS | Log Manager stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | LGRJNLNAME | Journal name |
| (10) | BITSTRING | 1 | LGRJTYPE | Journal type (MVS, SMF, Dummy) |
| (11) | CHARACTER | 1 | | Reserved |
| (12) | CHARACTER | 26 | LGRSTREAM | Log stream name |
| (2C) | FULLWORD | 4 | LGRWRITES | No of journal writes |
| (30) | BITSTRING | 8 | LGRBYTES | Total No of bytes written |
| (38) | FULLWORD | 4 | LGRBUFLSH | No of buffer flush requests |
| (3C) | CHARACTER | 8 | | Reserved |
| (3C) | .1.. .1.. | | LGREND | "*" |
| (3C) | .1.. .1.. | | LGRDSLEN | "*-LGRLEN" Record length |
| Constants that denote a LG stats record | | | | |
| (3C) | .1.1 11.1 | | LGRIDR | "93" Log Manager resid stats id |
| (3C) |1 | | LGRVERS | "X'01" Record version number |
| LGRJTYPE enumeration | | | | |
| (3C) |1 | | LGRJTYPEMVS | "1" MVS log stream |
| (3C) |1. | | LGRJTYPESMF | "2" SMF log |
| (3C) |11 | | LGRJTYPEDMY | "3" Dummy log |

LGSDS - Log Manager Logstream Statistics

CONTROL BLOCK NAME = DFHLGSDS
 NAME OF MATCHING PLX CONTROL BLOCK = DFHLGSPS
 DESCRIPTIVE NAME = CICS TS Log Manager Logstream Statistics
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1994, 2001

FUNCTION =

This data area contains logstream statistics provided by the Log Manager Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics

```

exit.
There is a single instance of this data block.
LIFETIME =
    This data block is created by the Log Manager
    Domain to store statistics to be passed to the user in
    response to a request for statistics. The storage is
    released when the user task is detached.
    The DSECT also maps the contents of part of the SMF buffer
    created by the statistics domain and is used in the
    statistics exit.
STORAGE CLASS =
LOCATION =
    The user is passed a pointer to the head of the storage
    block.
INNER CONTROL BLOCKS = none
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Domain call buffer
-----
EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = from logger domain
GLOBAL VARIABLES (Macro pass) = none
-----
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGSDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

```

Table 368.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 0 | DFHLGSDS | Log Mgr Resid stats record |
| (0) | HALFWORD | 2 | LGSLEN | Record length |
| (2) | ADDRESS | 2 | LGSID | Log Manager logstream stats id |
| (4) | CHARACTER | 1 | LGSDVERS | Log Manager stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 26 | LGSSTRNAM | Log stream name |
| (22) | CHARACTER | 2 | | Reserved |
| (24) | FULLWORD | 4 | LGSWRITES | No of log writes |
| (28) | BITSTRING | 8 | LGSBYTES | Total No of bytes written |
| (30) | FULLWORD | 4 | LGSCUFWTRS | Current number of force waiters |
| (34) | FULLWORD | 4 | LGSPKFWTRS | Peak number of force waiters |
| (38) | FULLWORD | 4 | LGSTFCWAIT | Total number of force waits |
| (3C) | FULLWORD | 4 | LGSBUFWAIT | No of waits due to buffer full |
| (40) | FULLWORD | 4 | LGSBRWSTRT | No of log browse starts |
| (44) | FULLWORD | 4 | LGSBRWREAD | No of log browse reads |
| (48) | FULLWORD | 4 | LGSDELETES | No of log deletes |
| (4C) | FULLWORD | 4 | LGSRTYERRS | No of retryable errors |
| (50) | FULLWORD | 4 | LGSBUFAPP | No of buffer append reqs |
| (54) | CHARACTER | 1 | LGSSYSLG | System log flag |

Table 368. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|-------------------------------------|
| (55) | CHARACTER | 1 | LGSDONLY | DASD only flag |
| (56) | CHARACTER | 2 | | Reserved |
| (58) | CHARACTER | 16 | LGSSTRUC | CF structure name |
| (68) | FULLWORD | 4 | LGSMAXBL | Max block length |
| (6C) | FULLWORD | 4 | LGSRETPD | Data retention period |
| (70) | CHARACTER | 1 | LGSAUTOD | Data auto delete flag |
| (71) | CHARACTER | 3 | | Reserved |
| (74) | FULLWORD | 4 | LGSQUERIES | No of log queries |
| (78) | CHARACTER | 4 | | Reserved |
| (78) | .111 11.. | | LGSEND | "*" |
| (78) | .111 11.. | | LGSDSLEN | "*-LGSDSLEN" Record length |
| Constants that denote a LG logstream stats record | | | | |
| (78) | .1.1 111. | | LGSIDR | "94" Log Manager resid stats id |
| (78) |1 | | LGSVERS | "X'01" Record version number |
| (78) |1 | | LGSSLYES | "X'01" System log flag - yes |
| (78) |1. | | LGSSLNO | "X'02" System log flag - no |
| (78) |1 | | LGSDOYES | "X'01" DASD only log stream - yes |
| (78) |1. | | LGSDONO | "X'02" DASD only log stream - no |
| (78) |1 | | LGSADYES | "X'01" Auto delete log stream - yes |
| (78) |1. | | LGSADNO | "X'02" Auto delete log stream - no |

APLI - Program Language Block

This copybook contains the declarations for the Program Language Block.

```

-----
CONTROL BLOCK Name = DFHLILBC
DESCRIPTIVE NAME = CICS TS Program Language Block
    This Copy Book describes the Program Language Block
Storage CLASS = CICS.
Notes :
    Dependencies = S/370
    Restrictions =
    Module Type = Control block definition
-----

```

Table 369.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---|
| (0) | STRUCTURE | 76 | PLB | |
| (0) | CHARACTER | 8 | PLB_PROGRAM_NAME | |
| (8) | FULLWORD | 4 | PLB_USE_COUNT | |
| (C) | CHARACTER | 1 | PLB_SUNDRY_FLAGS | |
| (C) | BIT(8) | 1 | * | |
| (C) | 1... | | PLB_DYING | |
| (C) | .1.. | | PLB_DATALOC_ANY | datalocation any applies |
| (C) | ..1. | | PLB_EXECKEY_CICS | execution key = cics |
| (C) | ...1 | | PLB_OPENAPI | API(OPENAPI) |
| (C) | 1... | | PLB_ENQ_LOCK | ENQ lock is active |
| (C) |1.. | | PLB_JVM | program runs under Java Virtual Machine |
| (C) |1. | | * | reserved |
| (C) |1 | | PLB_XPLINK | xplink program |
| (D) | CHARACTER | 1 | PLB_USERS_LANGUAGE | lang as defined by user |
| (E) | CHARACTER | 2 | PLB_PROGRAM_MODE | TCB mode for program |
| (10) | ADDRESS | 4 | PLB_LOAD_POINT | |
| (10) | ADDRESS | 4 | PLB_JVM_CLASS_PTR | address of class data for JVM programs |
| (14) | ADDRESS | 4 | PLB_ENTRY_POINT | |
| (18) | FULLWORD | 4 | PLB_PROGRAM_LENGTH | |
| (1C) | ADDRESS | 4 | PLB_LOCK_TOKEN | for automatic storage tuning |
| (20) | CHARACTER | 36 | PLB_PGMINFO2 | ERTLI program extension |
| (20) | FULLWORD | 4 | PLB_PRGINLEN | ERTLI extension length |
| (24) | CHARACTER | 4 | PLB_RWA31 | 31bit run-unit w/a length |
| (24) | BIT(8) | 1 | * | |
| (24) | 1... | | PLB_RWA31_ABOVE | ON=31-bit stg reqd (C/370) |
| (25) | UNSIGNED | 3 | PLB_RWA31_LEN | |
| (28) | FULLWORD | 4 | PLB_RWA24 | 24bit run-unit w/a length |
| (2C) | CHARACTER | 4 | PLB_LANGUAGE | language flags |
| (2C) | BIT(8) | 1 | PLB_LANG1 | |
| (2C) | 1... | | PLB_CEE_ENABLED | |
| (2C) | .1.. | | PLB_LANGUAGE_KNOWN | |
| (2C) | ..1. | | PLB_MIXED_LANGUAGE | |
| (2C) | ...1 | | PLB_COMPATIBILITY | |
| (2C) | 1... | | PLB_CEE_EXECUTABLE | |
| (2C) |1.. | | PLB_ASSEMBLER | |
| (2C) |1. | | PLB_C370 | |
| (2C) |1 | | PLB_COBOL2 | |

Table 369. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|--------------------|
| (2D) | BIT(8) | 1 | PLB_LANG2 | |
| (2D) | 1... | | PLB_OSCOBOL | |
| (2D) | .1.. | | PLB_PLI | |
| (2D) | ..11 1111 | | * | reserved |
| (2E) | BIT(8) | 1 | * | reserved |
| (2F) | BIT(8) | 1 | * | |
| (2F) | 1111 111. | | * | reserved |
| (2F) |1 | | PLB_UPDATE_PGMINFO2 | update tune info |
| (30) | FULLWORD | 4 | PLB_MEMID | language member id |
| (34) | ADDRESS | 4 | PLB_GLOBAL_OPTIONS | addr of CEECOPT |
| (38) | ADDRESS | 4 | PLB_USER_OPTIONS | addr of CEEUOPT |
| (3C) | ADDRESS | 4 | PLB_STG_TUNE_ADDR | stg tune area |
| (40) | ADDRESS | 4 | PLB_REAL_ENTRY_POINT | true entry point |
| (44) | CHARACTER | 8 | PLB_JVMSEVER | jvmserver name |

Table 370.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|-------------|
| (0) | STRUCTURE | 257 | PLB_JVM_CLASS | |
| (0) | HALFWORD | 2 | PLB_JVM_CLASS_LENGTH | |
| (2) | CHARACTER | 255 | PLB_JVM_CLASS_DATA | |

LLDC - TC local logical device code table

CONTROL BLOCK NAME = DFHLLDC
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS (TC) Local Logical Device Code Table
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1988
 FUNCTION =
 LOCAL LOGICAL DEVICE CODE
 AVAILABILITY LIST
 The Local Logical Device Code (LLDC) is an optional table that is
 used to override values specified in the System Logical Device Code
 (SLDC) table. The LLDC table is generated by the
 DFHTCT TYPE=TERMINAL or DFHTCT TYPE=LDCLIST macro instructions.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

Table 371.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 0 | DFHLLDC | |
| (0) | BITSTRING | 1 | LLDCFLGS | FLAGS |

Table 371. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | 1... | | LLDCEXT | "X'80" EXTENDED LOCAL LIST |
| (0) | CHARACTER | 2 | LLDCMN | LOGICAL DEVICE CODE MNEMONIC |
| (2) | BITSTRING | 1 | LLDCCD | LOGICAL DEVICE CODE |
| (2) |11 | | LLDCEND | "*1" END OF LOCAL LOGICAL DEVICE CODE ENTRY |
| (2) |11 | | LLDCLEN | "*-DFHLLDC" LENGTH OF LOCAL LDC ENTRY |

LUC - Parameter list

```

CONTROL BLOCK NAME = DFHLUCPS
DESCRIPTIVE NAME = CICS TS DFHLUC Parameter List
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1986, 1994
FUNCTION =
    Contains the request and response for modules called by
    the DFHLUC macro.
    When the DFHLUC macro is used to invoke a LU6.2 request
    appropriate fields in the parameter list are set, and
    module DFHZARL is invoked. All information passed to
    and from DFHZARL is passed in this parameter list.
    It is also used to pass information from DFHZARL to
    DFHZERH and DFHZARR for certain requests, and to DFHZXR3
    for LU6.2 transaction routing.
LIFETIME =
STORAGE CLASS =
LOCATION =
    The control block is located in the LIFO storage of the
    module which issues the DFHLUC macro; it may also
    be copied into the LIFO of the called module.
INNER CONTROL BLOCKS = None
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = None
    GLOBAL VARIABLES (Macro pass) = None
-----

```

Table 372.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--------------------------|
| (0) | STRUCTURE | 20 | DFHLUCDS | |
| The first part of the parameter list is common to all requests | | | | |
| (0) | CHARACTER | 1 | LUCOPN0 | MAJOR REQUEST BYTE |
| (1) | CHARACTER | 1 | LUCOPN1 | MINOR REQUEST BYTE 1 |
| (1) | CHARACTER | 0 | * | ALLOCATE / ALLOCATE PRIV |

Table 372. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (1) | 1... | | LUCNOQ | NOQUEUE specified |
| (1) | .1.. | | LUCASYSV | LUCASYS is valid |
| (1) | ..1. | | * | |
| (1) | ...1 | | * | |
| (1) | 1... | | LUCAPRFV | APROFILE specified |
| (1) |1.. | | LUCNPRFV | NPROFILE specified |
| (1) |1. | | * | |
| (1) |1 | | * | |
| (1) | CHARACTER | 0 | * | INITIAL CALL, SEND, SEND-FMH |
| (1) | 1... | | LUCFROM | Initial data provided or application data provided |
| (1) | .1.. | | LUCLISTV | LLID data specified |
| (1) | ..1. | | * | |
| (1) | ...1 | | * | |
| (1) | 1... | | * | |
| (1) |1.. | | * | |
| (1) |1. | | * | |
| (1) |1 | | * | |
| (1) | CHARACTER | 0 | * | ISSUE ABEND / ISSUE ERROR |
| (1) | 1... | | LUCABUSE | User invocation |
| (1) | .1.. | | * | |
| (1) | ..1. | | * | |
| (1) | ...1 | | * | |
| (1) | 1... | | * | |
| (1) |1.. | | * | |
| (1) |1. | | * | |
| (1) |1 | | * | |
| (1) | CHARACTER | 0 | * | ISSUE ATTACH request |
| (1) | 1... | | LUCNOCHK | TPN check not required |
| (1) | .1.. | | * | |
| (1) | ..1. | | * | |
| (1) | ...1 | | * | |
| (1) | 1... | | * | |
| (1) |1.. | | * | |
| (1) |1. | | * | |
| (1) |1 | | * | |

Table 372. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (1) | CHARACTER | 0 | * | RECEIVE / RECEIVE FMH request |
| (1) | 1... | | LUCSET | SET option specified |
| (1) | .1.. | | LUCBELOW | DATALOC option |
| (1) | ..1. | | LUCNOLA | Look Ahead option |
| (1) | ...1 | | * | |
| (1) | 1... | | * | |
| (1) |1.. | | * | |
| (1) |1. | | * | |
| (1) |1 | | * | |
| (1) | CHARACTER | 0 | * | SYNC-COMMITTED request |
| (1) | 1... | | LUCEXPF | Explicit FORGET specified |
| (1) | .1.. | | LUCIMPF | Implicit FORGET specified |
| (1) | ..1. | | * | |
| (1) | ...1 | | * | |
| (1) | 1... | | * | |
| (1) |1.. | | * | |
| (1) |1. | | * | |
| (1) |1 | | * | |
| (1) | CHARACTER | 0 | * | FREE request |
| (1) | 1... | | LUCFRIMP | IMPLICIT free |
| (1) | .1.. | | * | |
| (1) | ..1. | | * | |
| (1) | ...1 | | * | |
| (1) | 1... | | * | |
| (1) |1.. | | * | |
| (1) |1. | | * | |
| (1) |1 | | * | |
| (2) | CHARACTER | 1 | LUCOPN2 | MINOR REQUEST BYTE 2 |
| (2) | CHARACTER | 0 | * | ALLOCATE / ALLOCATE-PRIV |
| (2) | 1... | | LUCMODNV | LUCMODNM is valid |
| (2) | .1.. | | LUCATI | 'ATT' Allocate |
| (2) | ..1. | | LUCPRIV | ALLOCATE PRIV request |
| (2) | ...1 | | LUCNETV | NETNAME= specified |
| (2) | 1... | | LUCMNPRF | Modename set to use profile modename |
| (2) |1.. | | * | |
| (2) |1. | | * | |

Table 372. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (2) |1 | | * | |
| (2) | CHARACTER | 0 | * | ISSUE ERROR / ISSUE ABEND |
| (2) | 1... | | LUCAMSGV | LUCAMSG, LUCLMSG valid |
| (2) | .1.. | | LUCSENSV | LUCSENSE is valid |
| (2) | ..1. | | LUCMSGNV | LUCMSGNO is valid |
| (2) | ...1 | | * | |
| (2) | 1... | | LUCSEND | STATE=SEND was specified |
| (2) |1.. | | LUCSRECV | STATE=RECEIVE specified |
| (2) |1. | | * | |
| (2) |1 | | * | |
| (2) | CHARACTER | 0 | * | RECEIVE request |
| (2) | 1... | | LUCLLID | receive LLID |
| (2) | .1.. | | LUCBUFR | receive BUFFER |
| (2) | ..1. | | LUCIMMED | SUBTYPE=IMMEDIATE specified |
| (2) | ...1 | | * | |
| (2) | 1... | | * | |
| (2) |1.. | | * | |
| (2) |1. | | * | |
| (2) |1 | | * | |
| (2) | CHARACTER | 0 | * | SEND / SEND-FMH request |
| (2) | 1... | | LUCNVIT | INVITE option |
| (2) | .1.. | | LUCLAST | LAST option (also used for SYNC- PREPARE and SYNC-REQ-COMMIT |
| (2) | ..1. | | LUCCONF | CONFIRM option |
| (2) | ...1 | | LUCFLSH | WAIT (or FLUSH!) option |
| (2) | 1... | | * | |
| (2) |1.. | | * | |
| (2) |1. | | * | |
| (2) |1 | | * | |
| (3) | CHARACTER | 1 | LUCOPN3 | MINOR REQUEST BYTE 3 |
| (3) | CHARACTER | 0 | * | |
| (3) | 1... | | LUCSYSCL | System call |
| (3) | .1.. | | LUCNOSIG | Do not return SIGNAL (Rec) |
| (3) | ..1. | | LUCNOSF | Do not return sess fails |
| (3) | ...1 | | * | |
| (3) | 1... | | * | |

Table 372. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|------------|--|
| (3) | 1.. | | * | |
| (3) |1. | | * | |
| (3) |1 | | * | |
| (4) | CHARACTER | 6 | LUCRCODE | FEEDBACK FOR REQUEST RELATED ERRORS |
| (4) | CHARACTER | 1 | LUCRCOD1 | MAJOR ERROR BYTE |
| (5) | CHARACTER | 1 | LUCRCOD2 | MINOR ERROR BYTE |
| (6) | CHARACTER | 1 | LUCRCOD3 | MINOR ERROR BYTE |
| (7) | CHARACTER | 1 | LUCRCOD4 | Reserved |
| (8) | CHARACTER | 1 | LUCRCOD5 | Reserved |
| (9) | CHARACTER | 1 | LUCRCOD6 | Reserved |
| (A) | CHARACTER | 6 | LUCSDBLK | FEEDBACK FOR Conversation Related Errors |
| (A) | CHARACTER | 1 | LUCFDBK1 | STORAGE DEFINITION |
| (A) | 1... | | LUCCIDCM | 1 - DATA COMPLETE |
| (A) | .1.. | | LUCCISYN | 1 - SYNCPOINT REQ'D |
| (A) | ..1. | | LUCCIFRE | 1 - FREE REQUESTED |
| (A) | ...1 | | LUCCIREC | 1 - RECEIVE REQUIRED |
| (A) | 1.. | | LUCCISIG | 1 - SIGNAL RECEIVED |
| (A) |1. | | LUCCICON | 1 - CONFIRMATION REQ'D |
| (A) |1. | | LUCCIERR | 1 - ERROR RECEIVED |
| (A) |1 | | LUCCIRBK | 1 - ROLLBACK REQUESTED |
| (B) | CHARACTER | 1 | LUCFDBK2 | |
| (B) | 1... | | LUCCINEG | Negative response received |
| (B) | .1.. | | LUCCINSU | RECEIVE IMMEDIATE was unsuccessful |
| (B) | ..1. | | * | |
| (B) | ...1 | | * | |
| (B) | 1.. | | * | |
| (B) |1. | | * | |
| (B) |1. | | * | |
| (B) |1 | | * | |
| (C) | CHARACTER | 4 | LUCCDRCD | ERROR CODE RECEIVED |
| (10) | ADDRESS | 4 | LUCTTERQ | ADDRESS OF TCTTE FOR THE CURRENT REQUEST |
| The second part of the parameter list is used by some requests only, and in different ways by each request: | | | | |
| (14) | CHARACTER | 0 | LUCORG | ADDITIONAL PARAMETERS ARE OVERLAID ON LUCORG |

Overlay for ALLOCATE and ALLOCATE-PRIV requests

Table 373.

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------|-----------|-----|------------|----------------------------|
| (14) | STRUCTURE | 52 | * | |
| inputs | | | | |
| (14) | ADDRESS | 4 | LUCASYS | SYSID (TCTSE) ADDRESS |
| (18) | CHARACTER | 4 | LUCNSYS | SYSID (TCTSE) NAME |
| (1C) | CHARACTER | 8 | LUCMODNM | MODENAME |
| outputs | | | | |
| (24) | ADDRESS | 4 | LUCTTEAL | ADDRESS OF ALLOCATED TCTTE |
| further inputs | | | | |
| (28) | ADDRESS | 4 | LUCAPROF | Address of PROFILE |
| (2C) | CHARACTER | 8 | LUCNPROF | Name of PROFILE |
| (34) | FULLWORD | 4 | LUCNETNL | Netname length |
| (38) | CHARACTER | 8 | LUCNETNM | Netname |
| (40) | CHARACTER | 8 | LUCMGAL | Mode group allocated |

Overlay for EXTRACT PROCESS requests

Table 374.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (14) | STRUCTURE | 92 | * | |
| outputs | | | | |
| (14) | CHARACTER | 1 | LUCEPCON | CONVTYPE SPECIFIED IN LU6.2 ATTACH FMH RECEIVED |
| (15) | CHARACTER | 1 | LUCEPSYN | SYNLEVEL SPECIFIED IN LU6.2 ATTACH FMH RECEIVED |
| (16) | CHARACTER | 1 | LUCTTPNL | ACTUAL LENGTH OF TPN IN LU6.2 ATTACH FMH RECEIVED |
| (17) | CHARACTER | 64 | LUCTTPN | TPN IN LU6.2 ATTACH FMH RECEIVED |
| (57) | CHARACTER | 1 | * | alignment |
| (58) | ADDRESS | 4 | LUCPIPDA | address of PIP list |
| (5C) | HALFWORD | 2 | LUCPIPD | LENGTH OF PIPLIST |
| (5E) | CHARACTER | 8 | LUCMODEN | Mode name |
| (66) | HALFWORD | 2 | LUCLUNML | Length of fully qualified LU name |
| (68) | CHARACTER | 8 | LUCLUNAM | Qualified LU name |

Overlay for FREE STORAGE request

Table 375.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (14) | STRUCTURE | 4 | * | |
| inputs | | | | |
| (14) | ADDRESS | 4 | LUCASTG | ADDR STORAGE TO BE FREED |

Overlay for GET-MY-LUNAME request

Table 376.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (14) | STRUCTURE | 4 | * | |
| outputs | | | | |
| (14) | ADDRESS | 4 | LUCALUNM | ADDRESS OF QUALIFIED LUNAME - ONE BYTE LENGTH FOLLOWED BY QUALIFIED LUNAME |

Overlay for ISSUE-ABEND and ISSUE-ERROR requests

Table 377.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------|
| (14) | STRUCTURE | 12 | * | |
| inputs | | | | |
| (14) | ADDRESS | 4 | LUCAMSG | MESSAGE TEXT ADDRESS |
| (18) | HALFWORD | 2 | LUCCLMSG | MESSAGE TEXT LENGTH |
| (1A) | CHARACTER | 2 | LUCMSGNO | MESSAGE NUMBER |
| (1C) | CHARACTER | 4 | LUCSENSE | SENSE CODE |

Overlay for ISSUE-ATTACH request

Table 378.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (14) | STRUCTURE | 68 | * | |
| inputs | | | | |
| (14) | CHARACTER | 1 | LUCRQCON | CONVTYPE REQUIRED IN LU6.2 ATTACH FMH SENT |
| (15) | CHARACTER | 1 | LUCRQSYN | SYNCLEVEL REQUIRED IN LU6.2 ATTACH FMH SENT |
| (16) | CHARACTER | 1 | LUCFTPNL | LENGTH OF TPN FOR LU6.2 ATTACH FMH SENT |
| (17) | CHARACTER | 64 | LUCFTPN | TPN FOR LU6.2 ATTACH FMH SENT |
| (57) | CHARACTER | 1 | LUCPIP | PIP DATA TO BE SENT |
| (57) | 1... | | * | |
| (57) | .1.. | | * | |
| (57) | ..1. | | * | |
| (57) | ...1 | | * | |

Table 378. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------|
| (57) | 1... | | * | |
| (57) |1.. | | * | |
| (57) |1. | | * | |
| (57) |1 | | LUCPIPI | 1 - PIP DATA PRESENT |

Overlay for RECEIVE (R) and RECEIVE-FMH (RF) requests

Table 379.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (14) | STRUCTURE | 16 | * | |
| inputs | | | | |
| (14) | ADDRESS | 4 | LUCTAREA | INTO AREA ADDR (R, RF) |
| (18) | FULLWORD | 4 | LUCTAREL | MAX. APPL LENG (R, RF) |
| outputs | | | | |
| (1C) | ADDRESS | 4 | LUCBFPTR | SET DATA ADDR (R, RF) |
| (20) | FULLWORD | 4 | LUCTDATL | ACT. DATA LENG (R, RF) |

Overlay for SEND (S), SEND-FMH (SF) and INITIAL-CALL requests

Table 380.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------|
| (14) | STRUCTURE | 16 | * | |
| inputs | | | | |
| (14) | ADDRESS | 4 | LUCFDATA | DATA ADDRESS (S, SF) |
| (18) | FULLWORD | 4 | LUCFDATL | DATA LENGTH (S, SF) |
| (1C) | ADDRESS | 4 | LUCLISTA | LIST address (Send) |
| (20) | FULLWORD | 4 | LUCLISTS | LIST size |

Overlay for SYNC-PREPARE request

Table 381.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (14) | STRUCTURE | 1 | * | |
| outputs | | | | |
| (14) | CHARACTER | 1 | LUCSPRET | RESULT OF PREPARE |
| (14) | 1... | | LUCSPRQD | RQD2 received |
| (14) | .1.. | | LUCSPFGT | FORGET received |
| (14) | ..1. | | LUCSPHM | HM Received |
| (14) | ...1 | | LUCSPVUR | Vote unreliable received |
| (14) | 1... | | * | |
| (14) |1.. | | * | |
| (14) |1. | | * | |
| (14) |1 | | * | |

Overlay for SYNC-REQ-COMMIT request

Table 382.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (14) | STRUCTURE | 1 | * | |
| outputs | | | | |
| (14) | CHARACTER | 1 | LUCSRRET | RESULT OF REQUEST COMMIT |
| (14) | 1... | | LUCSRDR2 | DR2 received |
| (14) | .1.. | | LUCSRNVL | Invalid response received |
| (14) | ..1. | | LUCSRHM | HM received |
| (14) | ...1 | | * | |
| (14) | 1... | | * | |
| (14) |1.. | | * | |
| (14) |1. | | * | |
| (14) |1 | | * | |

Overlay for SYNC-COMMITTED request

Table 383.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (14) | STRUCTURE | 1 | * | |
| outputs | | | | |
| (14) | CHARACTER | 1 | LUCSCRET | RESULT OF COMMITTED |
| (14) | 1... | | LUCSCFGT | FORGET received |
| (14) | .1.. | | LUCSCNVL | Invalid response received |
| (14) | ..1. | | LUCSCHM | HM Received |
| (14) | ...1 | | * | |
| (14) | 1... | | * | |
| (14) |1.. | | * | |
| (14) |1. | | * | |
| (14) |1 | | * | |

Constants

Table 384.

| Len | Type | Value | Name | Description |
|---|------|-------|----------|-------------------------|
| <p>The following constants define the values of LUCOPN0, the Major Request byte, allocated as follows:</p> <p>X'01' - X'0F' - APPLICATION LEVEL CALLS TO DFHZARL</p> <p>X'10' - X'1F' - SYSTEM LEVEL CALLS TO DFHZARL</p> <p>X'20' - X'??' - FOR CALLS FROM DFHZARL</p> | | | | |
| 1 | HEX | 01 | LUCALLOC | ALLOCATE REQUEST |
| 1 | HEX | 02 | LUCTSIG | TEST-SIGNAL request |
| 1 | HEX | 03 | LUCXTP | EXTRACT PROCESS REQUEST |

Table 384. (continued)

| Len | Type | Value | Name | Description |
|---|------|-------|-----------|-------------------------|
| 1 | HEX | 05 | LUCFREE | FREE REQUEST |
| 1 | HEX | 06 | LUCIABN | ISSUE ABEND REQUEST |
| 1 | HEX | 07 | LUCIATT | ISSUE ATTACH REQUEST |
| 1 | HEX | 08 | LUCICON | ISSUE CONFIRMATION REQ |
| 1 | HEX | 09 | LUCIERR | ISSUE ERROR REQUEST |
| 1 | HEX | 0A | LUCISIG | ISSUE SIGNAL REQUEST |
| 1 | HEX | 0B | LUCRECV | RECEIVE REQUEST |
| 1 | HEX | 0C | LUCSEND | SEND REQUEST |
| 1 | HEX | 0D | LUCWAIT | WAIT REQUEST |
| 1 | HEX | 10 | LUCFRST | FREE STORAGE REQUEST |
| 1 | HEX | 11 | LUCICAL | INITIAL CALL REQUEST |
| 1 | HEX | 12 | LUCPRVAL | ALLOCATE-PRIV REQUEST |
| 1 | HEX | 13 | LUCPREP | SYNC PREPARE REQUEST |
| 1 | HEX | 14 | LUCRQCM | SYNC REQUEST COMMIT REQ |
| 1 | HEX | 15 | LUCCMTD | SYNC COMMITTED REQUEST |
| 1 | HEX | 16 | LUCFGET | SYNC FORGET REQUEST |
| 1 | HEX | 18 | LUCGLUN | Get LUNAME request |
| 1 | HEX | 19 | LUCRBCK | SYNC ROLLBACK REQUEST |
| 1 | HEX | 1A | LUCSFMH | SEND FMH request |
| 1 | HEX | 1B | LUCRFMH | RECEIVE-FMH REQUEST |
| 1 | HEX | 1C | LUCUNBDC | UNBIND-CLEANUP request |
| 1 | HEX | 1D | LUCISPRE | ISSUE-PREPARE request |
| 1 | HEX | 20 | LUCRERP | ERP FMH RECEIVED |
| 1 | HEX | 21 | LUCRNEG | NEG RESP RECEIVED |
| 1 | HEX | 22 | LUC LSDST | CLSDST call |
| 1 | HEX | 23 | LUCPRGSD | PURGE-SEND call |
| The following constants define the values of the Major Error byte LUCRCOD1: | | | | |
| 1 | HEX | 01 | LUCESYSI | SYSID error |
| The following values of LUCRCOD2 qualify this value of LUCRCOD1: '08'X SYSID is out of service This is further qualified by the following values of LUCRCOD3: '00'X Local queueing was not attempted '04'X Local queueing did not succeed '0C'X SYSID is not known in TCT This is further qualified by the following values of LUCRCOD3: '00'X SYSID name is not known '04'X SYSID name is not that of a TCTSE '08'X SYSID.MODENAME is not known '0C'X SYSID.PROFILE is not known | | | | |
| 1 | HEX | 02 | LUCESYSB | SYSBUSY error |
| 1 | HEX | 03 | LUCEINVR | INVREQ ERROR |

Table 384. (continued)

| Len | Type | Value | Name | Description |
|--|---------|-------|----------|----------------------------|
| The following values of LUCRCOD2 qualify this value of LUCRCOD1: '00'X Session is not defined as LU6.2 '04'X Conversation level is wrong '08'X State error '0C'X Synclevel cannot be supported '0D'X Negative receive length (LUCTAREL) '10'X LL count error '11'X LL is invalid '12'X LL is incomplete '14'X Invalid request '18'X TPN send check failed '24'X Invalid request to ISSUE PREPARE | | | | |
| Equates for LUCRCOD2 qualifiers documented above | | | | |
| 1 | HEX | 00 | LUCERC00 | |
| 1 | HEX | 01 | LUCERC01 | |
| 1 | HEX | 02 | LUCERC02 | |
| 1 | HEX | 03 | LUCERC03 | |
| 1 | HEX | 04 | LUCERC04 | |
| 1 | HEX | 05 | LUCERC05 | |
| 1 | HEX | 06 | LUCERC06 | |
| 1 | HEX | 08 | LUCERC08 | |
| 1 | HEX | 0C | LUCERC0C | |
| 1 | HEX | 0D | LUCERC0D | Negative receive length |
| 1 | HEX | 10 | LUCERC10 | |
| 1 | HEX | 14 | LUCERC14 | |
| 1 | HEX | 18 | LUCERC18 | |
| 1 | HEX | 1C | LUCERC1C | |
| 1 | HEX | 20 | LUCERC20 | |
| 1 | HEX | 24 | LUCERC24 | |
| 1 | HEX | 04 | LUCENTAL | NOTALLOC error |
| 1 | HEX | 05 | LUCELENG | LENGERR ERROR |
| 1 | HEX | 06 | LUCEPROF | PROFILE not found |
| 1 | HEX | 11 | LUCERLLE | Invalid LL |
| 1 | HEX | 12 | LUCERLLI | Incomplete LL |
| Constant values for LUCRQCON (also used for LUCEPCON) | | | | |
| 1 | HEX | 00 | LUCUNMP | CONVTYPE IS UNMAPPED (GDS) |
| 1 | HEX | 01 | LUCMAPD | CONVTYPE IS MAPPED (ELM) |
| Constant values for LUCRQSYN (also used for LUCEPSYN) | | | | |
| 1 | HEX | 00 | LUCSYNC0 | SYNCLEVEL 0 (NOSYNC) |
| 1 | HEX | 01 | LUCSYNC1 | SYNCLEVEL 1 (CONFIRM) |
| 1 | HEX | 02 | LUCSYNC2 | SYNCLEVEL 2 (SYNCPT) |
| Define the length of the control block | | | | |
| 4 | DECIMAL | 112 | LUCLSTG | |

LUM - Parameter list

```

CONTROL BLOCK NAME = DFHLUMPS
DESCRIPTIVE NAME = CICS TS DFHLUCM Parameter List
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1989, 1994
FUNCTION =
    Contains the request and response for modules called by
    the DFHLUCM macro.
    When the DFHLUCM macro is used to invoke a LU6.2 migration
    request, appropriate fields in the parameter list are set,
    and module DFHZARM is invoked.
LIFETIME =
STORAGE CLASS =
LOCATION =
    The control block is located in the LIFO storage of the
    module which issues the DFHLUCM macro.
INNER CONTROL BLOCKS = None
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = None
GLOBAL VARIABLES (Macro pass) =
-----

```

Table 385.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 16 | DFHLUMDS | |
| MAJOR AND MINOR REQUEST BYTES | | | | |
| (0) | BIT(8) | 1 | LUMOPN0 | MAJOR REQUEST BYTE |
| (1) | BIT(8) | 1 | LUMOPN1 | MINOR REQUEST BYTE 1 |
| (2) | BIT(8) | 1 | LUMOPN2 | MINOR REQUEST BYTE 2 |
| (3) | BIT(8) | 1 | LUMOPN3 | MINOR REQUEST BYTE 3 |
| OTHER DEFINITIONS | | | | |
| (4) | ADDRESS | 4 | LUMTTERQ | ADDRESS OF TCTTE FOR THE CURRENT REQUEST |
| (8) | CHARACTER | 4 | LUMCDRCD | ERROR CODE, IF ANY, THAT HAS OCCURRED |
| (C) | CHARACTER | 4 | LUMPARMS | OVERLAY FOR ADDITIONAL PARAMETERS WHERE NEEDED |
| (C) | CHARACTER | 2 | LUMGDSID | GDS ID THAT IS EITHER UNKNOWN OR UNSUPPORTED |
| (E) | CHARACTER | 2 | * | Reserved |

Constants

Table 386.

| Len | Type | Value | Name | Description |
|---|------|-------|---------|--------------------|
| The following constants define the values of byte LUMOPN0 | | | | |
| 1 | HEX | 01 | LUMSEND | SEND REQUEST |
| 1 | HEX | 02 | LUMWAIT | WAIT REQUEST |
| 1 | HEX | 03 | LUMRECV | RECEIVE REQUEST |
| 1 | HEX | 04 | LUMSIGN | SIGNAL REQUEST |
| 1 | HEX | 06 | LUMFREE | FREE REQUEST |
| 1 | HEX | 07 | LUMBDID | INVALID ID REQUEST |
| 1 | HEX | 08 | LUMRSET | RESET REQUEST |

LUSDS - ZCP LU sevices manager parameter

```

CONTROL BLOCK NAME = DFHLUSPS
DESCRIPTIVE NAME = CICS TS (ZCP) LU services manager parameter
                    list.
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1989, 1993
FUNCTION =
    This control block is used to pass parameter information
    to the LU services manager.
    Note that the PLX version of this control block differs
    somewhat from the assembler version:
    1. The assembler version is prefixed by two halfwords
       which are used by DFHIC GET/PUT. Users of the PLX
       version are expected to manage define that extra
       storage themselves. This apparent snag is balanced by
       the fact that the PLX version is more useful for
       command level usage, where the length is logically
       separated from the data
    2. The assembler version does not define the DCE signoff
       structure, since no assembler code uses it
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS =
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES =
    DATA AREAS =
    CONTROL BLOCKS =
    GLOBAL VARIABLES (Macro pass) =
-----

```

Table 387.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-------------|
| (0) | STRUCTURE | * | DFHLUSPS | |
| (0) | CHARACTER | 20 | LUS_PV_PARM_LIST | 2 |
| (0) | BIT(8) | 1 | LUSTYPE | CALL TYPE |
| (1) | BIT(8) | 1 | * | Reserved |

Table 387. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|---------------------|
| (2) | HALFWORD | 2 | LUSUSERL | USERID II(SIGNOFF) |
| (4) | CHARACTER | 4 | LUSNSYS | SYSID NAME |
| (8) | CHARACTER | 8 | LUSUSER | USERID (SIGNOFF) |
| (10) | ADDRESS | 4 | LUSURDA | A(URD) |
| (0) | CHARACTER | * | LUS_DCE_PARM_LIST | |
| (0) | CHARACTER | 4 | LUS_IDENTIFIER | identifies the data |
| (4) | UNSIGNED | 1 | LUS_ITEM_COUNT | number of UUIDs |
| (5) | CHARACTER | 54 | UUID_ENTRIES (*) | |
| (5) | UNSIGNED | 1 | LUS_TABLE_FLAG | LOFT or LOTT table |
| (6) | CHARACTER | 4 | LUS_CONNECTION | connection id |
| (A) | CHARACTER | 16 | LUS_CURRENT_UUID | Current uuid |
| (1A) | CHARACTER | 32 | LUS_PARTNER_UUIDS | Partners uuids |
| (3A) | UNSIGNED | 1 | LUS_MECHANISM_ID | mechanism |

Constants

Table 388.

| Len | Type | Value | Name | Description |
|--|-----------|-------|--------------------|-------------|
| The following constants define the values of byte LUSTYPE | | | | |
| 1 | HEX | 05 | LUSRSYNC | RESYNC |
| 1 | HEX | 06 | LUSOFF | SIGNOFF |
| 1 | HEX | 07 | LUSTOUT | TIMEOUT |
| The following constant defines the values of LUS_IDENTIFIER | | | | |
| 4 | CHARACTER | *DCE | LUS_DCE | |
| The following constants define the values of LUS_TABLE_FLAG | | | | |
| 1 | HEX | 01 | LUS_SIGNED_ON_TO | |
| 1 | HEX | 02 | LUS_SIGNED_ON_FROM | |
| The following constant defines the values of LUS_MECHANISM_ID0 | | | | |
| 1 | HEX | 01 | LUS_DCE_TICKET | |

MAP - BMS map object DSECT

DESCRIPTIVE NAME = CICS/ESA BMS MAP OBJECT DSECT
DUAL LANGUAGE DSECT

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5655-Y04

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FUNCTION = DUAL LANGUAGE DSECT FOR THE BMS MAP OBJECT. CONTAINS SEPARATE SECTIONS FOR THE MAPSET HEADER, THE TAB MAP, THE MAP HEADER, THE MAPNAME ALIAS EXTENSION AREA, AND THE FIELD SPECIFICATION.

THE MAP OBJECT IS BUILT BY THE MAP DEFINITION MACROS ON ASSEMBLING A MAP SPECIFYING SYSPARM=MAP. IT IS STORED IN THE PROGRAM LIBRARY WITH A PPT ENTRY. IT IS

LOADED INTO MAIN MEMORY BY DFHMCP.
THE MAP OBJECT IS REFERENCED BY BMS MODULES.

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = NONE
MODULE TYPE = Control Block
EXTERNAL REFERENCES = NONE
MACROS = NONE

Table 389.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 12 | DFHMAPDS | DUMMY SECTION - MAP DESCRIPTION |
| MAP SET SPECIFICATIONS | | | | |
| (0) | CHARACTER | 8 | BMSNAME | MAP SET NAME |
| (8) | UNSIGNED | 1 | BMSTRL | PAGE OVERFLOW TRAILER LENGTH |
| (9) | CHARACTER | 1 | * | RESERVED |
| (A) | CHARACTER | 2 | BMSDELDLM | DEFAULT LDC MNEMONIC |
| (C) | CHARACTER | 0 | BMSMSHEA | MAP SET HEADER ENDING ADDRESS |

TAB FORMAT MAP SPECIFICATIONS

Table 390.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 18 | BMSTABM | |
| FIELDS ARE SEQUENCE SENSITIVE WITH NORMAL MAP | | | | |
| (0) | CHARACTER | 1 | BMSMTI | MAP TYPE INDICATOR |
| (1) | CHARACTER | 3 | * | RESERVED |
| (4) | BIT(8) | 1 | BMSTFMI | TAB MAP INDICATOR |
| (4) | 1... | | * | |
| (4) | .1.. | | BMSTFMV | VERTICAL TAB MAP |
| (4) | ..1. | | BMSTFMH | HORIZONTAL TAB MAP |
| (5) | CHARACTER | 3 | * | RESERVED |
| (8) | CHARACTER | 8 | BMSTFN | TAB MAP NAME |
| (10) | HALFWORD | 2 | BMSTFL | TAB MAP LENGTH |
| (12) | CHARACTER | 0 | BMSTFEA | ENDING ADDRESS |

MAP SPECIFICATIONS

Table 391.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (0) | STRUCTURE | 79 | BMSMAPH | |
| FIELDS ARE SEQUENCE SENSITIVE WITH TAB FORMAT MAP | | | | |
| (0) | HALFWORD | 2 | BMSMHLL | MAP HEADER LENGTH 0 FOR PRE1.7 MAPS X'8100' FOR TAB MAPS |
| (0) | CHARACTER | 1 | BMSMT | MAP TYPE CODE |

Table 391. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (1) | CHARACTER | 1 | * | RESERVED |
| (2) | CHARACTER | 2 | BMSIPR | NAME OF INPUT PARTITION |
| (4) | ADDRESS | 4 | BMSMDA | MAP DATA ADDRESS |
| (4) | CHARACTER | 2 | BMSOPR | NAME OF OUTPUT PARTITION |
| (6) | CHARACTER | 2 | BMSAPR | NAME OF ACTIVE PARTITION |
| (8) | CHARACTER | 8 | BMSMNAME | MAP NAME |
| (10) | HALFWORD | 2 | BMSMS | MAP LENGTH, INCLUDING ANY MAP HEADER EXTENSION AREA |
| (12) | HALFWORD | 2 | BMSMSSL | IF BMSMODE(BMSMHEXT) IS SET ON THEN THIS IS THE OFFSET OF THE MAP HEADER EXTENSION AREA FROM THE START OF THE MAP HEADER. ON ENTRY TO DFHML1 IT HOLDS (NUMBER OF FIELDS)*10 AND DFHML1 USES THIS FIGURE OTHERWISE IT IS IGNORED |
| (14) | HALFWORD | 2 | BMSMSI | INPUT WORK AREA LENGTH |
| (16) | HALFWORD | 2 | BMSMSO | OUTPUT WORK AREA LENGTH |
| (18) | CHARACTER | 1 | BMSMODE | MAP DESCRIPTOR FLAG BYTE |
| (18) | 1... | | BMSMODO | MODE = OUT |
| (18) | .1.. | | BMSMODI | MODE = IN |
| (18) | ..1. | | BMSMHEXT | THIS MAP OR MAP COPY HAS A MAP HEADER EXTENSION AREA |
| (18) | ...1 | | * | |
| (18) | 1.. | | BMSMODOF | THIS MAP ELIGIBLE FOR OUTBOARD FORMATING, IF ON AT ASSEMBLY TIME. IF ON IN M32 - MAP IS USED FOR OUTBOARD FORMAT |
| (18) |1.. | | BMSMODOR | THIS MAP (COPY) WHICH IS USED WITH AN OUTBOARD FORMAT HAS BEEN RELOCATED BY PBP. SET BY PBP, TESTED BY M32 |

Table 391. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (18) |1. | | BMSMODTC | THIS MAP (COPY) ALSO CONTAINS A TIOA COPY |
| (18) |1 | | BMSDATB | DATA = BLOCK |
| (19) | CHARACTER | 1 | BMSWCC | 3270 WRITE CONTROL CHARACTER |
| (1A) | HALFWORD | 2 | BMSCCURSR | 3270 CURSOR POSITION |
| (1C) | CHARACTER | 1 | BMSMARG | MAP MARGIN |
| (1C) | 1... | | * | |
| (1C) | .1.. | | * | |
| (1C) | ..1. | | * | |
| (1C) | ...1 | | * | |
| (1C) | 1... | | BMSMARBG | JUSTIFY = BOTTOM |
| (1C) |1.. | | BMSMARGR | JUSTIFY = RIGHT |
| (1C) |1. | | BMSMARGL | JUSTIFY = LAST |
| (1C) |1 | | BMSMARGF | JUSTIFY = FIRST |
| (1D) | UNSIGNED | 1 | BMSML | MAP LENGTH - NUMBER OF LINES |
| (1E) | UNSIGNED | 1 | BMSMW | MAP WIDTH - NUMBER OF COLUMNS |
| (1F) | UNSIGNED | 1 | BMSMSL | MAP STARTING LINE NUMBER |
| (20) | UNSIGNED | 1 | BMSMSC | MAP STARTING COLUMN NUMBER |
| (21) | CHARACTER | 1 | BMSMI | MAP INDICATORS |
| (21) | 1... | | BMSMIXM | EXTENDED ATTRS IN MAP |
| (21) | .1.. | | BMSMIXD | EXTENDED ATTRS IN APPLICATION STRUCTURE |
| (21) | ..1. | | BMSMIAL | 1 = ALIGNED MAP, 0 =UNALIGNED MAP |
| (21) | ...1 | | BMSMI16 | MAP ASSEMBLED AT CICS/VS 1.6 OR LATER |
| (21) | 1... | | BMSMICL | CURSOR IN FIELD IND REQD * |
| (21) |1.. | | BMSMIH | HEADER MAP |
| (21) |1. | | BMSMIT | TRAILER MAP |
| (21) |1 | | BMSMIS | FIELDS ARE NOT IN SEQUENCE |
| (22) | CHARACTER | 1 | BMSMSTR2 | TYPE REQUEST BYTE TWO FROM TCA |
| (23) | CHARACTER | 1 | BMSMSTR3 | TYPE REQUEST BYTE THREE FROM TCA |
| (23) | 1... | | * | |

Table 391. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (23) | .1.. | | * | |
| (23) | ..1. | | BMSMSHON | HONEOM REQD ON O/P MAPPING * (EXEC I/F ONLY) |
| (23) | ...1 | | * | |
| (23) | 1... | | BMSMSTC | CURSOR = NUMBER |
| (23) |1.. | | BMSMSTCW | CTRL = ANY 3270 WCC |
| (24) | CHARACTER | 1 | BMSMSTR4 | TYPE REQUEST BYTE FOUR FROM TCA |
| (24) | 1... | | * | |
| (24) | .1.. | | BMSMSTDN | DATA = NO |
| (24) | ..1. | | BMSMSTRS | TYPE = SAVE |
| (24) | ...1 | | * | |
| (24) | 1... | | * | |
| (24) |1.. | | BMSMSTRM | TYPE = MAP |
| (24) |1. | | BMSMSTRE | TYPE = ERASE |
| (24) |1 | | BMSMSTRI | TYPE = IN |
| (25) | CHARACTER | 1 | BMSMSTR5 | TYPE REQUEST BYTE FIVE FROM TCA |
| (25) | 1... | | BMSMSTRB | TYPE = PAGEBLD |
| (25) | .1.. | | * | |
| (25) | ..1. | | * | |
| (25) | ...1 | | * | |
| (25) | 1... | | * | |
| (25) |1.. | | BMSMSTRO | TYPE = OUT |
| (26) | HALFWORD | 2 | BMSMSCP | CURSOR POSITION FROM TCA |
| (26) | HALFWORD | 2 | BMSDESCO | offset of ADS descriptor in loaded mapset, if present |
| (28) | CHARACTER | 1 | BMSMSWCC | WRITE CONTROL CHARACTERS FROM TCA |
| (29) | UNSIGNED | 1 | BMSATNO | FOR EXTENDED FORMAT MAPS, THE NUMBER OF BYTES IN BMSMATTs AND BMSDATTs =12 FOR RELEASE 1.7 |
| (29) | CHARACTER | 1 | BMSMI2 | MAP INDICATOR EXTENSION |
| (29) | 1... | | BMSMI2RM | KANJI EXTENDED ATTRS IN MAP * |
| (29) | .1.. | | BMSMI2RD | KANJI EXTENDED ATTRS IN APPLICATION STRUCTURE |

Table 391. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (2A) | CHARACTER | 0 | BMSMSEA | MAP SPECIFICATION ENDING ADDRESS FOR PRE1.7 MAPS |
| EXTENDED FORMAT MAPS FOLLOWING FIELDS ARE ADDED FOR CICS R1.7 MAPS ASSEMBLED IN R170 AND AFTER WILL CONTAINS THESE FIELDS IN THE MAP HEADER | | | | |
| (2A) | ADDRESS | 4 | BMSMCA | MAP CHAIN ADDRESS |
| (2E) | HALFWORD | 2 | BMSMAL | LENGTH OF ATTRIBUTES IN FIELD IN MAP |
| (30) | HALFWORD | 2 | BMSDAL | LENGTH OF ATTRIBUTES IN FIELD IN DATA STRUCTURE * |
| (32) | CHARACTER | 12 | BMSMATTs | MASK FOR ATTRIBUTES IN MAP FIELD: 00 - ATTR NOT IN FIELD NN - INDEX OF ATTR IN FLD * |
| (3E) | CHARACTER | 12 | BMSDATTS | MASK FOR ATTRIBUTES IN DATA STRUCTURE FIELD 00 - ATTR NOT IN FIELD NN - INDEX OF ATTR IN FLD * |
| (4A) | UNSIGNED | 1 | BMSFLDSL | LENGTH OF FIELD SEPARATOR 0 IF NOT SPECIFIED |
| (4B) | CHARACTER | 4 | BMSFLDSP | FIELD SEPARATOR UP TO FOUR CHARACTERS |
| (4F) | CHARACTER | 0 | BMSXMSEA | MAP SPECIFICATION ENDING ADDRESS FOR EXTENDED FORMAT MAPS |

FIELD SPECIFICATIONS

Table 392.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-------------------------------|
| (0) | STRUCTURE | 12 | BMSFLD | |
| (0) | CHARACTER | 8 | BMSFSL | FIELD SPEC NO EXTATT |
| (0) | HALFWORD | 2 | BMSFPP | FIELD PAGE POSITION |
| (0) | UNSIGNED | 1 | BMSFPP_BYTE1 | FIELD PAGE BYTE1 |
| (1) | UNSIGNED | 1 | BMSFPP_BYTE2 | FIELD PAGE BYTE2 |
| (2) | HALFWORD | 2 | BMSFSL | FIELD LENGTH |
| (4) | CHARACTER | 1 | BMSFDFB | FIELD DESCRIPTOR FLAG BYTE |
| (4) | 1... | | BMSFDCM | CASE = MIXED |
| (4) | .1.. | | BMSFDGFE | GROUP FIELD ENTRY |
| (4) | ..1. | | BMSFDGFD | GROUP FIELD DESCRIPTOR |

Table 392. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (4) | ...1 | | BMSFDPDA | ATTRB = DET |
| (4) | 1... | | BMSFDJZ | JUSTIFY = ZERO |
| (4) |1.. | | BMSFDJR | JUSTIFY = RIGHT |
| (4) |1. | | BMSFDDD | INITIAL = ANY USER INFORMATION |
| (4) |1 | | BMSFDNF | DSECT ENTRY EXISTS |
| (5) | CHARACTER | 1 | BMSFA | FIELD ATTRIBUTE |
| (6) | HALFWORD | 2 | BMSFP | FIELD POSITION |
| (8) | CHARACTER | 0 | BMSFEA | FIELD ENDING ADDRESS |
| (8) | CHARACTER | 4 | BMSXATTR | EXTENDED ATTRIBUTES |
| (8) | CHARACTER | 1 | BMSFXC | FIELD COLOR ATTRIBUTE |
| (9) | CHARACTER | 1 | BMSFXP | FIELD PSS ATTRIBUTE |
| (A) | CHARACTER | 1 | BMSFXH | FIELD HIGHLIGHT ATTRIBUTE |
| (B) | CHARACTER | 1 | BMSFXV | FIELD VALIDATION ATTRIBUTE |
| (C) | CHARACTER | 0 | BMSFEAL | FIELD END ADDRESS IF EXTENDED ATTRIBUTES INCLUDED |

ALIAS EXTENSION AREA

THIS IS THE FIRST USE OF A MAP HEADER EXTENSION AREA. THIS FOLLOWS THE LAST FIELD IN A MAP, AND IS POINTED TO BY BMSMSS. THE FLAG BMSMODE(BMSMHEXT) IS SET ON IF THIS AREA IS PRESENT. THIS AREA CONTAINS A NUMBER OF EXTENSION RECORDS, EACH HEADED BY ONE BYTE LENGTH AND TYPE FIELDS. IT IS THUS EXTENDABLE. NOTE HOWEVER THAT THE CICS/VS 1.5 OBF CODE DOES NOT TEST THE EXTENSION RECORD TYPE AND LENGTH. ANY FURTHER USE OF THIS MAY REQUIRE REWORK OF THE OBF SUPPORT IN PBP AND M32. THE MAP ALIAS EXTENSION RECORD IS USED FOR PASSING THE NAMES OF OUTBOARD MAP-GROUP AND OUTBOARD FORMAT TO M32.

Table 393.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 19 | BMSALIAS | |
| (0) | UNSIGNED | 1 | BMSALLNG | LENGTH OF ALIAS EXTENSION |
| (1) | CHARACTER | 1 | BMSALTYP | TYPE CODE FOR ALIAS EXTENSION |
| (1) | 1... | | * | |
| (1) | .1.. | | * | |
| (1) | ..1. | | * | |
| (1) | ...1 | | * | |
| (1) | 1... | | * | |
| (1) |1.. | | * | |
| (1) |1. | | * | |

Table 393. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (1) |1 | | BMSALTEQ | ALIAS EXTENSION TYPE CODE |
| (2) | CHARACTER | 8 | BMSOGNME | OUTBOARD MAP-GROUP NAME |
| (A) | CHARACTER | 8 | BMSOFNME | OUTBOARD FORMAT NAME |
| (12) | CHARACTER | 1 | BMSOFFLG | FLAG BYTE |
| (12) | 1... | | * | |
| (12) | .1.. | | * | |
| (12) | ..1. | | * | |
| (12) | ...1 | | * | |
| (12) | 1... | | * | |
| (12) |1.. | | * | |
| (12) |1. | | * | |
| (12) |1 | | BMSOFMGS | MAP-GROUP NAME SUFFIXED |
| (13) | CHARACTER | 0 | BMSALEND | END OF ALIAS EXTENSION AREA |

Constants

Table 394.

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|--------------------|
| 1 | HEX | 81 | BMSMTF | INDICATING TAB MAP |
| 1 | HEX | C0 | BMSMODIO | MODE = INOUT |
| 1 | HEX | FF | BMSMSLN | LINE = NEXT |
| 1 | HEX | FE | BMSMSLS | LINE = SAME |
| 1 | HEX | FF | BMSMSCN | COLUMN = NEXT |
| 1 | HEX | FE | BMSMSCS | COLUMN = SAME |
| 1 | HEX | C0 | BMSMSTDY | DATA = YES |

MBCA - Transient data buffer control

DESCRIPTIVE NAME = Transient Data Buffer Control

CICS/ESA AP Domain

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5655-Y04

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FUNCTION =

Copybook DFHMBCPS provides structures, DFHMBCA and DFHMBCB and DFHMQCB.

DFHMBCA describes the Buffer Common Area (MBCA), only one MBCA is allocated.

DFHMBCB describes the Buffer Control Block (MBCB), one MBCB is allocated for each I/O buffer.

DFHMQCB describes the Queue Control Block (MQCB), one MQCB is allocated for each I/O buffer. MQCBs

are used to optimize the search for I/O buffers containing records for a given queue.

LIFETIME =
The lifetime of the control blocks and I/O buffers is essentially that of CICS.

STORAGE CLASS =
The control blocks are located in storage allocated from the DFHTDG31 subpool.
The I/O buffers, if required, are located in storage allocated from the DFHTDIOB subpool.
Note that the number of I/O buffers is defined as a SIT parameter / override.
Note also that the number of I/O buffers allocated may exceed the number requests where this does not cause further pages to be allocated.

LOCATION =
The MBCA is located from the TDST.
MBCBs are located on one of three bi-directional chains whose anchors are located in the MBCA

1. unallocated, I/O buffer is (logically) empty
2. unallocated, I/O buffer contains valid data
3. allocated, I/O buffer is (logically) modified

MQCBs are located on one of many bi-directional chains

1. anchor located in the MBCA when the associated MBCB is on chain 1
2. anchor located in the relevant DCTE when the associated MBCB is on chain 2 or chain 3.

Each MQCB may be located from its associated MBCB and vice versa.

INNER CONTROL BLOCKS =
There are no inner control blocks.

NOTES :
DEPENDENCIES =
S/370
RESTRICTIONS =
There are no restrictions.
MODULE TYPE =
Control block definition.
MULTIPLE BUFFERS - BUFFER COMMON AREA (MBCA)

Table 395.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-------------------|
| (0) | STRUCTURE | 112 | DFHMBCA | |
| (0) | CHARACTER | 16 | MBCA_PREFIX | prefix |
| (0) | HALFWORD | 2 | MBCA_LENGTH | - length |
| (2) | CHARACTER | 1 | MBCA_ARROW | - value - '>' |
| (3) | CHARACTER | 3 | MBCA_DFH | - value - 'DFH' |
| (6) | CHARACTER | 2 | MBCA_DOMID | - value - 'TD' |
| (8) | CHARACTER | 8 | MBCA_BLOCK | - value - 'MBCA ' |
| (10) | CHARACTER | 4 | * | MBCA STATUS |
| (10) | CHARACTER | 1 | MBCAFLG0 | - I/O BUFFERS |
| (10) | 1... | | MBCABFAL | - ALLOCATED |
| (10) | .1.. | | MBCABFRQ | - REQUIRED |
| (10) | ..11 1111 | | * | - Reserved |
| (11) | CHARACTER | 1 | MBCAFLG1 | - Reserved |
| (11) | BIT(8) | 1 | * | - Reserved |

Table 395. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---------------------------|
| (12) | CHARACTER | 1 | MBCAFLG2 | - Reserved |
| (12) | BIT(8) | 1 | * | - Reserved |
| (13) | CHARACTER | 1 | MBCAFLG3 | - Reserved |
| (13) | BIT(8) | 1 | * | - Reserved |
| (14) | CHARACTER | 12 | * | I/O BUFFERS |
| (14) | FULLWORD | 4 | MBCANBFR | - #(BUFFERS REQUESTED) |
| (18) | FULLWORD | 4 | MBCANBFA | - #(BUFFERS ALLOCATED) |
| (1C) | FULLWORD | 4 | MBCABFSZ | - L(EACH BUFFER) |
| (20) | CHARACTER | 32 | * | MBCB CHAIN ANCHORS |
| (20) | CHARACTER | 8 | MBCACHN1 | - UNALLOC/EMPTY CHAIN |
| (20) | ADDRESS | 4 | MBCAFCN1 | - A(FIRST MBCB) |
| (24) | ADDRESS | 4 | MBCABCN1 | - A(LAST MBCB) |
| (28) | CHARACTER | 8 | MBCACHN2 | - UNALLOC/VALID CHAIN |
| (28) | ADDRESS | 4 | MBCAFCN2 | - A(FIRST MBCB) |
| (2C) | ADDRESS | 4 | MBCABCN2 | - A(LAST MBCB) |
| (30) | CHARACTER | 8 | MBCACHN3 | - ALLOCATED CHAIN |
| (30) | ADDRESS | 4 | MBCAFCN3 | - A(FIRST MBCB) |
| (34) | ADDRESS | 4 | MBCABCN3 | - A(LAST MBCB) |
| (38) | CHARACTER | 8 | MBCACHNS | - STATIC CHAIN |
| (38) | ADDRESS | 4 | MBCAFCNS | - A(FIRST MBCB) |
| (3C) | ADDRESS | 4 | * | - Reserved |
| (40) | CHARACTER | 8 | * | MQCB CHAIN ANCHORS |
| (40) | CHARACTER | 8 | MBCACHNQ | - QUEUE INDEPENDENT CHAIN |
| (40) | ADDRESS | 4 | MBCAFCNQ | - A(FIRST MQCB) |
| (44) | ADDRESS | 4 | MBCABCNQ | - A(LAST MQCB) |
| (48) | CHARACTER | 8 | MBCA_SRC | MBCB allocation chain |
| (48) | ADDRESS | 4 | MBCA_TCA_P | - A(owning TCA) or 0 |
| (4C) | ADDRESS | 4 | MBCA_MWCB_P | - A(first MWCB) or 0 |
| (50) | CHARACTER | 32 | * | MBCB STATISTICS |
| (50) | CHARACTER | 12 | * | - ALLOCATION REQUESTS |
| (50) | FULLWORD | 4 | MBCATNAL | - TOTAL |
| (54) | FULLWORD | 4 | MBCACNAL | - CURRENT CONCURRENT |
| (58) | FULLWORD | 4 | MBCAMXAL | - MAXIMUM CONCURRENT |
| (5C) | CHARACTER | 12 | * | - QUEUED REQUESTS |
| (5C) | FULLWORD | 4 | MBCATNWT | - TOTAL |
| (60) | FULLWORD | 4 | MBCACNWT | - CURRENT CONCURRENT |

Table 395. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (64) | FULLWORD | 4 | MBCAMXWT | - MAXIMUM CONCURRENT |
| (68) | CHARACTER | 8 | * | - # CONTAINING VALID DATA |
| (68) | FULLWORD | 4 | MBCACNIU | - CURRENT |
| (6C) | FULLWORD | 4 | MBCAMXIU | - MAXIMUM |
| (70) | CHARACTER | 0 | * | |

MULTIPLE BUFFERS - BUFFER CONTROL BLOCK (MBCB)

Table 396.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-------------------------|
| (0) | STRUCTURE | 56 | DFHMBCB | |
| (0) | CHARACTER | 12 | * | MBCB CHAINS |
| (0) | CHARACTER | 8 | * | - STATUS SPECIFIC CHAIN |
| (0) | ADDRESS | 4 | MBCBFCHN | - A(NEXT MBCB) |
| (4) | ADDRESS | 4 | MBCBBCHN | - A(PREVIOUS MBCB) |
| (8) | CHARACTER | 4 | * | - STATIC CHAIN |
| (8) | ADDRESS | 4 | MBCBSCHN | - A(NEXT MBCB) OR 0 |
| (C) | CHARACTER | 4 | * | I/O BUFFER STATUS |
| (C) | CHARACTER | 1 | MBCBFLG0 | - ALLOCATION |
| (C) | 1... | | MBCBLCKD | - PREEMPTED |
| (C) | .111 1111 | | * | - Reserved |
| (D) | CHARACTER | 1 | MBCBFLG1 | - CONTENTS |
| (D) | 1... | | MBCBVALD | - VALID |
| (D) | .111 1111 | | * | - Reserved |
| (E) | CHARACTER | 1 | MBCBFLG2 | - ACTIONS |
| (E) | 1... | | MBCBPTRQ | - WRITE |
| (E) | .1.. | | MBCBGTRQ | - READ |
| (E) | ..11 1111 | | * | - Reserved |
| (F) | CHARACTER | 1 | MBCBFLG3 | - Reserved |
| (F) | BIT(8) | 1 | * | - Reserved |
| (10) | CHARACTER | 24 | * | I/O BUFFER PARAMETERS |
| (10) | CHARACTER | 12 | * | - LOCATION, DEFINED BY |
| (10) | ADDRESS | 4 | MBCBABFR | - A(I/O BUFFER) |
| (14) | FULLWORD | 4 | MBCBLBFR | - L(I/O BUFFER) |
| (18) | ADDRESS | 4 | MBCBACDF | - A(CIDF) |
| (1C) | CHARACTER | 8 | * | - CONTENTS, DEFINED BY |
| (1C) | FULLWORD | 4 | MBCBCRBA | - RBA(CI) |
| (20) | ADDRESS | 4 | MBCBMRCA | - A(MRCA) |
| (24) | ADDRESS | 4 | MBCB_DCTE_P | - A(DCTE) or 0 |

Table 396. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---------------------------|
| (28) | CHARACTER | 8 | * | associated control blocks |
| (28) | ADDRESS | 4 | MBCB_MQCB_P | - A(MQCB) |
| (2C) | ADDRESS | 4 | MBCB_MRCB_P | - A(MRCB) or 0 |
| (30) | CHARACTER | 8 | MBCB_SRC | MBCB preemption chain |
| (30) | ADDRESS | 4 | MBCB_TCA_P | - A(owning TCA) or 0 |
| (34) | ADDRESS | 4 | MBCB_MWCB_P | - A(first MWCB) or 0 |
| (38) | CHARACTER | 0 | * | |

MULTIPLE BUFFERS - QUEUE CONTROL BLOCK (MQCB)

Table 397.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---------------------------|
| (0) | STRUCTURE | 16 | DFHMQCB | |
| (0) | CHARACTER | 8 | * | QUEUE SPECIFIC CHAIN |
| (0) | ADDRESS | 4 | MQCBFCHN | - A(NEXT MQCB) |
| (4) | ADDRESS | 4 | MQCBBCHN | - A(PREVIOUS MQCB) |
| (8) | CHARACTER | 8 | * | associated control blocks |
| (8) | ADDRESS | 4 | MQCB_MBCB_P | - A(MBCB) |
| (C) | CHARACTER | 4 | * | - Reserved |
| (10) | CHARACTER | 0 | * | |

MCA - Map control area description

DESCRIPTIVE NAME = CICS TS MAP CONTROL AREA DESCRIPTION

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FUNCTION = DESCRIBE MAP CONTROL AREA FOR SETTING UP BMS OUTPUT

DATA STREAM FOR 3270 OR LU1 SCS PRINTER DEVICE

This area contains information pertinent to one of the maps being used in a page build process for a 3270 or LU1 SCS printer device.

The Map Control Areas for one page of data are maintained on a chain which is anchored in field TTPMMFCP contained in the current TTP. The chain is maintained in order by the field position of the next field to be processed in each map. The last Map Control Area in the chain is always a dummy MCA containing only a zero chain address and a maximum possible field position. Each MCA contains copies of those fields of the map header which are required to build the data stream. All the Map Control Areas for one page of data are contained in one area of storage with the first one being the dummy MCA.

EXTERNAL REFERENCES :

NONE

TABLES :

NONE

MACROS :

NONE
METHOD :
USED BY DFHM32 AND DFHML1 TO HOLD INFORMATION
ABOUT A SINGLE MAP AND ITS FIELDS.

Table 398.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHMCADS | |
| (0) | CHARACTER | 4 | MCACBID | MCA SELF IDENTIFICATION. SET TO 'MCAD' WHEN AN MCA IS CREATED |
| (4) | ADDRESS | 4 | MCACHAIN | ADDRESS OF NEXT MCA IN CHAIN |
| (8) | HALFWORD | 2 | | RESERVED |
| (A) | HALFWORD | 2 | MCAFPF | PAGE ADDRESS OF CURRENT FIELD (COPY OF BMSFPF) |
| (A) | 11.. | | MCADDEL | "*-DFHMCADS" DUMMY MCA LENGTH |
| (C) | ADDRESS | 4 | MCAMAP | ADDRESS OF MAP |
| (10) | ADDRESS | 4 | MCATIOA | ADDRESS OF TIOA |
| (14) | ADDRESS | 4 | MCADDEA | ADDRESS OF END OF TIOA |
| THE FOLLOWING TWO WORDS ARE ACCESSED VIA LM AND STM INSTRUCTIONS | | | | |
| (18) | ADDRESS | 4 | MCADATA | CURRENT DATA ADDRESS IN TIOA |
| (1C) | ADDRESS | 4 | MCAFIELD | CURRENT FIELD ADDRESS IN MAP |
| (20) | CHARACTER | 1 | MCAMODE | MAP DESCRIPTOR FLAG BYTE (COPY OF BMSMODE) |
| (21) | CHARACTER | 1 | MCAMSTR4 | TYPE REQUEST BYTE FOUR FROM TCA (COPY OF BMSMSTR4) |
| (21) | 1... | | MCAMSTDT | "X'80" DATA CAN BE TAKEN FROM THE TIOA |
| (21) | .1.. | | MCAMSTDM | "X'40" DATA CAN BE TAKEN FROM THE MAP |
| (22) | CHARACTER | 1 | MCAMI | MAP INDICATORS (COPY OF BMSMI) |
| (23) | CHARACTER | 1 | MCAMI2 | MAP INDICATORS (COPY OF BMSMI2) |
| (24) | CHARACTER | 1 | | RESERVED |
| (25) | CHARACTER | 1 | MCAFLAG | FLAGS FOR INTERNAL USE |
| (25) | 1... | | MCAGMF | "X'80" MF (MODIFY FIELD) TO BE GENERATED RATHER THAN SFE(START FIELD EXTENDED) |

Table 398. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--|
| (25) | .1.. | | MCANOSC | "X'40'" NO SHIFT OUT / SHIFT IN CHARACTERS ALLOWED IN DATA |
| (25) | ..1. | | MCAMHSA | "X'20'" MAP CONTAINS SOSI FIELD ATTRIBUTE |
| (26) | HALFWORD | 2 | MCAMHLL | OFFSET TO FIRST MAP FIELD |
| (28) | HALFWORD | 2 | MCAMAL | NUMBER OF MAT ATTRIBUTES |
| (2A) | HALFWORD | 2 | MCADAL | NUMBER OF ADS ATTRIBUTES |
| (2C) | CHARACTER | 12 | MCATERMM | MAP/TERMINAL MASK |
| (31) | CHARACTER | 1 | MCATERSO | SOSI MASK BYTE |
| (38) | CHARACTER | 12 | MCATERMD | DSECT/TERMINAL MASK |
| (44) | CHARACTER | 13 | MCAMXAT0 (0) | MAP FIELD ATTRIBUTE WORK AREA |
| (44) | CHARACTER | 1 | | THIS BYTE MUST BE ZERO |
| (45) | CHARACTER | 12 | MCAMXAT | COPY OF MAP FIELD ATTRIBUTES |
| (51) | CHARACTER | 13 | MCADXAT0 (0) | ADS FIELD ATTRIBUTE WORK AREA |
| (51) | CHARACTER | 1 | | THIS BYTE MUST BE ZERO |
| (52) | CHARACTER | 12 | MCADXAT | COPY OF ADS FIELD ATTRIBUTES |
| (5E) | HALFWORD | 2 | | RESERVED |
| INFORMATION ABOUT MCA EXTENSION, FILLED IN IF THE MAP CONTAINS FIELDS NOT IN ORDER OF PAGE POSITION | | | | |
| (60) | FULLWORD | 4 | MCANXF | NEXT FIELD TO BE PROCESSED IN EXT |
| (64) | HALFWORD | 2 | MCAEXF | NUMBER OF FIELDS IN EXTENSION |
| (66) | HALFWORD | 2 | MCAEXL | EXTENSION LENGTH |
| (68) | HALFWORD | 2 | MCAEXT (0) | EXTENSION START |
| (68) | .11. 1... | | MCAEL | "*-DFHMCADS" MCA ENTRY LENGTH |
| MCA EXTENSION: FORMAT OF FIELD INFORMATION | | | | |
| (68) | HALFWORD | 2 | MCAPP | FIELD POSITION ON PAGE |
| (6A) | ADDRESS | 4 | MCADP | -> FIELD DATA IN TIOA USE ICM |
| (6E) | ADDRESS | 4 | MCAMP | -> FIELD DATA IN MAP DSECT USE ICM |

MCB - BMS message control block

DESCRIPTIVE NAME = CICS TS BMS MESSAGE CONTROL BLOCK
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FUNCTION = DEFINE THE STATE OF A BMS LOGICAL MESSAGE. THIS IS USED BY THE TERMINAL PAGE RETRIEVAL PROGRAM DFHTPR. THERE IS ONE MCB PER LEVEL OF PAGE CHAINING. THE MCBS ARE CHAINED TOGETHER, WITH AN ANCHOR IN THE BMS TCTTE EXTENSION. MCBS ARE ALLOCATED AND FREED BY DFHTPR. THEY RESIDE IN SHARED STORAGE.

THE MCB HAS SEVERAL PARTS:-

- A) A COMMON PART CONTAINING INFORMATION SUCH AS THE TS QUEUE NAME.
- B) A PART CONTAINING STATUS INFORMATION (E.G. CURRENT PAGE NUMBER) FOR THE CURRENT LDC OR PARTITION.
- C) AN ENTRY FOR EACH LDC OR PARTITION CONTAINING DTATUS DATA (E.G. CURRENT PAGE NUMBER, TOTAL PAGE COUNT) FOR THAT LDC OR PARTITION. THIS IS COPIED INTO B) WHEN THE LDC OR PARTITION BECOMES CURRENT.
- D) THE PAGE/LDC TABLE WITH ONE ENTRY PER PAGE OF THE MESSAGE, INDICATING THE LDC OR PARTITION FOR THIS PAGE

THE MCB IS PARTIALLY BUILT FROM THE MESSAGE CONTROL RECORD (MCR) WHEN THIS IS RETRIEVED FROM TS. OTHER PARTS ARE MAINTAINED BY DFHTPR.

NOTES :

- DEPENDENCIES = S/370
- RESTRICTIONS = NONE
- REGISTER CONVENTIONS = SEE COMMENTS IN CODE
- PATCH LABEL = NOT APPLICABLE
- MODULE TYPE = DSECT
- MODULE SIZE = NOT APPLICABLE
- ATTRIBUTES = NOT APPLICABLE
- ENTRY POINT = NOT APPLICABLE
- PURPOSE = SEE FUNCTION
- LINKAGE = NOT APPLICABLE
- INPUT = NOT APPLICABLE
- OUTPUT = NOT APPLICABLE
- EXIT-NORMAL = NOT APPLICABLE
- EXIT-ERROR = NOT APPLICABLE
- EXTERNAL REFERENCES = NONE
- CONTROL BLOCKS = NOT APPLICABLE
- TABLES = NOT APPLICABLE
- MACROS = NONE

Table 399.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------|-------------------------------|
| (0) | STRUCTURE | 0 | DFHMCB | |
| (0) | FULLWORD | 4 | MCBSAA | SHARED STORAGE ACCOUNTING |
| (4) | FULLWORD | 4 | MCBCOMN (0) | START MCB COMMON CONTROL AREA |
| MCB COMMON CONTROL AREA | | | | |
| (4) | ADDRESS | 4 | MCBNEXT | POINTER TO CHAINED MCB |
| FIELDS ABOVE OVERLAP THE BMS TCTTE EXTENSION FOR FINDING THE MCB CHAIN HEADER | | | | |

Table 399. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| (8) | CHARACTER | 8 | MCBCBID | MCB SELF IDENTIFICATION. SET TO 'DFHMCBDS' WHEN MCB CREATED |
| (10) | ADDRESS | 4 | MCBCUREP | A(CURRENTLY ACTIVE REPEATED) |
| (14) | ADDRESS | 4 | MCBCURPG | A(CURRENT PAGING ENTRY) |
| (18) | ADDRESS | 4 | MCBPGLDC | POINTER TO PAGE/LDC TABLE |
| (1C) | ADDRESS | 4 | MCBAPSET | POINTER TO INCORE APPLICATION PARTITION SET |
| (20) | CHARACTER | 12 | MCBMSGID (0) | MESSAGE ID OF LOGICAL MESSAGE |
| (20) | CHARACTER | 8 | MCBTSID (0) | TEMPORARY STORAGE KEY |
| (20) | CHARACTER | 2 | MCBTSPFX | TEMPORARY STORAGE RECOVERY PREFIX |
| (22) | ADDRESS | 1 | MCBTSPKY | BMS IDENTIFIER -X'FD' |
| (23) | BITSTRING | 3 | MCBUNQID | MESSAGE ID OF THIS MSG |
| (26) | CHARACTER | 1 | MCBTTS | TERMINAL TYPE SUFFIX OF RECEIVING TERMINAL |
| (27) | BITSTRING | 1 | MCBTSQUL | TEMP. STORAGE QULAIFICATION |
| (28) | BITSTRING | 1 | MCBCHN | CHAIN NUMBER OF THIS MESSAGE |
| (29) | BITSTRING | 1 | MCBFLAGS | FLAGS |
| NOTE -- DSECTS FOR THE MCR AND MCB SHOULD HAVE EQUIVALENT BIT PATTERNS FOR THE FOLLOWING FLAGS -- XXXTITLE - MESSAGE HAS A TITLE XXXWBCUR WTBK=CURR (2741) XXXWBALL WTBK=ALL (2741) XXXEODOP EODPURG=OPER WHERE XXX IS ONE OF MCR OR MCB | | | | |
| (29) | 1... | | MCBTITLE | "X'80'" ...MESSAGE HAS A TITLE |
| (29) | .1.. | | MCBWBCUR | "X'40'" ...WTBRK=CURRENT (2741 ONLY) |
| (29) | ..1. | | MCBWBALL | "X'20'" ...WTBRK=ALL (2741 ONLY) |
| (29) | ...1 | | MCBEODOP | "X'10'" ...EODPURG=OPER FOR THIS MESSAGE |
| (29) | 1... | | MCBOPCHK | "X'08'" ...OPERATOR CHECKING WITH MESSAGE |

Table 399. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (29) | 1.. | | MCBMCRCK | "X'04" ...MCR HAS BEEN CHECKED |
| (29) | 1. | | MCBCURR | "X'02" ...THIS IS CURRENT CHAIN LEVEL |
| (29) |1 | | MCBACT | "X'01" ...THIS MCB IS ACTIVE |
| THESE FIELDS POSITIONALLY DEPENDENT ON 'MCBMSGID' & 'MCBLDCL | | | | |
| (2A) | HALFWORD | 2 | (0) | |
| (2A) | CHARACTER | 18 | MCBCLDCI (0) | DESTINATION INFORMATION |
| (2A) | HALFWORD | 2 | MCBPAG | PAGE NUMBER CURRENTLY BEING DISPLAYED |
| (2C) | CHARACTER | 2 | MCBCLDCM | CURRENTLY ACTIVE LDC MNEMONIC |
| (2E) | BITSTRING | 1 | MCBCLDCD | CURRENTLY ACTIVE LDC DEVICE CODE |
| (2F) | BITSTRING | 1 | MCBLDCF | CURRENTLY ACTIVE DESTINATION CODE |
| REFER TO 'MCBRLDCF' FOR VALUES | | | | |
| (30) | HALFWORD | 2 | MCBPGCNT | TOTAL NUMBER OF PAGES PER DESTINATION |
| (32) | CHARACTER | 8 | MCBCDSN | CURRENTLY ACTIVE DESTINATION NAME |
| (3A) | BITSTRING | 1 | MCBCDSP | DATA STREAM PROFILE |
| (3C) | HALFWORD | 2 | MCBCHCNT | NUMBER OF CHAIN LEVELS 01 CONNECTED TO TERMINAL 01 (FIRST MCB ONLY) |
| (40) | FULLWORD | 4 | (0) | ALIGNMENT |
| (40) | CHARACTER | 2 | MCBCPRTN | NAME OF CURRENT PARTITION |
| (42) | CHARACTER | 1 | MCBCPID | PID OF CURRENT PARTITION |
| (43) | BITSTRING | 3 | | RESERVED |
| (46) | BITSTRING | 1 | MCBIND02 | MCB INDICATOR TWO |
| (46) | 1... | | MCBAPDUN | "X'80" ALL AUTOMATIC PAGING COMPLETE |
| (46) | 1.. | | MCBPNDUN | "X'40" PAGING NOT COMPLETE |
| (46) | ..1. | | MCBFSUN | "X'20" FINAL SCAN COMPLETE |
| (46) | ...1 | | MCBQKPRG | "X'10" MESSAGE ELIGIBLE FOR QUICK PURGE |
| (46) | 1... | | MCBSCSZ | "X'08" USE ALTERNATE SCREENSIZE |

Table 399. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| (46) | 1.. | | MCBTRAN | "X'04'" PAGES INCLUDE EXTRA BYTE FOR TRANSPARENT MODE |
| (46) | 1. | | MCBRDSPL | "X'02'" REDISPLAY CURRENT PAGE IN EACH PARTITION |
| (46) |1 | | MCBSCHED | "X'01'" AID for this MCB has been rescheduled by DFHACP |
| (48) | FULLWORD | 4 | MCBCEND (0) | END COMMON MCB |
| (48) | 1.. 1... | | MCBLEN | "MCBCEND-DFHMCB" LENGTH OF COMMON MCB AREA |
| MCB/LDC REPEATED ENTRY | | | | |
| (48) | 1.. | | MCBDRLDC | "4" DEFAULT REPEATED ENTRY COUNT |
| THESE FIELDS POSITIONALLY DEPENDENT ON 'MCBCLDCI' | | | | |
| (48) | 1.. 1... | | MCBLDCL | "*1" LDC REPEATED ENTRY LIST |
| (48) | HALFWORD | 2 | MCBRCPAG | CURRENT PAGE NUMBER |
| (4A) | CHARACTER | 2 | MCBRLDCE | LDC MNEMONIC |
| (4C) | BITSTRING | 1 | MCBRLDCE | LOGICAL DEVICE CODE |
| (4D) | BITSTRING | 1 | MCBRLDCE | PAGING STATUS FLAG ONLY |
| (4D) | 1... | | MCBPSTAT | "TCTTEPGP" PAGING STATUS |
| (4D) | 1.. | | MCBTREV | "TCTTEPGR" PAGING STATUS TEMPORARILY REVERSED. LAST 6 BITS RESERVED |
| (4E) | HALFWORD | 2 | MCBRTPC | TOTAL PAGE COUNT FOR THIS LDC |
| (50) | CHARACTER | 8 | MCBRDSN | DESTINATION NAME |
| (58) | CHARACTER | 1 | MCBRDSP | DATA STREAM PROFILE |
| (5A) | HALFWORD | 2 | (0) | ENSURE ALIGNMENT |
| (5A) | 1.1 1.1. | | MCBRLDCE | "*1" END REPEATED ENTRY |
| (5A) | ...1 1.1. | | MCBRLN | "MCBRLDCE-MCBLDCL" LDC REPEATED ENTRY LENGTH |
| (48) | CHARACTER | 0 | MCBLDCLL (0) | DEFINE MCB/LDC LIST |
| MCB'S PG/LDC TABLE | | | | |
| (48) | 1... | | MCBDLDCP | "8" PAGE/LDC TABLE SIZE (NUMBER OF ENTRIES) |
| DEFINE SPACE FOR THE PAGE/LDC TABLE | | | | |
| (90) | CHARACTER | 1 | | |
| (90) | 1.1. | | MCBEXEND | "*1" END OF TABLE |

Table 399. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------------|
| (90) | 1.1. | | MCBEXLEN | "MCBEXEND-DFHMCB" LENGTH OF TABLE |

MCR - BMS message control record dsect

DESCRIPTIVE NAME = CICS TS BMS MESSAGE CONTROL RECORD DSECT

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5655-Y04

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FUNCTION = DEFINE THE BMS MESSAGE CONTROL RECORD (MCR). THE MCR
DEFINES A BMS LOGICAL MESSAGE ON TEMPORARY STORAGE.
IT IS OUTPUT BY DFHMCP, AND READ/UPDATED BY DFHTPS,
DFHTPQ, AND DFHTPR.
THE MCR TS QUEUE ID IS RELATED TO THE CORRESPONDING
LOGICAL MESSAGE PAGE TS QUEUE BY A NAMING CONVENTION.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = NONE

REGISTER CONVENTIONS = NOT APPLICABLE

PATCH LABEL = NONE

MODULE TYPE = DSECT

MODULE SIZE = NOT APPLICABLE

ATTRIBUTES = DSECT

ENTRY POINT = NOT APPLICABLE

PURPOSE = SEE FUNCTION

LINKAGE = NOT APPLICABLE

INPUT = NOT APPLICABLE

OUTPUT = NOT APPLICABLE

EXIT-NORMAL = NOT APPLICABLE

EXIT-ERROR = NOT APPLICABLE

EXTERNAL REFERENCES = NONE

CONTROL BLOCKS = NOT APPLICABLE

TABLES = NOT APPLICABLE

MACROS = NONE

ALL DISPLACEMENTS ARE COMPUTED FROM 'DFHMC RDS'

Table 400.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHMC RDS | MCR DUMMY SECTION |
| (0) | DBL WORD | 8 | MCRSAAP | STORAGE ACCOUNTING INFORMATION; STORAGE CLASS=USER |
| (0) | 1... | | MCRSTART | "1" START OF MCR |
| (8) | FULLWORD | 4 | MCRLB B | VARIABLE-LENGTH RECORD INFORMATION (LB B) |
| (C) | CHARACTER | 8 | MCRCBID | MCR SELF IDENTIFICATION. SET TO 'DFHMC RDS' WHEN MCR CREATED |
| (14) | HALFWORD | 2 | MCRPGCNT | TOTAL PAGE COUNT |
| (16) | HALFWORD | 2 | MCRIDCNT | COUNT OF TERMINALS TO RECEIVE MESSAGE |

Table 400. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (18) | HALFWORD | 2 | MCRLSTRM | DISPLACEMENT TO LAST TERMINAL ENTRY IN THIS RECORD |
| (1A) | HALFWORD | 2 | MCRTTLD | DISPLACEMENT TO TITLE PAGE |
| (1C) | HALFWORD | 2 | MCRPLTD | DISPLACEMENT TO THE PAGE/LDC TABLE |
| (1E) | CHARACTER | 2 | MCRETLDLC | ERROR TERMINAL'S LDC MNEMONIC |
| (20) | CHARACTER | 4 | MCRERRID | ID OF TERMINAL TO RECEIVE ERROR NOTIFICATION |
| (24) | CHARACTER | 3 | MCROPCL | OPERATOR CLASS |
| (27) | BITSTRING | 1 | MCRPGCHN | PAGE CHAIN LEVEL |
| (28) | BITSTRING | 1 | MCRFLAGS | FLAGS |
| NOTE -- DSECTS FOR THE MCR AND MCB SHOULD HAVE EQUIVALENT BIT PATTERNS FOR THE FOLLOWING FLAGS -- XXXTITLE - MESSAGE HAS A TITLE XXXWBCUR WTBK=CURR (2741) XXXWBALL WTBK=ALL (2741) XXXEODOP EODPURG=OPER WHERE XXX IS ONE OF MCR OR MCB | | | | |
| (28) | 1... | | MCRTITLE | "X'80'" ...TITLE RECORD IN THIS MCR |
| (28) | .1.. | | MCRWBCUR | "X'40'" ...WTBRK=CURRENT (2741 ONLY) |
| (28) | ..1. | | MCRWBALL | "X'20'" ...WTBRK=ALL (2741 ONLY) |
| (28) | ...1 | | MCREODOP | "X'10'" ...EODPURG=OPER |
| (28) | 1... | | MCRPAGE | "X'08'" ...MAKE TEMPORARILY PAGING |
| (28) |1.. | | MCRAUTOP | "X'04'" ...MAKE TEMPORARILY AUTOPAGE |
| (28) |1. | | MCRBMSSM | "X'02'" ...BMS - SYSTEM MESSAGE |
| (28) |1 | | MCRRTAIN | "X'01'" ...CTRL=RETAIN |
| (29) | BITSTRING | 1 | MCRSTAT | STATUS FLAG |
| (29) | 1... | | MCRQKPRG | "X'80'" MESSAGE ELIGIBLE FOR QUICK PURGE |
| (29) | .1.. | | MCRMLDC | "X'40'" MCR CONTAINS MULTIPLE LDC'S |
| (29) | 1... | | MCRSCSZ | "X'08'" USE ALTERNATE SCREENSIZE |
| (29) |1.. | | MCRTRAN | "X'04'" PAGES CONTAIN EXTRA BYTE FOR TRANSPARENT MODE |

Table 400. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (29) | ..1. 11.. | | MCRIDLST | "*1" START OF TERMINAL LIST TERMINAL ENTRY FOR ONE TERMINAL - |
| (2C) | CHARACTER | 4 | MCRTRMID | TERMINAL IDENTIFICATION |
| (30) | CHARACTER | 2 | MCRLDCMN | LDC MNEMONIC |
| (32) | HALFWORD | 2 | MCRLDCPG | PAGE COUNT PER LDC |
| (34) | BITSTRING | 1 | MCRLDCCD | LDC CODE |
| (35) | CHARACTER | 3 | MCROPID | OPERATOR ID |
| (38) | BITSTRING | 1 | MCRSF | STATUS FLAG |
| (38) | 1... | | MCRSFPG | "TCTTEPGP" PAGING STATUS |
| (38) | .1.. | | MCRLFAIL | "X'40" LOCATE FAILED - ENTRY IS SKIPPED ONLY IF MCRMLDC IS ON |
| (39) | BITSTRING | 1 | MCRTEYP | TYPE OF TERMINAL ENTRY |
| (39) | 1... | | MCRTEREM | "X'80" REMOTE TERMINAL |
| (3A) | CHARACTER | 8 | MCRDSN (0) | DESTINATION NAME IF LOCALLY OWNED TERMINAL |
| (3A) | CHARACTER | 4 | MCRSYSID | ID OF TERMINAL OWNING SYSTEM (OR FIRST IN CHAIN) IF REMOTELY OWNED TERMINAL |
| (3E) | CHARACTER | 4 | | RESERVED |
| (42) | BITSTRING | 1 | MCRDSP | DATA STREAM PROFILE |
| (43) | BITSTRING | 1 | | RESERVED |
| (43) | .1.. .1.. | | MCRIDNXT | "*1" LOCATION OF NEXT ID ENTRY |
| (43) | ...1 1... | | MCRLNTRY | "MCRIDNXT-MCRIDLST" MCR TERMINAL LIST ENTRY LENGTH |

MGM - MGM format of prototype messages

CONTROL BLOCK NAME = DFHMGM TYPE=DSECT
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS MGM Format of Prototype Messages
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 (C) Copyright IBM Corp. 1981, 2008
 FUNCTION =
 The MGT entry describes the message to be issued.
 This DSECT maps the MGT entry.
 NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition

Table 401.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | ETMGDSCT | |
| (0) | BITSTRING | 1 | ETMGCTYP | TYPE 0 NO TCTTE PASSED 1 TCTTE PASSED 2 IST TCTTE = SENT MSG TCTTE, 2ND TCTTE = TERM IN INSERTS |
| THE OPTIONS SPECIFIED WITH THE MSG ARE ADDED TO THOSE PASSED BY THE CALLER NORMALLY NOTHING SHOULD BE SET | | | | |
| (1) | ADDRESS | 1 | ETMGDEST | DESTINATION |
| FIELD SAME AS MGMGDEST | | | | |
| (1) | ..1. | | ETMDTERM | "X'20'" DEST TERM |
| (1) | 1... | | ETMDRETN | "X'08'" DEST RETURN TO CALLER |
| (1) |1.. | | ETMDNNUM | "X'04'" PRODUCE NO NUMBER |
| (1) |1. | | ETMDTIOA | "X'02'" OBTAIN A TIOA |
| (2) | HALFWORD | 2 | ETMGMGNO | MSG NO |
| (4) | BITSTRING | 1 | ETMGMCOD | I/A/ TYPE ETC |
| FIELD SAME AS MGMOPTN1 | | | | |
| (4) | 1... | | ETMGMCDI | "X'80'" I TYPE MESSAGE |
| (4) | .1.. | | ETMGMCDA | "X'40'" A TYPE MESSAGE |
| (4) | ..1. | | ETMGMNLS | "X'20'" NLS MESSAGE |
| (4) | ...1 | | ETMGRESP | "X'10'" response required |
| (4) | 1... | | ETMG1CID | "X'08'" Component id specified |
| (4) |1.. | | ETMGMCNX | "X'04'" ERRATT=NEXT |
| (4) |1. | | ETMGMCNL | "X'02'" ERRATT=LASTLINE |
| (4) |1 | | ETMGMCNE | "X'01'" ERRATT=NO |
| (5) | ADDRESS | 1 | ETMGINS2 | INSERT INFO - MGMOPTN2 |
| FIELD SAME AS MGMOPTN2 | | | | |
| (5) | ...1 | | ETMDDUMP | "X'10'" DUMP ON THIS MESSAGE |
| (6) | ADDRESS | 1 | ETMGPTN3 | SWITCHES - MGMOPTN3 |
| FIELD SAME AS MGMOPTN3 | | | | |
| (6) | 1... | | ETMG3PID | "X'80'" Product id specified |
| (7) | BITSTRING | 1 | ETMOFFV | OFFS OF MSG IN STG AREA |
| (8) | ADDRESS | 1 | ETMGDESX | DESTINATION EXTENTION BYTE |
| (9) | CHARACTER | 2 | ETMGCOMP | Component id |

Table 401. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-----------------------------|
| (B) | CHARACTER | 3 | ETMGPROD | Product id |
| (E) | HALFWORD | 2 | ETMGTLN | TOTAL L OF MSG TEXTS. |
| (10) | CHARACTER | 1 | ETMGTSRT (0) | START OF TEXT |
| (10) | ...1 | | TEXTOFF | "*-ETMGDSCT" MSG TXT OFFSET |

THIS DSECT DESCRIBES PARTIAL MESSAGES IN PROTOTYPE MSGS

Table 402.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-------------------------|
| (0) | STRUCTURE | 0 | ETMGTEXT | MSG TEXT. |
| (0) | HALFWORD | 2 | ETMGTYPL (0) | TYPE/LENGTH OF MSG TEXT |
| (0) | CHARACTER | 1 | ETMGTYPE | TYPE OF MSG TEXT. |
| (1) | CHARACTER | 1 | ETMGLEN | LENGTH OF MSG TEXT. |
| (2) | CHARACTER | 1 | ETMGMGDA | ACTUAL MSG |

THIS DSECT DESCRIBES THE INPUT PLIST

Table 403.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 0 | MGMAMAP | *** MAP THE FW ADCONS IN DFHINS *** |
| (0) | ADDRESS | 4 | MGMAMSG | A(MGMMDEST) |
| (4) | ADDRESS | 4 | MGMAPARM | A(INSERT/MSG TABLE) |
| (4) | 1... | | MGMAMLST | "X'80" LAST FLAG |

THIS DSECT DESCRIBES THE FIRST PARAMETER,WHICH IS ALWAYS PRESENT

Table 404.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | MGMMDEST | *** MESSAGE NO AND DESTINATION CODE *** |
| (0) | BITSTRING | 1 | MGMGTTYPE | TYPE OF MESSAGE |
| (0) |1 | | MGMGTCTE | "X'01" MGMAPARM = A(TCTTE) |
| (1) | CHARACTER | 1 | MGMGDEST | DESTINATION/ACTION. |
| (1) | ..1. | | MGMDTERM | "X'20" DEST TERM |
| (1) | 1... | | MGMDRETN | "X'08" DEST RETURN TO CALLER |
| (1) |1.. | | MGMDNNUM | "X'04" NO MSG NO. TO BE PRODUCED |
| (1) |1. | | MGMDTIOA | "X'02" OBTAIN A TIOA |
| (1) |1 | | MGMDIPIC | "X'01" PLACE IN IPIC BUFFER |
| (2) | ADDRESS | 2 | MGMGNO | MSG NO |

Table 404. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (4) | BITSTRING | 1 | MGMOPTN1 | TYPE /I/A RESERVED |
| (4) | 1... | | MGMD1CDI | "X'80'" I TYPE MESSAGE |
| (4) | .1.. | | MGMD1CDA | "X'40'" A TYPE MESSAGE |
| (4) | ..1. | | MGMD1NLS | "X'20'" NLS MESSAGE |
| (4) | ...1 | | MGMDRESP | "X'10'" MGP Response code required |
| (4) | 1... | | MGMD1CID | "X'08'" COMP ID PRESENT |
| (4) |1.. | | MGMD1CNX | "X'04'" ERRATT=NEXT |
| (4) |1. | | MGMD1CNL | "X'02'" ERRATT=LASTLINE |
| (4) |1 | | MGMD1CNE | "X'01'" ERRATT=NO |
| (5) | BITSTRING | 1 | MGMOPTN2 | OPTION TWO |
| (5) | 1... | | MGMTERAS | "X'80'" ERASE REQUIRED * |
| (5) | .1.. | | MGMTFMHP | "X'40'" FMH PRESENT |
| (5) | ..1. | | MGMTCONV | "X'20'" CONVERSE REQUIRED |
| (5) | ...1 | | MGMDDUMP | "X'10'" DUMP REQUIRED |
| (5) | 1... | | MGMDOFFS | "X'08'" PUT MESSAGE AT AN OFFSET (GIVEN BY VALUE OF MGMOFFV) WITHIN STORAGE AREA * |
| (5) |1.. | | MGMTUNLK | "X'04'" UNLOCK OPTION REQUIRED |
| (5) |1. | | MGMTLAST | "X'02'" LAST OPTION REQUIRED |
| (5) |1 | | MGMTWAIT | "X'01'" WAIT OPTION REQUIRED * |
| (6) | BITSTRING | 1 | MGMOPTN3 | OPTION THREE |
| (6) | 1... | | MGMO3PID | "X'80'" PRODUCT ID SPECIFIED |
| (7) | BITSTRING | 1 | MGMOFFV | VALUE OF OFFSET WITHIN STG AREA FOR START OF MSG |
| (8) | CHARACTER | 1 | MGMGDESX | DESTINATION EXTENSION BYTE |
| (9) | BITSTRING | 1 | MGMRESP | MGP Response code |
| (A) | CHARACTER | 2 | MGMGCOMP | COMPONENT ID |
| (C) | CHARACTER | 3 | MGMGPROD | PRODUCT ID |
| (C) | 1111 | | MGMMDLN | "*-MGMMDEST" LENGTH OF MGMMDEST PARM |

Table 405.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 0 | MGINSERT | *** LENGTH AND 'TEXT' OF INSERT *** |

Table 405. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (0) | ADDRESS | 2 | MGINSRL | LENGTH OF INSERT IF ANY |
| (2) | CHARACTER | 1 | MGINSRD | INSERT IF ANY |

MLRDS - XMLTRANSFORM Resource Statistics

CONTROL BLOCK NAME = DFHMLRDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHMLRPS
 DESCRIPTIVE NAME = CICS TS ML Domain (Xmltransform) Statistics
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 5655-Y04
 (C) Copyright IBM Corp. 2008, 2009
 FUNCTION =
 This block described the statistics collected by the ML Domain.
 There is an instance of this block for each xmltransform which statistics have been requested.
 LIFETIME = This block exists until the statistics request has been satisfied.
 STORAGE CLASS =
 LOCATION = The user is passed a pointer to the head of the block
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHMLRDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 406.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|----------------------------------|
| (0) | STRUCTURE | 0 | DFHMLRDS | Xmltransform Resid stats record |
| (0) | HALFWORD | 2 | MLRDS_LEN | Xmltransform stats record length |
| (2) | ADDRESS | 2 | MLRDS_ID | Xmltransform stats id |
| (4) | CHARACTER | 1 | MLRDS_VERS | Xmltransform stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 32 | MLR_XMLTRANSFORM_NAME | Xmltransform name |
| (28) | BITSTRING | 8 | | Reserved |
| (30) | BITSTRING | 1 | MLR_MSG_VALIDATION | Xmltransform msg validation |
| (31) | BITSTRING | 3 | | Reserved |
| (34) | BITSTRING | 4 | | Reserved |
| (38) | CHARACTER | 255 | MLR_XSDBIND_FILE | XML binding file |

Table 406. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------------------|--|
| (137) | BITSTRING | 1 | | Reserved |
| (138) | CHARACTER | 255 | MLR_XMLSCHEMA_FILE | XML schema file |
| (237) | BITSTRING | 1 | | |
| (238) | FULLWORD | 4 | MLR_XMLTRNFM_USE_COUNT | Xmltransform use count |
| (23C) | BITSTRING | 4 | | Reserved |
| (240) | BITSTRING | 8 | | Reserved |
| (248) | CHARACTER | 8 | MLR_XMLTRNFM_DEFINE_SOURCE | Group installed from |
| (250) | BITSTRING | 8 | MLR_XMLTRNFM_CHANGE_TIME | Change/create time |
| (258) | CHARACTER | 8 | MLR_XMLTRNFM_CHANGE_USERID | Change userid |
| (260) | BITSTRING | 2 | MLR_XMLTRNFM_CHANGE_AGENT | Change agent |
| (262) | BITSTRING | 2 | MLR_XMLTRNFM_INSTALL_AGENT | Install agent |
| (264) | BITSTRING | 8 | MLR_XMLTRNFM_INSTALL_TIME | Install/Create time |
| (26C) | CHARACTER | 8 | MLR_XMLTRNFM_INSTALL_USERID | Install userid |
| (26C) | | 0 | MLRDS_END | "13" |
| (26C) | | 0 | MLRDS_LENGTH | "*-MLRDS_LEN" Xmltransform record length |
| Constants that denote a Xmltransform resource stats record | | | | |
| (26C) | .111 ...1 | | MLRIDR | "113" ML Xmltransform resid stats id |
| (26C) |1 | | MLR_VERS | "X'01" Record version number |
| (26C) |1 | | MLR_VALIDATION_NO | "X'01" Xmltransform msg validation - No |
| (26C) |1. | | MLR_VALIDATION_YES | "X'02" Xmltransform msg validation - Yes Change Agents |
| (26C) |1 | | MLR_CSDAPI_CHANGE | "0001" CSD API |
| (26C) |1. | | MLR_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (26C) |11 | | MLR_DREPAPI_CHANGE | "0003" DREP API |
| (26C) |1.. | | MLR_CREATE_CHANGE | "0004" EXEC CREATE SPI |
| (26C) | 1... | | MLR_DYNAMIC_CHANGE | "0008" Dynamic Install Agents |
| (26C) | 1... | | MLR_DYNAMIC_INSTALL | "0008" Dynamic |
| (26C) | 1..1 | | MLR_BUNDLE_INSTALL | "0009" BUNDLE |

MLVIC - Xmltransform vendor interface

Content of the CNTR container on input to the converter program

Table 407.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|------|-------------------|-------------|
| (0) | STRUCTURE | 1384 | MLVI_INPUT_DATA | |
| (0) | CHARACTER | 32 | MLVI_XMLTRANSFORM | |
| (20) | CHARACTER | 16 | MLVI_XMLCONTNR | |
| (30) | CHARACTER | 16 | MLVI_DATACONTNR | |
| (40) | CHARACTER | 16 | MLVI_NSCONTNR | |
| (50) | CHARACTER | 8 | MLVI_RUNLVL | |
| (58) | UNSIGNED | 4 | MLVI_APP_CCSID | |
| (5C) | CHARACTER | 1 | MLVI_DIRECTION | |
| (5D) | CHARACTER | 1 | * | |
| (5E) | UNSIGNED | 2 | MLVI_ELEMNAME_LEN | |
| (60) | CHARACTER | 256 | MLVI_ELEMNAME | |
| (160) | UNSIGNED | 2 | MLVI_ELEMNS_LEN | |
| (162) | CHARACTER | 256 | MLVI_ELEMNS | |
| (262) | UNSIGNED | 2 | MLVI_TYPENAME_LEN | |
| (264) | CHARACTER | 256 | MLVI_TYPENAME | |
| (364) | UNSIGNED | 2 | MLVI_TYPENS_LEN | |
| (366) | CHARACTER | 256 | MLVI_TYPENS | |
| (466) | UNSIGNED | 2 | MLVI_SCHEMA_LEN | |
| (468) | CHARACTER | 256 | MLVI_SCHEMA | |

Content of the CNTR container on output from the
converter program.

Table 408.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-------------|
| (0) | STRUCTURE | 1 | MLVI_OUTPUT_DATA | |
| (0) | UNSIGNED | 1 | MLVI_RESPONSE | |

Constants

Table 409.

| Len | Type | Value | Name | Description |
|---|-----------|----------------------|------------------|-------------|
| ----- container names for the XMLTRANSFORM Vendor interface ----- | | | | |
| 16 | CHARACTER | DFHML- VNDOR-CNTR | MLVI_VDR_CN_CONT | |

Table 409. (continued)

| Len | Type | Value | Name | Description |
|--|-----------|------------------|----------------------|-------------|
| 16 | CHARACTER | DFHML-VNDOR-META | MLVI_VDR_MD_CONT | |
| ----- Constants for the mlvi_direction field ----- | | | | |
| 1 | CHARACTER | T | MLVI_DIR_TO_XML | |
| 1 | CHARACTER | F | MLVI_DIR_FROM_XML | |
| ----- Constants for the mlvi_response field ----- | | | | |
| 1 | DECIMAL | 0 | MLVI_OK | |
| 1 | DECIMAL | 1 | MLVI_XML_INVALID | |
| 1 | DECIMAL | 2 | MLVI_XML_CONV_ERROR | |
| 1 | DECIMAL | 3 | MLVI_DATA_INVALID | |
| 1 | DECIMAL | 4 | MLVI_DATA_CONV_ERROR | |
| 1 | DECIMAL | 5 | MLVI_UNSUPPORTED_EL | |
| 1 | DECIMAL | 6 | MLVI_UNSUPPORTED_TY | |
| 1 | DECIMAL | 7 | MLVI_OTHER | |

MNADS - Monitoring Association Data Block

CONTROL BLOCK NAME = DFHMNADS
 DESCRIPTIVE NAME = CICS Monitoring (MN) Domain
 Association Data Control Block
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 2006, 2011
 FUNCTION = TASK ORIGIN AND INITIATION INFORMATION.
 Owned and managed by Monitor Domain.
 MNADCB
 Contains information pertaining to the origin of the
 current task. This information is provided to the
 user exit XAPADMGR. This exit is called on the
 original task where the work entered the CICS
 environment. The exit may return user correlation
 data that is added to the MNODR.
 Also sometimes referred to as MNADCCB.
 LIFETIME = Created by the Monitor Domain for the life of each
 non-system task.
 STORAGE CLASS = Task
 LOCATION =
 INNER CONTROL BLOCKS = NONE
 NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = NONE
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = NONE
 DATA AREAS = NONE
 CONTROL BLOCKS = NONE
 GLOBAL VARIABLES (Macro pass) = NONE

 Monitor Association Data Control Block -- MN AD CB --

THE MONITOR ASSOCIATION DATA CONTROL BLOCK CONTAINS:
THE CURRENT TASK ORIGIN DESCRIPTOR FIELDS
THE CURRENT TASK ADDITIONAL DATA FIELDS

Table 410.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------|-------------|
| (0) | STRUCTURE | 300 | MNADCB | |
| ASSOCIATED DATA CURRENT TASK | | | | |
| (0) | CHARACTER | 300 | MNAD_CURRENT_TASK | |
| PASSED IN ORIGIN DESCRIPTOR | | | | |
| (0) | CHARACTER | 164 | MNAD_DESCRIPTOR | |
| (0) | CHARACTER | 8 | MNAD_APPLID | |
| (8) | CHARACTER | 21 | MNAD_START_CLOCK | |
| (8) | CHARACTER | 8 | MNAD_START_DATE | |
| (8) | CHARACTER | 4 | MNAD_START_YEAR | |
| (C) | CHARACTER | 2 | MNAD_START_MONTH | |
| (E) | CHARACTER | 2 | MNAD_START_DAY | |
| (10) | CHARACTER | 13 | MNAD_START_TIME | |
| (10) | CHARACTER | 2 | MNAD_START_HOUR | |
| (12) | CHARACTER | 2 | MNAD_START_MIN | |
| (14) | CHARACTER | 2 | MNAD_START_SEC | |
| (16) | CHARACTER | 1 | MNAD_START_DECIMAL | '' |
| (17) | CHARACTER | 6 | MNAD_START_USEC | |
| (1D) | CHARACTER | 7 | MNAD_TASK_NUMBER | |
| (24) | CHARACTER | 4 | MNAD_1ST_TRANSID | |
| (28) | CHARACTER | 8 | MNAD_USERID2 | |
| (30) | CHARACTER | 8 | MNAD_FACILITYTYPE | |
| (38) | CHARACTER | 8 | MNAD_FACILITYNAME | |
| (40) | CHARACTER | 28 | MNAD_TRANS_GRPID | |
| FOLLOWING ARE CONDITIONAL ON FACILITY TYPE | | | | |
| (5C) | CHARACTER | 16 | MNAD_NQ_LUNAME | |
| (5C) | CHARACTER | 8 | MNAD_NETID | |
| (64) | CHARACTER | 8 | MNAD_NETNAME | |
| (6C) | CHARACTER | 8 | MNAD_TCIPSERVICE | |
| (74) | CHARACTER | 4 | MNAD_IPADDR_FAMILY | |
| (78) | CHARACTER | 39 | MNAD_CLIENT_IPADDR | |
| (9F) | CHARACTER | 5 | MNAD_CLIENT_PORT | |
| NOT PASSED IN ORIGIN DESCRIPTOR | | | | |
| (A4) | CHARACTER | 136 | MNAD_ADDITIONAL | |
| (A4) | CHARACTER | 8 | MNAD_USERID1 | |
| (AC) | CHARACTER | 8 | MNAD_PROGRAM_NAME | |
| FOLLOWING ARE CONDITIONAL ON FACILITY TYPE | | | | |

Table 410. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|-------------|
| (B4) | CHARACTER | 4 | MNAD_PROTOCOL | |
| (B8) | CHARACTER | 8 | MNAD_IPCONN | |
| (C0) | CHARACTER | 8 | MNAD_MVSIMAGE | |
| (C8) | CHARACTER | 8 | MNAD_TCPIPJOB | |
| (D0) | CHARACTER | 8 | MNAD_TCPIP_ZONENAME | |
| (D8) | CHARACTER | 39 | MNAD_SERVER_IPADDR | |
| (FF) | CHARACTER | 5 | MNAD_SERVER_PORT | |
| (104) | CHARACTER | 40 | MNAD_TCPIP_APPLDATA | |
| (12C) | CHARACTER | 0 | * | |

MNEMP - Monitoring domain user EMP structure

```

CONTROL BLOCK NAME = DFHMNEMP
DESCRIPTIVE NAME = CICS TS Monitoring Domain User EMP structure
                    definitions for EMP Qualifiers, EMP chaining, and EMP
                    options.
Monitoring Control Table (if any).
It contains the following structures...
    a) User EMP address list defined in an MCT.
    b) User EMP Qualifier and EMP chaining.
    c) User EMP Option definitions.
The MN Domain User Event Monitoring Point (EMP)
    The User Event Monitoring Point contains:
        The address of the next EMP with the same id
        The address of the EMP qualifier
        A sequence of EMP options
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Structure definition
-----
EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = None
GLOBAL VARIABLES (Macro pass) = None
-----

```

Table 411.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|-------------|
| (0) | STRUCTURE | 8 | DFHMNEMP | |
| (0) | ADDRESS | 4 | MNEMP_NEXT_EMP_FOR_ID | |
| (4) | ADDRESS | 4 | MNEMP_QUALIFIER_PTR | |

EMP Options

Table 412.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|-------------|
| (0) | STRUCTURE | 12 | DFHMNOPT | |
| (0) | UNSIGNED | 2 | MNEMP_OPTION_TYPE | |

Table 412. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|----------------------|-------------|
| (2) | UNSIGNED | 2 | MNEMP_OPTION_SOURCE | |
| (4) | ADDRESS | 4 | MNEMP_OPTION_OFFSET | |
| (8) | UNSIGNED | 4 | MNEMP_OPTION_CNSTANT | * |

Constants

Table 413.

| Len | Type | Value | Name | Description |
|---------------|---------|-------|----------------|-------------|
| EMP constants | | | | |
| 2 | DECIMAL | 1 | MNEMP_SCLOCK | |
| 2 | DECIMAL | 2 | MNEMP_PCLOCK | |
| 2 | DECIMAL | 3 | MNEMP_SCPUCLK | |
| 2 | DECIMAL | 4 | MNEMP_PCPUCLK | |
| 2 | DECIMAL | 5 | MNEMP_ADDCNT | |
| 2 | DECIMAL | 6 | MNEMP_SUBCNT | |
| 2 | DECIMAL | 7 | MNEMP_NACNT | |
| 2 | DECIMAL | 8 | MNEMP_ORCNT | |
| 2 | DECIMAL | 9 | MNEMP_EXCNT | |
| 2 | DECIMAL | 10 | MNEMP_MLTCNT | |
| 2 | DECIMAL | 11 | MNEMP_MOVE | |
| 2 | DECIMAL | 12 | MNEMP_DELIVER | |
| 2 | DECIMAL | 65535 | MNEMP_END | |
| 2 | DECIMAL | 1 | MNEMP_CONSTANT | |
| 2 | DECIMAL | 2 | MNEMP_DATA1 | |
| 2 | DECIMAL | 3 | MNEMP_DATA2 | |

MNEXC - Monitoring exception record

```

MACRO NAME = DFHMNEXC
DESCRIPTIVE NAME = CICS TS Monitoring Exception Record
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1987, 2013
FUNCTION =
    To generate the dsect for the Monitoring Exception Record
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    REGISTER CONVENTIONS = None
    MODULE TYPE = Object definition macro
    ATTRIBUTES = N/A
-----
PURPOSE = To generate the dsect for the Monitoring Exception
          Record.
CALLERS = DFH$MOLS
SYNTAX = <name> DFHMNEXC <PREFIX=xxx>

```

INPUTS = None
 OUTPUTS = Definition of the Monitoring Exception Record.
 RETURN CODES = None
 PROGRAMMING NOTES = None
 MACRO MESSAGES =
 DFHMNEXC - INVALID OVERRIDING PREFIX

 EXTERNAL REFERENCES =
 MACROS (Macro pass) = None
 ROUTINES (Generated code) = None
 DATA AREAS (Generated code) = None
 CONTROL BLOCKS (Generated code) = None
 GLOBAL VARIABLES (Macro pass) = None

Table 414.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|-----------------------------|
| (0) | STRUCTURE | 0 | MNEXCDS | |
| (0) | CHARACTER | 4 | EXCMNTRN | TRANSACTION IDENTIFICATION |
| (4) | BITSTRING | 4 | EXCMNTER | TERMINAL IDENTIFICATION |
| (8) | CHARACTER | 8 | EXCMNUSR | USER IDENTIFICATION |
| (10) | CHARACTER | 4 | EXCMNTST | TRANSACTION START TYPE |
| (14) | BITSTRING | 8 | EXCMNSTA | EXCEPTION START TIME |
| (1C) | BITSTRING | 8 | EXCMNSTO | EXCEPTION STOP TIME |
| (24) | | 4 | EXCMNTNO | TRANSACTION NUMBER |
| (28) | BITSTRING | 4 | EXCMNTPR | TRANSACTION PRIORITY |
| (2C) | CHARACTER | 4 | | RESERVED |
| (30) | CHARACTER | 8 | EXCMNLUN | LUNAME |
| (38) | CHARACTER | 4 | | RESERVED |
| (3C) | BITSTRING | 4 | EXCMNEXN | EXCEPTION NUMBER |
| (40) | CHARACTER | 8 | EXCMNRTY | EXCEPTION RESOURCE TYPE |
| (48) | CHARACTER | 8 | EXCMNRID | EXCEPTION RESOURCE ID |
| (50) | BITSTRING | 2 | EXCMNTYP | EXCEPTION TYPE |
| (50) |1 | | EXCMNWT | "X'0001" WAIT |
| (50) |1. | | EXCMNBWT | "X'0002" BUFFER WAIT |
| (50) |11 | | EXCMNSWT | "X'0003" STRING WAIT |
| (50) |1.. | | EXCMNPOL | "X'0004" POLICY |
| (52) | CHARACTER | 2 | | RESERVED |
| (54) | CHARACTER | 8 | EXCMNTCN | TRANSACTION CLASS NAME |
| (5C) | CHARACTER | 8 | EXCMNSRV | SERVICE CLASS NAME |
| (64) | CHARACTER | 8 | EXCMNRPT | REPORT CLASS NAME |
| (6C) | CHARACTER | 20 | EXCMNPNPX | NETWORK UNIT-OF-WORK PREFIX |

Table 414. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------|-----------|-----|------------|-------------------------------------|
| (80) | BITSTRING | 8 | EXCMNNSX | NETWORK UNIT-OF-WORK SUFFIX |
| (88) | BITSTRING | 8 | EXCMNTRF | TRANSACTION FLAGS |
| (90) | CHARACTER | 4 | EXCMNFCN | TRANSACTION FACILITY NAME |
| (94) | CHARACTER | 8 | EXCMNCPN | CURRENT PROGRAM NAME |
| (9C) | CHARACTER | 4 | EXCMNBTR | BRIDGE TRANSACTION ID |
| (A0) | BITSTRING | 16 | EXCMNURI | RRMS/MVS UNIT OF RECOVERY ID |
| (B0) | FULLWORD | 4 | EXCMNRIL | EXCEPTION RESOURCE ID LENGTH |
| (B4) | BITSTRING | 256 | EXCMNRIX | EXCEPTION RESOURCE ID (EXTENDED) |
| (1B4) | CHARACTER | 8 | EXCMNNID | NETWORK ID |
| (1BC) | CHARACTER | 8 | EXCMNRLU | REAL LUNAME |
| END OF EXCEPTION RECORD ... | | | | |

MNG - Monitoring domain statistics

```

CONTROL BLOCK NAME = DFHMNGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHMNGPS
DESCRIPTIVE NAME = CICS TS Monitoring domain statistics
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1986, 2013
FUNCTION =
    This data area contains global statistics provided by the
    Monitoring Domain
    It is provided for use in users monitoring applications to
    map the statistics written to SMF by the statistics domain.
    There is a single instance of this data block.
LIFETIME =
    This data block is created when the Monitoring Domain is
    initialised and remains until the domain is shut down.
LOCATION =
    User is passed a pointer to the head of the storage block.
INNER CONTROL BLOCKS = None
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
    MODULE TYPE = Domain call buffer
-----
EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = none
GLOBAL VARIABLES (Macro pass) = None
-----

```

Table 415.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (0) | STRUCTURE | 0 | DFHMNGDS | Monitoring Domain Stats |

Table 415. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | MNGLLEN | Length of data |
| (0) | .1.1 ...1 | | MNGIDE | "81" Monitoring domain id mask |
| (2) | ADDRESS | 2 | MNGID | Monitoring domain id |
| (2) |1 | | MNGVERS | "X'01" DSECT version mask |
| (4) | CHARACTER | 1 | MNGDVERS | DSECT version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | MNGER | No. Exception records |
| (C) | FULLWORD | 4 | MNGERS | No. Exception records supp. by exit |
| (10) | FULLWORD | 4 | MNGPR | No. Performance records |
| (14) | FULLWORD | 4 | MNGPRS | No. Performance records supp. by exit |
| (18) | FULLWORD | 4 | MNGSMFR | No. SMF records |
| (1C) | FULLWORD | 4 | MNGSMFE | No. SMF Errors |
| (20) | FULLWORD | 4 | MNGSMFNC | No. SMF records not compressed |
| (24) | FULLWORD | 4 | MNGSMFCM | No. SMF records compressed |
| (28) | FULLWORD | 4 | MNGRR | No. Resource records |
| (2C) | FULLWORD | 4 | MNGRRS | No. Resource records supp. by exit |
| (30) | FULLWORD | 4 | MNGIR | No. Identity records |
| (34) | FULLWORD | 4 | MNGIRS | No. Identity records supp. by exit |
| (38) | HALFWORD | 2 | MNGFRL | File Resource Limit |
| (3A) | HALFWORD | 2 | MNGTRL | Tsqueue Resource Limit |
| (3C) | HALFWORD | 2 | MNGDPLRL | DPL Resource Limit |
| (3E) | BITSTRING | 6 | | Reserved |
| (44) | BITSTRING | 1 | MNGMRCMP | Data Compression Option |
| (44) | .... .... |  | MNGRCMPN | "X'00" 0 = Data Compression is Not Active |
| (44) |1 | | MNGRCMPY | "X'01" 1 = Data Compression is Active |
| (45) | BITSTRING | 3 | | Reserved |
| (48) | FULLWORD | 4 | MNGAVURL | Avg Uncompressed record length |
| (4C) | FULLWORD | 4 | MNGAVCRL | Avg Compressed record length |
| (50) | BITSTRING | 1 | MNGWLMD | Workload Management Mode |
| (50) | .... .... |  | MNGCOMP | "X'00" 0 = Compatibility Mode |

Table 415. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|--|
| (50) |1 | | MNGGOAL | "X'01" 1 = Goal Mode |
| (51) | BITSTRING | 1 | MNGWLMST | WLM Address Space Server status |
| (51) | .... .... |  | MNGNSRV | "X'00" 0 = Address Space is Not a Server |
| (51) |1 | | MNGSRV | "X'01" 1 = Address Space is a Server |
| (52) | BITSTRING | 2 | | Reserved |
| (54) | CHARACTER | 8 | MNGWLMSC | WLM Service Class name - if any |
| (5C) | CHARACTER | 8 | MNGWLMWN | WLM Owning Workload Name |
| (64) | CHARACTER | 8 | MNGWLMRG | WLM Resource Group name - if any |
| (6C) | CHARACTER | 8 | MNGWLMRC | WLM Report Class name - if any |
| (74) | BITSTRING | 1 | MNGWLMGT | WLM Goal type |
| (74) | .... .... |  | MNGGTNA | "X'00" 0 = Not applicable |
| (74) |1 | | MNGGTVEL | "X'01" 1 = Velocity |
| (74) |1. | | MNGGTDIS | "X'02" 2 = Discretionary |
| (74) |11 | | MNGGTSYS | "X'03" 3 = System |
| (75) | BITSTRING | 1 | MNGWLMCC | WLM CPU Critical |
| (75) | .... .... |  | MNGCCNCR | "X'00" 0 = Not critical |
| (75) |1 | | MNGCCCRT | "X'01" 1 = Critical |
| (76) | BITSTRING | 1 | MNGWLMSK | WLM Storage Critical |
| (76) | .... .... |  | MNGSCNCR | "X'00" 0 = Not critical |
| (76) |1 | | MNGSCCRT | "X'01" 1 = Critical |
| (77) | BITSTRING | 1 | MNGWLMGM | WLM Address Space Goal Mgmt |
| (77) | .... .... |  | MNGASGTR | "X'00" 0 = Transaction Goals |
| (77) |1 | | MNGASGRG | "X'01" 1 = Region Goals |
| (77) |1. | | MNGASGBH | "X'02" 2 = Both Goals |
| (78) | FULLWORD | 4 | MNGWLMGV | WLM goal value Value of velocity goal 0 if type not velocity |
| (7C) | HALFWORD | 2 | MNGWLMGI | WLM goal importance |
| (7E) | HALFWORD | 2 | | Reserved |
| (80) | CHARACTER | 4 | MNGCECTP | CEC Machine Type |
| (84) | CHARACTER | 16 | MNGCECID | CEC Model Number |
| (94) | BITSTRING | 12 | | Reserved |
| (A0) | FULLWORD | 4 | MNGUTNUM | User transactions ended |
| (A4) | FULLWORD | 4 | MNGSTNUM | System transactions ended |

Table 415. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (A8) | BITSTRING | 8 | MNGGUTCL | Time last trans ended (GMT) |
| (B0) | BITSTRING | 8 | MNGLUTCL | Time last trans ended (Local) |
| (B8) | BITSTRING | 8 | MNGGUTAT | Time last trans attach (GMT) |
| (C0) | BITSTRING | 8 | MNGLUTAT | Time last trans attch (Local) |
| (C8) | FULLWORD | 4 | MNGMXUTA | MXT at last trans attach |
| (CC) | FULLWORD | 4 | MNGCAUTA | Current tasks at last attach |
| (D0) | FULLWORD | 4 | | Reserved |
| (D4) | FULLWORD | 4 | | Reserved |
| (D8) | BITSTRING | 8 | MNGAUTRT | Avg user trans resp time |
| (E0) | BITSTRING | 8 | MNGPUTRT | Peak user trans resp time |
| (E8) | BITSTRING | 8 | MNGGUTRT | Time peak resp time (GMT) |
| (F0) | BITSTRING | 8 | MNGLUTRT | Time peak resp time (Local) |
| (F8) | BITSTRING | 24 | | Reserved |
| (F8) | | 0 | MNGEND | "*" |
| (F8) | | 0 | MNGCLEN | "*-MNGLEN" Length |

MNI - Transaction identity monitoring data

```

CONTROL BLOCK NAME = DFHMNIDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHMNIPS
DESCRIPTIVE NAME = CICS TS Monitoring Identity Record Descriptions
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 2008
FUNCTION =
    Monitoring Identity record descriptions.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
INNER CONTROL BLOCKS = None
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = None
    GLOBAL VARIABLES (Macro pass) = None
-----

```

Table 416.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (0) | STRUCTURE | 0 | DFHMNIDS | , Monitoring Identity Record |
| (0) | FULLWORD | 4 | (0) | Fullword allignment |
| (0) | HALFWORD | 2 | MNI_LENGTH | Length of identity data |

Table 416. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-----------------------------------|
| (0) | ..11 ..11 | | MNI_ID_EQUATE | "51" Monitoring domain id mask |
| (2) | ADDRESS | 2 | MNI_ID | Monitoring domain id |
| (2) |1 | | MNI_VERSION | "X'01" DSECT version mask |
| (4) | CHARACTER | 1 | MNI_DSECT_VERS | DSECT version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | BITSTRING | 32 | MNI_HEADER (0) | Header Data |
| (8) | HALFWORD | 2 | MNI_HDRLEN | Length of header data |
| (A) | BITSTRING | 2 | | Reserved |
| (C) | BITSTRING | 8 | | Reserved |
| (14) | HALFWORD | 2 | MNI_TRN | Number of record triplets |
| (16) | BITSTRING | 2 | | Reserved |
| (18) | BITSTRING | 4 | MNI_ISO | Offset to ID data |
| (1C) | BITSTRING | 2 | MNI_ISL | Length of ID entry |
| (1E) | BITSTRING | 2 | MNI_ISN | Number of ID entries |
| (20) | BITSTRING | 4 | MNI_DSO | Offset to Data entry |
| (24) | BITSTRING | 2 | MNI_DSL | Length of Data entry |
| (26) | BITSTRING | 2 | MNI_DSN | Number of Data entries |
| (26) | ..1. | | MNI_HDR_LENGTH | "*-MNI_HEADER" Header data length |

Table 417.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-----------------------------|
| (0) | STRUCTURE | 0 | MNI_ID_DATA | Identification Data Entry |
| (0) | CHARACTER | 4 | MNI_ID_TRANID | Transaction id |
| (4) | CHARACTER | 4 | MNI_ID_TERMID | Terminal id |
| (8) | CHARACTER | 8 | MNI_ID_USERID | User id |
| (10) | CHARACTER | 4 | MNI_ID_STYPE | Transaction Start type |
| (14) | BITSTRING | 8 | MNI_ID_START | Transaction Start time |
| (1C) | BITSTRING | 8 | MNI_ID_STOP | Transaction Stop time |
| (24) | BITSTRING | 4 | MNI_ID_TASKNO | Transaction Sequence Number |
| (28) | CHARACTER | 8 | MNI_ID_LUNAME | VTAM Luname |
| (30) | CHARACTER | 8 | MNI_ID_PGMNAME | First program name |
| (38) | BITSTRING | 20 | MNI_ID_UOW_PX | Network Unit-of-Work Prefix |
| (4C) | BITSTRING | 8 | MNI_ID_UOW_SX | Network Unit-of-Work Suffix |
| (54) | CHARACTER | 4 | MNI_ID_RSYSID | Remote sysid routed to |
| (58) | BITSTRING | 8 | MNI_ID_TRN_FLAGS | Transaction flags |
| (60) | CHARACTER | 4 | MNI_ID_FCTYNAME | Transaction Facility name |

Table 417. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-------------|-----|----------------------------|--|
| (64) | CHARACTER | 4 | MNI_ID_RTYPE | Resource Record Type |
| (68) | BITSTRING | 4 | MNI_ID_TERMINFO (0) | Terminal Information |
| (68) | BITSTRING | 1 | MNI_ID_NATURE | Nature |
| (68) | .... .... |  | MNI_ID_NATURE_ NOTAPPLIC | "X'00'" Not applic |
| (68) |1 | | MNI_ID_NATURE_ TERMINAL | "X'01'" Terminal |
| (68) |1. | | MNI_ID_NATURE_ SESSION | "X'02'" Session |
| (69) | BITSTRING | 1 | MNI_ID_SESSTYPE | Session Type |
| (69) | .... .... |  | MNI_ID_SESSTYPE_ NOTAPPLIC | "X'00'" Not applic |
| (69) |1 | | MNI_ID_SESSTYPE_ IRC | "X'01'" IRC |
| (69) |1. | | MNI_ID_SESSTYPE_ IRC_ XM | "X'02'" IRC XM |
| (69) |11 | | MNI_ID_SESSTYPE_ IRC_ XCF | "X'03'" IRC XCF |
| (69) |1.. | | MNI_ID_SESSTYPE_ LU61 | "X'04'" LU61 |
| (69) |1.1 | | MNI_ID_SESSTYPE_ LU62_SING | "X'05'" LU62 SINGLE |
| (69) |11. | | MNI_ID_SESSTYPE_ LU62_PARA | "X'06'" LU62 PARALLEL |
| (6A) | BITSTRING | 1 | MNI_ID_ACMETH | Access method |
| (6A) | .... .... |  | MNI_ID_ACMETH_ NOTAPPLIC | "X'00'" Not applic |
| (6A) |1 | | MNI_ID_ACMETH_ VTAM | "X'01'" VTAM |
| (6A) |11 | | MNI_ID_ACMETH_ BSAM | "X'03'" BSAM |
| (6A) |1.. | | MNI_ID_ACMETH_ TCAM | "X'04'" TCAM |
| (6A) |11. | | MNI_ID_ACMETH_ BGAM | "X'06'" BGAM |
| (6A) |111 | | MNI_ID_ACMETH_ CONSOLE | "X'07'" CONSOLE |
| (6B) | BITSTRING | 1 | MNI_ID_DEVCODE | Device type code See TYPETERM RDO attribute |
| (6C) | CHARACTER | 4 | MNI_ID_TERMCNNM | Terminal Connection name |
| (70) | BITSTRING | 4 | | Reserved |
| (74) | BITSTRING | 8 | MNI_ID_ISIPICNM | IPCONN name |
| (7C) | BITSTRING | 8 | | Reserved |
| (84) | BITSTRING | 8 | | Reserved |
| (8C) | CHARACTER | 40 | MNI_ID_CLIPADDR | Client IP Address |
| (B4) | CHARACTER | 8 | MNI_ID_ORIGIN_NETWKID | Originating networkid |
| (BC) | CHARACTER | 8 | MNI_ID_ORIGIN_APPLID | Originating applid |
| (C4) | CHARACTER | 8 | MNI_ID_ORIGIN_ATT_ TIME | Originating task start time |
| (CC) | CHARACTER | 4 | MNI_ID_ORIGIN_TRANNUM | Originating tran seq no |
| (D0) | CHARACTER | 4 | MNI_ID_ORIGIN_TRANID | Originating tran id |
| (D4) | CHARACTER | 8 | MNI_ID_ORIGIN_USERID | Originating userid |
| (DC) | CHARACTER | 64 | MNI_ID_ORIGIN_USER_ CORR | Originating user data |
| (11C) | CHARACTER | 8 | MNI_ID_ORIGIN_TCPIPSERV | Originating TCPIP SERVICE |
| (124) | BITSTRING | 4 | MNI_ID_ORIGIN_PORTNUM | Originating portnumber |
| (128) | CHARACTER | 40 | MNI_ID_ORIGIN_ CLIPADDR | Originating Client IP address |
| (150) | BITSTRING | 4 | MNI_ID_ORIGIN_ CLIPPORT | Originating Client portnum |

Table 417. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|---|
| (154) | BITSTRING | 8 | MNI_ID_ORIGIN_ TRANFLAG | Originating transaction flags |
| (15C) | CHARACTER | 8 | MNI_ID_ORIGIN_ FCTYNAME | Originating facility name |
| (164) | CHARACTER | 8 | | Reserved |
| (16C) | CHARACTER | 8 | MNI_PHD_NETWKID | Previous Hop data networkid |
| (174) | CHARACTER | 8 | MNI_PHD_APPLID | Previous Hop data applid |
| (17C) | CHARACTER | 8 | MNI_PHD_ATTACH_TIME | Previous Hop data task start |
| (184) | CHARACTER | 4 | MNI_PHD_TRANNUM | Previous Hop data tran seqno |
| (188) | CHARACTER | 4 | MNI_PHD_TRANID | Previous Hop data tranid |
| (18C) | BITSTRING | 4 | MNI_PHD_COUNT | Previous Hop data count |
| (190) | CHARACTER | 4 | | Reserved |
| (190) | | 0 | MNI_ID_LENGTH | "*-MNI_ID_DATA" Identification entry data length |

Table 418.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|-------------------|
| (0) | STRUCTURE | 0 | MNI_DATA_ENTRY | Data Entry |
| (0) | BITSTRING | 2 | MNI_ENTRY_IDENT | Data entry ident |
| (2) | BITSTRING | 2 | MNI_ENTRY_LENGTH | Data entry length |
| (4) | CHARACTER | 1 | MNI_ENTRY_FIELD (0) | Data entry field |

PDA - Monitoring Performance Data Record

```

CONTROL BLOCK NAME = DFHMNPDA
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS CICS/ESA Monitoring Facility (CMF)
    Performance Class record written by the DFH$MOLS program.
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1994, 2012
FUNCTION =
    This DSECT describes the format of the CICS/ESA Monitoring
    Facility (CMF) Performance class record created by the
    UNLOAD function of the DFH$MOLS monitoring sample program.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
INNER CONTROL BLOCKS = N/A
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = None
    DATA AREAS = N/A
    CONTROL BLOCKS = N/A
    GLOBAL VARIABLES (Macro pass) = N/A
-----

```

Table 419.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|--|
| (0) | STRUCTURE | 0 | DFHMPNDA | , Unloaded Performance Data Record |
| (0) | CHARACTER | 8 | PDRJOBNM | Jobname |
| (8) | CHARACTER | 8 | PDRGAPPL | Generic Applid |
| (10) | CHARACTER | 8 | PDRSAPPL | Specific Applid |
| (18) | CHARACTER | 4 | PDRSID | System identification |
| (1C) | BITSTRING | 2 | PDRRVN | Record version - x'0vrm' |
| (1E) | BITSTRING | 2 | PDRMFL | Record maintenance indicator |
| (20) | BITSTRING | 4 | | Reserved - spare |
| (24) | BITSTRING | 2 | PDRCLASS | Performance record class |
| (26) | BITSTRING | 10 | PDRSRTKY (0) | Cross system report sort key |
| (26) | BITSTRING | 2 | PDRSEQNO | Syncpoint sequence number |
| (28) | BITSTRING | 8 | PDRDETT2 | Transaction stop time |
| (30) | | 4 | PDRDATE | Stop Date (unsigned packed) |
| (34) | BITSTRING | 4 | PDRTIME | Stop Time (binary) |
| (38) | BITSTRING | 4 | PDRRESP | RESPonse Time (stop - start) |
| (3C) | BITSTRING | 4 | PDRIRESP | IRESPonse Time (resp - tciowtt) |
| (40) | BITSTRING | 4 | | Spare - reserved |
| (44) | BITSTRING | 22 | PDRDB2TK | DB2 Accounting Correlation Token |
| (5A) | BITSTRING | 2 | | Spare - reserved |
| The following fields are positionally sensitive. | | | | |
| (5C) | FULLWORD | 4 | PDRBEGIN (0) | |
| (5C) | CHARACTER | 4 | PDRTRID | Transaction identification |
| (60) | CHARACTER | 4 | PDRTEID | Terminal identification |
| (64) | CHARACTER | 8 | PDRUSID | User identification |
| (6C) | CHARACTER | 2 | PDRTRTY | Transaction start type |
| (6E) | BITSTRING | 2 | | Reserved |
| (70) | BITSTRING | 8 | PDRATTT | Task start time |
| (78) | BITSTRING | 8 | PDRDETT | Task stop time |
| (80) | BITSTRING | 4 | PDRTRSN | Transaction sequence number |
| (84) | BITSTRING | 3 | | Reserved |
| (87) | BITSTRING | 1 | PDRTPRI | Transaction priority |
| (88) | CHARACTER | 8 | PDRTCLSN | Transaction class name |
| (90) | CHARACTER | 8 | PDRLUNM | VTAM logical unit name |
| (98) | CHARACTER | 8 | PDRPGNM | First program name Originating Network Unit-of-Work Id |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|---|
| (A0) | CHARACTER | 20 | PDRNETPX | Network Unit-of-Work Netname |
| (B4) | BITSTRING | 8 | PDRNETSX | Network Unit-of-Work Instance/Seqno |
| (BC) | CHARACTER | 4 | PDRRSYS | Remote sysid routed to |
| (C0) | BITSTRING | 4 | PDRPRCNT | Performance record count |
| (C4) | BITSTRING | 8 | PDRRMUOW | Recovery Manager Unit-of-Work id |
| (CC) | CHARACTER | 8 | PDRSRVCL | Workload Manager service class name |
| (D4) | CHARACTER | 8 | PDRRPTCL | Workload Manager report class name |
| (DC) | BITSTRING | 4 | PDRFCTY | FCTYNAME - Transaction Facility name |
| (E0) | BITSTRING | 8 | PDRTRFLG (0) | TRANFLAG - Transaction Flags |
| (E0) | BITSTRING | 1 | PDRTRFL1 | Transaction Flag 1 |
| (E0) | 1... | | PDRTRFL1_NONE | "X'80'" None |
| (E0) | .1.. | | PDRTRFL1_TERM | "X'40'" Terminal Facility |
| (E0) | ..1. | | PDRTRFL1_SURR | "X'20'" Surrogate Terminal Facility |
| (E0) | ...1 | | PDRTRFL1_DEST | "X'10'" Destination Facility |
| (E0) | 1.. | | PDRTRFL1_BRDG | "X'08'" Bridge Facility EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved |
| (E1) | BITSTRING | 1 | PDRTRFL2 | Transaction Flag 2 |
| (E1) | 1... | | PDRTRFL2_SYSTEM | "X'80'" System Transaction |
| (E1) | .1.. | | PDRTRFL2_MIRROR | "X'40'" Mirror Transaction |
| (E1) | ..1. | | PDRTRFL2_DPL | "X'20'" Mirror Transaction - DPL |
| (E1) | ...1 | | PDRTRFL2_ONC_RPC | "X'10'" Alias Transaction - ONC/RPC |
| (E1) | 1.. | | PDRTRFL2_WEB | "X'08'" Alias Transaction - WEB |
| (E1) |1.. | | PDRTRFL2_BRIDGE | "X'04'" Bridge Transaction EQU X'02' Reserved |
| (E1) |1 | | PDRTRFL2_RUN_TRAN | "X'01'" BTS Run Transaction |
| (E2) | BITSTRING | 1 | PDRTRFL3 | Transaction Flag 3 |
| (E2) | 1... | | PDRTRFL3_RPT | "X'80'" WLM Report |
| (E2) | .1.. | | PDRTRFL3_NTIFY_COMP | "X'40'" WLM Notify - Completion |
| (E2) | ..1. | | PDRTRFL3_NTIFY | "X'20'" WLM Notify |
| (E3) | BITSTRING | 1 | PDRTRFL4 | Transaction Flag 4 |
| (E3) | 1... | | PDRTRFL4_LOC_BELOW | "X'80'" Taskdataloc=below |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|----------------------|---|
| (E3) | .1.. | | PDRTRFL4_CICS_KEY | "X'40'" Taskdatakey=cics |
| (E3) | ..1. | | PDRTRFL4_ISOLATE_NO | "X'20'" Isolate=no |
| (E3) | ...1 | | PDRTRFL4_DYNAMIC | "X'10'" Dynamic=yes EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved |
| (E4) | BITSTRING | 1 | PDRTRFL5 | Transaction Flag 5 - Reserved Transaction origin type |
| (E5) | BITSTRING | 1 | PDRTRFL6 | Transaction Flag 6 - Reserved |
| (E6) | BITSTRING | 1 | PDRTRFL7 | Transaction Flag 7 - Reserved |
| (E7) | BITSTRING | 1 | PDRTRFL8 | Transaction Flag 8 |
| (E7) | 1... | | PDRTRFL8_WAIT_NO | "X'80'" Indoubt wait = no |
| (E7) | .1.. | | PDRTRFL8_COMMIT | "X'40'" Indoubt action = commit |
| (E7) | ..1. | | PDRTRFL8_INDOUBT_ACT | "X'20'" UOW Indoubt action |
| (E7) | ...1 | | PDRTRFL8_UOW_SHUNT | "X'10'" UOW Shunt |
| (E7) | 1.. | | PDRTRFL8_UOW_UNSHUNT | "X'08'" UOW Unshunt |
| (E7) |1.. | | PDRTRFL8_INDBT_FAIL | "X'04'" Indoubt failure |
| (E7) |1. | | PDRTRFL8_RO_FAILURE | "X'02'" Resource Owner failure EQU X'01' Reserved |
| (E8) | BITSTRING | 4 | PDRTEINF (0) | TERMINFO - Terminal Information |
| (E8) | BITSTRING | 1 | PDRNATUR | Nature |
| (E8) | .... .... |  | PDRNATUR_NOTAPPLIC | "X'00'" Not applic |
| (E8) |1 | | PDRNATUR_TERMINAL | "X'01'" Terminal |
| (E8) |1. | | PDRNATUR_SESSION | "X'02'" Session |
| (E9) | BITSTRING | 1 | PDRSESST | Session Type |
| (E9) | .... .... |  | PDRSESST_NOTAPPLIC | "X'00'" Not applic |
| (E9) |1 | | PDRSESST_IRC | "X'01'" IRC |
| (E9) |1. | | PDRSESST_IRC_XM | "X'02'" IRC XM |
| (E9) |11 | | PDRSESST_IRC_XCF | "X'03'" IRC XCF |
| (E9) |1.. | | PDRSESST_LU61 | "X'04'" LU61 |
| (E9) |1.1 | | PDRSESST_LU62_SING | "X'05'" LU62 SINGLE |
| (E9) |11. | | PDRSESST_LU62_PARA | "X'06'" LU62 PARALLEL |
| (EA) | BITSTRING | 1 | PDRACMTH | Access method |
| (EA) | .... .... |  | PDRACMTH_NOTAPPLIC | "X'00'" Not applic |
| (EA) |1 | | PDRACMTH_VTAM | "X'01'" VTAM |
| (EA) |11 | | PDRACMTH_BSAM | "X'03'" BSAM |
| (EA) |1.. | | PDRACMTH_TCAM | "X'04'" TCAM |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---|
| (EA) |11. | | PDRACMTH_BGAM | "X'06'" BGAM |
| (EA) |111 | | PDRACMTH_CONSOLE | "X'07'" CONSOLE |
| (EB) | BITSTRING | 1 | PDRDVTCD | Device type code See TYPETERM RDO attribute |
| (EC) | CHARACTER | 4 | PDRTECNM | TERMCNM - Terminal Connection name |
| (F0) | CHARACTER | 4 | PDRBTRID | BRDGTRAN - Bridge transaction id |
| (F4) | BITSTRING | 16 | PDRURID | RRMSURID - RRMS/MVS Unit of Recovery |
| (104) | CHARACTER | 36 | PDRPNAME | PRCSNAME - Process name |
| (128) | CHARACTER | 8 | PDRPTYPE | PRCSTYPE - Process type |
| (130) | CHARACTER | 52 | PDRPRCID | PRCSID - Process id |
| (164) | CHARACTER | 52 | PDRACTID | ACTVTYID - Activity id |
| (198) | CHARACTER | 16 | PDRACTNM | ACTVTYNM - Activity name |
| (1A8) | CHARACTER | 40 | PDRICIPAD | CLIPADDR - Client IP Address |
| (1D0) | BITSTRING | 28 | PDRTGPID | TRNGRPID - Transaction Groupd Id |
| (1EC) | CHARACTER | 8 | PDRNETID | NETID - Network id |
| (1F4) | CHARACTER | 8 | PDRRLUNM | RLUNAME - Real Luname |
| (1FC) | CHARACTER | 8 | PDRTCPSV | TCPSRVCE - TCP/IP Service name |
| (204) | BITSTRING | 4 | PDRPORTN | PORTNUM - TCP/IP Port number |
| (208) | BITSTRING | 128 | PDROTSID | OTSTID - OTS Transaction id |
| (288) | BITSTRING | 4 | PDRICIPOR | CLIPPORT - Client IP Port |
| (28C) | CHARACTER | 8 | PDRISCNM | ISIPICNM - IPCONN name |
| (294) | CHARACTER | 8 | PDRONWID | Originating netwrkid |
| (29C) | CHARACTER | 8 | PDROAPID | Originating applid |
| (2A4) | BITSTRING | 8 | PDROATT | Originating task start time |
| (2AC) | CHARACTER | 4 | PDROTRSN | Originating transaction seq no |
| (2B0) | CHARACTER | 4 | PDROTRID | Originating transaction ID |
| (2B4) | CHARACTER | 8 | PDROUSID | Originating userid |
| (2BC) | CHARACTER | 64 | PDROUSRC | Originating user specific data |
| (2FC) | CHARACTER | 8 | PDROT CPS | Originating TCPIP SERVICE |
| (304) | BITSTRING | 4 | PDROPRTN | Originating portnumber |
| (308) | CHARACTER | 40 | PDROCIPA | Originating client IP address |
| (330) | BITSTRING | 4 | PDROCPNO | Originating client portnumber |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|------------------------------------|
| (334) | BITSTRING | 8 | PDROTRFG | Originating transaction flags |
| (33C) | CHARACTER | 8 | PDROFCTY | Originating facility name |
| (344) | CHARACTER | 8 | PDRURIMN | Urimap name |
| (34C) | CHARACTER | 8 | PDRPIPLN | Pipeline name |
| (354) | CHARACTER | 8 | PDRATMSN | Atomservice name |
| (35C) | CHARACTER | 32 | PDRWSVCN | Webservice name |
| (37C) | CHARACTER | 64 | PDRWSOPN | Webservice operation name |
| (3BC) | CHARACTER | 8 | PDRWPGMN | Program name |
| (3C4) | CHARACTER | 8 | PDRPHNWD | Previous Hop data networkid |
| (3CC) | CHARACTER | 8 | PDRPHAPL | Previous Hop data applid |
| (3D4) | CHARACTER | 8 | PDRPHATT | Previous Hop data task start tim |
| (3DC) | CHARACTER | 4 | PDRPHTSN | Previous Hop data trans seq no |
| (3E0) | CHARACTER | 4 | PDRPHTID | Previous Hop data transaction id |
| (3E4) | BITSTRING | 4 | PDRPHCNT | Previous Hop data count |
| (3E8) | CHARACTER | 64 | PDRADPID | Originating adapter id |
| (428) | CHARACTER | 64 | PDRADPD1 | Originating adapter data 1 |
| (468) | CHARACTER | 64 | PDRADPD2 | Originating adapter data 2 |
| (4A8) | CHARACTER | 64 | PDRADPD3 | Originating adapter data 3 |
| (4E8) | BITSTRING | 4 | PDRSOCPH | Inbound cipher selected |
| (4EC) | CHARACTER | 4 | PDRCECTP | CEC Machine Type |
| (4F0) | CHARACTER | 16 | PDRCECID | CEC Model Type |
| (500) | BITSTRING | 4 | PDRMTSKS | MXT at transaction attach |
| (504) | BITSTRING | 4 | PDRCTSKS | Current tasks at tran attach |
| (508) | CHARACTER | 64 | PDRAPPLN | Current Application Name |
| (548) | CHARACTER | 64 | PDRPLATN | Current Platform Name |
| (588) | BITSTRING | 4 | PDRMAJVR | Application Major Version |
| (58C) | BITSTRING | 4 | PDRMINVR | Application Minor Version |
| (590) | BITSTRING | 4 | PDRMICVR | Application Micro Version |
| (594) | CHARACTER | 64 | PDROPERN | Current Operation Name |
| (5D4) | BITSTRING | 4 | PDRERROR | TASKFLAG - Transaction error flags |
| (5D8) | CHARACTER | 4 | PDRABCDO | Original Transaction abend codes |
| (5DC) | CHARACTER | 4 | PDRABCDC | Current Transaction abend code |
| (5E0) | BITSTRING | 3 | | Reserved |
| (5E3) | CHARACTER | 1 | PDRRTYPE | Performance record type |
| (5E3) | 11.. ..11 | | PDRRTYPE_CONVERSE | "C'C'" Converse |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-------------------------------------|
| (5E3) | 11.. .1.. | | PDRRTYPE_DELIVER | "C'D" Deliver |
| (5E3) | 11.. .11. | | PDRRTYPE_FREQUENCY | "C'F" Frequency |
| (5E3) | 111. ..1. | | PDRRTYPE_SYNCPOINT | "C'S" Syncpoint |
| (5E3) | 111. ..11 | | PDRRTYPE_TERMINATE | "C'T" Terminate |
| (5E4) | BITSTRING | 4 | PDRPINMC | Primary TC messages - in |
| (5E8) | BITSTRING | 4 | PDRTCI1C | Primary TC characters - in |
| (5EC) | BITSTRING | 4 | PDRPOUMC | Primary TC messages - out |
| (5F0) | BITSTRING | 4 | PDRTCO1C | Primary TC characters - out |
| (5F4) | BITSTRING | 4 | PDRSINMC | Secondary TC messages - in |
| (5F8) | BITSTRING | 4 | PDRTCI2C | Secondary TC characters - in |
| (5FC) | BITSTRING | 4 | PDRSOUTC | Secondary TC messages - out |
| (600) | BITSTRING | 4 | PDRTCO2C | Secondary TC characters - out |
| (604) | BITSTRING | 4 | PDR62IMC | Secondary TC msgs for LU6.2. - in |
| (608) | BITSTRING | 4 | PDR62ICH | Secondary TC chars for LU6.2. - in |
| (60C) | BITSTRING | 4 | PDR62OMC | Secondary TC msgs for LU6.2. - out |
| (610) | BITSTRING | 4 | PDR62OCH | Secondary TC chars for LU6.2. - out |
| (614) | BITSTRING | 4 | PDRTAC | No. TCTTE allocate requests |
| (618) | BITSTRING | 4 | PDRSCUGB | User stg getmain count below 16M |
| (61C) | BITSTRING | 4 | PDRSCUGA | User stg getmain count above 16M |
| (620) | BITSTRING | 4 | PDRSCCGB | CDSA stg getmain count below 16M |
| (624) | BITSTRING | 4 | PDRSCCGA | ECDSA stg getmain count above 16M |
| (628) | BITSTRING | 4 | PDRUSHWB | User task storage HWM below 16M |
| (62C) | BITSTRING | 4 | PDRUSHWA | User task storage HWM above 16M |
| (630) | BITSTRING | 4 | PDRCHWMB | CDSA storage HWM below the 16M |
| (634) | BITSTRING | 4 | PDRCHWMA | ECDSA storage HWM above the 16M |
| (638) | BITSTRING | 8 | PDRUTSOB | User task stg "occupancy" below 16M |
| (640) | BITSTRING | 8 | PDRUTSOA | User task stg "occupancy" above 16M |
| (648) | BITSTRING | 8 | PDRCOCCB | CDSA storage "occupancy" below 16M |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (650) | BITSTRING | 8 | PDRCOCCA | ECDSA storage "occupancy" above 16M |
| (658) | BITSTRING | 4 | PDRSC24S | Shared stg getmain count below 16M |
| (65C) | BITSTRING | 4 | PDRSC24G | Shared stg bytes getmain'd |
| (660) | BITSTRING | 4 | PDRSC24F | Shared stg bytes freemain'd |
| (664) | BITSTRING | 4 | PDRSC31S | Shared stg getmain count above 16M |
| (668) | BITSTRING | 4 | PDRSC31G | Shared stg bytes getmain'd |
| (66C) | BITSTRING | 4 | PDRSC31F | Shared stg bytes freemain'd |
| (670) | BITSTRING | 4 | PDRSCCGG | No. GCDSA storage getmains |
| (674) | BITSTRING | 4 | PDRCHWMG | GCDSA storage hwm above 2G |
| (678) | BITSTRING | 4 | PDRSCUGG | No. GUDSA storage getmains |
| (67C) | BITSTRING | 4 | PDRUHWMG | GUDSA storage hwm above 2G |
| (680) | BITSTRING | 4 | PDRSC64S | Shared stg getmains |
| (684) | BITSTRING | 4 | PDRSC64G | Shared stg bytes getmain |
| (688) | BITSTRING | 4 | PDRSC64F | Shared stg bytes freemain |
| (68C) | BITSTRING | 4 | PDRPCUSE | Program storage HWM |
| (690) | BITSTRING | 4 | PDRPC31A | Program storage HWM above 16M |
| (694) | BITSTRING | 4 | PDRPCUSB | Program storage HWM below 16M |
| (698) | BITSTRING | 4 | PDRPCCAH | ECDSA CICS program storage HWM |
| (69C) | BITSTRING | 4 | PDRPCCBH | CDSA CICS program storage HWM |
| (6A0) | BITSTRING | 4 | PDRPCRAH | ERDSA R/O program storage HWM |
| (6A4) | BITSTRING | 4 | PDRPCRBH | RDSA R/O program storage HWM |
| (6A8) | BITSTRING | 4 | PDRPCSAH | ESDSA Shared program storage HWM |
| (6AC) | BITSTRING | 4 | PDRPCSBH | SDSA Shared program storage HWM |
| (6B0) | BITSTRING | 4 | PDRFCGC | No. file gets |
| (6B4) | BITSTRING | 4 | PDRFCPC | No. file puts |
| (6B8) | BITSTRING | 4 | PDRFCBC | No. file browses |
| (6BC) | BITSTRING | 4 | PDRFCAC | No. file adds |
| (6C0) | BITSTRING | 4 | PDRFCDC | No. file deletes |
| (6C4) | BITSTRING | 4 | PDRFCTC | Total FC requests |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (6C8) | BITSTRING | 4 | PDRFCAMC | No. access method requests |
| (6CC) | BITSTRING | 4 | PDRTDGC | No. transient data gets |
| (6D0) | BITSTRING | 4 | PDRTDPC | No. transient data puts |
| (6D4) | BITSTRING | 4 | PDRTDRC | No. transient data purges |
| (6D8) | BITSTRING | 4 | PDRTDTC | Total TD requests |
| (6DC) | BITSTRING | 4 | PDRTSGC | No. temp storage gets |
| (6E0) | BITSTRING | 4 | PDRTSPAC | No. temp storage puts - aux |
| (6E4) | BITSTRING | 4 | PDRTSPMC | No. temp storage puts - main |
| (6E8) | BITSTRING | 4 | PDRTSTC | Total TS requests |
| (6EC) | BITSTRING | 4 | PDRBMMC | No. BMS map requests |
| (6F0) | BITSTRING | 4 | PDRBMIC | No. BMS in requests |
| (6F4) | BITSTRING | 4 | PDRBMOC | No. BMS out requests |
| (6F8) | BITSTRING | 4 | PDRBMTC | Total BMS requests |
| (6FC) | BITSTRING | 4 | PDRPCLIC | No. program links |
| (700) | BITSTRING | 4 | PDRPCXC | No. program xctls |
| (704) | BITSTRING | 4 | PDRPCLOC | No. program loads |
| (708) | BITSTRING | 4 | PDRPCLUC | No. program links to URM's |
| (70C) | BITSTRING | 4 | PDRPCDPL | No. DPL program links |
| (710) | BITSTRING | 4 | PDRPCDLL | DPL program links with channel option data length |
| (714) | BITSTRING | 4 | PDRPCDRL | DPL program returns with channel option data length |
| (718) | BITSTRING | 4 | PDRPCLCC | No. program links with channel option |
| (71C) | BITSTRING | 4 | PDRPCXCC | No. program xctls with channel option |
| (720) | BITSTRING | 4 | PDRPCDCC | DPL program links with channel option |
| (724) | BITSTRING | 4 | PDRPCRCC | No. program returns with channel option |
| (728) | BITSTRING | 4 | PDRPCRCL | No. program returns with channel option data length |
| (72C) | BITSTRING | 4 | PDRJNLCT | No. journal write requests |
| (730) | BITSTRING | 4 | PDRLGWCT | No. CICS logger write requests |
| (734) | BITSTRING | 4 | PDRICC | No. interval control starts |
| (738) | BITSTRING | 4 | PDRICTC | Total interval control requests |
| (73C) | BITSTRING | 4 | PDRICSCC | No. interval control start reqs with channel option |
| (740) | BITSTRING | 4 | PDRICSCD | Interval control start reqs with channel option data length |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (744) | BITSTRING | 4 | PDRICSRC | No. interval control start reqs with channel option - remote |
| (748) | BITSTRING | 4 | PDRICSRD | Interval control start reqs with channel option data length - remote |
| (74C) | BITSTRING | 4 | PDRSPPC | No. syncpoint requests |
| (750) | BITSTRING | 4 | PDRCFAC | No. OO Class Library API requests |
| (754) | BITSTRING | 4 | PDRSZACT | No. FEPI allocates |
| (758) | BITSTRING | 4 | PDRSZRCT | No. FEPI receives |
| (75C) | BITSTRING | 4 | PDRSZSCT | No. FEPI sends |
| (760) | BITSTRING | 4 | PDRSZTCT | No. FEPI starts |
| (764) | BITSTRING | 4 | PDRSZCOT | No. chars sent via FEPI |
| (768) | BITSTRING | 4 | PDRSZCIN | No. chars received via FEPI |
| (76C) | BITSTRING | 4 | PDRSZATO | No. FEPI allocate timeouts |
| (770) | BITSTRING | 4 | PDRSZRTO | No. FEPI receive timeouts |
| (774) | BITSTRING | 4 | PDRSZTOT | Total no. FEPI requests |
| (778) | BITSTRING | 4 | PDRBARSC | No. Run Process/Activity Sync |
| (77C) | BITSTRING | 4 | PDRBARAC | No. Run Process/Activity Async |
| (780) | BITSTRING | 4 | PDRBALKC | No. Link Process/Activity reqs |
| (784) | BITSTRING | 4 | PDRBADPC | No. Define Process requests |
| (788) | BITSTRING | 4 | PDRBADAC | No. Define Activity requests |
| (78C) | BITSTRING | 4 | PDRBTPAC | No. Reset Process/Activity reqs |
| (790) | BITSTRING | 4 | PDRBSPAC | No. Suspend Process/Activity reqs |
| (794) | BITSTRING | 4 | PDRBRPAC | No. Resume Process/Activity reqs |
| (798) | BITSTRING | 4 | PDRBDCPC | No. Delete/Cancel requests |
| (79C) | BITSTRING | 4 | PDRBAAPC | No. Acquire Process requests |
| (7A0) | BITSTRING | 4 | PDRBATPC | Total No. Process/Activity reqs |
| (7A4) | BITSTRING | 4 | PDRBAPDC | No. Process Container requests |
| (7A8) | BITSTRING | 4 | PDRBAADC | No. Activity Container requests |
| (7AC) | BITSTRING | 4 | PDRBATCC | Total No. Container requests |
| (7B0) | BITSTRING | 4 | PDRBAREC | No. Reattach Event requests |
| (7B4) | BITSTRING | 4 | PDRBADIC | No. Define Input Event requests |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (7B8) | BITSTRING | 4 | PDRBATAC | No. Timer Associated Event requests |
| (7BC) | BITSTRING | 4 | PDRBATEC | Total no. Event requests |
| (7C0) | BITSTRING | 4 | PDRWBRCT | No. WEB Receive requests |
| (7C4) | BITSTRING | 4 | PDRWBCIN | No. Characters received via WEB reqs |
| (7C8) | BITSTRING | 4 | PDRWBSCT | No. WEB Send requests |
| (7CC) | BITSTRING | 4 | PDRWBCOT | No. Characters sent via WEB requests |
| (7D0) | BITSTRING | 4 | PDRWBTC | Total No. WEB requests |
| (7D4) | BITSTRING | 4 | PDRWBRPR | No. Repository Reads |
| (7D8) | BITSTRING | 4 | PDRWBRPW | No. Repository Writes |
| (7DC) | BITSTRING | 4 | PDRWBERC | No. WEB Extract requests |
| (7E0) | BITSTRING | 4 | PDRWBBRC | No. WEB Browse requests |
| (7E4) | BITSTRING | 4 | PDRWBRRRC | No. WEB Read requests |
| (7E8) | BITSTRING | 4 | PDRWBWRC | No. WEB Write requests |
| (7EC) | BITSTRING | 4 | PDRDHCRC | No. Document Create requests |
| (7F0) | BITSTRING | 4 | PDRDHINC | No. Document Insert requests |
| (7F4) | BITSTRING | 4 | PDRDHSTC | No. Document Set requests |
| (7F8) | BITSTRING | 4 | PDRDHRTC | No. Document Retrieve requests |
| (7FC) | BITSTRING | 4 | PDRDHDLC | No. Document Delete requests |
| (800) | BITSTRING | 4 | PDRDHTC | Total No. Document requests |
| (804) | BITSTRING | 4 | PDRDHTDL | Total Document Created length |
| (808) | BITSTRING | 4 | PDRSOBEN | No. Bytes Encrypted |
| (80C) | BITSTRING | 4 | PDRSOBDE | No. Bytes Decrypted |
| (810) | BITSTRING | 4 | PDRSOERC | No. Extract TCP/IP and Extract Certificate requests |
| (814) | BITSTRING | 4 | PDRSOCNS | No. Create Non-Persistent Socket req |
| (818) | BITSTRING | 4 | PDRSOCPS | No. Create Persistent Socket req |
| (81C) | BITSTRING | 4 | PDRSONHW | Non-Persistent Socket HWM |
| (820) | BITSTRING | 4 | PDRSOPHW | Persistent Socket HWM |
| (824) | BITSTRING | 4 | PDRSORCT | No. Socket Receive requests |
| (828) | BITSTRING | 4 | PDRSOCIN | No. Characters received |
| (82C) | BITSTRING | 4 | PDRSOSCT | No. Socket Send requests |
| (830) | BITSTRING | 4 | PDRSOCOT | No. Characters sent |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (834) | BITSTRING | 4 | PDRSOTC | Total No. Socket requests |
| (838) | BITSTRING | 4 | PDRSOIMC | No. Inbound Socket Receive reqs |
| (83C) | BITSTRING | 4 | PDRSOI1C | No. Inbound Socket Characters rcv'd |
| (840) | BITSTRING | 4 | PDRSOOMC | No. Inbound Socket Send reqs |
| (844) | BITSTRING | 4 | PDRSOO1C | No. Inbound Socket Characters sent |
| (848) | BITSTRING | 4 | PDRIMSRC | Total No. IMS requests |
| (84C) | BITSTRING | 4 | PDRDB2RC | Total No. DB2 requests |
| (850) | BITSTRING | 4 | PDRWMQRC | Total No. WebSphere MQ requests |
| (854) | BITSTRING | 4 | PDRTCBAC | No. CICS Dispatcher TCB Attach's |
| (858) | BITSTRING | 4 | PDRDSTHW | CICS Dispatcher TCB HWM |
| (85C) | BITSTRING | 4 | PDRWBROC | No. Web Read requests |
| (860) | BITSTRING | 4 | PDRWBWOC | No. Web Write requests |
| (864) | BITSTRING | 4 | PDRWBIRC | No. Web Receive requests |
| (868) | BITSTRING | 4 | PDRWBI1C | No. Bytes received by Web reqs |
| (86C) | BITSTRING | 4 | PDRWBOSC | No. Web Send requests |
| (870) | BITSTRING | 4 | PDRWBO1C | No. Bytes sent by Web send reqs |
| (874) | BITSTRING | 4 | PDRWBPRC | No. Web Parse requests |
| (878) | BITSTRING | 4 | PDRWBBOC | No. Web Browse requests |
| (87C) | BITSTRING | 4 | PDRWBIWC | No. Invoke Webservice requests |
| (880) | BITSTRING | 4 | PDRWBRDL | Repository Read data length |
| (884) | BITSTRING | 4 | PDRWBWDL | Repository Write data length |
| (888) | BITSTRING | 4 | PDRPGCTC | Total No. channel data container requests |
| (88C) | BITSTRING | 4 | PDRPGBCC | No. Browse container channel requests |
| (890) | BITSTRING | 4 | PDRPGGCC | No. Get container channel requests |
| (894) | BITSTRING | 4 | PDRPGPCC | No. Put container channel requests |
| (898) | BITSTRING | 4 | PDRPGMCC | No. Move container channel requests |
| (89C) | BITSTRING | 4 | PDRPGGCL | Get container channel data length |
| (8A0) | BITSTRING | 4 | PDRPGPCL | Put container channel data length |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (8A4) | BITSTRING | 4 | PDRPGCCC | No. Containers created |
| (8A8) | BITSTRING | 4 | PDRPGCSH | Container Storage HWM |
| (8AC) | BITSTRING | 4 | PDRISACT | No. IPCONN allocate requests |
| (8B0) | BITSTRING | 4 | PDREICTC | Total No. EXEC CICS requests |
| (8B4) | BITSTRING | 4 | PDRECSGE | No. SIGNAL EVENT requests |
| (8B8) | BITSTRING | 4 | PDRECFOC | No. Event Filter operations |
| (8BC) | BITSTRING | 4 | PDRECEVC | No. EVENTS captured |
| (8C0) | BITSTRING | 4 | PDRECSEC | No. synchronous emission EVENTS |
| (8C4) | BITSTRING | 4 | PDRTIATC | No. EXEC CICS ASKTIME requests |
| (8C8) | BITSTRING | 4 | PDRTITC | Total No. EXEC xxxxxxTIME reqs |
| (8CC) | BITSTRING | 4 | PDRBFDGC | No. BIF DIGEST requests |
| (8D0) | BITSTRING | 4 | PDRBFTC | Total No. BIF requests |
| (8D4) | BITSTRING | 4 | PDRMLTDL | Total document length |
| (8D8) | BITSTRING | 4 | PDRMLXTC | No. EXEC CICS TRANSFORM requests |
| (8DC) | BITSTRING | 4 | PDRWSCBC | No. WSACONTEXT BUILD requests |
| (8E0) | BITSTRING | 4 | PDRWSCGC | No. WSACONTEXT GET requests |
| (8E4) | BITSTRING | 4 | PDRWSEPC | No. WSAEPR CREATE requests |
| (8E8) | BITSTRING | 4 | PDRWSATC | Total No. WS-Addressing requests |
| (8EC) | BITSTRING | 4 | PDRWSFCC | No. SOAPFAULT CREATE requests |
| (8F0) | BITSTRING | 4 | PDRWSFTC | Total No. SOAPFAULT requests |
| (8F4) | BITSTRING | 4 | PDRWSSFC | No. INVOKE xxxSERVICE SOAP flts |
| (8F8) | BITSTRING | 4 | PDRWSQBL | SOAP request body length |
| (8FC) | BITSTRING | 4 | PDRWSRBL | SOAP response body length |
| (900) | BITSTRING | 4 | PDRMPPTX | Managed Platform - Policy rule thresholds exceeded |
| (904) | BITSTRING | 12 | PDRDIST | User task dispatch time |
| (910) | BITSTRING | 12 | PDRCPUT | User task cpu time |
| (91C) | BITSTRING | 12 | PDRONCPT | Cpu time on standard cp |
| (928) | BITSTRING | 12 | PDROFCPT | Offload on standard cp |
| (934) | BITSTRING | 12 | PDRSUST | Task suspend time |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------------|
| (940) | BITSTRING | 12 | PDRDWT | Dispatch wait time |
| (94C) | BITSTRING | 12 | PDRQRDSP | User task QR Mode dispatch time |
| (958) | BITSTRING | 12 | PDRQRCPU | User task QR Mode cpu time |
| (964) | BITSTRING | 12 | PDRMSDSP | User task Other Mode dispatch time |
| (970) | BITSTRING | 12 | PDRMSCPU | User task Other Mode cpu time |
| (97C) | BITSTRING | 12 | PDRRODSP | User task RO Mode dispatch time |
| (988) | BITSTRING | 12 | PDRROCPU | User task RO Mode cpu time |
| (994) | BITSTRING | 12 | PDRKY8DS | User task Key 8 Mode Dispatch time |
| (9A0) | BITSTRING | 12 | PDRKY8CP | User task Key 8 Mode Cpu time |
| (9AC) | BITSTRING | 12 | PDRKY9DS | User task Key 9 Mode Dispatch time |
| (9B8) | BITSTRING | 12 | PDRKY9CP | User task Key 9 Mode Cpu time |
| (9C4) | BITSTRING | 12 | PDRL8CPU | User task L8 Mode cpu time |
| (9D0) | BITSTRING | 12 | PDRL9CPU | User task L9 Mode cpu time |
| (9DC) | BITSTRING | 12 | PDRS8CPU | User task S8 Mode cpu time |
| (9E8) | BITSTRING | 12 | PDRX8CPU | User task X8 Mode cpu time |
| (9F4) | BITSTRING | 12 | PDRX9CPU | User task X9 Mode cpu time |
| (A00) | BITSTRING | 12 | PDRT8CPU | User task T8 Mode cpu time |
| (A0C) | BITSTRING | 12 | PDRQRDLY | QR Mode delay time |
| (A18) | BITSTRING | 12 | PDROTDLY | Max Open TCB delay time |
| (A24) | BITSTRING | 12 | PDRXTDLY | Max XPLink TCB delay time |
| (A30) | BITSTRING | 12 | PDRSTDLY | Max SSL TCB delay time |
| (A3C) | BITSTRING | 12 | PDRTTDLY | Max Thrd TCB delay time |
| (A48) | BITSTRING | 12 | PDRDSMWT | Dispatcher TCB Mismatch wait time |
| (A54) | BITSTRING | 12 | PDRCMDLY | CICS TCB Change Mode delay time |
| (A60) | BITSTRING | 12 | PDREXWT | Exception wait time |
| (A6C) | BITSTRING | 12 | PDRTCWT | TC i/o wait time |
| (A78) | BITSTRING | 12 | PDRFCWT | FC i/o wait time |
| (A84) | BITSTRING | 12 | PDRFCXWT | FC exclusive ctrl wait time |
| (A90) | BITSTRING | 12 | PDRFCSWT | FC VSAM string wait time |
| (A9C) | BITSTRING | 12 | PDRJCWT | JC i/o wait time |
| (AA8) | BITSTRING | 12 | PDRTSWT | TS i/o wait time |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (AB4) | BITSTRING | 12 | PDRIRWT | IR i/o wait time |
| (AC0) | BITSTRING | 12 | PDRTDWT | TD i/o wait time |
| (ACC) | BITSTRING | 12 | PDRPCLT | Program load time |
| (AD8) | BITSTRING | 12 | PDRFDDLY | 1st Dispatch delay - TCLASS, MXT, etc |
| (AE4) | BITSTRING | 12 | PDRFDTCL | 1st Dispatch delay due to TCLASS |
| (AF0) | BITSTRING | 12 | PDRFDMXT | 1st Dispatch delay due to MXT |
| (AFC) | BITSTRING | 12 | PDRNQDLY | Local ENQ delay time |
| (B08) | BITSTRING | 12 | PDRGQDLY | Global ENQ delay time |
| (B14) | BITSTRING | 12 | PDR61WT | LU61 i/o wait time |
| (B20) | BITSTRING | 12 | PDR62WT | LU62 i/o wait time |
| (B2C) | BITSTRING | 12 | PDRSZWT | FEPI suspend time |
| (B38) | BITSTRING | 12 | PDRRMIT | Total RMI elapsed time |
| (B44) | BITSTRING | 12 | PDRRMIS | Total RMI suspend time |
| (B50) | BITSTRING | 12 | PDRSYNCT | Syncpoint elapsed time |
| (B5C) | BITSTRING | 12 | PDRRLSWT | RLS wait time |
| (B68) | BITSTRING | 12 | PDRRLSCP | RLS SRB CPU time |
| (B74) | BITSTRING | 12 | PDRLMDLY | Lock Mgr delay time |
| (B80) | BITSTRING | 12 | PDRWTXWT | External wait time |
| (B8C) | BITSTRING | 12 | PDRWCEWT | Cics/Event wait time |
| (B98) | BITSTRING | 12 | PDRICDLY | Interval control delay time |
| (BA4) | BITSTRING | 12 | PDRGVPWT | Give up control wait time |
| (BB0) | BITSTRING | 12 | PDRTSHWT | Shared TS wait time |
| (BBC) | BITSTRING | 12 | PDRCDTWT | CF Data Table wait time |
| (BC8) | BITSTRING | 12 | PDRSYWTT | Server Syncpoint wait time |
| (BD4) | BITSTRING | 12 | PDRRRSWT | RRMS/MVS wait time |
| (BE0) | BITSTRING | 12 | PDRRTRWT | Run Transaction wait time |
| (BEC) | BITSTRING | 12 | PDRSYDLY | Syncpoint delay time |
| (BF8) | BITSTRING | 12 | PDRSOWT | Socket I/O wait time |
| (C04) | BITSTRING | 12 | PDRIMSWT | IMS wait time |
| (C10) | BITSTRING | 12 | PDRRDQWT | DB2 Readyq wait time |
| (C1C) | BITSTRING | 12 | PDRCONWT | DB2 Connection wait time |
| (C28) | BITSTRING | 12 | PDRMQGWT | WebSphere MQ Getwait wait time |
| (C34) | BITSTRING | 12 | PDRJVMT | Total JVM elapsed time |
| (C40) | BITSTRING | 12 | PDRJVMS | Total JVM suspend time |
| (C4C) | BITSTRING | 12 | PDRSOOWT | Outbound Socket I/O wait time |
| (C58) | BITSTRING | 12 | PDRRQRWT | Request Receiver wait time |

Table 419. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---|
| (C64) | BITSTRING | 12 | PDRRQPWT | Request Processor wait time |
| (C70) | BITSTRING | 12 | PDROIDWT | OTS Indoubt wait time |
| (C7C) | BITSTRING | 12 | PDRJVMIT | JVM elapsed time - initialise |
| (C88) | BITSTRING | 12 | PDRJVMRT | JVM elapsed time - resetting |
| (C94) | BITSTRING | 12 | PDRPTPWT | Partner wait time |
| (CA0) | BITSTRING | 12 | PDRDSCWT | DS storage constraint wait time |
| (CAC) | BITSTRING | 12 | PDRISWT | IS IPCONN I/O wait time |
| (CB8) | BITSTRING | 12 | PDRJSTWT | JVMSERVER thread wait time |
| (CC4) | BITSTRING | 12 | PDRMQAST | WebSphere MQ API SRB time |
| (CD0) | BITSTRING | 12 | PDRTDILW | TD intra lock wait time |
| (CDC) | BITSTRING | 12 | PDRTDELW | TD extra lock wait time |
| (CE8) | BITSTRING | 12 | PDRRODLY | RO TCB delay time |
| (CF4) | BITSTRING | 12 | PDRSODLY | SO TCB delay time |
| (D00) | BITSTRING | 12 | PDRISAWT | IS allocate wait time |
| (D0C) | BITSTRING | 12 | PDRTCAWT | TC allocate wait time |
| (D18) | FULLWORD | 4 | PDRUEND (0) | |
| (D18) | | 0 | MNPDRLN | "*-DFHMPDA" Performance Data Record length |

MNR - Transaction resource monitoring data

```

CONTROL BLOCK NAME = DFHMNRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHMNRPS
DESCRIPTIVE NAME = CICS TS Monitoring Resource Record Descriptions
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 2002, 2012
FUNCTION =
    Monitoring Resource record descriptions.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
INNER CONTROL BLOCKS = None
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = one
    GLOBAL VARIABLES (Macro pass) = None
    
```

Table 420.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHMRNRS | , Monitoring Resource Record |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | MNR_LENGTH | Length of resource data |
| (0) | .1.. 1111 | | MNR_ID_EQUATE | "79" Monitoring domain id mask |
| (2) | ADDRESS | 2 | MNR_ID | Monitoring domain id |
| (2) |1 | | MNR_VERSION | "X'01" DSECT version mask |
| (4) | CHARACTER | 1 | MNR_DSECT_VERS | DSECT version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | BITSTRING | 48 | MNR_HEADER (0) | Header Data |
| (8) | HALFWORD | 2 | MNR_HDRLN | Length of header data |
| (A) | BITSTRING | 2 | | Reserved |
| (C) | BITSTRING | 8 | | Reserved |
| (14) | HALFWORD | 2 | MNR_TRN | Number of record triplets |
| (16) | BITSTRING | 2 | | Reserved |
| (18) | BITSTRING | 4 | MNR_ISO | Offset to ID data |
| (1C) | BITSTRING | 2 | MNR_ISL | Length of ID entry |
| (1E) | BITSTRING | 2 | MNR_ISN | Number of ID entries |
| (20) | BITSTRING | 4 | MNR_FSO | Offset to File data |
| (24) | BITSTRING | 2 | MNR_FSL | Length of File entry |
| (26) | BITSTRING | 2 | MNR_FSN | Number of File entries |
| (28) | BITSTRING | 4 | MNR_TSO | Offset to TSQueue data |
| (2C) | BITSTRING | 2 | MNR_TSL | Length of TSQueue entry |
| (2E) | BITSTRING | 2 | MNR_TSN | Number of TSQueue entries |
| (30) | BITSTRING | 4 | MNR_DSO | Offset to DPL data |
| (34) | BITSTRING | 2 | MNR_DSL | Length of DPL entry |
| (36) | BITSTRING | 2 | MNR_DSN | Number of DPL entries |
| (36) | ..11 | | MNR_HDR_LENGTH | "*-MNR_HEADER" Header data length |

Table 421.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|---------------------------|
| (0) | STRUCTURE | 0 | MNR_ID_DATA | Identification Data Entry |
| (0) | CHARACTER | 4 | MNR_ID_TRANID | Transaction id |
| (4) | CHARACTER | 4 | MNR_ID_TERMID | Terminal id |
| (8) | CHARACTER | 8 | MNR_ID_USERID | User id |
| (10) | CHARACTER | 4 | MNR_ID_STYPE | Transaction Start type |
| (14) | BITSTRING | 8 | MNR_ID_START | Transaction Start time |
| (1C) | BITSTRING | 8 | MNR_ID_STOP | Transaction Stop time |

Table 421. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-------------|-----|-----------------------------|---|
| (24) | BITSTRING | 4 | MNR_ID_TASKNO | Transaction Sequence Number |
| (28) | CHARACTER | 8 | MNR_ID_LUNAME | VTAM Luname |
| (30) | CHARACTER | 8 | MNR_ID_PGMNAME | First program name |
| (38) | BITSTRING | 20 | MNR_ID_UOW_PX | Network Unit-of-Work Prefix |
| (4C) | BITSTRING | 8 | MNR_ID_UOW_SX | Network Unit-of-Work Suffix |
| (54) | CHARACTER | 4 | MNR_ID_RSYSID | Remote sysid routed to |
| (58) | BITSTRING | 8 | MNR_ID_TRN_FLAGS | Transaction flags |
| (60) | CHARACTER | 4 | MNR_ID_FCTYNAME | Transaction Facility name |
| (64) | CHARACTER | 4 | MNR_ID_RTYPE | Resource Record Type |
| (68) | BITSTRING | 4 | MNR_ID_TERMINFO (0) | Terminal Information |
| (68) | BITSTRING | 1 | MNR_ID_NATURE | Nature |
| (68) | .... .... |  | MNR_ID_NATURE_ NOTAPPLIC | "X'00'" Not applic |
| (68) |1 | | MNR_ID_NATURE_ TERMINAL | "X'01'" Terminal |
| (68) |1. | | MNR_ID_NATURE_ SESSION | "X'02'" Session |
| (69) | BITSTRING | 1 | MNR_ID_SESSTYPE | Session Type |
| (69) | .... .... |  | MNR_ID_SESSTYPE_ NOTAPPLIC | "X'00'" Not applic |
| (69) |1 | | MNR_ID_SESSTYPE_ IRC | "X'01'" IRC |
| (69) |1. | | MNR_ID_SESSTYPE_ IRC_ XM | "X'02'" IRC XM |
| (69) |11 | | MNR_ID_SESSTYPE_ IRC_ XCF | "X'03'" IRC XCF |
| (69) |1.. | | MNR_ID_SESSTYPE_ LU61 | "X'04'" LU61 |
| (69) |1.1 | | MNR_ID_SESSTYPE_ LU62_SING | "X'05'" LU62 SINGLE |
| (69) |11. | | MNR_ID_SESSTYPE_ LU62_PARA | "X'06'" LU62 PARALLEL |
| (6A) | BITSTRING | 1 | MNR_ID_ACMETH | Access method |
| (6A) | .... .... |  | MNR_ID_ACMETH_ NOTAPPLIC | "X'00'" Not applic |
| (6A) |1 | | MNR_ID_ACMETH_ VTAM | "X'01'" VTAM |
| (6A) |11 | | MNR_ID_ACMETH_ BSAM | "X'03'" BSAM |
| (6A) |1.. | | MNR_ID_ACMETH_ TCAM | "X'04'" TCAM |
| (6A) |11. | | MNR_ID_ACMETH_ BGAM | "X'06'" BGAM |
| (6A) |111 | | MNR_ID_ACMETH_ CONSOLE | "X'07'" CONSOLE |
| (6B) | BITSTRING | 1 | MNR_ID_DEVCODE | Device type code See TYPETERM RDO attribute |
| (6C) | CHARACTER | 4 | MNR_ID_TERMCNNM | Terminal Connection name |
| (70) | BITSTRING | 4 | MNR_ID_RES_FLAGS (0) | Resource flags |
| (70) | BITSTRING | 1 | MNR_ID_RES_FLAG1 | Resource flag 1 |
| (70) | 1... | | MNR_FILE_LIMIT_ EXCEEDED | "X'80'" Resource File limit exceeded |
| (70) | .1.. | | MNR_TSQUEUE_LIMIT_ EXCEEDED | "X'40'" Resource TSQueue limit exceeded |

Table 421. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|---|
| (70) | ..1. | | MNR_DPL_LIMIT_ EXCEEDED | "X'20" Resource DPL limit exceeded |
| (71) | BITSTRING | 3 | | Reserved |
| (74) | BITSTRING | 8 | MNR_ID_ISIPICNM | IPCONN name |
| (7C) | BITSTRING | 8 | | Reserved |
| (84) | BITSTRING | 8 | | Reserved |
| (8C) | CHARACTER | 40 | MNR_ID_CLIPADDR | Client IP Address |
| (B4) | CHARACTER | 8 | MNR_ID_ORIGIN_NETWORKID | Originating networked |
| (BC) | CHARACTER | 8 | MNR_ID_ORIGIN_APPLID | Originating applid |
| (C4) | BITSTRING | 8 | MNR_ID_ORIGIN_ATT_ TIME | Originating task start time |
| (CC) | CHARACTER | 4 | MNR_ID_ORIGIN_TRANNUM | Originating tran seq no |
| (D0) | CHARACTER | 4 | MNR_ID_ORIGIN_TRANID | Originating tran id |
| (D4) | CHARACTER | 8 | MNR_ID_ORIGIN_USERID | Originating userid |
| (DC) | CHARACTER | 64 | MNR_ID_ORIGIN_USER_ CORR | Originating user data |
| (11C) | CHARACTER | 8 | MNR_ID_ORIGIN_TCPIPSERV | Originating TCPIP SERVICE |
| (124) | BITSTRING | 4 | MNR_ID_ORIGIN_PORTNUM | Originating portnumber |
| (128) | CHARACTER | 40 | MNR_ID_ORIGIN_CLIPADDR | Originating Client IP address |
| (150) | BITSTRING | 4 | MNR_ID_ORIGIN_CLIPPORT | Originating client portnum |
| (154) | BITSTRING | 8 | MNR_ID_ORIGIN_TRANFLAG | Originating tran flags |
| (15C) | CHARACTER | 8 | MNR_ID_ORIGIN_FCTYNAME | Originating facility name |
| (164) | CHARACTER | 8 | | Reserved |
| (16C) | CHARACTER | 8 | MNR_PHD_NETWORKID | Previous Hop data networkid |
| (174) | CHARACTER | 8 | MNR_PHD_APPLID | Previous Hop data applid |
| (17C) | CHARACTER | 8 | MNR_PHD_ATTACH_TIME | Previous Hop data task start |
| (184) | CHARACTER | 4 | MNR_PHD_TRANNUM | Previous Hop data tran seqno |
| (188) | CHARACTER | 4 | MNR_PHD_TRANID | Previous Hop data tranid |
| (18C) | BITSTRING | 4 | MNR_PHD_COUNT | Previous Hop data count |
| (190) | CHARACTER | 4 | | Reserved |
| (194) | CHARACTER | 28 | MNR_ID_TRNGRPID | Transaction group id |
| (1B0) | CHARACTER | 4 | | Reserved |
| (1B0) | | 0 | MNR_ID_LENGTH | "*-MNR_ID_DATA" Identification entry data length |

Table 422.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|---------------------|
| (0) | STRUCTURE | 0 | MNR_FILE_ENTRY | File Entry |
| (0) | CHARACTER | 8 | MNR_FILE_NAME | File name |
| (8) | BITSTRING | 8 | MNR_FILE_GET | File Get time/count |

Table 422. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---|
| (10) | BITSTRING | 8 | MNR_FILE_PUT | File Put time/count |
| (18) | BITSTRING | 8 | MNR_FILE_BRWSE | File Browse time/count |
| (20) | BITSTRING | 8 | MNR_FILE_ADD | File Add time/count |
| (28) | BITSTRING | 8 | MNR_FILE_DEL | File Delete time/count |
| (30) | BITSTRING | 8 | MNR_FILE_TOTAL | File Total time/count |
| (38) | BITSTRING | 4 | MNR_FILE_AM_RQ | File Access Method request count |
| (3C) | BITSTRING | 4 | | Reserved |
| (40) | BITSTRING | 8 | MNR_FILE_IO_WT | File I/O wait time |
| (48) | BITSTRING | 8 | MNR_RLS_FILE_IO_WT | RLS File I/O wait time |
| (50) | BITSTRING | 8 | MNR_CFDI_IO_WT | CFDI I/O wait time |
| (58) | BITSTRING | 8 | MNR_FILE_XC_WT | File exclusive wait |
| (60) | BITSTRING | 8 | MNR_FILE_VS_WT | File VSAM string wait |
| (68) | BITSTRING | 8 | | Reserved |
| (68) | .111 | | MNR_FILE_LEN | "*-MNR_FILE_ENTRY" File entry data length |

Table 423.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|---|
| (0) | STRUCTURE | 0 | MNR_TSQUEUE_ENTRY | TSQueue Entry |
| (0) | CHARACTER | 16 | MNR_TSQUEUE_NAME | TSQueue Name |
| (10) | BITSTRING | 8 | MNR_TSQUEUE_GET | TSQueue Get time/count |
| (18) | BITSTRING | 8 | MNR_TSQUEUE_PUT_AUX | TSQueue Put Aux time/count |
| (20) | BITSTRING | 8 | MNR_TSQUEUE_PUT_MAIN | TSQueue Put Main time/count |
| (28) | BITSTRING | 8 | MNR_TSQUEUE_TOTAL | TSQueue Total time/count |
| (30) | BITSTRING | 4 | | Reserved |
| (34) | BITSTRING | 4 | MNR_TSQUEUE_GET_ITEML | TSQueue Get Item length |
| (38) | BITSTRING | 4 | MNR_TSQUEUE_PUT_AUX_ITEML | TSQueue Put Aux Item length |
| (3C) | BITSTRING | 4 | MNR_TSQUEUE_PUT_MAIN_ITEML | TSQueue Put Main Item length |
| (40) | BITSTRING | 8 | | Reserved |
| (48) | BITSTRING | 8 | MNR_TSQUEUE_IO_WT | TSQueue I/O wait time |
| (50) | BITSTRING | 8 | MNR_SHR_TSQUEUE_IO_WT | Shared TSQueue I/O wait time |
| (58) | BITSTRING | 8 | | Reserved |
| (58) | .11. | | MNR_TSQUEUE_LEN | "*-MNR_TSQUEUE_ENTRY" TSQueue entry data length |

Table 424.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|---|
| (0) | STRUCTURE | 0 | MNR_DPL_ENTRY | DPL Entry |
| (0) | CHARACTER | 8 | MNR_DPL_PROGRAM_NAME | DPL Program Name |
| (8) | CHARACTER | 4 | MNR_DPL_SYSID | DPL Sysid |
| (C) | CHARACTER | 4 | | Reserved |
| (10) | BITSTRING | 8 | | Reserved |
| (18) | BITSTRING | 4 | MNR_DPL_LINK_REQS | DPL LINK requests |
| (1C) | BITSTRING | 4 | | Reserved |
| (1C) | ..1. | | MNR_DPL_LEN | "*-MNR_DPL_ENTRY" DPL entry data length |

MNSMF - SMF header and SMF product section

```

MACRO NAME = DFHMNSMF
DESCRIPTIVE NAME = CICS TS SMF Header and SMF Product Section
                    for Monitoring
                    Licensed Materials - Property of IBM
                    Restricted Materials of IBM
                    5655-Y04
                    (C) Copyright IBM Corp. 1986, 2005
FUNCTION =
    TO GENERATE THE SMF HEADER AND SMF PRODUCT SECTION DSECT
    FOR THE MONITORING SMF RECORDS.
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    REGISTER CONVENTIONS = None
    MODULE TYPE = DSECT DEFINITION MACRO
    ATTRIBUTES = N/A
-----
PURPOSE = GENERATE THE DSECT FOR THE MONITORING RECORD SMF HEADER
          AND SMF PRODUCT SECTION.
CALLERS = DFH$MOLS
SYNTAX = <name> DFHMNSMF <TYPE=xxx>
INPUTS = NONE
OUTPUTS = DEFINITION FOR SMF HEADER AND SMF PRODUCT SECTION
RETURN CODES = NONE
PROGRAMMING NOTES = NONE
-----
OPERAND = TYPE=xxx
          FUNCTION = To provide an overriding field name prefix.
          DEFAULT = None
          RESTRICTIONS = None
          NOTES = None
          EXAMPLES
              TYPE=ABC
MACRO MESSAGES =
    DFHMNSMF - INVALID OVERRIDING PREFIX
MACRO EXAMPLES =
GENERATED CODE = NONE
-----
EXTERNAL REFERENCES = NONE
MACROS (MACRO PASS) = NONE
ROUTINES (GENERATED CODE) = NONE
DATA AREAS (GENERATED CODE) = NONE
CONTROL BLOCKS (GENERATED CODE) = NONE
GLOBAL VARIABLES (MACRO PASS) = NONE

```

Table 425.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | MNSMFDS | |
| | | | | |
| (0) | BITSTRING | 2 | SMFMNLEN | RECORD LENGTH |
| (2) | BITSTRING | 2 | SMFMNSEG | SEGMENT DESCRIPTOR |
| (4) | BITSTRING | 1 | SMFMNFLG | OPERATING SYSTEM INDICATOR |
| (4) | 11.. | | SMFMNESA | "X'C0" SMF SYSTEM INDICATOR |
| (5) | BITSTRING | 1 | SMFMNRTY | RECORD TYPE 110 FOR CICS |
| (6) | BITSTRING | 4 | SMFMNTME | TIME RECORD MOVED |
| (A) | BITSTRING | 4 | SMFMNDTE | DATE RECORD MOVED |
| (E) | BITSTRING | 4 | SMFMNSID | SYSTEM IDENTIFICATION |
| (12) | CHARACTER | 4 | SMFMNSSI | SUB-SYSTEM IDENTIFICATION |
| (16) | BITSTRING | 2 | SMFMNSTY | RECORD SUBTYPE - X'0000' FOR JOURNALING - X'0001' FOR MONITORING - X'0002' FOR STATISTICS |
| (18) | BITSTRING | 2 | SMFMNTRN | NUMBER OF TRIPLETS IN RECORD |
| (1A) | BITSTRING | 2 | | RESERVED |
| (1C) | BITSTRING | 4 | SMFMNAPS | OFFSET TO CICS PRODUCT SECTION |
| (20) | BITSTRING | 2 | SMFMNLPS | LENGTH OF CICS PRODUCT SECTION |
| (22) | BITSTRING | 2 | SMFMNNPS | NUMBER OF CICS PRODUCT SECTIONS |
| (24) | BITSTRING | 4 | SMFMNASS | OFFSET TO CICS DATA SECTION |
| (28) | BITSTRING | 2 | SMFMNASL | LENGTH OF CICS DATA SECTION |
| (2A) | BITSTRING | 2 | SMFMNASN | NUMBER OF CICS DATA SECTIONS |
| END OF SMF-HEADER START OF SMF PRODUCT-SECTION ... | | | | |
| (2C) | BITSTRING | 2 | SMFMNRVN | RECORD VERSION, FORMAT X'0VRM' V = VERSION R = RELEASE M = MODIFICATION |
| (2E) | CHARACTER | 8 | SMFMNPRN | PRODUCT NAME (APPLID) |
| (36) | CHARACTER | 8 | SMFMNSPN | SPECIFIC APPLID |
| (3E) | BITSTRING | 2 | SMFMNMFL | RECORD MAINTENANCE INDICATOR |

Table 425. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------|-----------|-----|------------|-------------------------------------|
| (40) | BITSTRING | 2 | | RESERVED |
| (42) | BITSTRING | 2 | SMFMNCL | CLASS OF DATA |
| (44) | BITSTRING | 4 | SMFMNDCA | OFFSET TO CICS FIELD CONNECTORS |
| (48) | BITSTRING | 2 | SMFMNDCL | LENGTH OF EACH CICS FIELD CONNECTOR |
| (4A) | BITSTRING | 2 | SMFMNDCN | NUMBER OF CICS FIELD CONNECTORS |
| (4C) | BITSTRING | 4 | SMFMNDRA | OFFSET TO FIRST CICS DATA RECORD |
| (50) | BITSTRING | 2 | SMFMNDRL | LENGTH OF EACH CICS DATA RECORD |
| (52) | BITSTRING | 2 | SMFMNDRN | NUMBER OF CICS DATA RECORDS |
| (54) | BITSTRING | 18 | | Reserved |
| (66) | BITSTRING | 2 | SMFMNCRL | Compressed record length |
| (68) | BITSTRING | 4 | SMFMNTAD | Local TOD clock adjustment value |
| (6C) | BITSTRING | 8 | SMFMNLISO | Leap Second Offset TOD format |
| (74) | BITSTRING | 8 | SMFMNDTO | Local Time/Date Offset |
| (7C) | BITSTRING | 1 | | RESERVED |
| (7D) | BITSTRING | 1 | SMFMNOPN | Monitoring Options |
| (7E) | CHARACTER | 8 | SMFMNJB | JOBNAME |
| (86) | BITSTRING | 4 | SMFMNRSD | JOB DATE |
| (8A) | BITSTRING | 4 | SMFMNRST | JOB TIME |
| (8E) | CHARACTER | 8 | SMFMNUIF | USER IDENTIFICATION |
| (96) | CHARACTER | 8 | SMFMNPDN | OPERATING SYSTEM PRODUCT LEVEL |
| ... END OF SMF PRODUCT-SECTION. | | | | |

MNT - Transaction monitoring data

CONTROL BLOCK NAME = DFHMNTDS
NAME OF MATCHING PL/AS CONTROL BLOCK = DFHMNTPS
DESCRIPTIVE NAME = CICS TS Transaction Monitoring data
copybook

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5655-Y04

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FUNCTION = This copybook describes a transaction monitoring data record. The record is built by the monitoring domain. There is one record for each transaction.

LIFETIME = The storage for a record is obtained when a request is made for transaction monitoring data. It is released when the request has been satisfied.

LOCATION = The caller is passed a pointer to the head of the record.

INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = In monitoring domain
 GLOBAL VARIABLES (Macro pass) = None

Table 426.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (0) | STRUCTURE | 0 | DFHMTDS | , |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | MNTLEN | Length of data |
| (0) | .1.1 .1.. | | MNTIDE | "84" Monitoring domain id mask |
| (2) | ADDRESS | 2 | MNTID | Monitoring domain id |
| (2) |1 | | MNTVERS | "X'01'" DSECT version mask |
| (4) | CHARACTER | 1 | MNTDVERS | DSECT version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | HALFWORD | 2 | TMRBEGIN (0) | |
| (8) | CHARACTER | 4 | TMRTRID | TRAN - Transaction identification |
| (C) | CHARACTER | 4 | TMRTEID | TERM - Terminal identification |
| (10) | CHARACTER | 8 | TMRUSID | USERID - User identification |
| (18) | CHARACTER | 4 | TMRTRTY | TTYTYPE - Transaction type |
| (1C) | CHARACTER | 8 | TMRATTT | START - Task start time |
| (24) | CHARACTER | 8 | TMRDETT | STOP - Task stop time |
| (2C) | CHARACTER | 4 | TMRTRSN | TRANNUM - Transaction sequence number |
| (30) | BITSTRING | 4 | TMRTPRI | TRANPRI - Transaction priority |
| (34) | CHARACTER | 8 | TMRTCLSN | TCLSNNAME - Transaction class name |
| (3C) | CHARACTER | 8 | TMRLUNM | LUNAME - VTAM logical unit name |
| (44) | CHARACTER | 8 | TMRPGNM | PGMNAME - First program name Originating Network Unit-of-Work Id |
| (4C) | CHARACTER | 20 | TMRNETPX | NETUOWPX - Network Unit-of-Work Netname |
| (60) | BITSTRING | 8 | TMRNETSX | NETUOWSX - Network Unit-of-Work Instance/Seqno |
| (68) | CHARACTER | 4 | TMRRSYS | RSYSID - Remote sysid routed to |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|--|
| (6C) | BITSTRING | 4 | TMRPRCNT | PERRECNT - Performance record count |
| (70) | CHARACTER | 8 | TMRRMUOW | RMUOWID - Recovery Manager Unit-of-Work id |
| (78) | CHARACTER | 8 | TMRSRVCL | SRVCLSNM - Workload Manager service class name |
| (80) | CHARACTER | 8 | TMRRPTCL | RPTCLSNM - Workload Manager report class name |
| (88) | CHARACTER | 4 | TMRFCTY | FCTYNAME - Transaction Facility name |
| (8C) | BITSTRING | 8 | TMRTFLG (0) | TRANFLAG - Transaction flags |
| (8C) | BITSTRING | 1 | TMRTFL1 | Transaction Flag 1 |
| (8C) | 1... .. | | TMRTFL1_NONE | "X'80'" None |
| (8C) | .1.. .. | | TMRTFL1_TERM | "X'40'" Terminal Facility |
| (8C) | ..1. | | TMRTFL1_SURR | "X'20'" Surrogate Terminal Facility |
| (8C) | ...1 | | TMRTFL1_DEST | "X'10'" Destination Facility |
| (8C) | 1... | | TMRTFL1_BRDG | "X'08'" Bridge Facility EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved |
| (8D) | BITSTRING | 1 | TMRTFL2 | Transaction Flag 2 |
| (8D) | 1... .. | | TMRTFL2_SYSTEM | "X'80'" System Transaction |
| (8D) | .1.. .. | | TMRTFL2_MIRROR | "X'40'" Mirror Transaction |
| (8D) | ..1. | | TMRTFL2_DPL | "X'20'" Mirror Transaction - DPL |
| (8D) | ...1 | | TMRTFL2_ONC_RPC | "X'10'" Alias Transaction - ONC/RPC |
| (8D) | 1... | | TMRTFL2_WEB | "X'08'" Alias Transaction - WEB |
| (8D) |1.. | | TMRTFL2_BRIDGE | "X'04'" Bridge Transaction EQU X'02' Reserved |
| (8D) |1 | | TMRTFL2_RUN_TRAN | "X'01'" BTS Run Transaction |
| (8E) | BITSTRING | 1 | TMRTFL3 | Transaction Flag 3 |
| (8E) | 1... .. | | TMRTFL3_RPT | "X'80'" WLM Report |
| (8E) | .1.. .. | | TMRTFL3_NTFY_COMP | "X'40'" WLM Notify - Completion |
| (8E) | ..1. | | TMRTFL3_NTFY | "X'20'" WLM Notify |
| (8F) | BITSTRING | 1 | TMRTFL4 | Transaction Flag 4 |
| (8F) | 1... .. | | TMRTFL4_LOC_BELOW | "X'80'" Taskdataloc=below |
| (8F) | .1.. .. | | TMRTFL4_CICS_KEY | "X'40'" Taskdatakey=cics |
| (8F) | ..1. | | TMRTFL4_ISOLATE_NO | "X'20'" Isolate=no |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|----------------------|---|
| (8F) | ...1 | | TMRTRFL4_DYNAMIC | "X'10'" Dynamic=yes EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved |
| (90) | BITSTRING | 1 | TMRTRFL5 | Transaction Flag 5 Transaction origin type |
| (91) | BITSTRING | 1 | TMRTRFL6 | Transaction Flag 6 - Reserved |
| (92) | BITSTRING | 1 | TMRTRFL7 | Transaction Flag 7 - Reserved |
| (93) | BITSTRING | 1 | TMRTRFL8 | Transaction Flag 8 |
| (93) | 1... | | TMRTRFL8_WAIT_NO | "X'80'" Indoubt wait = no |
| (93) | .1.. | | TMRTRFL8_COMMIT | "X'40'" Indoubt action = commit |
| (93) | ..1. | | TMRTRFL8_INDOUBT_ACT | "X'20'" UOW Indoubt action |
| (93) | ...1 | | TMRTRFL8_UOW_SHUNT | "X'10'" UOW Shunt |
| (93) | 1... | | TMRTRFL8_UOW_UNSHUNT | "X'08'" UOW Unshunt |
| (93) |1.. | | TMRTRFL8_INDBT_FAIL | "X'04'" Indoubt failure |
| (93) |1. | | TMRTRFL8_RO_FAILURE | "X'02'" Resource Owner failure EQU X'01' Reserved |
| (94) | BITSTRING | 4 | TMRTEINF (0) | TERMINFO - Terminal Information |
| (94) | BITSTRING | 1 | TMRNATUR | Nature |
| (94) | .... .... |  | TMRNATUR_NOTAPPLIC | "X'00'" Not applic |
| (94) |1 | | TMRNATUR_TERMINAL | "X'01'" Terminal |
| (94) |1. | | TMRNATUR_SESSION | "X'02'" Session |
| (95) | BITSTRING | 1 | TMRSESST | Session Type |
| (95) | .... .... |  | TMRSESST_NOTAPPLIC | "X'00'" Not applic |
| (95) |1 | | TMRSESST_IRC | "X'01'" IRC |
| (95) |1. | | TMRSESST_IRC_XM | "X'02'" IRC XM |
| (95) |11 | | TMRSESST_IRC_XCF | "X'03'" IRC XCF |
| (95) |1.. | | TMRSESST_LU61 | "X'04'" LU61 |
| (95) |1.1 | | TMRSESST_LU62_SING | "X'05'" LU62 SINGLE |
| (95) |11. | | TMRSESST_LU62_PARA | "X'06'" LU62 PARALLEL |
| (96) | BITSTRING | 1 | TMRACMTH | Access method |
| (96) | .... .... |  | TMRACMTH_NOTAPPLIC | "X'00'" Not applic |
| (96) |1 | | TMRACMTH_VTAM | "X'01'" VTAM |
| (96) |11 | | TMRACMTH_BSAM | "X'03'" BSAM |
| (96) |1.. | | TMRACMTH_TCAM | "X'04'" TCAM |
| (96) |11. | | TMRACMTH_BGAM | "X'06'" BGAM |
| (96) |111 | | TMRACMTH_CONSOLE | "X'07'" CONSOLE |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (97) | BITSTRING | 1 | TMRDVTCD | Device type code See TYPETERM RDO attribute |
| (98) | CHARACTER | 4 | TMRTECNM | TERMCONM - Terminal Connection name |
| (9C) | CHARACTER | 4 | TMRBTRID | BRDGTRAN - Bridge Transaction id |
| (A0) | CHARACTER | 16 | TMRURID | RRMSURID - RRMS/MVS Unit of Recovery id |
| (B0) | CHARACTER | 36 | TMRPNAME | PRCSNAME - Process name |
| (D4) | CHARACTER | 8 | TMRPTYPE | PRCSTYPE - Process type |
| (DC) | CHARACTER | 52 | TMRPRCID | PRCSID - Process id |
| (110) | CHARACTER | 52 | TMRACTID | ACTVTYID - Activity id |
| (144) | CHARACTER | 16 | TMRACTNM | ACTVTYNM - Activity name |
| (154) | CHARACTER | 40 | TMRCIPAD | CLIPADDR - Client IP Address |
| (17C) | BITSTRING | 28 | TMRTGPID | TRNGRPID - Transaction Group Id |
| (198) | CHARACTER | 8 | TMRNETID | NETID - Network id |
| (1A0) | CHARACTER | 8 | TMRRLUNM | RLUNAME - Real Luname |
| (1A8) | CHARACTER | 8 | TMRTCPV | TCPSRVCE - TCP/IP Service name |
| (1B0) | BITSTRING | 4 | TMRPORTN | PORTNUM - TCP/IP Service port number |
| (1B4) | BITSTRING | 128 | TMROTSID | OTSTID - OTS Transaction id |
| (234) | BITSTRING | 4 | TMRCIPOR | CLIPPORT - Client IP Port |
| (238) | CHARACTER | 8 | TMRISCNM | ISIPICNM - IPCONN name |
| (240) | CHARACTER | 8 | TMRONWID | ONETWKID - Originating networkid |
| (248) | CHARACTER | 8 | TMROAPID | OAPPLID - Originating applid |
| (250) | CHARACTER | 8 | TMROATT | OSTART - Originating task start time |
| (258) | CHARACTER | 4 | TMROTRSN | OTRANNUM - Originating transaction seq no |
| (25C) | CHARACTER | 4 | TMROTRID | OTRAN - Originating transaction id |
| (260) | CHARACTER | 8 | TMROUSID | OUSERID - Originating userid |
| (268) | CHARACTER | 64 | TMROUSRC | OUSERCOR - Originating user specific data |
| (2A8) | CHARACTER | 8 | TMROTCPS | OTCPSVCE - Originating TCIPSERVICE |
| (2B0) | BITSTRING | 4 | TMROPRTN | OPORTNUM - Originating portnumber |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (2B4) | CHARACTER | 40 | TMROCIPA | OCLIPADR - Originating client IP address |
| (2DC) | BITSTRING | 4 | TMROCPNO | OCLIPORT - Originating client portnumber |
| (2E0) | BITSTRING | 8 | TMROTRFG | OTRANFLG - Originating transaction flags |
| (2E8) | CHARACTER | 8 | TMROFCTY | OFCTYNME - Originating facility name |
| (2F0) | CHARACTER | 8 | TMRURIMN | WBURIMNM - Urimap name |
| (2F8) | CHARACTER | 8 | TMRPIPLN | WBPIPLNM - Pipeline name |
| (300) | CHARACTER | 8 | TMRATMSN | WBATMSNM - Atomservice name |
| (308) | CHARACTER | 32 | TMRWSVCN | WBSVCENM - Webservice name |
| (328) | CHARACTER | 64 | TMRWSOPN | WBSVOPNM - Webservice operation name |
| (368) | CHARACTER | 8 | TMRWPBMN | WBPROGNM - Program name |
| (370) | CHARACTER | 8 | TMRPHNWD | PHNTWKID - Previous Hop data networkid |
| (378) | CHARACTER | 8 | TMRPHAPL | PHAPPLID - Previous Hop data applid |
| (380) | CHARACTER | 8 | TMRPHATT | PHSTART - Previous Hop data task start time |
| (388) | CHARACTER | 4 | TMRPHTSN | PHTRANNO - Previous Hop data trans seq no |
| (38C) | CHARACTER | 4 | TMRPHTID | PHTRAN - Previous Hop data transaction id |
| (390) | BITSTRING | 4 | TMRPHCNT | PHCOUNT - Previous Hop data count |
| (394) | CHARACTER | 64 | TMRADPID | OADID - Originating adapter id |
| (3D4) | CHARACTER | 64 | TMRADPD1 | OADATA1 - Originating adapter data 1 |
| (414) | CHARACTER | 64 | TMRADPD2 | OADATA2 - Originating adapter data 2 |
| (454) | CHARACTER | 64 | TMRADPD3 | OADATA3 - Originating adapter data 3 |
| (494) | BITSTRING | 4 | TMRSOCPH | SOCIPHER - Inbound cipher selected |
| (498) | CHARACTER | 4 | TMRCECTP | CECMCHTP - CEC Machine Type |
| (49C) | CHARACTER | 16 | TMRCECID | CECMDLID - CEC Model ID |
| (4AC) | BITSTRING | 4 | TMRMTSKS | MAXTASKS - MXT at transaction attach |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---|
| (4B0) | BITSTRING | 4 | TMRCTSKS | CURTASKS - Current tasks at tran attach |
| (4B4) | CHARACTER | 64 | TMRAPPLN | ACAPPLNM - Current Application Name |
| (4F4) | CHARACTER | 64 | TMRPLATN | ACPLATNM - Current Platform Name |
| (534) | BITSTRING | 4 | TMRMAJVR | ACMAJVER - Application Major Version # |
| (538) | BITSTRING | 4 | TMRMINVR | ACMINVER - Application Minor Version # |
| (53C) | BITSTRING | 4 | TMRMICVR | ACMICVER - Application Micro Version # |
| (540) | CHARACTER | 64 | TMROPERN | ACOPERNM - Current Operation Name |
| (580) | CHARACTER | 4 | TMRERROR | TASKFLAG - Transaction error flags |
| (584) | CHARACTER | 4 | TMRABCD0 | ABCODE0 - Original Transaction abend codes |
| (588) | CHARACTER | 4 | TMRABCDC | ABCODEC - Current Transaction abend code |
| (58C) | CHARACTER | 4 | TMRTYPE | RTYPE - Record type |
| (58C) | 11.. ..11 | | TMRRTYPE_CONVERSE | "C'C'" Converse |
| (58C) | 11.. .1.. | | TMRRTYPE_DELIVER | "C'D'" Deliver |
| (58C) | 11.. .11. | | TMRRTYPE_FREQUENCY | "C'F'" Frequency |
| (58C) | 111. .1. | | TMRRTYPE_SYNCPOINT | "C'S'" Syncpoint |
| (58C) | 111. ..11 | | TMRRTYPE_TERMINATE | "C'T'" Terminate |
| (590) | BITSTRING | 4 | TMRPINMC | TCMSGIN1 - Primary TC messages - in |
| (594) | BITSTRING | 4 | TMRTCI1C | TCCHRIN1 - Primary TC characters - in |
| (598) | BITSTRING | 4 | TMRPOUMC | TCMSGOU1 - Primary TC messages - out |
| (59C) | BITSTRING | 4 | TMRTCO1C | TCCHROU1 - Primary TC characters - out |
| (5A0) | BITSTRING | 4 | TMR SINMC | TCMSGIN2 - Secondary TC messages - in |
| (5A4) | BITSTRING | 4 | TMRTCI2C | TCCHRIN2 - Secondary TC characters - in |
| (5A8) | BITSTRING | 4 | TMR SOUMC | TCMSGOU2 - Secondary TC messages - out |
| (5AC) | BITSTRING | 4 | TMRTCO2C | TCCHROU2 - Secondary TC characters - out |
| (5B0) | BITSTRING | 4 | TMR62IMC | TCM62IN2 - Secondary TC msgs for LU6.2. - in |
| (5B4) | BITSTRING | 4 | TMR62ICH | TCC62IN2 - Secondary TC chars for LU6.2. - in |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (5B8) | BITSTRING | 4 | TMR62OMC | TCM62OU2 - Secondary TC msgs for LU6.2. - out |
| (5BC) | BITSTRING | 4 | TMR62OCH | TCC62OU2 - Secondary TC chars for LU6.2. - out |
| (5C0) | BITSTRING | 4 | TMRTAC | TCALLOCT - No. TCTTE allocate requests |
| (5C4) | BITSTRING | 4 | TMRSCUGB | SCUGETCT - No. user storage getmains below line |
| (5C8) | BITSTRING | 4 | TMRSCUGA | - No. user storage getmains above line |
| (5CC) | BITSTRING | 4 | TMRSCCGB | SCCGETCT - No. CDSA storage getmains below line |
| (5D0) | BITSTRING | 4 | TMRSCCGA | - No. ECDSA storage getmains above line |
| (5D4) | BITSTRING | 4 | TMRUSHWB | SCUSRHWM - User task storage hwm below line |
| (5D8) | BITSTRING | 4 | TMRUSHWA | - User task storage hwm above line |
| (5DC) | BITSTRING | 4 | TMRCHWMB | SC24CHWM - CDSA storage hwm below the line |
| (5E0) | BITSTRING | 4 | TMRCHWMA | SC31CHWM - ECDSA storage hwm above the line |
| (5E4) | BITSTRING | 8 | TMRUTSOB | SCUSRSTG - User task stge "occupancy" below line |
| (5EC) | BITSTRING | 8 | TMRUTSOA | - User task stge "occupancy" above line |
| (5F4) | BITSTRING | 8 | TMRCOCCB | SC24COCC - CDSA storage "occupancy" below line |
| (5FC) | BITSTRING | 8 | TMRCOCCA | SC31COCC - ECDSA storage "occupancy" above line |
| (604) | BITSTRING | 4 | TMRSC24S | SC24SGCT - Shared stg getmain count below 16M |
| (608) | BITSTRING | 4 | TMRSC24G | SC24GSHR - Shared stg bytes getmain'd |
| (60C) | BITSTRING | 4 | TMRSC24F | SC24FSHR - Shared stg bytes freemain'd |
| (610) | BITSTRING | 4 | TMRSC31S | SC31SGCT - Shared stg getmain count above 16M |
| (614) | BITSTRING | 4 | TMRSC31G | SC31GSHR - Shared stg bytes getmain'd |
| (618) | BITSTRING | 4 | TMRSC31F | SC31FSHR - Shared stg bytes freemain'd |
| (61C) | BITSTRING | 4 | TMRSCCGG | SC64CGCT - No. GCDSA storage getmains |
| (620) | BITSTRING | 4 | TMRCHWMG | SC64CHWM - GCDSA storage hwm above 2G |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (624) | BITSTRING | 4 | TMRSCUGG | SC64UGCT - No. GUDSA storage getmains |
| (628) | BITSTRING | 4 | TMRUHWMG | SC64UHWG - GUDSA storage hwm above 2G |
| (62C) | BITSTRING | 4 | TMRSC64S | SC64SGCT - Shared stg getmains above 2G |
| (630) | BITSTRING | 4 | TMRSC64G | SC64GSHR - Shared stg bytes getmain |
| (634) | BITSTRING | 4 | TMRSC64F | SC64FSHR - Shared stg bytes freemain |
| (638) | BITSTRING | 4 | TMRPCUSE | PCSTGHWG - Program storage hwm |
| (63C) | BITSTRING | 4 | TMRPC31A | PC31AHWG - Program storage hwm above the line |
| (640) | BITSTRING | 4 | TMRPCUSB | PC24BHWG - Program storage hwm below the line |
| (644) | BITSTRING | 4 | TMRPCCAH | PC31CHWG - ECDSA prog storage hwm above |
| (648) | BITSTRING | 4 | TMRPCCBH | PC24CHWG - CDSA prog storage hwm below |
| (64C) | BITSTRING | 4 | TMRPCRAH | PC31RHWG - R/O prog storage hwm above |
| (650) | BITSTRING | 4 | TMRPCRBH | PC24RHWG - R/O prog storage hwm below |
| (654) | BITSTRING | 4 | TMRPCSAH | PC31SHWG - Shared prog storage hwm above |
| (658) | BITSTRING | 4 | TMRPCSBH | PC24SHWG - Shared prog storage hwm below |
| (65C) | BITSTRING | 4 | TMRFCGC | FCGETCT - No. file gets |
| (660) | BITSTRING | 4 | TMRFCPC | FCPUTCT - No. file puts |
| (664) | BITSTRING | 4 | TMRFCBC | FCBRWCT - No. file browses |
| (668) | BITSTRING | 4 | TMRFCAC | FCADDCT - No. file adds |
| (66C) | BITSTRING | 4 | TMRFCDC | FCDELCT - No. file deletes |
| (670) | BITSTRING | 4 | TMRFCTC | FCTOTCT - Total FC requests |
| (674) | BITSTRING | 4 | TMRFCAMC | FCAMCT - No. access method requests |
| (678) | BITSTRING | 4 | TMRTDGC | TDGETCT - No. transient data gets |
| (67C) | BITSTRING | 4 | TMRTDPC | TDPUTCT - No. transient data puts |
| (680) | BITSTRING | 4 | TMRTDRC | TDPURCT - No. transient data purges |
| (684) | BITSTRING | 4 | TMRTDTC | TDTOTCT - Total TD requests |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (688) | BITSTRING | 4 | TMRTSGC | TSGETCT - No. temp storage gets |
| (68C) | BITSTRING | 4 | TMRTSPAC | TSPUTACT - No. temp storage puts - aux |
| (690) | BITSTRING | 4 | TMRTSPMC | TSPUTMCT - No. temp storage puts - main |
| (694) | BITSTRING | 4 | TMRTSTC | TSTOTCT - Total TS requests |
| (698) | BITSTRING | 4 | TMRBMMC | BMSMAPCT - No. BMS map requests |
| (69C) | BITSTRING | 4 | TMRBMIC | BMSINCT - No. BMS in requests |
| (6A0) | BITSTRING | 4 | TMRBMOC | BMSOUTCT - No. BMS out requests |
| (6A4) | BITSTRING | 4 | TMRBMTC | BMSTOTCT - Total BMS requests |
| (6A8) | BITSTRING | 4 | TMRPCLIC | PCLINKCT - No. program links |
| (6AC) | BITSTRING | 4 | TMRPCXC | PCXCTLCT - No. program xctls |
| (6B0) | BITSTRING | 4 | TMRPCLOC | PCLOADCT - No. program loads |
| (6B4) | BITSTRING | 4 | TMRPCLUC | PCLURMCT - No. program links to URM's |
| (6B8) | BITSTRING | 4 | TMRPCDPL | PCDPLCT - No. DPL program links |
| (6BC) | BITSTRING | 4 | TMRPCDLL | PCDLCSDL - DPL program links with channel option data length |
| (6C0) | BITSTRING | 4 | TMRPCDRL | PCDLCRDL - DPL program returns with channel option data length |
| (6C4) | BITSTRING | 4 | TMRPCLCC | PCLNKCCT - No. program links with channel option |
| (6C8) | BITSTRING | 4 | TMRPCXCC | PCXCLCCT - No. program xctls with channel option |
| (6CC) | BITSTRING | 4 | TMRPCDCC | PCDPLCCT - DPL program links with channel option |
| (6D0) | BITSTRING | 4 | TMRPCRCC | PCRTNCCT - No. program returns with channel option |
| (6D4) | BITSTRING | 4 | TMRPCRCL | PCRTNCDL - No. program returns with channel option data length |
| (6D8) | BITSTRING | 4 | TMRJNLCT | JNLWRTCT - No. journal write requests |
| (6DC) | BITSTRING | 4 | TMRLGWCT | LOGWRTCT - No. CICS logger write requests |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (6E0) | BITSTRING | 4 | TMRICC | ICPUINCT - No. interval control starts |
| (6E4) | BITSTRING | 4 | TMRICTC | ICTOTCT - Total interval control requests |
| (6E8) | BITSTRING | 4 | TMRICSCC | ICSTACCT - No. interval control start reqs with channel option |
| (6EC) | BITSTRING | 4 | TMRICSCD | ICSTACDL - Interval control start reqs with channel option data length |
| (6F0) | BITSTRING | 4 | TMRICSRC | ICSTRCCT - No. interval control start reqs with channel option - remote |
| (6F4) | BITSTRING | 4 | TMRICSRD | ICSTRCDL - Interval control start reqs with channel option data length - remote |
| (6F8) | BITSTRING | 4 | TMRSPPC | SPSYNCCT - No. syncpoint requests |
| (6FC) | BITSTRING | 4 | TMRCFACT | CFCAPICT - No. OO Class Library API requests |
| (700) | BITSTRING | 4 | TMRSZACT | SZALLOCT - No. FEPI allocates |
| (704) | BITSTRING | 4 | TMRSZRCT | SZRCVCT - No. FEPI receives |
| (708) | BITSTRING | 4 | TMRSZSCT | SZSENDCT - No. FEPI sends |
| (70C) | BITSTRING | 4 | TMRSZTCT | SZSTRCT - No. FEPI starts |
| (710) | BITSTRING | 4 | TMRSZCOT | SZCHROUT - No. chars sent via FEPI |
| (714) | BITSTRING | 4 | TMRSZCIN | SZCHRLIN - No. chars received via FEPI |
| (718) | BITSTRING | 4 | TMRSZATO | SZALLCTO - No. FEPI allocate timeouts |
| (71C) | BITSTRING | 4 | TMRSZRTO | SZRCVTO - No. FEPI receive timeouts |
| (720) | BITSTRING | 4 | TMRSZTOT | SZTOTCT - Total no. FEPI requests |
| (724) | BITSTRING | 4 | TMRBARSC | BARSYNCT - No. Run Process/Activity Sync |
| (728) | BITSTRING | 4 | TMRBARAC | BARASYCT - No. Run Process/Activity Async |
| (72C) | BITSTRING | 4 | TMRBALKC | BALKPACT - No. Link Process/Activity reqs |
| (730) | BITSTRING | 4 | TMRBADPC | BADPROCT - No. Define Process requests |
| (734) | BITSTRING | 4 | TMRBADAC | BADACTCT - No. Define Activity requests |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (738) | BITSTRING | 4 | TMRBTPAC | BARSPACT - No. Reset Process/Activity requests |
| (73C) | BITSTRING | 4 | TMRBSPAC | BASUPACT - No. Suspend Process/Activity requests |
| (740) | BITSTRING | 4 | TMRBRPAC | BARMPACT - No. Resume Process/Activity requests |
| (744) | BITSTRING | 4 | TMRBDCPC | BADCPACT - No. Delete Activity and Cancel Process or Activity requests |
| (748) | BITSTRING | 4 | TMRBAAPC | BAACQPCT - No. Acquire Process requests |
| (74C) | BITSTRING | 4 | TMRBATPC | BATOTPCT - Total No. Process/Activity requests |
| (750) | BITSTRING | 4 | TMRBAPDC | BAPRDCCT - No. Process Data Container requests |
| (754) | BITSTRING | 4 | TMRBAADC | BAACDCCT - No. Activity Data Container requests |
| (758) | BITSTRING | 4 | TMRBATCC | BATOTCCT - Total No. Data Container requests |
| (75C) | BITSTRING | 4 | TMRBAREC | BARATECT - No. Retrieve Reattach Event requests |
| (760) | BITSTRING | 4 | TMRBADIC | BADFIECT - No. Define Input Event requests |
| (764) | BITSTRING | 4 | TMRBATAAC | BATIAECT - No. Timer Associated Event requests |
| (768) | BITSTRING | 4 | TMRBATEC | BATOTECT - Total No. Event requests |
| (76C) | BITSTRING | 4 | TMRWBRCT | WBRCVCT - No. WEB Receive requests |
| (770) | BITSTRING | 4 | TMRWBCIN | WBCHRIN - No. Characters received via WEB reqs |
| (774) | BITSTRING | 4 | TMRWBSCT | WSENDCT - No. WEB Send requests |
| (778) | BITSTRING | 4 | TMRWBCOT | WBCHROUT - No. Characters sent via WEB requests |
| (77C) | BITSTRING | 4 | TMRWBTC | WBTOTCT - Total No. WEB requests |
| (780) | BITSTRING | 4 | TMRWBRPR | WBREPRCT - No. Repository Reads |
| (784) | BITSTRING | 4 | TMRWBRPW | WBREPWCT - No. Repository Writes |
| (788) | BITSTRING | 4 | TMRWBERC | WBEXTRCT - No. WEB Extract requests |
| (78C) | BITSTRING | 4 | TMRWBBRC | WBBRWCT - No. WEB Browse requests |
| (790) | BITSTRING | 4 | TMRWBRRC | WBREADCT - No. WEB Read requests |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (794) | BITSTRING | 4 | TMRWBWRC | WBWRITET - No. WEB Write requests |
| (798) | BITSTRING | 4 | TMRDHCRC | DHCRECT - No. Document Create requests |
| (79C) | BITSTRING | 4 | TMRDHINC | DHINSCT - No. Document Insert requests |
| (7A0) | BITSTRING | 4 | TMRDHSTC | DHSETCT - No. Document Set requests |
| (7A4) | BITSTRING | 4 | TMRDHRTC | DHRETCT - No. Document Retrieve requests |
| (7A8) | BITSTRING | 4 | TMRDHDLC | DHDELCT - No. Document Delete requests |
| (7AC) | BITSTRING | 4 | TMRDHTC | DHTOTCT - Total No. Document requests |
| (7B0) | BITSTRING | 4 | TMRDHTDL | DHTOTDCL - Total Document Created length |
| (7B4) | BITSTRING | 4 | TMRSOBEN | SOBYENCT - No. Bytes Encrypted |
| (7B8) | BITSTRING | 4 | TMRSOBDE | SOBYDECT - No. Bytes Decrypted |
| (7BC) | BITSTRING | 4 | TMRSOERC | SOEXTRCT - No. Extract TCP/IP and Extract Certificate requests |
| (7C0) | BITSTRING | 4 | TMRSOCNS | SOCNPST - No. Create Non-Persistent Socket reqs |
| (7C4) | BITSTRING | 4 | TMRSOCPS | SOCPSCT - No. Create Persistent Socket reqs |
| (7C8) | BITSTRING | 4 | TMRSONHW | SONPSHWM - Non-Persistent Socket HWM |
| (7CC) | BITSTRING | 4 | TMR SOPHW | SOPSHWM - Persistent Socket HWM |
| (7D0) | BITSTRING | 4 | TMRSORCT | SORCVCT - No. Socket Receive requests |
| (7D4) | BITSTRING | 4 | TMRSOCIN | SOCHRIN - No. Characters received |
| (7D8) | BITSTRING | 4 | TMR SOSCT | SOSENDCT - No. Socket Send requests |
| (7DC) | BITSTRING | 4 | TMR SOCOT | SOCHROUT - No. Characters sent |
| (7E0) | BITSTRING | 4 | TMR SOTC | SOTOTCT - Total No. Socket requests |
| (7E4) | BITSTRING | 4 | TMR SOIMC | SOMSGIN1 - No. Inbound Socket Receive reqs |
| (7E8) | BITSTRING | 4 | TMR SOI1C | SOCHRIN1 - No. Inbound Socket Characters rec'vd |
| (7EC) | BITSTRING | 4 | TMR SOOMC | SOMSGOU1 - No. Inbound Socket Send reqs |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (7F0) | BITSTRING | 4 | TMRSOO1C | SOCHROU1 - No. Inbound Socket Characters sent |
| (7F4) | BITSTRING | 4 | TMRIMSRC | IMSREQCT - Total No. IMS requests |
| (7F8) | BITSTRING | 4 | TMRDB2RC | DB2REQCT - Total No. DB2 requests |
| (7FC) | BITSTRING | 4 | TMRWMQRC | WMQREQCT - Total No. WebSphere MQ requests |
| (800) | BITSTRING | 4 | TMRTCBAC | TCBATTCT - No. CICS Dispatcher TCB Attach's |
| (804) | BITSTRING | 4 | TMRDSTHW | DSTCBHWM - CICS Dispatcher TCB HWM |
| (808) | BITSTRING | 4 | TMRWBROC | WBREDOCT - No. Web Read requests |
| (80C) | BITSTRING | 4 | TMRWBWOC | WBWRTOCT - No. Web Write requests |
| (810) | BITSTRING | 4 | TMRWBIRC | WBRCVIN1 - No. Web Receive requests |
| (814) | BITSTRING | 4 | TMRWBI1C | WBCHRN1 - No. Bytes received by Web reqs |
| (818) | BITSTRING | 4 | TMRWBOSC | WBSNDOU1 - No. Web Send requests |
| (81C) | BITSTRING | 4 | TMRWBO1C | WBCHROU1 - No. Bytes sent by Web send reqs |
| (820) | BITSTRING | 4 | TMRWBPRC | WBPARSCT - No. Web Parse requests |
| (824) | BITSTRING | 4 | TMRWBBOC | WBBRWOCCT - No. Web Browse requests |
| (828) | BITSTRING | 4 | TMRWBIWC | WBIWBSCT - No. Invoke Webservice requests |
| (82C) | BITSTRING | 4 | TMRWBRDL | WBREPRDL - Repository Read data length |
| (830) | BITSTRING | 4 | TMRWBWDL | WBREPWDL - Repository Write data length |
| (834) | BITSTRING | 4 | TMRPGCTC | PGTOTCCT - Total No. channel data container reqs |
| (838) | BITSTRING | 4 | TMRPGBCC | PGBRWCCT - No. Browse container channel requests |
| (83C) | BITSTRING | 4 | TMRPGGCC | PGGETCCT - No. Get container channel requests |
| (840) | BITSTRING | 4 | TMRPGPCC | PGPUTCCT - No. Put container channel requests |
| (844) | BITSTRING | 4 | TMRPGMCC | PGMOVCCT - No. Move container channel requests |
| (848) | BITSTRING | 4 | TMRPGGCL | PGGETCDL - Get container channel data length |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (84C) | BITSTRING | 4 | TMRPGPCL | PGPUTCDL - Put container channel data length |
| (850) | BITSTRING | 4 | TMRPGCCC | PGCRECCT - No. Containers created |
| (854) | BITSTRING | 4 | TMRPGCSH | PGCSTHWM - Container Storage HWM |
| (858) | BITSTRING | 4 | TMRISACT | ISALLOCT - No. IPCONN allocate requests |
| (85C) | BITSTRING | 4 | TMREICTC | EICTOTCT - Total No. EXEC CICS requests |
| (860) | BITSTRING | 4 | TMRECSGE | ECSIGECT - No. SIGNAL EVENT requests |
| (864) | BITSTRING | 4 | TMRECFOC | ECEFOPCT - No. Event Filter operations |
| (868) | BITSTRING | 4 | TMRECEVC | ECEVNTCT - No. EVENTS captured |
| (86C) | BITSTRING | 4 | TMRECSEC | ECSEVCCT - No. synchronous emission EVENTS |
| (870) | BITSTRING | 4 | TMRTIATC | TIASKTCT - No. EXEC CICS ASKTIME requests |
| (874) | BITSTRING | 4 | TMRTITC | TITOTCT - Total No. EXEC xxxxxxTIME reqs |
| (878) | BITSTRING | 4 | TMRBFDGC | BFDGSTCT - No. BIF DIGEST requests |
| (87C) | BITSTRING | 4 | TMRBFTC | BFTOTCT - Total No. BIF requests |
| (880) | BITSTRING | 4 | TMRMLTDL | MLXSSTDL - Total document length |
| (884) | BITSTRING | 4 | TMRMLXTC | MLXMLTCT - No. EXEC CICS TRANSFORM requests |
| (888) | BITSTRING | 4 | TMRWSCBC | WSACBLCT - No. WSACONTEXT BUILD requests |
| (88C) | BITSTRING | 4 | TMRWSCGC | WSACGTCT - No. WSACONTEXT GET requests |
| (890) | BITSTRING | 4 | TMRWSEPC | WSAEPCCCT - No. WSAEPR CREATE requests |
| (894) | BITSTRING | 4 | TMRWSATC | WSATOTCT - Total No. WS-Addressing requests |
| (898) | BITSTRING | 4 | TMRWSFCC | WBSFCRCT - No. SOAPFAULT CREATE requests |
| (89C) | BITSTRING | 4 | TMRWSFTC | WBSFTOCT - Total No. SOAPFAULT requests |
| (8A0) | BITSTRING | 4 | TMRWSSFC | WBISSFCT - No. INVOKE xxxSERVICE SOAP faults |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (8A4) | BITSTRING | 4 | TMRWSQBL | WBSREQBL - SOAP request body length |
| (8A8) | BITSTRING | 4 | TMRWSRBL | WBSRSPBL - SOAP response body length |
| (8AC) | BITSTRING | 4 | TMRMPPTX | MPPRTXCD - Managed Platform - Policy rule thresholds exceeded |
| (8B0) | BITSTRING | 12 | TMRDIST | USRDISPT - User task Dispatch time |
| (8BC) | BITSTRING | 12 | TMRCPUT | USRCPUT - User task Cpu time |
| (8C8) | BITSTRING | 12 | TMRONCPT | CPUTONCP - Cpu time on standard cp |
| (8D4) | BITSTRING | 12 | TMROFCPT | OFFLCPUT - Offload on standard cp |
| (8E0) | BITSTRING | 12 | TMRSTUST | SUSPTIME - Task Suspend time |
| (8EC) | BITSTRING | 12 | TMRDWT | DISPWTT - Dispatch Wait time |
| (8F8) | BITSTRING | 12 | TMRQRDSP | QRDISPT - User task QR Mode Dispatch time |
| (904) | BITSTRING | 12 | TMRQRCPU | QRCPUT - User task QR Mode Cpu time |
| (910) | BITSTRING | 12 | TMRMSDSP | MSDISPT - User task Other Mode Dispatch time |
| (91C) | BITSTRING | 12 | TMRMSCPU | MSCPUT - User task Other Mode Cpu time |
| (928) | BITSTRING | 12 | TMRRODSP | RODISPT - User task RO Mode Dispatch time |
| (934) | BITSTRING | 12 | TMRROCPU | ROCPUT - User task RO Mode Cpu time |
| (940) | BITSTRING | 12 | TMRKY8DS | KY8DISPT - User task Key 8 Mode Dispatch time |
| (94C) | BITSTRING | 12 | TMRKY8CP | KY8CPUT - User task Key 8 Mode Cpu time |
| (958) | BITSTRING | 12 | TMRKY9DS | KY9DISPT - User task Key 9 Mode Dispatch time |
| (964) | BITSTRING | 12 | TMRKY9CP | KY9CPUT - User task Key 9 Mode Cpu time |
| (970) | BITSTRING | 12 | TMRL8CPU | L8CPUT - User task L8 Mode Cpu time |
| (97C) | BITSTRING | 12 | TMRL9CPU | L9CPUT - User task L9 Mode Cpu time |
| (988) | BITSTRING | 12 | TMR88CPU | S8CPUT - User task S8 Mode Cpu time |
| (994) | BITSTRING | 12 | TMRX8CPU | X8CPUT - User task X8 Mode Cpu time |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (9A0) | BITSTRING | 12 | TMRX9CPU | X9CPUT - User task X9 Mode Cpu time |
| (9AC) | BITSTRING | 12 | TMRT8CPU | T8CPUT - User task T8 Mode Cpu time |
| (9B8) | BITSTRING | 12 | TMRQRDLY | QRMODDLY - QR Mode delay time |
| (9C4) | BITSTRING | 12 | TMROTDLY | MAXOTDLY - Max Open TCB delay time |
| (9D0) | BITSTRING | 12 | TMRXTDLY | MAXXTDLY - Max XPLink TCB delay time |
| (9DC) | BITSTRING | 12 | TMRSTDLY | MAXSTDLY - Max SSL TCB delay time |
| (9E8) | BITSTRING | 12 | TMRTTDLY | MAXTTDLY - Max Thrd TCB delay time |
| (9F4) | BITSTRING | 12 | TMRDSMWT | DSTCBMWT - Dispatcher TCB Mismatch wait time |
| (A00) | BITSTRING | 12 | TMRCMDLY | DSCHMDLY - CICS TCB Change Mode delay time |
| (A0C) | BITSTRING | 12 | TMREXWT | EXWTTIME - Exception wait time |
| (A18) | BITSTRING | 12 | TMRTCWT | TCIOWTT - TC i/o wait time |
| (A24) | BITSTRING | 12 | TMRFCWT | FCIOWTT - FC i/o wait time |
| (A30) | BITSTRING | 12 | TMRFCXWT | FCXCWTT - FC exclusive ctrl wait time |
| (A3C) | BITSTRING | 12 | TMRFCSWT | FCVSWTT - FC VSAM string wait time |
| (A48) | BITSTRING | 12 | TMRJCWT | JCIOWTT - JC i/o wait time |
| (A54) | BITSTRING | 12 | TMRTSWT | TSIOWTT - TS i/o wait time |
| (A60) | BITSTRING | 12 | TMRIRWT | IRIOWTT - IR i/o wait time |
| (A6C) | BITSTRING | 12 | TMRTDWT | TDIOWTT - TD i/o wait time |
| (A78) | BITSTRING | 12 | TMRPCLT | PCLOADTM - Program load time |
| (A84) | BITSTRING | 12 | TMRFDDLY | DSPDELAY - 1st Dispatch delay - TCLASS, MXT, etc |
| (A90) | BITSTRING | 12 | TMRFDTCL | TCLDELAY - 1st Dispatch delay due to TCLASS |
| (A9C) | BITSTRING | 12 | TMRFDMXT | MXTDELAY - 1st Dispatch delay due to MXT |
| (AA8) | BITSTRING | 12 | TMRNQDLY | ENQDELAY - Local ENQ delay time |
| (AB4) | BITSTRING | 12 | TMRGQDLY | GNQDELAY - Global ENQ delay time |
| (AC0) | BITSTRING | 12 | TMR61WT | LU61WTT - LU61 i/o wait time |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (ACC) | BITSTRING | 12 | TMR62WT | LU62WTT - LU62 i/o wait time |
| (AD8) | BITSTRING | 12 | TMRSZWT | SZWAIT - FEPI suspend time |
| (AE4) | BITSTRING | 12 | TMRRMIT | RMITIME - Total RMI elapsed time |
| (AF0) | BITSTRING | 12 | TMRRMIS | RMISUSP - Total RMI suspend time |
| (AFC) | BITSTRING | 12 | TMRSYNCT | SYNCTIME - Syncpoint elapsed time |
| (B08) | BITSTRING | 12 | TMRRLSWT | RLSWAIT - RLS wait time |
| (B14) | BITSTRING | 12 | TMRRLSCP | RLSCPUT - RLS SRB CPU time |
| (B20) | BITSTRING | 12 | TMRLMDLY | LMDELAY - Lock Mgr delay time |
| (B2C) | BITSTRING | 12 | TMRWTXWT | WTEXWAIT - Wait External wait time |
| (B38) | BITSTRING | 12 | TMRWCEWT | WTCEWAIT - Wait CICS/Event wait time |
| (B44) | BITSTRING | 12 | TMRICDLY | ICDELAY - Interval control delay time |
| (B50) | BITSTRING | 12 | TMRGVPWT | GVUPWAIT - Give up control wait time |
| (B5C) | BITSTRING | 12 | TMRTSHWT | TSSHWAIT - Shared TS wait time |
| (B68) | BITSTRING | 12 | TMRCDTWT | CFDTWAIT - CF Data Table wait time |
| (B74) | BITSTRING | 12 | TMRSYWTT | SRVSYWTT - Server Syncpoint wait time |
| (B80) | BITSTRING | 12 | TMRRRSWT | RRMSWAIT - RRMS/MVS wait time |
| (B8C) | BITSTRING | 12 | TMRRTRWT | RUNTRWTT - Run Transaction wait time |
| (B98) | BITSTRING | 12 | TMRSYDLY | SYNCDLY - Syncpoint delay time |
| (BA4) | BITSTRING | 12 | TMRSOWT | SOIOWTT - Socket I/O wait time |
| (BB0) | BITSTRING | 12 | TMRIMSWT | IMSWAIT - IMS wait time |
| (BBC) | BITSTRING | 12 | TMRRDQWT | DB2RDYQW - DB2 Readyq wait time |
| (BC8) | BITSTRING | 12 | TMRCONWT | DB2CONWT - DB2 Connection wait time |
| (BD4) | BITSTRING | 12 | TMRMQGWT | WMQGETWT - WebSphere MQ Getwait wait time |
| (BE0) | BITSTRING | 12 | TMRJVMT | JVMTIME - Total JVM elapsed time |

Table 426. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (BEC) | BITSTRING | 12 | TMRJVM | JVMSUSP - Total JVM suspend time |
| (BF8) | BITSTRING | 12 | TMRSOOWT | SOOIOWTT - Outbound Socket I/O wait time |
| (C04) | BITSTRING | 12 | TMRRQRWT | RQRWAIT - Request Receiver wait time |
| (C10) | BITSTRING | 12 | TMRRQPWT | RQPWAIT - Request Processor wait time |
| (C1C) | BITSTRING | 12 | TMROIDWT | OTSINDWT - OTS Indoubt wait time |
| (C28) | BITSTRING | 12 | TMRJVMIT | JVMITIME - JVM elapsed time - initialise |
| (C34) | BITSTRING | 12 | TMRJVMRT | JVMRTIME - JVM elapsed time - resetting |
| (C40) | BITSTRING | 12 | TMRPTPWT | PTPWAIT - Partner wait time |
| (C4C) | BITSTRING | 12 | TMRDSCWT | DSMMSCWT - DS storage constraint wait time |
| (C58) | BITSTRING | 12 | TMRISWT | ISIOIOWTT - IS IPCONN I/O wait time |
| (C64) | BITSTRING | 12 | TMRJSTWT | JVMTHDWT - JVMSERVER thread wait time |
| (C70) | BITSTRING | 12 | TMRMQAST | WMQASRBT - WebSphere MQ API SRB time |
| (C7C) | BITSTRING | 12 | TMRTDILW | TDILWTT - TD intra lock wait time |
| (C88) | BITSTRING | 12 | TMRTDELW | TDELWTT - TD extra lock wait time |
| (C94) | BITSTRING | 12 | TMRRODLY | ROMODDLY - RO TCB Delay time |
| (CA0) | BITSTRING | 12 | TMRSDLY | SOMODDLY - SO TCB Delay time |
| (CAC) | BITSTRING | 12 | TMRISAWT | ISALWTT - IS alloc wait time |
| (CB8) | BITSTRING | 12 | TMRTCAWT | TCALWTT - TC alloc wait time |
| (CB8) | | 0 | MNTCLEN | "*-MNTLEN" length of DSECT |

MPFEC - Policy Flattened Event

=====

EPFE - CICS Flattened Event

This copybook describes the CICS Event Processing contextual header which is included in both CICS Flattened Events (CFE) and CICS Container-based Events (CCE).

CFE events contain the contextual header, followed immediately by the captured event data. Each data item in the event is formatted according to the capture specification and added to the event data

in the order specified in the event binding.
 CCE events include this data in a context container,
 DFHEP.CCECONTEXT

=====

Table 427.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|----------------------------|
| (0) | STRUCTURE | 228 | EPFE | EPFE |
| (0) | CHARACTER | 228 | EPFE_CONTEXTDATA | Event context |
| (0) | CHARACTER | 4 | EPFE_STRUCID | Structure identifier EPFE |
| (4) | CHARACTER | 4 | EPFE_VERSION | Version |
| (8) | CHARACTER | 32 | EPFE_EVENTBINDING | Event Binding Name |
| (28) | CHARACTER | 8 | EPFE_EBUSERTAG | Event Binding user tag |
| (30) | CHARACTER | 32 | EPFE_BUSINESSEVENT | Business event name |
| (50) | CHARACTER | 54 | EPFE_NETWORKUOWID | Network UOW ID |
| (86) | CHARACTER | 17 | EPFE_NETQUALAPPLID | Network qualified applid |
| (97) | CHARACTER | 29 | EPFE_DATETIME | Capture date and time |
| (B4) | CHARACTER | 32 | EPFE_CSNAME | Capture specification name |
| (D4) | CHARACTER | 16 | * | Reserved |
| (E4) | CHARACTER | 0 | EPFE_EVENTDATA | Start of event data |

Table 428.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---------------|
| (0) | STRUCTURE | 781 | MPFE | MP Event |
| (0) | CHARACTER | 228 | MPFE_CONTEXTDATA | Event context |
| (0) | CHARACTER | 228 | EPFE_CONTEXTDATA | |
| (0) | CHARACTER | 4 | EPFE_STRUCID | |
| (4) | CHARACTER | 4 | EPFE_VERSION | |
| (8) | CHARACTER | 32 | EPFE_EVENTBINDING | |
| (28) | CHARACTER | 8 | EPFE_EBUSERTAG | |
| (30) | CHARACTER | 32 | EPFE_BUSINESSEVENT | |
| (50) | CHARACTER | 54 | EPFE_NETWORKUOWID | |
| (86) | CHARACTER | 17 | EPFE_NETQUALAPPLID | |
| (97) | CHARACTER | 29 | EPFE_DATETIME | |
| (B4) | CHARACTER | 32 | EPFE_CSNAME | |
| (D4) | CHARACTER | 16 | * | |
| (E4) | CHARACTER | 0 | EPFE_EVENTDATA | |
| (E4) | CHARACTER | 553 | MPFE_EVENTDATA | Event Data |
| (E4) | CHARACTER | 64 | MPFE_POLICY_NAME | Policy name |
| (124) | CHARACTER | 64 | MPFE_RULE_NAME | Rule name |
| (164) | CHARACTER | 16 | MPFE_RULE_TYPE | Rule type |
| (174) | CHARACTER | 16 | MPFE_RULE_CATEGORY | Rule category |
| (184) | CHARACTER | 2 | MPFE_RULE_OPERATOR | Rule operator |

Table 428. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|----------------------|-----------------------|
| (186) | CHARACTER | 16 | MPFE_RULE_THRESHOLD | Rule threshold |
| (196) | CHARACTER | 16 | MPFE_CURRENT_COUNT | Current count |
| (1A6) | CHARACTER | 64 | MPFE_PLATFORM_NAME | Platform name |
| (1E6) | CHARACTER | 64 | MPFE_APPL_NAME | Application name |
| (226) | CHARACTER | 10 | MPFE_APPL_VER_MAJOR | Application major ver |
| (230) | CHARACTER | 10 | MPFE_APPL_VER_MINOR | Application minor ver |
| (23A) | CHARACTER | 10 | MPFE_APPL_VER_MICRO | Application micro ver |
| (244) | CHARACTER | 64 | MPFE_OPERATION | Operation |
| (284) | CHARACTER | 8 | MPFE_BUNDLE_NAME | Bunle name of policy |
| (28C) | CHARACTER | 10 | MPFE_BUNDL_VER_MAJOR | Bundle major version |
| (296) | CHARACTER | 10 | MPFE_BUNDL_VER_MINOR | Bundle minor version |
| (2A0) | CHARACTER | 10 | MPFE_BUNDL_VER_MICRO | Bundle micro version |
| (2AA) | CHARACTER | 64 | MPFE_BUNDLE_ID | Id of bundle |
| (2EA) | CHARACTER | 7 | MPFE_TASK_ID | Id of task |
| 5 MPFE_tran_grp_id char(56), Task's tran grp Id | | | | |
| (2F1) | CHARACTER | 4 | MPFE_TRAN_ID | Transaction id |
| (2F5) | CHARACTER | 8 | MPFE_USER_ID | User id |
| (2FD) | CHARACTER | 8 | MPFE_PROGRAM_NAME | Program name |
| (305) | CHARACTER | 8 | MPFE_POLICY_USER_TAG | Policy user tag |

Constants

Table 429.

| Len | Type | Value | Name | Description |
|------------------------|-----------|-------|----------------|-------------|
| Values of EPFE_StrucId | | | | |
| 4 | CHARACTER | EPFE | EPFE_STRUC_ID | |
| Values of EPFE_Version | | | | |
| 4 | CHARACTER | 0001 | EPFE_VERSION_1 | |
| 4 | CHARACTER | 0002 | EPFE_VERSION_2 | |

MQG - WebSphere MQ Connection Statistics

CONTROL BLOCK NAME = DFHMQGDS
 NAME OF MATCHING PLX CONTROL BLOCK = DFHMQGPS
 DESCRIPTIVE NAME = CICS TS MQCONN Statistics
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 2006, 2009
 FUNCTION =
 This data area contains global statistics provided by
 AP Domain on the CICS/MQ connection.
 It is provided for use in users monitoring application
 to map the statistics returned via the API or the statistics
 exit.
 There is a single instance of this data block.

LIFETIME =
 This data block is created by AP to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =

LOCATION =
 The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = none

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Statistics record dsect

EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = none
 GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY, DFHMQGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 430.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------------|-----------|-----|-------------------------------|------------------------------------|
| (0) | STRUCTURE | 0 | DFHMQGDS | MQCONN statistics |
| (0) | HALFWORD | 2 | MQGLEN | Length of record |
| (2) | ADDRESS | 2 | MQGID | Record id field |
| (2) | .1.. 1.1. | | MQGIDR | "74" Record id value |
| (4) | CHARACTER | 1 | MQGDVERS | Version number |
| (4) |1 | | MQGVERS | "X'01" Current version number |
| (5) | CHARACTER | 3 | | Filler |
| MQCONN stats fields begin here | | | | |
| (8) | CHARACTER | 4 | MQG_QMGR_NAME | Queue manager name |
| (C) | CHARACTER | 4 | MQG_MQ_RELEASE | Release of MQ vvrr |
| (10) | CHARACTER | 1 | MQG_CONNECTION_STATUS | Connection status |
| (10) |1 | | MQG_CONNECTED | "X'01" Connection status connected |
| (10) |1. | | MQG_NOT_CONNECTED | "X'02" Connection status not-conn |
| (11) | CHARACTER | 1 | MQG_RESYNCMEMBER | Resyncmember setting |
| (11) | .... .... |  | MQG_RESYNCMEMBER_ RESYNC | "X'00" Resync uow's |
| (11) |1 | | MQG_RESYNCMEMBER_ NORESYNC | "X'01" Noresync uow's |
| (11) |1. | | MQG_RESYNCMEMBER_ GROUPRESYNC | "X'02" group resync |
| (12) | CHARACTER | 2 | | Filler |
| (14) | CHARACTER | 48 | MQG_INITIATION_QUEUE | Initiation queue name |
| (44) | FULLWORD | 4 | MQG_TTASKS | Number of current tasks |

Table 430. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|-------------------|---------------------------------------|
| (48) | FULLWORD | 4 | MQG_TFUTILEATT | Number of futile attempts |
| (4C) | FULLWORD | 4 | MQG_TAPI | Total number of calls |
| (50) | FULLWORD | 4 | MQG_TAPIOK | Total number of calls comp ok |
| (54) | FULLWORD | 4 | MQG_TCALL | Total number of flows |
| (58) | FULLWORD | 4 | MQG_TCALLSYNCCOMP | Total number of calls comp sync |
| (5C) | FULLWORD | 4 | MQG_TCALLIO | Total number of calls need I/O |
| (60) | FULLWORD | 4 | MQG_TWAITMSG | Total number of real GETWAIT |
| (64) | FULLWORD | 4 | MQG_TSUBTASKED | Total number of calls switched |
| (68) | FULLWORD | 4 | MQG_TOPEN | Total number of OPEN |
| (6C) | FULLWORD | 4 | MQG_TCLOSE | Total number of CLOSE |
| (70) | FULLWORD | 4 | MQG_TGET | Total number of GET |
| (74) | FULLWORD | 4 | MQG_TGETWAIT | Total number of GETWAIT |
| (78) | FULLWORD | 4 | MQG_TPUT | Total number of PUT |
| (7C) | FULLWORD | 4 | MQG_TPUT1 | Total number of PUT1 |
| (80) | FULLWORD | 4 | MQG_TINQ | Total number of INQ |
| (84) | FULLWORD | 4 | MQG_TSET | Total number of SET |
| (88) | FULLWORD | 4 | MQG_INDOUBTUOW | Count of indoubt units of work |
| (8C) | FULLWORD | 4 | MQG_UNRESOLVEDUOW | Count of unresolved units of work |
| (90) | FULLWORD | 4 | MQG_RESOLVECOMM | Count of resolved committed UOWs |
| (94) | FULLWORD | 4 | MQG_RESOLVEBACK | Count of resolved backout UOWs |
| (98) | FULLWORD | 4 | MQG_TBACKUOW | Total number of Backout UOWs |
| (9C) | FULLWORD | 4 | MQG_TCOMMUOW | Total number of Committed UOWs |
| (A0) | FULLWORD | 4 | MQG_TTASKEND | Total number of tasks |
| (A4) | FULLWORD | 4 | MQG_TSPCOMM | Total number of Single Phase Comms |
| (A8) | FULLWORD | 4 | MQG_T2PCOMM | Total number of 2 Phase Comms |
| (AC) | FULLWORD | 4 | MQG_TCB | Total number of CB |
| (B0) | FULLWORD | 4 | MQG_TCONSUME | Total number of msgs consumed |
| (B4) | FULLWORD | 4 | MQG_TCTL | Total number of CTL |
| (B8) | FULLWORD | 4 | MQG_TSUB | Total number of SUB |
| (BC) | FULLWORD | 4 | MQG_TSUBRQ | Total number of SUBRQ |

Table 430. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|----------------------------|---------------------------------------|
| (C0) | FULLWORD | 4 | MQG_TSTAT | Total number of STAT |
| (C4) | FULLWORD | 4 | MQG_TCRTMH | Total number of CRTMH |
| (C8) | FULLWORD | 4 | MQG_TDLTMH | Total number of DLTMH |
| (CC) | FULLWORD | 4 | MQG_TSETMP | Total number of SETMP |
| (D0) | FULLWORD | 4 | MQG_TINQMP | Total number of INQMP |
| (D4) | FULLWORD | 4 | MQG_TDLTMP | Total number of DLTMP |
| (D8) | FULLWORD | 4 | MQG_TMHBUF | Total number of MHBUF |
| (DC) | FULLWORD | 4 | MQG_TBUFMH | Total number of BUFMH |
| (E0) | FULLWORD | 4 | (7) | Reserved |
| (FC) | CHARACTER | 8 | MQG_MQCONN_NAME | name of the MQCONN |
| (104) | CHARACTER | 4 | MQG_MQNAME | MQNAME from the MQCONN |
| (108) | BITSTRING | 8 | MQG_CONNECT_TIME_GMT | connect time (GMT) |
| (110) | BITSTRING | 8 | MQG_CONNECT_TIME_LOCAL | connect time (local) |
| (118) | BITSTRING | 8 | MQG_DISCONNECT_TIME_GMT | disconnect time (GMT) |
| (120) | BITSTRING | 8 | MQG_DISCONNECT_TIME_LOCAL | disconnect time (local) |
| (128) | CHARACTER | 8 | MQG_MQCONN_DEFINE_SOURCE | Group installed from |
| (130) | BITSTRING | 8 | MQG_MQCONN_CHANGE_TIME | Change/create time |
| (138) | CHARACTER | 8 | MQG_MQCONN_CHANGE_USERID | Change userid |
| (140) | BITSTRING | 2 | MQG_MQCONN_CHANGE_AGENT | Change agent |
| (142) | BITSTRING | 2 | MQG_MQCONN_INSTALL_AGENT | Install agent |
| (144) | BITSTRING | 8 | MQG_MQCONN_INSTALL_TIME | Install/Create time |
| (14C) | CHARACTER | 8 | MQG_MQCONN_INSTALL_USERID | Install userid |
| (154) | BITSTRING | 4 | | Reserved |
| (154) | | 0 | MQGDS_END | "*" |
| (154) | | 0 | MQGDS_LENGTH | "*-MQGlen" MQCONN stats record length |
| Equates to test MQG_Mqconn_change_agent | | | | |
| (154) |1 | | MQG_MQCONN_CSDAPI_CHANGE | "X'01" Change Agent - CSD API |
| (154) |1. | | MQG_MQCONN_CSDBATCH_CHANGE | "X'02" Change Agent - DFHCSDUP |
| (154) |11 | | MQG_MQCONN_DREPAPI_CHANGE | "X'03" Change Agent - DREP API |
| (154) |1.. | | MQG_MQCONN_CREATE_CHANGE | "X'04" Change Agent - CREATE SPI |
| Equates to test MQG_Mqconn_install_agent | | | | |

Table 430. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|-----------------------------------|
| (154) |1 | | MQG_MQCONN_CSDAPI_INSTALL | "X'01" Install Agent - CSD API |
| (154) |1.. | | MQG_MQCONN_CREATE_INSTALL | "X'04" Install Agent - CREATE SPI |
| (154) |1.1 | | MQG_MQCONN_GRPLIST_INSTALL | "X'05" Install Agent - GRPLIST |

MRC - Transient data VSAM control

DESCRIPTIVE NAME = Transient Data VSAM Control

CICS/ESA AP Domain

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5655-Y04

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FUNCTION =

Copybook DFHMRCPS provides structures, DFHMRCB and DFHMRCB and DFHMRSB.

DFHMRCB describes the String Common Area (MRCA), only one MRCA is allocated.

DFHMRCB describes the String Control Block (MRCB), one MRCB is allocated for each VSAM string.

DFHMRSB describes the Segment Descriptor (MRSD), the number of MRSDs allocated depends on the size of the intrapartition data set.

LIFETIME =

The lifetime of the control blocks and I/O buffers is essentially that of CICS.

STORAGE CLASS =

The control blocks are located in storage allocated from the DFHTDG31 subpool.

Note that the number of VSAM strings is defined as a SIT parameter / override.

LOCATION =

The MRCA is located from the TDST.

MRCBs, if unallocated, are located on a chain whose anchor is located in the MRCA.

MRSDs are located on a chain whose anchor is located in the MRCA.

Note that the update ACB and output ACB are located from the MRCA.

Note also that the RPL and VSAM Error Message Area (VEMA) are located from the associated MRCB.

INNER CONTROL BLOCKS =

There are no inner control blocks.

NOTES :

DEPENDENCIES =

S/370

RESTRICTIONS =

There are no restrictions.

MODULE TYPE =

Control block definition.

MULTIPLE STRINGS - STRING COMMON AREA (MRCA)

Table 431.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-------------|
| (0) | STRUCTURE | 212 | DFHMRCB | |
| (0) | CHARACTER | 16 | MRCA_PREFIX | prefix |

Table 431. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|-------------|--------------------------|
| (0) | HALFWORD | 2 | MRCA_LENGTH | - length |
| (2) | CHARACTER | 1 | MRCA_ARROW | - value - '>' |
| (3) | CHARACTER | 3 | MRCA_DFH | - value - 'DFH' |
| (6) | CHARACTER | 2 | MRCA_DOMID | - value - 'TD' |
| (8) | CHARACTER | 8 | MRCA_BLOCK | - value - 'MRCA ' |
| (10) | CHARACTER | 4 | MRCA_DFP | DFP release level |
| (10) | BIT(8) | 1 | MRCA_DFP_VR | - version, release |
| (11) | BIT(8) | 1 | MRCA_DFP_M0 | - modification, 0 |
| (12) | BIT(16) | 2 | * | - reserved |
| (14) | CHARACTER | 64 | MRCA_ACB | ACB |
| (14) | CHARACTER | 8 | MRCA_DDNAME | - DDNAME |
| (1C) | CHARACTER | 44 | MRCA_DSNAME | - DSNAME |
| (48) | FULLWORD | 4 | MRCA_STR_N | - #(strings) |
| (4C) | ADDRESS | 4 | MRCA_UACB_P | - A(update ACB) |
| (50) | ADDRESS | 4 | MRCA_OACB_P | - A(output ACB) |
| (54) | CHARACTER | 24 | MRCA_DS | data set |
| (54) | FULLWORD | 4 | MRCA_CI_L | - L(control interval) |
| (58) | FULLWORD | 4 | MRCA_MIN_L | - L(user data) - minimum |
| (5C) | FULLWORD | 4 | MRCA_MAX_L | - L(user data) - maximum |
| (60) | FULLWORD | 4 | MRCA_I_RBA | - initial RBA |
| (64) | FULLWORD | 4 | MRCA_N_RBA | - next RBA |
| (68) | FULLWORD | 4 | MRCA_H_RBA | - high RBA |
| (6C) | CHARACTER | 8 | MRCA_CSM | CI status map |
| (6C) | ADDRESS | 4 | MRCA_MRSD_P | - A(first MRSD) or 0 |
| (70) | FULLWORD | 4 | MRCA_MRSD_N | - #(MRSDs allocated) |
| (74) | CHARACTER | 8 | MRCA_SRC_1 | MRCB allocation chain |
| (74) | ADDRESS | 4 | MRCA_TCA_P | - A(owning TCA) or 0 |
| (78) | ADDRESS | 4 | MRCA_MWCB_P | - A(first MWCB) or 0 |
| (7C) | CHARACTER | 8 | MRCA_SRC_2 | CI formatting chain |
| (7C) | ADDRESS | 4 | * | - A(owning TCA) or 0 |
| (80) | ADDRESS | 4 | * | - A(first MWCB) or 0 |
| (84) | CHARACTER | 4 | MRCAECB | ECB WORD |
| (84) | 1... | | * | - ECB BYTE |
| (84) | .1.. | | MRCACSMI | - CSM BUILD COMPLETE |
| (84) | BIT(22) POS(3) | 3 | * | RESERVED |
| (87) | UNSIGNED | 1 | MRCAERC1 | - RETURN CODE |
| (88) | CHARACTER | 4 | * | MRCA STATUS |
| (88) | CHARACTER | 1 | MRCAFLG0 | - DATASET |
| (88) | 1... | | MRCAOPEN | - OPENED |
| (88) | .1.. | | MRCAESDS | - VSAM ESDS |

Table 431. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (88) | ..1. | | MRCADDST | - DD STATEMENT |
| (88) | ...1 1111 | | * | - RESERVED |
| (89) | CHARACTER | 1 | MRC AFLG1 | - CONTENTS |
| (89) | 1... | | MRCAMPTY | - EMPTY (INITIALLY) |
| (89) | .1.. | | MRC AFULL | - FULL |
| (89) | ..11 1111 | | * | - RESERVED |
| (8A) | CHARACTER | 1 | MRC AFLG2 | - CSM INITIALIZATION |
| (8A) | 1... | | MRCACSMR | - REQUIRED |
| (8A) | .1.. | | MRCAC SMP | - IN PROGRESS |
| (8A) | ..1. | | MRCAC SMC | - COMPLETE |
| (8A) | ...1 1111 | | * | - RESERVED |
| (8B) | CHARACTER | 1 | MRC AFLG3 | - RESERVED |
| (8B) | BIT(8) | 1 | * | - RESERVED |
| (8C) | CHARACTER | 16 | * | MRCB CHAIN ANCHORS |
| (8C) | CHARACTER | 8 | MRCACHN1 | - UNALLOCATED CHAIN |
| (8C) | ADDRESS | 4 | MRC AFCN1 | - A(FIRST MRCB) |
| (90) | ADDRESS | 4 | MRC ABCN1 | - A(LAST MRCB) |
| (94) | CHARACTER | 8 | MRCACHNS | - STATIC CHAIN |
| (94) | ADDRESS | 4 | MRC AFCNS | - A(FIRST MRCB) |
| (98) | ADDRESS | 4 | * | - RESERVED |
| (9C) | CHARACTER | 24 | * | MRCB STATISTICS |
| (9C) | CHARACTER | 12 | * | - ALLOCATION REQUESTS |
| (9C) | FULLWORD | 4 | MRCATNAL | - TOTAL |
| (A0) | FULLWORD | 4 | MRCACNAL | - CURRENT CONCURRENT |
| (A4) | FULLWORD | 4 | MRCAMXAL | - MAXIMUM CONCURRENT |
| (A8) | CHARACTER | 12 | * | - QUEUED REQUESTS |
| (A8) | FULLWORD | 4 | MRCATNWT | - TOTAL |
| (AC) | FULLWORD | 4 | MRCACNWT | - CURRENT CONCURRENT |
| (B0) | FULLWORD | 4 | MRCAMXWT | - MAXIMUM CONCURRENT |
| (B4) | CHARACTER | 32 | * | DATASET STATISTICS |
| (B4) | FULLWORD | 4 | MRCANCIS | - CURRENT CIS FORMATTED |
| (B8) | FULLWORD | 4 | MRC ACTCI | - CURRENT CIS ALLOCATED |
| (BC) | FULLWORD | 4 | MRCAMXCI | - MAXIMUM CIS ALLOCATED |
| (C0) | FULLWORD | 4 | MRCANOSP | - NOSPACE RETURNED |
| (C4) | FULLWORD | 4 | MRC ACTPT | - PUT REQUESTS |

Table 431. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------|
| (C8) | FULLWORD | 4 | MRCACTGT | - GET REQUESTS |
| (CC) | FULLWORD | 4 | MRCACTFT | - FORMAT REQUESTS |
| (D0) | FULLWORD | 4 | MRCACTIO | - I/O ERRORS |
| (D4) | CHARACTER | 0 | * | |

MULTIPLE STRINGS - STRING CONTROL BLOCK (MRCB)

Table 432.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|------------------------------|
| (0) | STRUCTURE | 32 | DFHMRCB | |
| (0) | CHARACTER | 16 | * | MRCB chains |
| (0) | ADDRESS | 4 | MRCBFCHN | - A(next inactive MRCB) |
| (4) | ADDRESS | 4 | MRCBBCHN | - A(previous inactive MRCB) |
| (8) | ADDRESS | 4 | MRCBSCHN | - A(next static MRCB) or 0 |
| (C) | ADDRESS | 4 | * | - reserved |
| (10) | CHARACTER | 16 | * | associated control blocks |
| (10) | ADDRESS | 4 | MRCB_RPL_P | - A(RPL) |
| (14) | ADDRESS | 4 | MRCB_VEMA_P | - A(VSAM error message area) |
| (18) | ADDRESS | 4 | MRCB_MBCB_P | - A(MBCB) or 0 |
| (1C) | ADDRESS | 4 | MRCB_MWCB_P | - A(MWCB) or 0 |
| (20) | CHARACTER | 0 | * | |

CI STATUS MAP - SEGMENT DESCRIPTOR (MRSD)

Table 433.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|--------------------------|
| (0) | STRUCTURE | 576 | DFHMRSD | |
| (0) | CHARACTER | 16 | MRSD_PREFIX | prefix |
| (0) | HALFWORD | 2 | MRSD_LENGTH | - length |
| (2) | CHARACTER | 1 | MRSD_ARROW | - value - '>' |
| (3) | CHARACTER | 3 | MRSD_DFH | - value - 'DFH' |
| (6) | CHARACTER | 2 | MRSD_DOMID | - value - 'TD' |
| (8) | CHARACTER | 8 | MRSD_BLOCK | - value - 'MRSD ' |
| (10) | CHARACTER | 8 | MRSD_STATS | |
| (10) | FULLWORD | 4 | MRSD_CIS_ALLOCATED | CIs allocated |
| (14) | FULLWORD | 4 | * | Reserved |
| (18) | CHARACTER | 20 | MRSDPFIX | SEGMENT PREFIX |
| (18) | CHARACTER | 4 | MRSDPFID | - EYE CATCHER |
| (1C) | FULLWORD | 4 | MRSDPFLN | - LENGTH |
| (20) | FULLWORD | 4 | MRSDPFL | - #(FIRST CI IN SEGMENT) |

Table 433. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|--------------------------|
| (24) | FULLWORD | 4 | MRSDPFUL | - #(LAST CI IN SEGMENT) |
| (28) | ADDRESS | 4 | MRSDPFCN | - A(NEXT SEGMENT) OR 0 |
| (2C) | CHARACTER | 512 | * | SEGMENT DATA |
| (2C) | CHARACTER | 256 | MRSDSEGM | - MASTER AS SCALAR |
| (2C) | CHARACTER | 1 | MRSDSARM (255:341936488) | - MASTER AS ARRAY |
| (12C) | CHARACTER | 256 | MRSDSEGB | - BACK-UP AS SCALAR |
| (12C) | CHARACTER | 1 | MRSDSARB (255:341933088) | - BACK-UP AS ARRAY |
| (22C) | CHARACTER | 20 | MRSDSFIX | SEGMENT SUFFIX |
| (22C) | CHARACTER | 4 | MRSDSFID | - EYE CATCHER |
| (230) | FULLWORD | 4 | MRSDSFLN | - LENGTH |
| (234) | FULLWORD | 4 | MRSDSFLI | - #(FIRST CI IN SEGMENT) |
| (238) | FULLWORD | 4 | MRSDSFUL | - #(LAST CI IN SEGMENT) |
| (23C) | ADDRESS | 4 | MRSDSFCN | - A(NEXT SEGMENT) OR 0 |
| (240) | CHARACTER | 0 | * | |

Constants

Table 434.

| Len | Type | Value | Name | Description |
|-----|------|-------|-------------|-------------|
| 1 | HEX | 21 | MRCA_DFP_21 | - V2 R1 |
| 1 | HEX | 22 | MRCA_DFP_22 | - V2 R2 |
| 1 | HEX | 23 | MRCA_DFP_23 | - V2 R3 |

MWCB - Transient data wait control

DESCRIPTIVE NAME = Transient Data Wait Control

CICS/ESA AP Domain

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5655-Y04

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FUNCTION =

Copybook DFHMWCPS provides structure DFHMWCB.

DFHMWCB describes the Wait Control Block (MWCB),

a MWCB is allocated on an as required basis.

LIFETIME =

The lifetime of the control block is essentially

that of the wait. They are allocated when it is

necessary to suspend a task and freed when the task is

resumed.

STORAGE CLASS =

The control block is located in storage allocated

from the DFHTDWCBS subpool.

LOCATION =

The MWCB is located from

1. a DCTE

2. the MBCA

3. a MBCB

2. the MRCA

3. a MRCB

depending on the event being waited on.
 INNER CONTROL BLOCKS =
 There are no inner control blocks.
 NOTES :
 DEPENDENCIES =
 S/370
 RESTRICTIONS =
 There are no restrictions.
 MODULE TYPE =
 Control block definition.
 MULTIPLE BUFFERS - WAIT CONTROL BLOCK (MWCB)

Table 435.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|------------------------|
| (0) | STRUCTURE | 40 | DFHMCWB | |
| (0) | CHARACTER | 16 | MWCB_PREFIX | prefix |
| (0) | HALFWORD | 2 | MWCB_LENGTH | - length |
| (2) | CHARACTER | 1 | MWCB_ARROW | - value - '>' |
| (3) | CHARACTER | 3 | MWCB_DFH | - value - 'DFH' |
| (6) | CHARACTER | 2 | MWCB_DOMID | - value - 'TD' |
| (8) | CHARACTER | 8 | MWCB_BLOCK | - value - 'MWCB ' |
| (10) | ADDRESS | 4 | MWCB_MWCB_P | A(next MWCB) or 0 |
| (14) | FULLWORD | 4 | MWCB_TASK_TOKEN | - task token |
| (18) | ADDRESS | 4 | MWCB_SR_TOK | - SUSPEND/RESUME token |
| (1C) | CHARACTER | 4 | MWCB_TXN_NUMBER | - Owning txn number |
| (20) | BIT(8) | 1 | MWCB_TDQ_FLAG | |
| (20) | 1111 111. | | * | |
| (20) |1 | | MWCB_TDQ_DISCARDED | - assoc tdq gone |
| (21) | CHARACTER | 3 | * | - reserved |
| (24) | CHARACTER | 4 | * | - reserved |
| (28) | CHARACTER | 0 | * | |

NCS4D - Named counter server CF statistics

CONTROL BLOCK NAME = DFHNCS4D
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS Named Counter Server List Str Stats
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 5655-Y04
 (C) Copyright IBM Corp. 1998, 2006
 FUNCTION = NC server list structure usage and access statistics.
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

Table 436.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------------|
| (0) | STRUCTURE | 0 | DFHNCS4D | , NC list structure statistics record |
| (0) | FULLWORD | 4 | S4 (0) | Start of record |

Table 436. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|-------------------------------------|
| (0) | HALFWORD | 2 | S4LEN | Length of data area |
| (0) | .111 11.. | | S4IDE | "0124" List structure stats mask |
| (2) | ADDRESS | 2 | S4ID | List structure stats id |
| (2) |1 | | S4VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | S4DVERS | List structure stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| Coupling facility list structure status information. | | | | |
| (8) | CHARACTER | 16 | S4NAME (0) | Full name of list structure |
| (8) | CHARACTER | 8 | S4PREF | First part of structure name |
| (10) | CHARACTER | 8 | S4POOL | Pool name part of structure name |
| (18) | CHARACTER | 16 | S4CNNAME (0) | Name for connection to structure |
| (18) | CHARACTER | 8 | S4CNPREF | Prefix for connection name |
| (20) | CHARACTER | 8 | S4CNSYSN | Own MVS system name from CVTSNAME |
| (28) | ADDRESS | 4 | S4SIZE | Structure size in 4K pages |
| (2C) | ADDRESS | 4 | S4SIZEMX | Maximum size in 4K pages |
| Usage statistics. Entry usage statistics. Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER. | | | | |
| (30) | FULLWORD | 4 | S4ENTRCT | Current number of entries in use |
| (34) | FULLWORD | 4 | S4ENTRHI | Highest number of entries in use |
| (38) | FULLWORD | 4 | S4ENTRLO | Lowest number of free entries |
| (3C) | FULLWORD | 4 | S4ENTRMX | Max entries returned by IXLCONN |
| Coupling facility I/O statistics. Statistics for each main type of CF request. | | | | |
| (40) | FULLWORD | 4 | S4CRECT | Create counter |
| (44) | FULLWORD | 4 | S4GETCT | Get and increment counter |
| (48) | FULLWORD | 4 | S4SETCT | Set counter |
| (4C) | FULLWORD | 4 | S4DELCT | Delete counter |
| (50) | FULLWORD | 4 | S4KEQCT | Inquire KEQ |
| (54) | FULLWORD | 4 | S4KGECT | Inquire KGE |
| Statistics for internal CF requests. | | | | |
| (58) | FULLWORD | 4 | S4ASYCT | Number of asynchronous requests |
| IXLLIST completion statistics indexed by internal response value. | | | | |

Table 436. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (5C) | FULLWORD | 4 | S4RSP1CT | Normal response, everything OK |
| (60) | FULLWORD | 4 | S4RSP2CT | No matching entry was found |
| (64) | FULLWORD | 4 | S4RSP3CT | Entry version did not match |
| (68) | FULLWORD | 4 | S4RSP4CT | List authority comparison mismatch |
| (6C) | FULLWORD | 4 | S4RSP5CT | The list structure is out of space |
| (70) | FULLWORD | 4 | S4RSP6CT | An IXLLIST return code occurred other than those described above |
| (74) | FULLWORD | 4 | S4RSP7CT | Structure temporarily unavailable, during system-managed rebuild |
| (74) | .111 1... | | S4END | "111" |
| (74) | .111 1... | | S4CLEN | "*-S4LEN" Length of this DSECT |

NCS5D - Named counter server storage statistics

CONTROL BLOCK NAME = DFHNCS5D
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS Named Counter Server Storage Statistics
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 5655-Y04
 (C) Copyright IBM Corp. 1998, 2002
 FUNCTION = Statistics for named counter server main storage usage.
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

Table 437.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHNCS5D | , NC server main storage statistics |
| (0) | FULLWORD | 4 | S5 (0) | Start of record |
| (0) | ADDRESS | 2 | S5LEN | Length of data area |
| (0) | .111 11.1 | | S5IDE | "0125" NC server main storage stats mask |
| (2) | ADDRESS | 2 | S5ID | NC server main storage stats id |
| (2) |1 | | S5VERS | "X'01" DSECT version number mask |
| (4) | ADDRESS | 1 | S5DVERS | NC server main storage stats version |
| (5) | BITSTRING | 3 | | Reserved |

Table 437. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|-------------------------------------|
| <p>These are the statistics returned by the AXM page pool management routines for the pools AXMPGANY and AXMPGLOW. Storage in these pools is allocated in multiples of 4K pages on a 4K boundary. The most frequent use is for segments of LIFO stack storage. Storage is initially allocated from the pool using a bit map. For faster allocation, free areas are not normally returned to the pool but are added to a vector of free chains depending on the size of the free area (1 to 32 pages). When storage is being acquired, this vector is checked before going to the pool bit map. If there are no free areas of the right size and there is not enough storage left in the pool, free areas in the vector are put back into the pool, starting from the smallest end, until a large enough area has been created. This action appears as a compress attempt in the statistics. If there is still insufficient storage to satisfy the request, the request is failed.</p> <p>Statistics for LOC=ANY storage pool.</p> | | | | |
| (8) | CHARACTER | 8 | S5ANYNAM | Pool name AXMPGANY |
| (10) | FULLWORD | 4 | S5ANYSIZ | Size of storage pool area |
| (14) | ADDRESS | 4 | S5ANYPTR | Address of storage pool area |
| (18) | FULLWORD | 4 | S5ANYMX | Total pages in the storage pool |
| (1C) | FULLWORD | 4 | S5ANYUS | Number of used pages in the pool |
| (20) | FULLWORD | 4 | S5ANYFR | Number of free pages in the pool |
| (24) | FULLWORD | 4 | S5ANYLO | Lowest free pages (since reset) |
| (28) | FULLWORD | 4 | S5ANYRQG | Storage GET requests |
| (2C) | FULLWORD | 4 | S5ANYRQF | Storage FREE requests |
| (30) | FULLWORD | 4 | S5ANYRQS | GETs which failed to get storage |
| (34) | FULLWORD | 4 | S5ANYRQC | Compress (defragmentation) attempts |
| Statistics for LOC=BELOW storage pool. | | | | |
| (38) | CHARACTER | 8 | S5LOWNAM | Pool name AXMPGLOW |
| (40) | FULLWORD | 4 | S5LOWSIZ | Size of storage pool area |
| (44) | ADDRESS | 4 | S5LOWPTR | Address of storage pool area |
| (48) | FULLWORD | 4 | S5LOWMX | Total pages in the storage pool |
| (4C) | FULLWORD | 4 | S5LOWUS | Number of used pages in the pool |
| (50) | FULLWORD | 4 | S5LOWFR | Number of free pages in the pool |
| (54) | FULLWORD | 4 | S5LOWLO | Lowest free pages (since reset) |
| (58) | FULLWORD | 4 | S5LOWRQG | Storage GET requests |
| (5C) | FULLWORD | 4 | S5LOWRQF | Storage FREE requests |
| (60) | FULLWORD | 4 | S5LOWRQS | GETs which failed to get storage |

Table 437. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (64) | FULLWORD | 4 | S5LOWRQC | Compress (defragmentation) attempts |
| (64) | .11. 1... | | S5END | "*" |
| (64) | .11. 1... | | S5CLEN | "*-S5LEN" Length of this DSECT |

NEPCA - Node error program commarea

MACRO NAME = DFHNEPCA
 DESCRIPTIVE NAME = CICS TS DFHZNEP - Node Error Program
 Commarea Mapper and Descriptor
 Licensed Materials - Property of IBM
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 (C) Copyright IBM Corp. 1989, 2002
 FUNCTION =
 This macro provides a DSECT description and a storage
 mapper for the NEP COMMAREA
 NOTES
 DEPENDENCIES = S/370
 RESTRICTIONS =
 See OPERANDS sections
 MODULE TYPE = Executable macro

- . \$01 Reserved for APAR fix DELETED BY APAR
- . \$02 Reserved for APAR fix DELETED BY APAR
- . \$03 Reserved for APAR fix DELETED BY APAR

Table 438.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|-----------------------|
| (0) | STRUCTURE | 0 | DFHNEPCA | |
| Invocation descriptor. - COMMAREA for the NEP user replaceable module These fields are READ ONLY | | | | |
| (0) | BITSTRING | 158 | NEPCABEG (0) | |
| (0) | BITSTRING | 4 | NEPCAHDR (0) | Invocation descriptor |
| (0) | BITSTRING | 1 | NEPCAFNC | Local descriptor |
| (1) | BITSTRING | 2 | NEPCACMP | Global descriptor |
| (3) | BITSTRING | 1 | | Reserved |
| Identity of terminal and the error code associated with it These fields are READ ONLY | | | | |
| (4) | BITSTRING | 1 | TWAEC | Error Code |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 4 | TWANID | Terminal identity |
| (C) | CHARACTER | 8 | TWANETN | Netname |
| Action bytes. Initially set to the default actions. User can change these default actions. | | | | |
| (14) | BITSTRING | 4 | TWAROPTL (0) | Reserved |
| (14) | BITSTRING | 3 | TWAOPTL (0) | User option bytes |
| (14) | BITSTRING | 1 | TWAROPT1 (0) | User option byte 1 |

Table 438. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------|---|
| (14) | BITSTRING | 1 | TWAOPT1 | User option byte 1 |
| (14) | 1... | | TWAOAF | "X'80" Print action flags |
| (14) | .1.. | | TWAORPL | "X'40" Print VTAM RPL |
| (14) | ..1. | | TWAOTCTE | "X'20" Print TCTTE |
| (14) | ...1 | | TWAOIOA | "X'10" Print TIOA |
| (14) | 1... | | TWAOBIND | "X'08" Print BIND area |
| (14) |1.. | | TWAODNTA | "X'04" System dump if no task attached |
| (14) |1. | | TWAOONQN | "X'02" Print NQNAME |
| (14) |1 | | TWAOITNA | "X'01" Print TNADDR |
| (15) | BITSTRING | 1 | TWAOPT2 (0) | User option byte 2 |
| (15) | BITSTRING | 1 | TWAOPT2 | User option byte 2 |
| (15) | 1... | | TWAOAS | "X'80" Abort any send for this terminal |
| (15) | .1.. | | TWAOAR | "X'40" Abort any receive for " " |
| (15) | ..1. | | TWAOAT | "X'20" Abend any task attached to TCTTE |
| (15) | ...1 | | TWAOCT | "X'10" Cancel any task att to TCTTE |
| (15) | 1... | | TWAOGMM | "X'08" Good Morning message to be sent |
| (15) |1.. | | TWAOBPB | "X'04" Purge any BMS pages for this TCTTE |
| (15) |1. | | TWAOASM | "X'02" SIMLOGON required |
| (16) | BITSTRING | 1 | TWAOPT3 (0) | User option byte 3 |
| (16) | BITSTRING | 1 | TWAOPT3 | User option byte 3 |
| (16) | 1... | | TWAOINT | "X'80" Set INTLOG now allowed |
| (16) | .1.. | | TWAOININT | "X'40" Set no internal gen logons |
| (16) | ...1 | | TWAOONCN | "X'10" Normal CLSDST (no reset allowed) |
| (16) | 1... | | TWAOOSCN | "X'08" Normal CLSDST (reset allowed) |
| (16) |1.. | | TWAOONEGR | "X'04" Send negative response |
| (16) |1. | | TWAOOS | "X'02" Keep node out of service |
| (16) |1 | | TWAOOCN | "X'01" CLSDST node |
| (17) | BITSTRING | 1 | | Reserved |
| Any VTAM sense and RPL codes These fields are READ ONLY | | | | |
| (18) | BITSTRING | 12 | TWAVTAM (0) | VTAM information |

Table 438. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|--------------|--|
| (18) | HALFWORD | 2 | TWARPLCD | VTAM RPL feedback codes |
| (1A) | HALFWORD | 2 | | Reserved |
| (1C) | FULLWORD | 4 | TWASENSS (0) | Sense codes to be sent |
| (1C) | BITSTRING | 1 | TWASS1 | System sense byte No 1 |
| (1D) | BITSTRING | 1 | TWASS2 | System sense byte No 2 |
| (1E) | BITSTRING | 1 | TWAUS1 | User sense byte No 1 |
| (1F) | BITSTRING | 1 | TWAUS2 | User sense byte No 2 |
| (20) | FULLWORD | 4 | TWASENSR (0) | Sense codes received |
| (20) | BITSTRING | 1 | TWASR1 | System sense byte No 1 |
| (21) | BITSTRING | 1 | TWASR2 | System sense byte No 2 |
| (22) | BITSTRING | 1 | TWAUR1 | User sense byte No 1 |
| (23) | BITSTRING | 1 | TWAUR2 | User sense byte No 2 |
| Other useful information for NEP With the exception of TWANLD, TWANLDL & TWANPFW these fields are READ ONLY | | | | |
| (24) | BITSTRING | 22 | TWAADINF (0) | |
| (24) | FULLWORD | 4 | | Reserved |
| (28) | BITSTRING | 1 | TWACTLB | General use control byte |
| (28) | ..1. | | TWACSC | "X'20'" Clear sense code indicator |
| (28) | ...1 | | TWAPSC | "X'10'" Print VTAM sense codes |
| (28) | 1... | | TWATIOA | "X'08'" Print portion of I/O area |
| (28) |1. | | TWAVTRIC | "X'02'" VTAM return code available |
| (29) | BITSTRING | 1 | TWANEPR | NEP return code byte |
| (29) | 1... | | TWANPFW | "X'80'" Retry write with FORCE=YES |
| (2A) | BITSTRING | 1 | TWAREASN | VTAM reason code |
| (2B) | BITSTRING | 1 | TWASTAT | VTAM status code |
| (2A) | BITSTRING | 1 | TWATRSN | CICS Terminal Control terminal error reason code |
| (2C) | HALFWORD | 2 | TWAXRSN | Exception response seq number recd |
| (2C) | ..1. 111. | | TWAR | "X'11'" |
| (2E) | BITSTRING | 1 | TWAPFLG | CLSDST Pass flag |
| (2E) | 1... | | TWAPIP | "X'80'" CLSDST Pass in progress |
| (2F) | BITSTRING | 1 | TWANEPC | NEP Class Flag |
| (30) | BITSTRING | 1 | TWAEISAB | Stand alone begin bracket indicator |
| (30) |1.. | | TWAEISAB | "X'04'" Stand alone begin bracket |

Table 438. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------|---|
| (31) | BITSTRING | 3 | | Reserved |
| (34) | ADDRESS | 4 | TWANLD | NEP data pointers |
| (38) | HALFWORD | 2 | TWANLDL | Length of NEP data |
| Additional system parameters With the exception of TWAPNETN, TWAPNTID & TWAUPRRRC these fields are READ ONLY | | | | |
| (3C) | FULLWORD | 4 | (0) | |
| (3C) | BITSTRING | 68 | TWASYSPPM (0) | |
| (3C) | ADDRESS | 4 | TWATCTA | Address of TCTTE being processed |
| (40) | ADDRESS | 4 | TWARPL | Address of VTAM RPL |
| (44) | ADDRESS | 4 | TWATIOAA | Address of data portion of TIOA |
| (48) | HALFWORD | 2 | TWATIOAL | Length of data portion of TIOA |
| (4A) | HALFWORD | 2 | TWACOMML | Length of commarea data for TCTTE |
| (4C) | CHARACTER | 4 | TWACOMMA | Address of commarea data for TCTTE |
| (50) | ADDRESS | 4 | TWATECIA | Address of TCTTE USER AREA |
| (54) | HALFWORD | 2 | TWATECIL | Length of TCTTE USER AREA |
| (56) | CHARACTER | 8 | TWAPPNTN | primary 3270 printer netname |
| (5E) | CHARACTER | 4 | TWAPPTID | primary 3270 printer termid |
| (62) | BITSTRING | 1 | TWAPPELG | primary printer eligible indicator |
| (62) |1 | | TWAPPELY | "X'01" primary printer is eligible flag |
| (63) | CHARACTER | 8 | TWASPNTN | secondary 3270 printer netname |
| (6B) | CHARACTER | 4 | TWASPTID | secondary 3270 printer termid |
| (6F) | BITSTRING | 1 | TWASPELG | secondary printer eligible indicator |
| (6F) |1 | | TWASPELY | "X'01" secondary printer is eligible flag |
| (70) | CHARACTER | 8 | TWAPNETN | selected 3270 printer netname |
| (78) | CHARACTER | 4 | TWAPNTID | selected 3270 printer termid |
| (7C) | BITSTRING | 1 | TWAUPRRRC | Unavailable Printer rtn return code |
| (7C) | .... .... |  | TWAUPRNP | "X'00" No printer selected |
| (7C) |1 | | TWAUPRPS | "X'01" printer selected |

Table 438. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---------------------------------------|
| (7C) | 1111 1111 | | TWAUPRDD | "X'FF" data disposal complete |
| (7C) | 1111 111. | | TWAUPRPE | "X'FE" Error on Put request |
| (7D) | BITSTRING | 1 | TWAERRF1 | Error flag byte 1 |
| (7D) | 1... | | TWALXS | "X'80" Logon crossed simlogon |
| (7E) | BITSTRING | 2 | | reserved |
| XRF recovery notification data User can change these default actions | | | | |
| (80) | BITSTRING | 1 | TWAXRNOT | Recovery Notification Options |
| (80) | 1... | | TWAXRNON | "X'80" Recov Notification = None |
| (80) | .1.. | | TWAXRMSG | "X'40" Recov Notification = Message |
| (80) | ..1. | | TWAXRTRN | "X'20" Recov Notification = Transact. |
| (81) | BITSTRING | 3 | | Reserved |
| (84) | CHARACTER | 8 | TWAXMSTN | Recovery Mapset Name |
| (8C) | CHARACTER | 8 | TWAXMAPN | Recovery Map Name |
| (94) | CHARACTER | 4 | TWAXTRAN | Recovery Transaction ID |
| Additional system parameters | | | | |
| (98) | ADDRESS | 4 | TWACINIT | CINIT RU Address |
| (9C) | BITSTRING | 2 | TWACINIL | CINIT RU Length |
| (9C) | 1..1 111. | | NEPCALEN | "*-NEPCABEG" Length of this DSECT |

NQG - Enqueue Manager Global statistics

CONTROL BLOCK NAME = DFHNQGDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHNQGPS
 DESCRIPTIVE NAME = CICS TS Enqueue Manager Statistics
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 CICS level at which this module was last updated
 FUNCTION =
 This data area contains global statistics provided by the Enqueue Manager Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API, the statistics exit, or offline formatting products.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the Enqueue Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.
 STORAGE CLASS =
 LOCATION =

The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = none

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = none

MODULE TYPE = Domain call buffer

EXTERNAL REFERENCES = none

DATA AREAS = none

CONTROL BLOCKS = from enqueue manager domain

GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHNQGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 439.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHNQGDS | Enqueue Manager Global statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | NQGLEN | Length of data area |
| (0) | .11. ...1 | | NQGIDE | "0097" Enqueue Manager statistics id mask |
| (2) | ADDRESS | 2 | NQGID | Enqueue Manager statistics id |
| (2) |1 | | NQGVERS | "X'01" Stats version number id mask |
| (4) | CHARACTER | 1 | NQGDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (5) | 1... | | NQGHEND | "*" End of header |
| (5) | 1... | | NQGHLEN | "*-NQGLN" Length of header |
| (8) | FULLWORD | 4 | NQGNPOOL | Number of ENQ pools following |
| (8) | 11.. | | NQGGEND | "*" End of global portion |
| (8) | 11.. | | NQGGLEN | "*-DFHNQGDS" Length of header and global part |

The following dsect is repeated for each ENQ pool. The number of repetitions of the NQGBODY dsect is in NQGNPOOL.

Table 440.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 0 | NQGBODY | Individual ENQ pool statistics |
| (0) | CHARACTER | 8 | NQGPOL | ENQ pool id |
| (8) | FULLWORD | 4 | NQGTNQSI | Total enqueues issued |
| (C) | FULLWORD | 4 | NQGTNQSW | Total enqueues waited |
| (10) | CHARACTER | 8 | NQGTNQWT | Time enqueues had waited (STCK) |
| (18) | FULLWORD | 4 | NQGCNQSW | Current enqueues waiting |

Table 440. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---------------------------------------|
| (1C) | CHARACTER | 8 | NQGCNQWT | Current enqueues waiting time (STCK) |
| (24) | FULLWORD | 4 | NQGGNQSW | Total sysplex ENQs waited |
| (28) | CHARACTER | 8 | NQGGNQWT | Time sysplex ENQs had waited (STCK) |
| (30) | FULLWORD | 4 | NQGSNQSW | Current sysplex ENQs waiting |
| (34) | CHARACTER | 8 | NQGSNQWT | Current sysplex ENQs wait time (STCK) |
| The following fields show the enqueue retention activity. | | | | |
| (3C) | FULLWORD | 4 | NQGTNQSR | Total enqueues that were retained |
| (40) | CHARACTER | 8 | NQGTNQRT | Time enqueues were retained (STCK) |
| (48) | FULLWORD | 4 | NQGCNQSR | Current enqueues retained |
| (4C) | CHARACTER | 8 | NQGCNQRT | Current enqueues retained time (STCK) |
| The following fields show a breakdown of the possible reasons of why requests for ENQs may not have been successful. | | | | |
| (54) | FULLWORD | 4 | NQGTIRJB | Total immed. rejected ENQBUSY |
| (58) | FULLWORD | 4 | NQGTIRJR | Total immed. rejected ENQ retained |
| (5C) | FULLWORD | 4 | NQGTWRJR | Total waiting ENQs rejected retained |
| (60) | FULLWORD | 4 | NQGTWPOP | Total waiting ENQs purged by operator |
| (64) | FULLWORD | 4 | NQGTWPTO | Total waiting ENQs purged by timeout |
| (64) | .11. 1... | | NQGBEND | "*" End of individual ENQ pool stats |
| (64) | .11. 1... | | NQGBLEN | "*-NQGBODY" Length of body |

NQUE - Enq/Deq EXEC Parameter List

CONTROL BLOCK NAME = DFHNQUEC
 DESCRIPTIVE NAME = CICS TS EXEC argument list for ENQ/DEQ user exits.

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Although provided in a general library, DFHNQUED is not to be used as a general programming interface. Refer to product documentation to determine intended usage.

The following fields are part of the Product-sensitive Programming Interface.

NQ_ADDR0

NQ_ADDR1

NQ_ADDR2
 NQ_ADDR3
 NQ_GROUP
 NQ_FUNCT
 NQ_BITS1
 NQ_BITS2
 NQ_EIDOPT5
 NQ_EIDOPT6
 NQ_EIDOPT7
 NQ_EIDOPT8
 NQ_ENQ
 NQ_DEQ
 NQ_RESOURCE
 NQ_LENGTH
 NQ_MAXLIFETIME

All equates for values of EIBRCODE, EIBRESP and EIBRESP2 form part of the General-purpose Programming Interface. All remaining fields used in defining the Exec Parameter List are product sensitive and may vary between CICS releases.

FUNCTION =

To define the EXEC parameter list for ENQ/DEQ requests, for use by global user exit programs at exit points XNQEREQ and XNQEREQC.
 On entry to the XNQEREQ and XNQEREQC User Exits, the EXEC parameter list is pointed to by UEPCPLPS.
 The EXEC parameter list for ENQ/DEQ consists of four addresses.

The four addresses are defined by NQ_ADDR0 to NQ_ADDR3. This DSECT defines these addresses and the areas that they point to.

On entry to the XNQEREQ and XNQEREQC User Exits, the copy of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP is pointed to by UEPRESP and the copy of EIBRESP2 is pointed to by UEPRESP2.

This DSECT also contains equates for values of EIBRCODE, EIBRESP and EIBRESP2 used by ENQ/DEQ.

LIFETIME = Lifetime of the NQ command request

STORAGE CLASS = As the storage being mapped is the translated source in the user's application program, the storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCPLPS.
 (2) Fields copied from the EIB are addressed by UEPRCODE, UEPRESP and UEPRESP2.
 (3) The token for use in communicating between XNQEREQ and XNQEREQC is addressed by UEPNQTOK.

INNER CONTROL BLOCKS =

NQ_ADDR_LIST declares the EXEC addresses.

NQ_EID defines the EID pointed to by NQ_ADDR0.

NOTES :

DEPENDENCIES = S/370 ESA

RESTRICTIONS = None

MODULE TYPE = Control Block definition

EXTERNAL REFERENCES =

None.

DATA AREAS =

None.

CONTROL BLOCKS =

None.

GLOBAL VARIABLES (Macro pass) =

None.

The command parameter list is a list of addresses which reference the argument values for this EXEC CICS command. The addresses are only valid if the argument is applicable to this command.

The existence bits in the EID component (NQ_BITS1) specify those addresses that are valid, and the flagword bits (NQ_EIDOPT5 - NQ_EIDOPT7) specify the keywords that were given in the EXEC CICS command. Therefore, you can deduce the useage of each address by testing these bits in conjunction with the command function(NQ_FUNCT).

Table 441.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--------------------------|
| (0) | STRUCTURE | 16 | NQ_ADDR_LIST | NQ_ADDR_LIST consists of |
| (0) | ADDRESS | 4 | NQ_ADDR0 | the EID |
| (4) | ADDRESS | 4 | NQ_ADDR1 | RESOURCE |
| (8) | ADDRESS | 4 | NQ_ADDR2 | LENGTH |
| (C) | ADDRESS | 4 | NQ_ADDR3 | MAXLIFETIME |

NQ_EID (addressed by NQ_ADDR0) gives the command function, and contains the existence and flagword bits.

Note: Equates for NQ_GROUP, NQ_FUNCT, EIBRCODE, EIBRESP and EIBRESP2 values are defined at the end of this data structure.

Table 442.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------|-------------------|
| (0) | STRUCTURE | 8 | NQ_EID | |
| (0) | CHARACTER | 1 | NQ_GROUP | '12'X for ENQ/DEQ |
| (1) | CHARACTER | 1 | NQ_FUNCT | '04'X for ENQ |
| '06'X for DEQ ----- The existence bits (NQ_BITS1) specify the parameters that are valid for this command. For example, NQ_EXIST2 set on indicates that NQ_ADDR2 is valid, meaning that it addresses a LENGTH value. NQ_ADDR0 is always valid and has no existence bit. ----- | | | | |
| (2) | BIT(8) | 1 | NQ_BITS1 | |
| (2) | 1... | | NQ_EXIST1 | |
| (2) | 1... | | NQ_RESOURCE_V | |
| (2) | .1.. | | NQ_EXIST2 | |
| (2) | .1.. | | NQ_LENGTH_V | |
| (2) | ..1. | | NQ_EXIST3 | |
| (2) | ..1. | | NQ_MAXLIFETIME_V | |
| (2) | ...1 1111 | | * | Reserved |
| (3) | BIT(16) | 2 | * | Reserved |
| ----- The next 3 bytes (NQ_EIDOPT5 - NQ_EIDOPT7) are the flagword bits. A user exit program at XNQEREQ can set the NQ_NOSUSPEND_X bit for an ENQ command. ----- | | | | |
| (5) | BIT(8) | 1 | NQ_EIDOPT5 | |
| (5) | BIT(8) | 1 | * | Reserved |
| (6) | BIT(8) | 1 | NQ_EIDOPT6 | |

Table 442. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|----------------------|
| (6) | BIT(8) | 1 | * | Reserved |
| (7) | BIT(8) | 1 | NQ_EIDOPT7 | |
| (7) | 1111 1... | | * | Reserved |
| (7) |1.. | | NQ_NOSUSPEND_X | NOSUSPEND specified. |
| (7) |11 | | * | Reserved |

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by NQ_ADDR1 - NQ_ADDR3 in NQ_ADDR_LIST.

Table 443.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|--------------|
| (0) | STRUCTURE | * | NQ_DATA1 | |
| (0) | CHARACTER | * | NQ_RESOURCE | the RESOURCE |

Table 444.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 2 | NQ_DATA2 | |
| (0) | HALFWORD | 2 | NQ_LENGTH | the LENGTH |

Table 445.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-----------------|
| (0) | STRUCTURE | 4 | NQ_DATA3 | |
| (0) | FULLWORD | 4 | NQ_MAXLIFETIME | the MAXLIFETIME |

Constants

Table 446.

| Len | Type | Value | Name | Description |
|---|---------|-------|---------------------|-------------|
| Equate for NQ_GROUP. All ENQ/DEQ requests have group code '12' | | | | |
| 1 | HEX | 12 | NQ_ENQDEQ_GROUP | |
| Equates for NQ_FUNCT values. | | | | |
| 1 | HEX | 04 | NQ_ENQ | Enq |
| 1 | HEX | 06 | NQ_DEQ | Deq |
| Start of General Use Programming Interface. Equates for EIBRCODE values used by Enq/Deq. | | | | |
| 1 | HEX | 00 | NQ_OK_EIBRCODE | |
| 1 | HEX | E0 | NQ_INVREQ_EIBRCODE | |
| 1 | HEX | E1 | NQ LENGERR_EIBRCODE | |
| 1 | HEX | 32 | NQ_ENQBUSY_EIBRCODE | |
| Equates for EIBRESP values used by Enq/Deq. | | | | |
| 1 | DECIMAL | 0 | NQ_OK_EIBRESP | |

Table 446. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-------|---------------------|---|
| 1 | DECIMAL | 16 | NQ_INVREQ_EIBRESP | |
| 1 | DECIMAL | 22 | NQ LENGERR_EIBRESP | |
| 1 | DECIMAL | 55 | NQ_ENQBUSY_EIBRESP | |
| Equates for EIBRESP2 values used by Enq/Deq | | | | |
| 1 | DECIMAL | 0 | NQ_OK_EIBRESP2 | OK |
| 1 | DECIMAL | 1 | NQ LENGERR_EIBRESP2 | LENGERR |
| 1 | DECIMAL | 2 | NQ_INVREQ_EIBRESP2 | INVREQ *_**_**_**_**_**_**_**_**_** *_**_**_**_**_**_**_**_**_** End of General Use **-* **-* Programming Interface *-* *_**_**_**_**_**_**_**_**_** |

OSPWA - BMS work area

DESCRIPTIVE NAME = CICS TS BMS WORK AREA
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FUNCTION = DEFINE THE MAJOR BMS CONTROL BLOCK. THIS IS CHAINED OFF THE TCA SYSTEM AREA. IT IS BUILT BY DFHMCP ON THE FIRST BMS REQUEST IN A TRANSACTION, AND IS FREED AT TASK TERMINATION. LARGE PARTS OF THE OSPWA ARE CLEARED BY DFHMCP ON SEND PAGE.

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = SEE COMMENTS IN CODE
 PATCH LABEL = NONE
 MODULE TYPE = DSECT
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = DSECT
 ENTRY POINT = NOT APPLICABLE
 PURPOSE = SEE FUNCTION
 LINKAGE = NOT APPLICABLE
 INPUT = NOT APPLICABLE
 OUTPUT = NOT APPLICABLE
 EXIT-NORMAL = NOT APPLICABLE
 EXIT-ERROR = NOT APPLICABLE
 EXTERNAL REFERENCES = NOT APPLICABLE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NOT APPLICABLE
 MACROS = NONE

OUTPUT SERVICES PROCESSOR WORK AREA (OSPWA)
 BASIC MAPPING SUPPORT WORK AREA
 THE OSPWA IS USED BY ALL BMS ROUTINES TO TRANSMIT DATA BETWEEN ROUTINES AND ACROSS BMS CALLS.

Table 447.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 0 | DFHOSPWA | DUMMY SECTION - BMS WORK AREA |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (0) | DBL WORD | 8 | OSPSAAP | STORAGE ACCOUNTING INFORMATION STORAGE CLASS=USER |
| (0) | 1... | | OSPSTART | "*1" OSPWA START |
| (8) | CHARACTER | 8 | OSPCBID | OSPWA SELF IDENTIFICATION. SET TO 'DFHOSPWA' WHEN OSPWA CREATED |
| (8) | ...1 | | OSPSTRT1 | "*1" OSPWA START |
| REGISTER SAVE AREAS - PART ONE | | | | |
| (10) | FULLWORD | 4 | OSPRLRSA (2) | ROUTE LIST RESOLUTION SAVE AREA |
| (18) | FULLWORD | 4 | OSPMAPSA (2) | MAPPING SAVE AREA |
| (18) | ...1 1... | | OSPIIPSA | "OSPMAPSA" INPUT MAPPING SAVE AREA |
| (20) | FULLWORD | 4 | OSPPFSA (2) | PAGE FORMATTING SAVE AREA |
| (28) | FULLWORD | 4 | OSPDSBSA (2) | DATA STREAM BUILD SAVE AREA |
| (30) | FULLWORD | 4 | OSPTPPSA (2) | TERMINAL PAGE PROCESSOR SAVE AREA |
| (38) | FULLWORD | 4 | OSPTPRS1 (2) | DFHTPR REGISTER SAVE AREA |
| (40) | FULLWORD | 4 | OSPTPRS2 (2) | DFHTPR REGISTER SAVE AREA |
| (20) | FULLWORD | 4 | OSPTPRS3 | DFHTPR REGISTER SAVE AREA |
| (24) | FULLWORD | 4 | OSPTPRS4 | DFHTPR REGISTER SAVE AREA |
| (28) | FULLWORD | 4 | OSPTPRS5 | DFHTPR REGISTER SAVE AREA |
| (2C) | FULLWORD | 4 | OSPTPRS6 | DFHTPR REGISTER SAVE AREA |
| SAVE AREAS FOR R14 TO GIVE RLR CALLING PROCEDURE CONSISTENCY | | | | |
| (28) | FULLWORD | 4 | OSPLIS14 | SAVE AREA FOR RETURN REGISTER FOR RLRLOCID |
| (2C) | FULLWORD | 4 | OSPINS14 | SAVE AREA FOR RETURN REGISTER FOR RLRLINIT |
| (30) | FULLWORD | 4 | OSPBLS14 | SAVE AREA FOR RETURN REGISTER FOR RLRLBLD |
| (48) | FULLWORD | 4 | (2) | RESERVED |
| DATA SAVED FROM TCA REQUEST AREA | | | | |
| (48) | .1.1 | | OSPSVDTA | "*1" BMS REQUEST DATA FROM TCA |
| (50) | BITSTRING | 1 | OSPTR1 | TYPE OF REQUEST BYTE 1 |
| (50) | 1... | | OSPTRR | "X'80" TYPE = ROUTE |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (50) | .1.. | | OSPREO | "X'40'" ERRTERM = ORIG |
| (50) | ..1. | | OSPRETI | "X'20'" ERRTERM = TERMINAL ID |
| (50) | ...1 | | OSPRI | "X'10'" INTRVAL = NUMERIC VALUE |
| (50) | 1... | | OSPRT | "X'08'" TIME = NUMERIC VALUE |
| (50) |1.. | | OSPRA | "X'04'" LIST = ALL |
| (50) |1. | | OSPRLSA | "X'02'" LIST = SYMBOLIC ADDRESS |
| (50) |1 | | OSPROC | "X'01'" OPCLASS = OPERATOR CLASS |
| (51) | BITSTRING | 1 | OSPTR2 | TYPE OF REQUEST BYTE 2 |
| (51) | 1... | | OSPRTL | "X'80'" TITLE = SYMBOLIC ADDRESS |
| (51) | .1.. | | OSPTOPT | "X'40'" PROPT = NLEOM |
| (51) | ..1. | | OSPRQI | "X'20'" REQID = ALPHANUMERIC VALUE |
| (51) | ...1 | | OSPTLD | "X'10'" LDC = MNEMONIC OR YES |
| (51) | 1... | | OSPIOT | "X'08'" IOTYPE = IMMED |
| (51) |1.. | | OSPLPS | "X'04'" SEND PARTNSET |
| (51) |1. | | OSPRIN | "X'02'" RECV INTO EXEC COMMAND |
| (51) |1 | | OSPTRG | "X'01'" TYPE = PURGE |
| (52) | BITSTRING | 1 | OSPTR3 | TYPE OF REQUEST BYTE 3 |
| (52) | 1... | | OSPTLST | "X'80'" TYPE = LAST |
| (52) | .1.. | | OSPRPR | "X'40'" RECEIVE PARTITION |
| (52) | ..1. | | OSPTRT | "X'20'" TYPE=TEXT ON INPUT MAPPING |
| (52) | ..1. | | OSPHON | "X'20'" HONEOM REQUESTED ON OUTPUT MAPPING (EXEC INTERFACE ONLY) |
| (52) | ...1 | | OSPTC | "X'10'" CURSOR = NUMBER |
| (52) | 1... | | OSPTCWCC | "X'08'" CTRL = ANY 3270 WRITE CONTROL CHARACTER |
| (52) |1.. | | OSPTMN | "X'04'" MAP = MAP NAME |
| (52) |1. | | OSPTSA | "X'02'" MSETADR = SYMBOLIC ADDRESS OR PSETADR = ADDRESS |
| (52) |1 | | OSPTSN | "X'01'" MAPSET = MAP SET NAME |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (53) | BITSTRING | 1 | OSPTR4 | TYPE OF REQUEST BYTE 4 |
| (53) | 11.. | | OSPTDY | "X'C0'" DATA = YES |
| (53) | .1.. | | OSPTDN | "X'40'" DATA = NO |
| (53) | ..1. | | OSPTRS | "X'20'" TYPE = SAVE |
| (53) | ...1 | | OSPTMA | "X'10'" MAPADR = SYMBOLIC ADDRESS |
| (53) | 1... | | OSPTRW | "X'08'" TYPE = WAIT |
| (53) |1.. | | OSPTRM | "X'04'" TYPE = MAP |
| (53) |1. | | OSPTRF | "X'02'" TYPE = ERASE |
| (53) |1 | | OSPTRI | "X'01'" TYPE = IN |
| (54) | BITSTRING | 1 | OSPTR5 | TYPE REQUEST BYTE 5 |
| (54) | 1... | | OSPTRB | "X'80'" TYPE = PAGEBLD |
| (54) | .1.. | | OSPTOF | "X'40'" OFLOW = SYMBOLIC ADDRESS |
| (54) | ..1. | | OSPTEU | "X'20'" TYPE = ERASEAUP |
| (54) | ...1 | | OSPTEFF | "X'10'" TYPE = FORMFEED |
| (54) | 1... | | OSPTRLOC | "X'08'" TYPE = LOCATE_MAP |
| (54) |1.. | | OSPTR0 | "X'04'" TYPE = OUT |
| (54) |1. | | OSPTRF | "X'02'" TYPE = STORE |
| (54) |1 | | OSPTRU | "X'01'" TYPE = RETURN |
| (55) | BITSTRING | 1 | OSPTR6 | TYPE REQUEST BYTE 6 |
| (55) | 1... | | OSPTRP | "X'80'" TYPE = PAGEOUT |
| (55) | .1.. | | OSPTEAPG | "X'40'" CTRL = AUTOPAGE |
| (55) | ..1. | | OSPTECPG | "X'20'" CTRL = PAGE |
| (55) | ...1 | | OSPTECRET | "X'10'" CTRL = RETAIN |
| (55) | 1... | | OSPTECREL | "X'08'" CTRL = RELEASE |
| (55) |1.. | | OSPTEWBC | "X'04'" WTBRK = CURRENT |
| (55) |1. | | OSPTEWBA | "X'02'" WTBRK = ALL |
| (55) |1 | | OSPTEODOP | "X'01'" EODPURG=OPER |
| (56) | BITSTRING | 1 | OSPTR7 | TYPE REQUEST BYTE 7 |
| (56) | 1... | | OSPTRX | "X'80'" TYPE = TEXTBLD |
| (56) | .1.. | | OSPTEHDR | "X'40'" HEADER = SYMBOLIC ADDRESS |
| (56) | ..1. | | OSPTETRL | "X'20'" TRAILER = SYMBOLIC ADDRESS |
| (56) | ...1 | | OSPJUST | "X'10'" JUSTIFY = FIRST, LAST, OR VALUE |
| (56) | 1... | | OSPTEPRT | "X'08'" API SPECIFIES OUTPARTN |
| (56) |1.. | | OSPTEPRT | "X'04'" API SPECIFIES ACTPARTN |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (56) |1. | | OSPPGAS | "X'02'" PGA SUPPLIED AT END OF DATA. NOTE: TIOATDL MUST INCLUDE THE LENGTH OF THE PGA IF THIS IS SET |
| (56) |1 | | OSPTRN | "X'01'" TYPE = NOEDIT |
| (57) | BITSTRING | 1 | OSPTR8 | TYPE REQUEST BYTE 8 |
| (57) | 1... | | OSPIPRT | "X'80'" API SPECIFIES INPARTN |
| (57) | .1.. | | OSPMGM | "X'40'" MSR SPECIFIED ON API |
| (57) | ..1. | | OSPEIC | "X'20'" EXEC INTERFACE COMMAND |
| (57) | ...1 | | OSPTEP | "X'10'" FMHPARM = YES OR PARM |
| (57) | 1... | | OSPRDA | "X'08'" RDATT = SYMBOLIC ADDRESS |
| (57) |1.. | | OSPWRB | "X'04'" WRBRK = SYMBOLIC ADDRESS |
| (57) |1. | | OSPSIG | "X'02'" SIGNAL = SYMBOLIC ADDRESS |
| (57) |1 | | OSPMGC | "X'01'" SEND CONTROL SPECIFIED |
| (57) | .1.1 1... | | OSPTREND | "*" END REQUEST BYTE INFORMATION |
| (57) | 1... | | OSPTRLN | "OSPTREND-OSPSVDTA" REQUEST BYTES' LENGTH |
| (58) | ADDRESS | 4 | OSPTA (0) | TITLE ADDRESS |
| (58) | CHARACTER | 4 | OSPTRMID (0) | TERMINAL ID FOR PURGE |
| (58) | ADDRESS | 4 | OSPIOA | ALTERNATE I/O AREA ADDRESS |
| (5C) | CHARACTER | 4 | OSPFSC (0) | FIELD SEPARATOR CHARACTERS |
| (5C) | CHARACTER | 1 | OSPWCC | WRITE CONTROL CHARACTER |
| (5D) | BITSTRING | 1 | OSPJFLV | JUSTIFY = FIRST, LAST, OR VALUE |
| (5D) | 1111 1111 | | OSPJF | "X'FF'" JUSTIFY = FIRST |
| (5D) | 1111 111. | | OSPJL | "X'FE'" JUSTIFY = LAST |
| (5E) | HALFWORD | 2 | OSPRPL (0) | RECEIVE PARTN LENGTH VALUE |
| (5E) | HALFWORD | 2 | OSPCP | CURSOR POSITION |
| (60) | ADDRESS | 4 | OSPMA (0) | MAP ADDRESS |
| (60) | CHARACTER | 8 | OSPMN (0) | MAP NAME |
| (60) | CHARACTER | 8 | OSPPSN (0) | PARTITION SET NAME |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------------|-----------|-----|--------------|---|
| (60) | CHARACTER | 8 | OSPMCRID (0) | MCR TS DATA ID FOR PURGE |
| (60) | ADDRESS | 4 | OSPHDRA (0) | HEADER ADDRESS |
| (60) | ADDRESS | 4 | OSPRLA | ROUTE OR RETURNED PAGE LIST ADDRESS |
| (64) | ADDRESS | 4 | OSPTRLA (0) | TRAILER ADDRESS |
| (64) | | 4 | OSPRTI | TIME OR INTERVAL FOR TYPE=ROUTE |
| (68) | ADDRESS | 4 | OSPMSA (0) | MAP SET OR PARTNSET ADDRESS |
| (68) | CHARACTER | 8 | OSPMSN (0) | MAP SET NAME |
| (68) | CHARACTER | 4 | OSPRETID | ROUTE ERROR TERMINAL ID |
| (6C) | BITSTRING | 1 | OSPFLAG | PROGRAM SWITCH TPP/TPR |
| (6D) | CHARACTER | 3 | OSPOC | OPERATOR CLASS |
| (70) | CHARACTER | 2 | OSPLDM | LDC OR OUTPARTN LDC MNEMONIC IF LDC ON API, OR OUTPARTN NAME IF LDC NOT ON API AND SEND REQUEST, OR INPARTN IF RECEIVE MAP, OR PARTN IF RECEIVE PARTN |
| (72) | BITSTRING | 1 | OSPLDC | LDC CODE |
| (73) | CHARACTER | 2 | OSPREQID | TEMPORARY STORAGE RECOVERY PREFIX |
| (75) | CHARACTER | 2 | OSPAPNM | ACTPARTN NAME |
| (77) | CHARACTER | 1 | OSPAPID | ACTPARTN PID |
| (78) | CHARACTER | 8 | OSPFMP | FMHPARM FROM DFHBMS |
| (80) | CHARACTER | 4 | OSPMSR | MSR OPTION BYTES |
| (84) | FULLWORD | 4 | OSPR14SV | SAVE R14 TPP/TPR |
| (88) | CHARACTER | 4 | | RESERVED |
| (88) | 1... 11.. | | OSPSVEND | "1*1" END BMS DATA FROM TCA |
| (88) | ..11 11.. | | OSPSVLEN | "OSPSVEND-OSPSVDTA" MACRO REQUEST INFORMATION LENGTH |
| BUILD AREA FOR TEMP STORAGE KEYS | | | | |
| (8C) | CHARACTER | 12 | OSPTSKEY (0) | TEMP STG KEY OF PAGE OR MCR + CHAIN LEVEL + PAGE NO |
| (8C) | CHARACTER | 8 | OSPTSID (0) | TEMPORARY STORAGE KEY OF PAGE OR MACRO |
| (8C) | CHARACTER | 2 | OSPTSPFX | T. S. RECOVERY PREFIX |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------|-----------|-----|------------|--|
| (8E) | BITSTRING | 1 | OSPTSPID | TEMPORARY STORAGE IDENTIFICATION FOR PAGES |
| (8E) | 1111 11.1 | | OSPBMTSI | "X'FD'" BMS TEMPORARY STORAGE GENERIC ID |
| (8F) | BITSTRING | 3 | OSPLMID | LOGICAL MESSAGE ID |
| (92) | CHARACTER | 1 | OSPLMTTS | TERMINAL TYPE SUFFIX OF PAGE |
| (93) | BITSTRING | 1 | OSPTSQUL | TEMP STORAGE QUALIFICATION EVEN NO. FOR MCR ODD NO. FOR PAGE QUEUE |
| (93) |1 | | OSPX01 | "X'01'" TO CHANGE MCR'S ID TO ONE FOR CORRESPONDING PAGE QUEUE |
| (94) | BITSTRING | 1 | OSPPGCN | PAGE CHAIN NUMBER FOR OUTPUT CHAINING |
| (96) | HALFWORD | 2 | OSPPGNO | PAGE NUMBER |
| BMS WORK AREAS | | | | |
| (98) | DBL WORD | 8 | OSPWADW | DOUBLE-WORD WORK AREA |
| (A0) | FULLWORD | 4 | OSPWAF1 | FULLWORD WORK AREA |
| (A4) | FULLWORD | 4 | OSPWAF2 | FULLWORD WORK AREA |
| (A8) | ADDRESS | 4 | OSPCTTP | ADDRESS OF CURRENTLY ACTIVE TTP |
| (AC) | ADDRESS | 4 | OSPDITTP | ADDRESS OF FIRST DIRECT TTP |
| (B0) | ADDRESS | 4 | OSPTTP | ADDRESS OF FIRST ROUTING TTP |
| (B4) | ADDRESS | 4 | OSPOFTTP | A(TTP DURING PAGEBLD OVERFLOW) |
| (B8) | ADDRESS | 4 | OSPDFTTP | SAVED A(ORIGINAL DEFAULT TTP) |
| (BC) | ADDRESS | 4 | OSPDLTTP | A(TTP WITH MAPSET'S DEFAULT LOCATION) |
| (C0) | ADDRESS | 4 | OSPTIOA | TIOA ADDRESS |
| (C4) | ADDRESS | 4 | OSPSIOA | REMEMBER WHERE WE GOT USER DATA |
| (C8) | ADDRESS | 4 | OSPTITLE | TITLE RECORD SAVE AREA ADDRESS |
| (CC) | ADDRESS | 4 | OSPSREQ | SUSPENDED REQUEST INFORMATION SAVE AREA |
| (D0) | ADDRESS | 4 | OSPDWE | DWE ADDRESS |
| (D4) | ADDRESS | 4 | OSPDWEOD | DWE FOR EODS ON BATCH LU |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------------|--|
| (D8) | ADDRESS | 4 | OSPRETPG | RETURNED PAGE LIST ADDRESS |
| (DC) | ADDRESS | 4 | OSPSFWSV | ->ATTR.STRIP 3270E O/B. |
| (E0) | ADDRESS | 4 | OSPPLT1 | A(1ST SEGMENT OF PAGE/LDC TABLE) |
| (E4) | ADDRESS | 4 | OSPPLTL | A(LAST SEGMENT OF PAGE/LDC TABLE) |
| (E4) |1. | | OSPPLTES | "2" EXTENDED PAGE/LDC TABLE ENTRY SIZE |
| (E4) | 1... | | OSPPLTNE | "128" NUMBER OF ENTRIES IN PAGE/LDC TABLE |
| OSPPLTES OSPPLTNE MUST NOT EXCEED 256 | | | | |
| (E8) | ADDRESS | 4 | OSP_BRIDGE_FACILITY | ADDRESS OF BFB |
| SHORT TERM WORKAREAS, USED ONLY IN RLRLDCTT SUBROUTINE | | | | |
| (EC) | CHARACTER | 1 | OSPWKB1 | RLRLDCTT WORK AREA 1 |
| (ED) | CHARACTER | 1 | OSPWKB2 | RLRLDCTT WORK AREA 2 |
| (EE) | CHARACTER | 2 | OSPDELDM | DEFAULT LDC MNEMONIC FROM MAP SET |
| (F0) | CHARACTER | 2 | OSPETLDC | ERROR TERMINAL'S LDC MNEMONIC |
| (F2) | HALFWORD | 2 | OSPTTCNT | TERMINAL TYPE PARAMETER COUNT |
| (F4) | HALFWORD | 2 | OSPTOTPG | TOTAL PAGE COUNT (3601) |
| (F6) | | 4 | OSPTDEL | INTERVAL OR TIME OF DELIVERY |
| (FA) | CHARACTER | 4 | OSPDDEL | DATE OF DELIVERY |
| (FE) | CHARACTER | 4 | OSPTERID | ID OF TERMINAL TO GET ERROR NOTICE |
| (102) | CHARACTER | 3 | OSPOPRCL | OPERATOR CLASS |
| (105) | BITSTRING | 1 | OSPIND01 | OUTPUT SERVICE PROCESSOR (OSP) |
| (105) | 1... | | OSPOPPND | "X'80" OUTPUT PENDING IN PAGE BUFFERS |
| (105) | .1.. | | OSPRTE | "X'40" LOGICAL MESSAGE UNDER ROUTE REQUEST |
| (105) | ..1. | | OSPDELI | "X'20" DELIVERY TIME IS INTERVAL |
| (105) | ...1 | | OSPIRPGL | "X'10" INITIATE RETURN PAGE LIST, IF NECESSARY |
| (105) | 1... | | OSPLMPB | "X'08" LOGICAL MESSAGE IN PAGEBLD MODE |
| (105) |1.. | | OSPLMTB | "X'04" LOGICAL MESSAGE IN TEXTBLD MODE |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (105) |1. | | OSPWAPGO | "X'02" PAGE OVERFLOW IN PROCESS |
| (105) |1 | | OSPDWEP | "X'01" DWE PROCESSING IN PROGRESS |
| (106) | BITSTRING | 1 | OSPIND02 | OSPWA INDICATOR BYTE 02 |
| (106) | 1... | | OSPBMSM | "X'80" BMS - SYSTEM MESSAGE |
| (106) | .1.. | | OSPPL1 | "X'40" REQUESTING PROGRAM IS PL/I |
| (106) | ..1. | | OSPLTA | "X'20" LEAVE TCTTEDA - BECAUSE TPP ISSUED WRITE WITHOUT A WAIT |
| (106) | ...1 | | OSPRUWA | "X'10" RESET UWA STRFIELD HAS BEEN USED IN THIS TRANSACTION |
| (106) | 1... | | OSPSRTA | "X'08" SUCCESSFUL RESET TO AUTOMATIC PAGING |
| (106) |1.. | | OSPLDCOB | "X'04" LDC MNEMONIC ORIGINLY BLANK |
| (106) |1. | | OSPNOMDL | "X'02" DO NOT USE MAPSET DEF LDC |
| (106) |1 | | OSPASCSZ | "X'01" USE ALTERNATE SCREEN/PAGE SIZE |
| (107) | BITSTRING | 1 | OSPIND03 | OSPWA INDICATOR BYTE 03 |
| (107) | 1... | | OSPLMLDC | "X'80" LOGICAL MESSAGE USES LDCS |
| (107) | .1.. | | OSPLMPRT | "X'40" LOGICAL MESSAGE USES PARTITIONS |
| (107) | ..1. | | OSP3270E | "X'20" 3270E INBOUND, SET BY MCP TESTED BY MIN |
| (107) | ...1 | | OSPNDDS | "X'10" DEVICE DEPENDENT SUFFIXING NOT REQD |
| (107) | 1... | | OSPTRAN | "X'08" TIOA ALLOWS FOR TRANS- PARENCY. PASSED BY DFHTOM TO DFHPHP |
| (107) |1.. | | OSPDFMAL | "X'04" PRE 1.6 MAPS ALIGNED |
| (107) |1. | | OSPCUMAL | "X'02" CURRENT MAP IS ALIGNED |
| (107) |1 | | OSPNOMAP | "X'01" BYPASS INPUT MAPPING - SET |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (108) | BITSTRING | 1 | OSPIND04 | OSPWA INDICATOR BYTE 04 |
| (108) | 1... | | OSPDFHE | "X'80'" PRE R1.7 EDF MAP |
| (108) | .1.. | | OSPNOSC | "X'40'" REMOVE SO/SI CHARS IN DATA BY MCP RECEIVE ROUTINE |
| (108) | ..1. | | OSPSOSIM | "X'20'" SO/SI ATTRIBUTE EXISTENCE |
| (108) | ...1 | | OSPFOLD | "X'10'" UPPER CASE TRANSLATION NEEDED |
| (108) | 1... | | OSPUEDIT | "X'08'" GLUE can be called |
| (109) | BITSTRING | 1 | OSPADISP | CURRENTLY ACTIVE DISPOSITION |
| (10A) | BITSTRING | 1 | OSPDDISP | DIRECT (ORIGINATING TERMINAL) DISPOSITION |
| (10B) | BITSTRING | 1 | OSPRDISP | ROUTING DISPOSITION |
| (10C) | HALFWORD | 2 | OSPMAL | MAP ATTRIBUTE LENGTH |
| (10E) | HALFWORD | 2 | OSPDAL | DATA STRUCTURE ATTRIBUTE LENGTH |
| (110) | HALFWORD | 2 | OSPMHLL | OFFSET TO FIRST MAP FIELD |
| (112) | BITSTRING | 4 | OSPPFWRK (0) | PAGE FORMATTING WORK AREA |
| OSPPFWRK'S FIELDS ARE SEQUENCE SENSITIVE TO THE FIELDS IN TTPPFWRK | | | | |
| (112) | BITSTRING | 1 | OSPPFCL | CURRENT LINE POINTER |
| (113) | BITSTRING | 1 | OSPPFNFL | NEXT AVAILABLE FULL LINE POINTER |
| (114) | BITSTRING | 1 | OSPPFNCL | NEXT AVAILABLE COLUMN FROM LEFT |
| (115) | BITSTRING | 1 | OSPPFNCR | NEXT AVAILABLE COLUMN FROM RIGHT |
| TERMINAL PAGE RETRIEVAL PROGRAM COMMAND BUILD AREA | | | | |
| (115) | | 0 | OSPTPCBA | "*" |
| (116) | BITSTRING | 1 | OSPTPCO1 | COMMAND BYTE 1 |
| (117) | BITSTRING | 1 | OSPTPCO2 (0) | COMMAND BYTE 2 |
| (117) | BITSTRING | 1 | OSPTPPOS | POSITION BYTE (RETRIEVE, PURGE) |
| (118) | BITSTRING | 1 | OSPTPCHN | CHAIN NUMBER |
| (11A) | HALFWORD | 2 | OSPTPPAG | PAGE NUMBER |
| (11A) |11. | | OSPTPLEN | "*-OSPTPCBA" COMMAND BUILD AREA LENGTH |
| BMS RETURN INFORMATION | | | | |
| (11A) | | 0 | OSPRISTR | "*" |
| (11C) | BITSTRING | 1 | OSPRC1 | RETURN CODE BYTE ONE |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (11C) | 1... | | OSPRF | "X'80" ROUTE FAILED - NO RESOLUTIONS |
| (11C) | .1.. | | OSPRW | "X'40" ROUTE WORKED - SOME RESOLUTIONS |
| (11C) | ..1. | | OSPIET | "X'20" INVALID ERROR TERMINAL |
| (11C) | 1... | | OSPMTL | "X'08" MAP TOO LARGE |
| (11C) |1.. | | OSPCBM | "X'04" I/O AREA CANNOT BE MAPPED |
| (11C) |1. | | OSPRPI | "X'02" PAGE RETURNED INDICATOR |
| (11C) |1 | | OSPIR | "X'01" INVALID REQUEST |
| (11C) | .... .... |  | OSPNR1 | "X'00" NORMAL RESPONSE |
| (11D) | BITSTRING | 1 | OSPRC2 | RETURN CODE BYTE TWO |
| (11D) | 1... | | OSPTSIOE | "X'80" TEMPORARY STORAGE I/O ERROR |
| (11D) | .1.. | | OSPREQCD | "X'40" REQUEST CHANGE DIRECTION ERROR |
| (11D) | ..1. | | OSPUXI | "X'20" UNEXPECTED INPUT |
| (11D) | ...1 | | OSPIMN | "X'10" INVALID LDC MNEMONIC |
| (11D) | 1... | | OSPIPS | "X'08" INVALID PARTITION SET NAME |
| (11D) |1.. | | OSIPIN | "X'04" INVALID PARTITION NAME |
| (11D) |1. | | OSPIPF | "X'02" PARTITION FAIL |
| (11D) |1 | | OSPDSS | "X'01" DATASET STATUS CHANGE |
| (11E) | BITSTRING | 1 | OSPRC3 | RETURN CODE BYTE THREE |
| (11E) | ...1 | | OSPIGRQI | "X'10" SPECIFIED 'REQID' IGNORED |
| (11E) | 1... | | OSPEOC | "X'08" END-OF-CHAIN IN LAST INPUT |
| (11E) |1.. | | OSPEODS | "X'04" END-OF-DATA-SET LAST INPUT |
| (11E) |1. | | OSPIFH | "X'02" INBOUND FMH IN LAST INPUT |
| (11E) |1 | | OSPOI | "X'01" PAGEBLD OVERFLOW INDICATOR |
| (11F) | BITSTRING | 1 | OSPRI1 | RETURN INFORMATION BYTE ONE CONTAINS TERMINAL CODE (TC) |
| (120) | BITSTRING | 4 | OSPPOF (0) | PAGEBLD OVERFLOW INFORMATION |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| (120) | BITSTRING | 2 | OSPPGN | CURRENT PAGE NUMBER |
| (122) | BITSTRING | 2 | OSPOCN | OVERFLOW CONTROL NUMBER |
| (122) | | 0 | OSPCRIE | "15" END TCA CONTIG RETURN INFO |
| (122) | 1... | | OSPCRIL | "OSPCRIE-OSPRISTR" CONTIG RETURN INFO LENGTH |
| (124) | CHARACTER | 2 | OSPMSLDM | PARTNPAGE/LDC MNEMONIC |
| (126) | BITSTRING | 1 | | RESERVED |
| (126) | | 0 | OSPRIEND | "15" |
| (126) | 1.11 | | OSPRILEN | "OSPRIEND-OSPRISTR" BMS RETURN INFORMATION LENGTH |
| REGISTER SAVE AREAS - PART TWO | | | | |
| (128) | FULLWORD | 4 | OSPRSA (14) | APPLICATION PROGRAM REGISTER SAVE AREA |
| (160) | FULLWORD | 4 | OSPCPSA (14) | BMS CONTROL PROGRAM REGISTER SAVE AREA |
| (198) | CHARACTER | 256 | OSPTRTWA | TRT TABLE & WORK AREA |
| WORK AREAS AND STATUS DATA WHICH IS NOT CLEARED ON SEND PAGE OR PURGE MESSAGE | | | | |
| (298) | FULLWORD | 4 | OSPLBR6 | R6 VALUE AT LAST BLANK |
| (29C) | FULLWORD | 4 | OSPLBR8 | R8 VALUE AT LAST BLANK |
| (2A0) | FULLWORD | 4 | OSPLBR9 | R9 VALUE AT LAST BLANK |
| (2A4) | BITSTRING | 1 | OSPLBNCL | NEXT AVAILABLE COL FROM LEFT AT LAST BLANK |
| (2A5) | BITSTRING | 3 | | RESERVED |
| (2A8) | ADDRESS | 4 | OSPCPSTP | ADDRESS OF INCORE PARTITION SET |
| (2AC) | CHARACTER | 2 | OSPINPNM | NAME OF ACTUAL INPUT PARTITION |
| (2AE) | CHARACTER | 1 | OSPINPID | PID OF ACTUAL INPUT PARTITION |
| (2AF) | CHARACTER | 1 | OSPRCODE | DFHPPH RETURN CODE VALUE |
| (2B0) | HALFWORD | 2 | OSPRCVCT | RECEIVE MAP COUNT FOR EXPECTED INPUT PARTITION TRAP |
| (2B2) | CHARACTER | 1 | OSPIXPID | PID OF EXPECTED INPUT PARTITION |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---|
| (2B4) | ADDRESS | 4 | OSPMCPIN | DFHMC PIN ENTRY ADDRESS |
| (2B8) | FULLWORD | 4 | OSPMLRG (8) | REGISTER SAVE AREA FOR ML1 SORT |
| (2D8) | ADDRESS | 4 | OSPMLNL | ADDR OF ML1 NEW LINE CHARACTER |
| (2DC) | ADDRESS | 4 | OSPMLTV | ADDRESS OF VERTICAL TABRACK |
| (2E0) | ADDRESS | 4 | OSPMLTH | ADDRESS OF HORIZONTAL TABRACK |
| (2E4) | BITSTRING | 1 | OSPMLCO | ML1 SAVE COLOR ATTRIBUTE |
| (2E5) | BITSTRING | 1 | OSPMLPS | RESERVED |
| (2E6) | BITSTRING | 1 | OSPMLSW | ML1 FLAGS |
| (2E6) | 1... | | OSPMLVB | "X'80" VERTICAL TABS USED |
| (2E6) | .1.. | | OSPMLHB | "X'40" HORIZONTAL TABS USED |
| (2E7) | BITSTRING | 1 | OSPMLFR | ML1 SAVE OUTLINE ATTRIBUTE |
| (2E8) | ADDRESS | 4 | OSPMCBSV | MCB SAVE ADDRESS |
| (2EC) | HALFWORD | 2 | OSPMCAAP | OFFSET IN MCB OF APPLICATION PSET |
| (2EE) | CHARACTER | 2 | OSPTPPID | INPUT PID FOR TPR |
| (2F0) | HALFWORD | 2 | OSPTPTDL | INPUT DATA LENGTH (LESS 3270E INBOUND CONTROLS) FOR TPR |
| (2F4) | ADDRESS | 4 | OSPTPUDA | ADDRESS OF TPR INPUT DATA |
| (2F8) | CHARACTER | 1 | OSPTPAID | TPR INPUT AID |
| (2F9) | CHARACTER | 1 | OSPETBSV | SAVED IN TOM ATTR.STRIP |
| (2FA) | CHARACTER | 2 | OSPCPRTN | LAST PARTN= SLOT_VALUE |
| (2FC) | ADDRESS | 4 | OSPTOPTR | PTR-> INPUT MAPPING TIOA IN M32 |
| (300) | ADDRESS | 4 | OSPCROSP | A(SAVED OSPWA), IF TPR USES BMS WHILE CTRL=RETAIN |
| (304) | ADDRESS | 4 | OSPOVTTP | OVERFLOW TTP |
| (308) | ADDRESS | 4 | OSPSVTTP | REQUEST TTP WHILE OFTTP IS CURRENT. |
| (30C) | CHARACTER | 12 | OSPLBXA (0) | |
| (30C) | BITSTRING | 5 | OSPLBX | EXTENDED ATTR VALUES AT BLANK |
| (311) | BITSTRING | 7 | | RESERVED |

Table 447. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--|
| (318) | FULLWORD | 4 | OSPDCRSA (6) | DOMAIN CALL REGISTER SAVE AREA |
| (330) | HALFWORD | 2 | OSPCUAMC | MODIFIED CURSOR POSITION |
| (332) | BITSTRING | 1 | OSPCUA | FLAG BYTE FOR CUA SUPPORT |
| (332) | 1... | | OSPCUACL | "X'80" INDICATES CURSOR LOCATED |
| (332) | .1.. | | OSPCUAEP | "X'40" INDICATES END OF CUA PROCESSING |
| (332) | ..1. | | OSPCUASR | "X'20" INDICATES SHORT READ |
| (332) | ...1 | | OSPCUAIF | "X'10" INDICATES CUR IN THIS FLD |
| The following area accumulates 3270 data field information for the BMS global user exits. Changes to this area must be reflected in DFHMCPE & DFHXBMS | | | | |
| (334) | HALFWORD | 2 | BMXMAPCT | count of fields in map(s) |
| (336) | HALFWORD | 2 | BMXCOUNT | count of fields passed to GLUE for this request |
| (338) | HALFWORD | 2 | BMXINDEX | index to VALIDN attr value |
| (33C) | ADDRESS | 4 | BMXARRAY | address of field info array |
| (340) | ADDRESS | 4 | BMXNEXT | address of next element |
| (344) | HALFWORD | 2 | BMXELEM (0) | field info element |
| (344) | CHARACTER | 8 | BMXMAPST | mapset name |
| (34C) | CHARACTER | 7 | BMXMAP | map name |
| (353) | BITSTRING | 1 | BMXFDFB | field data flag byte |
| (354) | HALFWORD | 2 | BMXMAPLN | length of field in map |
| (356) | HALFWORD | 2 | BMXACTLN | length of data recvd/sent |
| (358) | ADDRESS | 4 | BMXDATA | address of field in TIOA |
| (35C) | ADDRESS | 4 | BMXATTR | address of attrs in TIOA |
| (360) | HALFWORD | 2 | BMXMAPOF | offset of field in MAP |
| (362) | HALFWORD | 2 | BMXBUF | offset of field in buffer |
| (362) | ..1. | | BMXLEN | "*-BMXELEM" length of element |
| (362) | ...1 ...1 | | BMXVAR | "*-BMXFDFB" length of variable info |
| (364) | CHARACTER | 1 | BMXINTAB (8) | internal array |
| (364) | | 0 | OSPEND | "*1" OSPWA END |
| (364) | | 0 | OSPLEN | "OSPEND-OSPSTART" LENGTH OF OSPWA |

PCE - Program control EXEC argument list

CONTROL BLOCK NAME = DFHPCEDS
DESCRIPTIVE NAME = CICS TS Program Control EXEC argument list
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PROGRAMMING INTERFACES

The following fields are part of the Product-sensitive Programming Interface.

PC_ADDR0
PC_ADDR1
PC_ADDR2
PC_ADDR3
PC_ADDR4
PC_ADDR5
PC_ADDR6
PC_ADDR7
PC_ADDR8
PC_ADDR9
PC_ADDRA
PC_GROUP
PC_FUNCT
PC_BITS1
PC_BITS2
PC_EIDOPT5
PC_EIDOPT6
PC_PROGRAM
PC_LENGTH
PC_INPUTMSGLEN
PC_DATALENGTH
PC_SYSID
PC_TRANSID
PC_CHANNEL

All equates for values of EIBRCODE, EIBRESP and EIBRESP2 form part of the General-purpose Programming Interface.

FUNCTION =

To define fields that may be of use to Program Control User Exits:-

- (1) The Command Level Parameter List.
- (2) EIBRCODE, EIBRESP and EIBRESP2 values.
- (3) The application environment indicators

On entry to the XPCREQ and XPCREQC User exits, the EXEC parameter list is pointed to by UEPCPLPS. The EXEC parameter list for program control consists of up to eleven addresses.

The eleven addresses are defined by PC_ADDR0 to PC_ADDRA. This DSECT defines PC_ADDR0 to PC_ADDRA and the areas that they point to.

On entry to the XPCREQ and XPCREQC user exits, the copy of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP is pointed to by UEPRESP and the copy of EIBRESP2 is pointed to by UEPRESP2.

The address of an application environment flag byte pointed to by UEPIINDS is also passed to the user exit program. It contains flags which are mapped by the PC_INDS DSECT. These flags allow the exit program to decide whether the user application can access storage above or below the 16M line and which key such storage should be in, CICS or USER.

This copybook also contains equates for values of EIBRCODE, EIBRESP and EIBRESP2 used by Program Control.

LIFETIME = Lifetime of the PC command request

STORAGE CLASS = As some of the storage being mapped is the translated source in the user's application program, the storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCPLPS.

(2) Fields copied from the EIB are addressed by
UEPRCODE, UEPRESP and UEPRESP2.
(3) The exit token is addressed by UEPCCTOK
INNER CONTROL BLOCKS =
PC_ADDR_LIST declares the EXEC addresses
PC_EID defines Argument 0 pointed to by PC_ADDR0
NOTES :
DEPENDENCIES = S/370 ESA
RESTRICTIONS = None
MODULE TYPE = Control Block definition

The Command Parameter List
PC_ADDR_LIST defines eleven addresses, that form the EXEC
parameter list for Program Control.
In addition, PC_ADDR1 to PC_ADDR8 and PC_ADDRA may be modified
by a user exit.
PC_ADDR9 is not used.
Any attempt to modify PC_ADDR0 will be ignored.

Table 448.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---------------------|
| (0) | STRUCTURE | 0 | PC_ADDR_LIST | EXEC Parameter List |
| (0) | ADDRESS | 4 | PC_ADDR0 | Address 0 |
| (4) | ADDRESS | 4 | PC_ADDR1 | Address 1 |
| (8) | ADDRESS | 4 | PC_ADDR2 | Address 2 |
| (C) | ADDRESS | 4 | PC_ADDR3 | Address 3 |
| (10) | ADDRESS | 4 | PC_ADDR4 | Address 4 |
| (14) | ADDRESS | 4 | PC_ADDR5 | Address 5 |
| (18) | ADDRESS | 4 | PC_ADDR6 | Address 6 |
| (1C) | ADDRESS | 4 | PC_ADDR7 | Address 7 |
| (20) | ADDRESS | 4 | PC_ADDR8 | Address 8 |
| (24) | ADDRESS | 4 | PC_ADDR9 | Address 9 |
| (28) | ADDRESS | 4 | PC_ADDRA | Address 10 |
| (28) | ..1. 11.. | | PC_ADDR_LIST_LEN | "*-PC_ADDR_LIST" |

PC_EID defines:
(1) The type of request
(2) Existence bits indicating which addresses in the EXEC
Parameter List are valid.
(3) Bits to indicate the keywords specified.
PC_ADDR0 contains the address of PC_EID.
The following bits may be modified in a Program Control user exit.
(1) Existence bits PC_EXIST2,
PC_EXIST3,
PC_EXIST4,
PC_EXIST5,
PC_EXIST6,
PC_EXIST7,
PC_EXIST8 and
PC_EXISTA
(2) The keyword descriptor PC_SYNCONRET_X.
Any attempt to modify any other part of PC_EID will be ignored.

Table 449.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------|
| (0) | STRUCTURE | 0 | PC_EID | Argument 0 for Program Control |

Table 449. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------|--|
| (0) | CHARACTER | 1 | PC_GROUP | Group Code |
| (0) | 111. | | PC_PROGRAM_GRP | "X'0E'" All Program Control Requests ... |
| (1) | CHARACTER | 1 | PC_FUNCT | Function Code |
| (1) |1. | | PC_LINK | "X'02'" LINK Request |
| <p>The next two bytes contain existence bits for the addresses in the EXEC parameter list. For example, PC_ADDR1 should not be used unless PC_EXIST1 is set on. PC_ADDR0 is always valid and has no existence bit.</p> | | | | |
| (2) | BITSTRING | 1 | PC_BITS1 | First 8 existence bits |
| (2) | 1... | | PC_EXIST1 | "X'80'" PC_ADDR1 is valid if the command specifies PROGRAM. |
| (2) | .1.. | | PC_EXIST2 | "X'40'" PC_ADDR2 is valid if the command specifies COMMAREA. This bit may be modified by a user exit. |
| (2) | ..1. | | PC_EXIST3 | "X'20'" PC_ADDR3 is valid if the command specifies LENGTH. This bit may be modified by a user exit. |
| (2) | ...1 | | PC_EXIST4 | "X'10'" PC_ADDR4 is valid if the command specifies INPUTMSG. This bit may be modified by a user exit. |
| (2) | 1... | | PC_EXIST5 | "X'08'" PC_ADDR5 is valid if the command specifies INPUTMSGLEN. This bit may be modified by a user exit. |
| (2) |1.. | | PC_EXIST6 | "X'04'" PC_ADDR6 is valid if the command specifies DATALENGTH. This bit may be modified by a user exit. |
| (2) |1. | | PC_EXIST7 | "X'02'" PC_ADDR7 is valid if the command specifies SYSID. This bit may be modified by a user exit. |
| (2) |1 | | PC_EXIST8 | "X'01'" PC_ADDR8 is valid if the command specifies TRANSID. This bit may be modified by a user exit. |
| (3) | BITSTRING | 1 | PC_BITS2 | Second eight existence bits |
| (3) | 1... | | PC_EXIST9 | "X'80'" This bit is not used |
| (3) | .1.. | | PC_EXISTA | "X'40'" PC_ADDRA is valid if the command specifies CHANNEL. This bit may be modified by a user exit. |

Table 449. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|----------------|-------------------------------|
| The next byte is reserved. | | | | |
| (4) | BITSTRING | 1 | PC_EIDOPT4 | Reserved |
| The next 2 bytes describe the keywords on the command For example, if PC_SYNCONRET_X is set on, the command included the SYNCONRETURN keyword. If PC_SYNCONRET X is set off, the command did not include the SYNCONRETURN keyword. | | | | |
| (5) | BITSTRING | 1 | PC_EIDOPT5 | Options Byte 1 |
| (6) | BITSTRING | 1 | PC_EIDOPT6 | Options byte 2 |
| (6) | 1... | | PC_SYNCONRET_X | "X'80" SYNCONRETURN specified |

The following definitions define the variables addressed by the remainder of the EXEC parameter list

PC_ADDR1 addresses program name

Table 450.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 0 | PC_DATA1 | Addressed by PC_ADDR1 |
| (0) | CHARACTER | 8 | PC_PROGRAM | program name |

PC_ADDR2 addresses the COMMAREA whose length is given
in PC_ADDR3

PC_ADDR3 addresses the length of the COMMAREA

Table 451.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 0 | PC_DATA3 | Addressed by PC_ADDR3 |
| (0) | HALFWORD | 2 | PC_LENGTH | Value of LENGTH |

PC_ADDR4 addresses the INPUTMSG whose length is given
in PC_ADDR5

PC_ADDR5 addresses the length of the INPUTMSG

Table 452.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-----------------------------|
| (0) | STRUCTURE | 0 | PC_DATA5 | Addressed by PC_ADDR5 |
| (0) | HALFWORD | 2 | PC_INPUTMSGLEN | Area for LENGTH of INPUTMSG |

PC_ADDR6 addresses length of COMMAREA to be sent

Table 453.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-----------------------|
| (0) | STRUCTURE | 0 | PC_DATA6 | Addressed by PC_ADDR6 |
| (0) | HALFWORD | 2 | PC_DATALENGTH | Area For DATALENGTH |

PC_ADDR7 addresses SYSID

Table 454.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 0 | PC_DATA7 | Addressed by PC_ADDR7 |
| (0) | CHARACTER | 4 | PC_SYSID | Area For SYSID |

PC_ADDR8 addresses TRANSID

Table 455.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 0 | PC_DATA8 | Addressed by PC_ADDR8 |
| (0) | CHARACTER | 4 | PC_TRANSID | Area For TRANSID |

PC_ADDRA addresses CHANNEL

Table 456.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------------------|----------------------------|
| (0) | STRUCTURE | 0 | PC_DATAA | Addressed by PC_ADDRA |
| (0) | CHARACTER | 16 | PC_CHANNEL | Area For CHANNEL name |
| Start of general use programming interface. EIBRCODE, EIBRESP and EIBRESP2 Equates for EIBRCODE values used by Program Control | | | | |
| (10) | BITSTRING | 6 | PC_OK_EIBRCODE | OK |
| (10) |1 | | PC_PGMIDERR_EIBRCODE | "X'01" |
| (10) | .111 1.1. | | PC_CHANNELERR_EIBRCODE | "X'7A" |
| (10) | 11.1 | | PC_SYSIDERR_EIBRCODE | "X'D0" |
| (10) | 111. | | PC_INVREQ_EIBRCODE | "X'E0" |
| (10) | 111. ...1 | | PC LENGERR_EIBRCODE | "X'E1" |
| (10) | 1111 ...1 | | PC_TERMERR_EIBRCODE | "X'F1" |
| (10) | 11.1 1..1 | | PC_RESUNAVAIL_EIBRCODE | "X'D9" |
| Equates for EIBRESP values used by Program Control | | | | |
| (10) | .... .... |  | PC_OK_EIBRESP | "0" OK |
| (10) | ...1 | | PC_INVREQ_EIBRESP | "16" invalid request |
| (10) | ...1 .11. | | PC LENGERR_EIBRESP | "22" length error |
| (10) | ...1 1.11 | | PC_PGMIDERR_EIBRESP | "27" program id error |
| (10) | ..11 1.1 | | PC_SYSIDERR_EIBRESP | "53" system id error |
| (10) | .1.. .11. | | PC_NOTAUTH_EIBRESP | "70" not authorised |
| (10) | .1.1 ...1 | | PC_TERMERR_EIBRESP | "81" terminal error |
| (10) | .111 1..1 | | PC_RESUNAVAIL_EIBRESP | "121" Resource unavailable |
| (10) | .111 1.1. | | PC_CHANNELERR_EIBRESP | "122" Channel error |
| Equates for EIBRESP2 values used by Program Control | | | | |
| (10) | .... .... |  | PC_OK_EIBRESP2 | "0" OK |
| (10) |1 | | PC_CHANNELERR_EIBRESP2 | "1" Invalid CHANNEL name |
| (10) |1 | | PC_PGMIDERR_1_EIBRESP2 | "1" PPT entry not located |
| (10) |1. | | PC_PGMIDERR_2_EIBRESP2 | "2" program disabled |

Table 456. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------------|--|
| (10) |11 | | PC_PGMIDERR_3_EIBRESP2 | "3" program not found in load library |
| (10) | 1... | | PC_INVREQ_1_EIBRESP2 | "8" INPUTMSG without terminal |
| (10) | 1.11 | | PC LENGERR_1_EIBRESP2 | "11" LENGTH < 0 |
| (10) | 11.. | | PC LENGERR_2_EIBRESP2 | "12" DATALENGTH < 0 |
| (10) | 11.1 | | PC LENGERR_3_EIBRESP2 | "13" DATALENGTH > LENGTH |
| (10) | 111. | | PC_INVREQ_2_EIBRESP2 | "14" SYNCONRETURN invalid |
| (10) | 1111 | | PC_INVREQ_3_EIBRESP2 | "15" TRANSID invalid |
| (10) | ...1 | | PC_INVREQ_4_EIBRESP2 | "16" TRANSID blank |
| (10) | ...1 ...1 | | PC_TERMERR_1_EIBRESP2 | "17" TERMERR raised |
| (10) | ...1 ..1. | | PC_SYSIDERR_1_EIBRESP2 | "18" SYSIDERR raised |
| (10) | ...1 ..11 | | PC_INVREQ_5_EIBRESP2 | "19" INPUTMSG specified on DPL request |
| (10) | ...1 .1.. | | PC_SYSIDERR_2_EIBRESP2 | "20" DPL not supported over LU6.1 |
| (10) | ...1 .1.1 | | PC_SYSIDERR_3_EIBRESP2 | "21" Type of request not supported by receiver e.g. LINK CHANNEL to be executed a CICS that does not support CHANNEL |
| (10) | .11. .1.1 | | PC_NOTAUTH_1_EIBRESP2 | "101" resource security check failed |
| End of general use programming interface. | | | | |

PEP - Program error program commarea

Descriptive Name = Commarea for User Program Error Program

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Function =

Commarea for PEP; created by DFHACP, passed to User PEP

Notes:

Dependencies = S/370

Restrictions = none

Register Conventions = none

Patch Label = none

Module Type = copy

Attributes = copy

Entry Point = none

Purpose = copybook

Linkage = none

Input = none

Output = none

Exit-normal = none

Exit-error = none

External References =

Routines =
 Data Areas = none
 Control Blocks = none
 Global Variables = none
 Tables = none
 Macros =

 Description
 Copybook for Commarea for User's Program Error Program

Table 457.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---|--|
| (0) | STRUCTURE | 560 | DFHPEP_COMMAREA | |
| Standard header section | | | | |
| (0) | CHARACTER | 4 | PEP_COM_STANDARD | |
| (0) | CHARACTER | 1 | PEP_COM_FUNCTION | always '1' |
| (1) | CHARACTER | 2 | PEP_COM_COMPONENT | always 'PC' |
| (3) | CHARACTER | 1 | PEP_COM_RESERVED | Reserved |
| Abend codes and EIB | | | | |
| (4) | CHARACTER | 4 | PEP_COM_CURRENT_ABEND_CODE | current abcode |
| (8) | CHARACTER | 4 | PEP_COM_ORIGINAL_ABEND_CODE | original abcode |
| (C) | CHARACTER | 85 | PEP_COM_USERS_EIB | EIB at abend |
| Debugging information | | | | |
| (64) | CHARACTER | 84 | PEP_COM_DEBUG | |
| (64) | CHARACTER | 8 | PEP_COM_ABPROGRAM | ABENDING program |
| (6C) | CHARACTER | 8 | PEP_COM_PSW | PSW at abend |
| (74) | UNSIGNED | 4 | PEP_COM_REGISTERS (4294967312:341915408) | regs at abend |
| (B4) | UNSIGNED | 1 | PEP_COM_KEY | execution key in form x'0n' (ASRA and ASRB) |
| (B5) | UNSIGNED | 1 | PEP_COM_STORAGE_HIT | storage hit by 0C4 (ASRA only) |
| (B6) | UNSIGNED | 1 | PEP_COM_SPACE | sub/basespce |
| (B7) | CHARACTER | 1 | PEP_COM_PADDING | Reserved |
| Return code - return ok or disable transaction | | | | |
| (B8) | UNSIGNED | 4 | PEP_COM_RETURN_CODE | |
| Additional PSW EC mode information | | | | |
| (BC) | CHARACTER | 8 | PEP_COM_INT | PSW interrupt codes |
| (C4) | ADDRESS | 4 | * | Reserved |
| Breaking Event Address | | | | |
| (C8) | ADDRESS | 8 | PEP_COM_BEAR | Breaking Event Address |
| Additional Register Information | | | | |
| (D0) | BIT(8) | 1 | PEP_COM_FLAG1 | Existence bits |
| (D0) | 1... | | PEP_COM_GP64_REGS_AVAIL | 64-bit GPR |

Table 457. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-----------|-----|--|------------------|
| (D0) | .1. | | PEP_COM_ACCESS_REGS_AVAIL | Access regs |
| (D0) | ..1. | | PEP_COM_ORIGINAL_FPR_AVAIL | Original FPR |
| (D0) | ...1 | | PEP_COM_ADDITIONAL_FPR_AVAIL | Additional FPR |
| (D0) | 1111 | | * | |
| (D1) | CHARACTER | 7 | * | |
| (D8) | ADDRESS | 8 | PEP_COM_GP64_REGISTERS (4294967312:341913600) | 64-bit GPR |
| (158) | CHARACTER | 132 | PEP_COM_FP_REGISTERS | FPR values |
| (158) | ADDRESS | 8 | PEP_COM_FP_REGISTER0 | FP Register 0 |
| (160) | ADDRESS | 8 | PEP_COM_FP_REGISTER1 | FP Register 1 |
| (168) | ADDRESS | 8 | PEP_COM_FP_REGISTER2 | FP Register 2 |
| (170) | ADDRESS | 8 | PEP_COM_FP_REGISTER3 | FP Register 3 |
| (178) | ADDRESS | 8 | PEP_COM_FP_REGISTER4 | FP Register 4 |
| (180) | ADDRESS | 8 | PEP_COM_FP_REGISTER5 | FP Register 5 |
| (188) | ADDRESS | 8 | PEP_COM_FP_REGISTER6 | FP Register 6 |
| (190) | ADDRESS | 8 | PEP_COM_FP_REGISTER7 | FP Register 7 |
| (198) | ADDRESS | 8 | PEP_COM_FP_REGISTER8 | FP Register 8 |
| (1A0) | ADDRESS | 8 | PEP_COM_FP_REGISTER9 | FP Register 9 |
| (1A8) | ADDRESS | 8 | PEP_COM_FP_REGISTER10 | FP Register 10 |
| (1B0) | ADDRESS | 8 | PEP_COM_FP_REGISTER11 | FP Register 11 |
| (1B8) | ADDRESS | 8 | PEP_COM_FP_REGISTER12 | FP Register 12 |
| (1C0) | ADDRESS | 8 | PEP_COM_FP_REGISTER13 | FP Register 13 |
| (1C8) | ADDRESS | 8 | PEP_COM_FP_REGISTER14 | FP Register 14 |
| (1D0) | ADDRESS | 8 | PEP_COM_FP_REGISTER15 | FP Register 15 |
| (1D8) | ADDRESS | 4 | PEP_COM_FPC_REGISTER | FPC register |
| (1DC) | ADDRESS | 4 | PEP_COM_ACCESS_REGISTERS (4294967312:341913600) | Access Registers |
| (21C) | ADDRESS | 4 | * | Spare |
| 16 byte PSW at time of abend | | | | |
| (220) | CHARACTER | 16 | PEP_COM_PSW16 | 16 byte PSW |

Constants

Table 458.

| Len | Type | Value | Name | Description |
|----------------------------|---------|-------|------------------------|-------------|
| PEP_COM_RETURN_CODE values | | | | |
| 4 | DECIMAL | 4 | PEP_COM_RETURN_DISABLE | |
| | | | | disable |
| 4 | DECIMAL | 0 | PEP_COM_RETURN_OK | |
| | | | | ok |
| PEP_COM_STORAGE_HIT values | | | | |

Table 458. (continued)

| Len | Type | Value | Name | Description |
|-----------------------------|---------|-------|-------------------|------------------|
| 1 | DECIMAL | 0 | PEP_COM_NO_HIT | No hit or no 0C4 |
| 1 | DECIMAL | 1 | PEP_COM_CDSA_HIT | CDSA hit |
| 1 | DECIMAL | 2 | PEP_COM_ECDSA_HIT | ECDSA hit |
| 1 | DECIMAL | 3 | PEP_COM_ERDSA_HIT | ERDSA hit |
| 1 | DECIMAL | 4 | PEP_COM_RDSA_HIT | RDSA hit |
| 1 | DECIMAL | 5 | PEP_COM_EUDSA_HIT | EUDSA hit |
| 1 | DECIMAL | 6 | PEP_COM_UDSA_HIT | UDSA hit |
| 1 | DECIMAL | 7 | PEP_COM_ETDSA_HIT | ETDSA hit |
| 1 | DECIMAL | 8 | PEP_COM_GCDSA_HIT | GCDSA hit |
| 1 | DECIMAL | 9 | PEP_COM_GUDSA_HIT | GUDSA hit |
| PEP_COM_KEY values | | | | |
| 1 | DECIMAL | 9 | PEP_COM_USER_KEY | USER key |
| 1 | DECIMAL | 8 | PEP_COM_CICS_KEY | CICS key |
| PEP_COM_SPACE_ACTIVE values | | | | |
| 1 | DECIMAL | 10 | PEP_COM_SUBSPACE | Error in s/space |
| 1 | DECIMAL | 11 | PEP_COM_BASESPACE | Error in b/space |

PCUES - Program control user exits DSECT

CONTROL BLOCK NAME = DFHPCUES
 DESCRIPTIVE NAME = CICS TS Program control user exits DSECT
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 This data block describes the fields passed to the program control user exits XPCFTCH, XPCTA and XPCHAIR. .
 The storage is acquired, and the fields filled, in DFHLI1.
 LIFETIME = The storage area is created when an enabled program control exit is called and released when control is returned from the exit to program control.
 LOCATION =
 The storage is in GETMAINed in DFHLI1.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = none
 GLOBAL VARIABLES (Macro pass) = none

Table 459.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|--------------------------------------|
| (0) | STRUCTURE | 80 | DFHPCUES | program control user exits work area |
| (0) | HALFWORD | 2 | PCUE_LENGTH_OF_DSECT | |

Table 459. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|-------------------------|--|
| (2) | BIT(8) | 1 | PCUE_CONTROL_BITS | |
| (2) | 1... | | PCUECBTE | task has a terminal id |
| (2) | .1.. | | PCUENOTX | program is not EXEC level |
| (2) | ..1. | | PCUE_REAL | real entry point exists |
| (2) | ...1 | | PCUE_NO_RESUME | Resume addr not supported |
| (2) | 1... | | PCUE_NO_MODIFY | Modified entry addr not supported |
| (2) |1.. | | PCUE_NO_RESUME_ AMODE64 | AMODE 64 resume address not supported |
| (2) |11 | | * | reserved |
| (3) | BIT(8) | 1 | * | reserved |
| (4) | CHARACTER | 3 | PCUE_TASK_NUMBER | task identification number |
| (7) | CHARACTER | 1 | * | reserved |
| (8) | CHARACTER | 4 | PCUE_TRANSACTION_ID | Transaction ID |
| (C) | CHARACTER | 4 | PCUE_TERMINAL_ID | Terminal ID |
| (10) | CHARACTER | 8 | PCUE_PROGRAM_NAME | Program name |
| (18) | CHARACTER | 3 | PCUE_PROGRAM_LANGUAGE | Program language |
| (1B) | CHARACTER | 1 | * | reserved |
| (1C) | ADDRESS | 4 | PCUE_LOAD_POINT | Program load address |
| (20) | ADDRESS | 4 | PCUE_ENTRY_POINT | Program entry point addr |
| (20) | 1... | | PCUEAMOD | AMODE (31) |
| (20) | 1... | | PCAEAMOD_31 | AMODE (31) |
| (20) | BIT(30) POS(2) | 4 | * | |
| (23) |1 | | PCUEAMOD_64 | AMODE (64) |
| (24) | FULLWORD | 4 | PCUE_PROGRAM_SIZE | Program size |
| (28) | ADDRESS | 4 | PCUE_COMMAREA_ADDRESS | Commarea address, if any |
| (2C) | FULLWORD | 4 | PCUE_COMMAREA_SIZE | Commarea size |
| (30) | FULLWORD | 4 | PCUE_LOGICAL_LEVEL | chained DFHRSADS |
| (34) | ADDRESS | 4 | PCUE_BRANCH_ADDRESS | Alternate branch address |
| (34) | 1... | | PCUE_BRANCH_AMODE | AMODE of program at branch |
| (34) | BIT(31) POS(2) | 4 | * | |
| (38) | BIT(8) | 1 | PCUE_BRANCH_EXECKEY | Execution key to be used at modified address |
| (39) | CHARACTER | 3 | * | Reserved |
| (3C) | ADDRESS | 4 | PCUE_REAL_ENTRY | Real entry point for LE program |
| (40) | CHARACTER | 16 | PCUE_CHANNEL_NAME | Channel name |

Constants

Table 460.

| Len | Type | Value | Name | Description |
|--|------|-------|------------------|---------------------|
| Constants used by XPCFTCH, XPCHAIR and XPCTA | | | | |
| 1 | HEX | 80 | PCUE_BRANCH_USER | User Key, for XPCTA |
| 1 | HEX | 40 | PCUE_BRANCH_CICS | CICS Key, for XPCTA |

PGACC - Program Manager Autoinstall Commarea

CONTROL BLOCK NAME = DFHPGACC
 DESCRIPTIVE NAME = CICS/ESA (PG) Program Manager Autoinstall
 exit program parameter list
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FUNCTION = Defines the commarea passed by the Program Manager
 autoinstall function to the autoinstall exit program.
 The PGAC control block belongs to the Program Manager (PG)
 domain. The control block is used to pass the name of the
 program and the module type to the exit program and enables
 the user to return information for the program to be
 autoinstalled. Storage for the control block is obtained
 by the autoinstall function (DFHPGAI).

LIFETIME =
 The control block is created when the autoinstall function
 (DFHPGAI) is called. The storage is released on return
 from the autoinstall function.

STORAGE CLASS =
 The control block uses the automatic storage for DFHPGAI.
 This storage is above the line.

LOCATION =
 In the automatic storage for DFHPGAI at the label PGAC.
 The address and length of the control block are passed
 to the program autoinstall exit program via the commarea.

NOTES :
 This control block is provided as a sample and is not to be
 used as a general programming interface. Refer to the
 CICS/ESA Customisation Guide to determine its intended
 usage.
 Matching assembler control block is DFHPGACD
 Matching PL/I control block is DFHPGACL
 Matching COBOL control block is DFHPGACO
 Matching C control block is DFHPGACH
 The control block includes the following fields:

Input fields:
 PGAC_PROGRAM - name of program to be autoinstalled
 PGAC_MODULE_TYPE - program, mapset or partitionset

Output fields:
 PGAC_MODEL_NAME - autoinstall model program name
 PGAC_LANGUAGE - assembler, cobol, C370, LE370, PL/I
 PGAC_CEDF_STATUS - cedf status, yes or no
 PGAC_DATA_LOCATION - data location, below or any
 PGAC_EXECUTION_KEY - execution key, CICS or user
 PGAC_LOAD_ATTRIBUTE - reload, transient, resident, reusable
 PGAC_USE_LPA_COPY - use LPA copy, yes or no
 PGAC_EXECUTION_SET - use DPL subset or full API
 PGAC_REMOTE_SYSID - remote system ID
 PGAC_REMOTE_PROGID - remote program name
 PGAC_REMOTE_TRANSID - remote transaction ID
 PGAC_DYNAMIC_STATUS - DPL dynamic or not dynamic
 PGAC_CONCURRENCY - QUASIRENT or THREADSAFE or REQUIRED
 PGAC_API - CICSAPI or OPENAPI
 PGAC_JVM - the program is to be run under the JVM

PGAC_JVM_CLASS_LENGTH - length of JVM class name data
 PGAC_JVM_CLASS_DATA - allows you to specify, as a 256-byte field, the name of the OSGi service or Java class to be invoked @R36025C
 PGAC_JVM_JVMSERV - the JVMSEVER resource @R36025C
 PGAC_RETURN_CODE - OK, or don't define the program
 The return fields are initialized to blank on entry to the autoinstall exit program.
 DEPENDENCIES = S/390
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = None
 DATA AREAS = No fields in the operating system data areas are referenced.
 CONTROL BLOCKS = No reference to other control blocks.

Table 461.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------|-----------|-----|--------------------------|-------------|
| (0) | STRUCTURE | 312 | PGAC | |
| (0) | CHARACTER | 8 | PGAC_PROGRAM | |
| (8) | CHARACTER | 1 | PGAC_MODULE_TYPE | |
| (9) | CHARACTER | 34 | PGAC_RETURN_INFORMATION | |
| (9) | CHARACTER | 8 | PGAC_MODEL_NAME | |
| (11) | CHARACTER | 1 | PGAC_LANGUAGE | |
| (12) | CHARACTER | 1 | PGAC_CEDF_STATUS | |
| (13) | CHARACTER | 1 | PGAC_DATA_LOCATION | |
| (14) | CHARACTER | 1 | PGAC_EXECUTION_KEY | |
| (15) | CHARACTER | 1 | PGAC_LOAD_ATTRIBUTE | |
| (16) | CHARACTER | 1 | PGAC_USE_LPA_COPY | |
| (17) | CHARACTER | 1 | PGAC_EXECUTION_SET | |
| (18) | CHARACTER | 4 | PGAC_REMOTE_SYSID | |
| (1C) | CHARACTER | 8 | PGAC_REMOTE_PROGID | |
| (24) | CHARACTER | 4 | PGAC_REMOTE_TRANSID | |
| (28) | CHARACTER | 1 | PGAC_RETURN_CODE | |
| (29) | CHARACTER | 1 | PGAC_DYNAMIC_STATUS | |
| (2A) | CHARACTER | 1 | PGAC_CONCURRENCY | |
| Java return information | | | | |
| (2B) | CHARACTER | 1 | PGAC_JVM | |
| (2C) | HALFWORD | 2 | PGAC_JVM_CLASS_LEN | |
| (2E) | CHARACTER | 256 | PGAC_JVM_CLASS_DATA | |
| (12E) | CHARACTER | 1 | * | reserved |
| (12F) | CHARACTER | 8 | PGAC_JVM_JVMSERV | |
| (137) | CHARACTER | 1 | PGAC_RETURN_INFORMATION2 | |
| (137) | CHARACTER | 1 | PGAC_API | |

Constants

Table 462.

| Len | Type | Value | Name | Description |
|-------------------------------|-----------|-------|------------------------|-------------|
| Constants for module type. | | | | |
| 1 | CHARACTER | 1 | PGAC_TYPE_PROGRAM | |
| 1 | CHARACTER | 2 | PGAC_TYPE_MAPSET | |
| 1 | CHARACTER | 3 | PGAC_TYPE_PARTITIONSET | |
| Constants for language. | | | | |
| 1 | CHARACTER | 1 | PGAC_ASSEMBLER | |
| 1 | CHARACTER | 2 | PGAC_COBOL | |
| 1 | CHARACTER | 3 | PGAC_PLI | |
| 1 | CHARACTER | 4 | PGAC_C370 | |
| 1 | CHARACTER | 5 | PGAC_LE370 | |
| Constants for CEDF status. | | | | |
| 1 | CHARACTER | 1 | PGAC_CEDF_YES | |
| 1 | CHARACTER | 2 | PGAC_CEDF_NO | |
| Constants for data location. | | | | |
| 1 | CHARACTER | 1 | PGAC_LOCATION_BELOW | |
| 1 | CHARACTER | 2 | PGAC_LOCATION_ANY | |
| Constants for execution key. | | | | |
| 1 | CHARACTER | 1 | PGAC_CICS_KEY | |
| 1 | CHARACTER | 2 | PGAC_USER_KEY | |
| Constants for load attribute. | | | | |
| 1 | CHARACTER | 1 | PGAC_RELOAD | |
| 1 | CHARACTER | 2 | PGAC_RESIDENT | |
| 1 | CHARACTER | 3 | PGAC_TRANSIENT | |
| 1 | CHARACTER | 4 | PGAC_REUSABLE | |
| Constants for LPA status. | | | | |
| 1 | CHARACTER | 1 | PGAC_LPA_YES | |
| 1 | CHARACTER | 2 | PGAC_LPA_NO | |
| Constants for execution set. | | | | |
| 1 | CHARACTER | 1 | PGAC_DPLSUBSET | |
| 1 | CHARACTER | 2 | PGAC_FULLAPI | |
| Constants for DYNAMIC status. | | | | |
| 1 | CHARACTER | 1 | PGAC_DYNAMIC_YES | |
| 1 | CHARACTER | 2 | PGAC_DYNAMIC_NO | |
| Constants for CONCURRENCY | | | | |
| 1 | CHARACTER | 1 | PGAC_QUASIRENT | |
| 1 | CHARACTER | 2 | PGAC_THREADSAFE | |
| 1 | CHARACTER | 3 | PGAC_REQUIRED | |

Table 462. (continued)

| Len | Type | Value | Name | Description |
|--------------------------------|-----------|-------|---------------------------------|-------------|
| Constants for API | | | | |
| 1 | CHARACTER | 1 | PGAC_CICSAPI | |
| 1 | CHARACTER | 2 | PGAC_OPENAPI | |
| Constants for JVM | | | | |
| 1 | CHARACTER | 1 | PGAC_JVM_YES | |
| 1 | CHARACTER | 2 | PGAC_JVM_NO | |
| Constants for the return code. | | | | |
| 1 | CHARACTER | 1 | PGAC_RETURN_OK | |
| 1 | CHARACTER | 2 | PGAC_RETURN_DONT_DEFINE_PROGRAM | |

PGA - BMS page control area DSECT

DESCRIPTIVE NAME = CICS TS BMS PAGE CONTROL AREA DSECT

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FUNCTION = DEFINE THE BMS PAGE CONTROL AREA. THIS IS APPENDED BY DFHTPP TO THE END OF A PAGE OF DATASTREAM. TIOATDL EXCLUDES THE PGA, AND CAN THEREFORE BE USED TO ADDRESS IT.

THE PGA CONTAINS THE WCC AND ERASE FLAG FOR THE PAGE, AND INDICATES WHICH EXTENDED ATTRIBUTES ARE USED IN THIS PAGE.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = NONE

REGISTER CONVENTIONS = SEE COMMENTS IN CODE

PATCH LABEL = NOT APPLICABLE

MODULE TYPE = DSECT

MODULE SIZE = NOT APPLICABLE

ATTRIBUTES = NOT APPLICABLE

ENTRY POINT = NOT APPLICABLE

PURPOSE = SEE FUNCTION

LINKAGE = NOT APPLICABLE

INPUT = NOT APPLICABLE

OUTPUT = NOT APPLICABLE

EXIT-NORMAL = NOT APPLICABLE

EXIT-ERROR = NOT APPLICABLE

EXTERNAL REFERENCES = NONE

CONTROL BLOCKS = NOT APPLICABLE

TABLES = NOT APPLICABLE

MACROS = NONE

Table 463.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHPGADS | DUMMY SECTION-PAGE CONTROL AREA NO BASE REGISTER ESTABLISHED |
| (0) | BITSTRING | 1 | PGAEAUS2 | KJ EXT ATTRS USED IN PAGE BIT SETTINGS ARE AS FOR TTPEAUS2 |

Table 463. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (1) | BITSTRING | 1 | PGAEAUSE | EXTENDED ATTRS USED IN PAGE BIT SETTINGS ARE AS FOR TTPEAUSE |
| (2) | BITSTRING | 1 | PGAFLAG | PAGE CONTROL FLAG |
| (2) | 1... | | PGAERASE | "X'80'" ...ERASE WITH WRITE |
| (2) | .1.. | | PGAOBFYS | "X'40'" ...OBF USED IN THIS PAGE |
| (2) | .1.. | | PGAFF | "X'40'" ...FORM FEED ON THIS PAGE |
| (2) | ..1. | | PGAML1 | "X'20'" ...ML1 FORMATTED THIS PAGE |
| (2) | 1.. | | PGA16BIT | "X'04'" ...14- OR 16-BIT SBAS |
| (2) |1. | | PGAWSFYS | "X'02'" ...WSF NEEDED FOR THIS PAGE |
| (2) |1 | | PGAFMHYS | "X'01'" ...FMH PRESENT IN THIS PAGE |
| (3) | BITSTRING | 1 | PGAWCC | 3270 WRITE CONTROL CHARACTER |
| (3) | 1.. | | PGAEND | "X'00'" END OF PAGE CONTROL AREA |
| (3) | 1.. | | PGALEN | "PGAEND-DFHPGADS" LENGTH OF DSECT |

PGDDS - Public Program Definition Resource Statistics

CONTROL BLOCK NAME = DFHPGDDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHPGDPS
 DESCRIPTIVE NAME = CICS TS Public Programdef (PG Domain) Stats
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FUNCTION =
 This data area contains the Public Programdef statistics provided by the PG Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.
 There is a single instance of this data block.

LIFETIME =
 This data block is created by the PG Domain to store statistics to be passed to the user in response to a request for PROGRAMDEF statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = None

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

Table 464.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|--------------------------------|
| (0) | STRUCTURE | 0 | DFHPGDDS | Programdef Resid stats record |
| (0) | HALFWORD | 2 | PGDDS_LEN | Programdef stats record length |
| (2) | ADDRESS | 2 | PGDDS_ID | Programdef stats id |
| (4) | CHARACTER | 1 | PGDDS_VERS | Programdef stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | PGD_PROGRAM_NAME | Program Name |
| (10) | BITSTRING | 1 | PGD_PROGRAM_TYPE | Program Type |
| (11) | BITSTRING | 1 | PGD_PROGRAM_EXEC_KEY | Program CICS/USER key |
| (12) | BITSTRING | 1 | PGD_PROGRAM_DATA_LOC | Program Data Location |
| (13) | BITSTRING | 1 | PGD_PROGRAM_EXECUTION_SET | Program Execution Set |
| (14) | CHARACTER | 4 | | Reserved |
| (18) | BITSTRING | 1 | PGD_PROGRAM_LANG_DEDUCED | Program Language Deduced |
| (19) | BITSTRING | 1 | PGD_PROGRAM_LANGUAGE | Program Language |
| (1A) | BITSTRING | 1 | PGD_PROGRAM_RUNTIME_ENV | Program Runtime Environment |
| (1B) | CHARACTER | 5 | | Reserved |
| (20) | BITSTRING | 1 | PGD_PROGRAM_CONCURRENCY | Program Concurrency |
| (21) | BITSTRING | 1 | PGD_PROGRAM_API | Program API |
| (22) | CHARACTER | 3 | | Reserved |
| (25) | BITSTRING | 1 | PGD_PROGRAM_REMOTE | Program Remote |
| (26) | BITSTRING | 1 | PGD_PROGRAM_DYNAMIC | Program Dynamic |
| (27) | BITSTRING | 1 | PGD_PROGRAM_JVM | Program JVM |
| (28) | BITSTRING | 1 | PGD_PROGRAM_ENTRYPOINT | Application Entry Point |
| (29) | CHARACTER | 3 | | Reserved |
| (2C) | CHARACTER | 8 | PGD_PROGRAM_REMOTE_NAME | Remote Program name |
| (34) | CHARACTER | 4 | PGD_PROGRAM_TRAN_ID | Remote Transaction ID |
| (38) | CHARACTER | 4 | PGD_PROGRAM_REMOTE_SYSID | Remote System name |
| (3C) | CHARACTER | 4 | | Reserved |
| (40) | CHARACTER | 8 | | Reserved |
| (48) | CHARACTER | 8 | PGD_PROGRAM_JVMSEVER | Program JVM server Name |
| (50) | CHARACTER | 8 | | Reserved |
| (58) | CHARACTER | 8 | PGD_PROGRAM_DEFINE_SOURCE | Group installed from |
| (60) | BITSTRING | 8 | PGD_PROGRAM_CHANGE_TIME | Change/create time |

Table 464. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|----------------------------|---|
| (68) | CHARACTER | 8 | PGD_PROGRAM_CHANGE_USERID | Change userid |
| (70) | BITSTRING | 2 | PGD_PROGRAM_CHANGE_AGENT | Change agent |
| (72) | BITSTRING | 2 | PGD_PROGRAM_INSTALL_AGENT | Install agent |
| (74) | BITSTRING | 8 | PGD_PROGRAM_INSTALL_TIME | Install/Create time |
| (7C) | CHARACTER | 8 | PGD_PROGRAM_INSTALL_USERID | Install userid |
| (84) | BITSTRING | 4 | | Reserved |
| (84) | 1... 1... | | PGDDS_END | "*" |
| (84) | 1... 1... | | PGDDS_LENGTH | "*-PGDDS_LEN" Programdef record length |
| Constants that denote a Public PG Programdef stats record | | | | |
| (84) | .111 1... | | PGD_IDR | "120" Programdef resid stats id |
| (84) |1 | | PGD_VERS | "X'01" Record version number |
| Equates for testing PGD_PROGRAM_TYPE | | | | |
| (84) |1 | | PGD_TYPE_PROGRAM | "1" Program |
| (84) |1. | | PGD_TYPE_MAPSET | "2" Mapset |
| (84) |11 | | PGD_TYPE_PARTITIONSET | "3" Partitionset |
| Equates for testing PGD_PROGRAM_EXEC_KEY | | | | |
| (84) | .... .... |  | PGD_EXEC_KEY_NOTAPPLIC | "0" Exec key Notapplic |
| (84) |1 | | PGD_EXEC_KEY_CICS | "1" CICS exec key |
| (84) |1. | | PGD_EXEC_KEY_USER | "2" USER exec key |
| Equates for testing PGD_PROGRAM_DATA_LOC | | | | |
| (84) | .... .... |  | PGD_DATA_LOC_NOTAPPLIC | "0" Dataloc Notapplic |
| (84) |1 | | PGD_DATA_LOC_BELOW | "1" Dataloc Below |
| (84) |1. | | PGD_DATA_LOC_ANY | "2" Dataloc Any |
| Equates for testing PGD_PROGRAM_EXECUTION_SET | | | | |
| (84) | .... .... |  | PGD_EXEC_SET_NOTAPPLIC | "0" Execution set Notapplic |
| (84) |1 | | PGD_EXEC_SET_DPLSUBSET | "1" Execution set DPL subset |
| (84) |1. | | PGD_EXEC_SET_FULLAPI | "2" Execution set Full API |
| Equates for testing PGD_PROGRAM_LANG_DEDUCED | | | | |
| (84) | .... .... |  | PGD_LANG_NOTAPPLIC | "0" Language deduced Notapplic |
| (84) |1 | | PGD_LANG_NOT_DEDUCED | "1" Language not deduced |
| (84) |1. | | PGD_LANG_NOT_DEFINED | "2" Language not defined |
| (84) |11 | | PGD_LANG_ASSEMBLER | "3" Language Assembler |
| (84) |1.. | | PGD_LANG_C | "4" Language C |
| (84) |1.1 | | PGD_LANG_COBOL | "5" Language COBOL |

Table 464. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|--------------------------|--------------------------------|
| (84) |11. | | PGD_LANG_LE | "6" Language LE |
| (84) |111 | | PGD_LANG_PLI | "7" Language PL1 |
| (84) | 1... | | PGD_LANG_JAVA | "8" Language JAVA |
| Equates for testing PGD_PROGRAM_LANGUAGE | | | | |
| (84) | .... .... |  | PGD_LANGUAGE_NOTAPPLIC | "0" Language Notapplic |
| (84) |1 | | PGD_LANGUAGE_NOT_DEFINED | "1" Language not defined |
| (84) |1. | | PGD_LANGUAGE_ASSEMBLER | "2" Language Assembler |
| (84) |11 | | PGD_LANGUAGE_C | "3" Language C |
| (84) |1.. | | PGD_LANGUAGE_COBOL | "4" Language COBOL |
| (84) |1.1 | | PGD_LANGUAGE_LE | "5" Language LE |
| (84) |11. | | PGD_LANGUAGE_PLI | "6" Language PL1 |
| Equates for testing PGD_PROGRAM_RUNTIME_ENV | | | | |
| (84) | .... .... |  | PGD_RUNTIME_NOTAPPLIC | "0" Runtime Notapplic |
| (84) |1 | | PGD_RUNTIME_ENV_JVM | "1" Runtime JVM |
| (84) |1. | | PGD_RUNTIME_ENV_LE | "2" Runtime LE |
| (84) |11 | | PGD_RUNTIME_ENV_NONLE | "3" Runtime Non LE |
| (84) |1.. | | PGD_RUNTIME_ENV_XPLINK | "4" Runtime XPLink |
| Equates for testing PGD_PROGRAM_CONCURRENCY | | | | |
| (84) | .... .... |  | PGD_CONC_NOTAPPLIC | "0" Concurrency Notapplic |
| (84) |1 | | PGD_CONC_QUASIREENTRANT | "1" Concurrency Quasi-Reentrnt |
| (84) |1. | | PGD_CONC_THREADSAFE | "2" Concurrency Threadsafe |
| (84) |11 | | PGD_CONC_REQUIRED | "3" Concurrency Required |
| Equates for testing PGD_PROGRAM_API | | | | |
| (84) |1 | | PGD_API_OPENAPI | "1" OPENAPI |
| (84) |1. | | PGD_API_CICSAPI | "2" CICSAPI |
| Equates for testing PGD_PROGRAM_REMOTE | | | | |
| (84) |1 | | PGD_REMOTE_NO | "1" Remote No |
| (84) |1. | | PGD_REMOTE_YES | "2" Remote Yes |
| Equates for testing PGD_PROGRAM_DYNAMIC | | | | |
| (84) |1 | | PGD_DYNAMIC_NO | "1" Dynamic No |
| (84) |1. | | PGD_DYNAMIC_YES | "2" Dynamic Yes |
| Equates for testing PGD_PROGRAM_JVM | | | | |
| (84) |1 | | PGD_JVM_NO | "1" JVM No |
| (84) |1. | | PGD_JVM_YES | "2" JVM Yes |
| Equates for testing PGD_PROGRAM_ENTRYPOINT | | | | |
| (84) |1 | | PGD_ENTRYPOINT_NO | "1" Entry point No |
| (84) |1. | | PGD_ENTRYPOINT_YES | "2" Entry point Yes |
| Equates for testing PGD_PROGRAM_CHANGE_AGENT and INSTALL_AGENT Change Agents | | | | |

Table 464. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|-------------------------|------------------------------|
| (84) |1 | | PGD_CSDAPI_CHANGE | "0001" CSD API |
| (84) |1. | | PGD_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (84) |11 | | PGD_DREPAPI_CHANGE | "0003" DREP API |
| (84) |1.. | | PGD_CREATE_CHANGE | "0004" EXEC CREATE SPI |
| (84) |11. | | PGD_AUTOINSTALL_CHANGE | "0006" AUTOINSTALL |
| (84) |111 | | PGD_SYSTEM_CHANGE | "0007" SYSTEM Install Agents |
| (84) |1 | | PGD_CSDAPI_INSTALL | "0001" CSD API |
| (84) |1.. | | PGD_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (84) |1.1 | | PGD_GRPLIST_INSTALL | "0005" GRPLIST |
| (84) |11. | | PGD_AUTOINSTALL_INSTALL | "0006" AUTOINSTALL |
| (84) |111 | | PGD_SYSTEM_INSTALL | "0007" SYSTEM |
| (84) | 1..1 | | PGD_BUNDLE_INSTALL | "0009" BUNDLE |

PGEDS - Private Program Definition Resource Statistics

CONTROL BLOCK NAME = DFHPGEDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHPGEPS
 DESCRIPTIVE NAME = CICS TS Private Programdef (PG Domain) Stats
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 (C) Copyright IBM Corp. 2007, 2013
 FUNCTION =
 This data area contains the Private Programdef statistics provided by the PG Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the PG Domain to store statistics to be passed to the user in response to a request for PROGRAMDEF statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

Table 465.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 0 | DFHPGEDS | Programdef Resid stats record |

Table 465. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|--------------------------------|
| (0) | HALFWORD | 2 | PGEDS_LEN | Programdef stats record length |
| (2) | ADDRESS | 2 | PGEDS_ID | Programdef stats id |
| (4) | CHARACTER | 1 | PGEDS_VERS | Programdef stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 64 | PGE_PROGRAM_PLATFORM_NAME | Platform name |
| (48) | CHARACTER | 64 | PGE_PROGRAM_APPLICATION_NAME | Application name |
| (88) | FULLWORD | 4 | PGE_PROGRAM_APPL_MAJOR_VER | Application major version |
| (8C) | FULLWORD | 4 | PGE_PROGRAM_APPL_MINOR_VER | Application minor version |
| (90) | FULLWORD | 4 | PGE_PROGRAM_APPL_MICRO_VER | Application micro version |
| (94) | CHARACTER | 8 | PGE_PROGRAM_NAME | Program Name |
| (9C) | BITSTRING | 1 | PGE_PROGRAM_TYPE | Program Type |
| (9D) | BITSTRING | 1 | PGE_PROGRAM_EXEC_KEY | Program CICS/USER key |
| (9E) | BITSTRING | 1 | PGE_PROGRAM_DATA_LOC | Program Data Location |
| (9F) | BITSTRING | 1 | PGE_PROGRAM_EXECUTION_SET | Program Execution Set |
| (A0) | CHARACTER | 4 | | Reserved |
| (A4) | BITSTRING | 1 | PGE_PROGRAM_LANG_DEDUCED | Program Language Deduced |
| (A5) | BITSTRING | 1 | PGE_PROGRAM_LANGUAGE | Program Language |
| (A6) | BITSTRING | 1 | PGE_PROGRAM_RUNTIME_ENV | Program Runtime Environment |
| (A7) | CHARACTER | 5 | | Reserved |
| (AC) | BITSTRING | 1 | PGE_PROGRAM_CONCURRENCY | Program Concurrency |
| (AD) | BITSTRING | 1 | PGE_PROGRAM_API | Program API |
| (AE) | CHARACTER | 3 | | Reserved |
| (B1) | BITSTRING | 1 | PGE_PROGRAM_REMOTE | Program Remote |
| (B2) | BITSTRING | 1 | PGE_PROGRAM_DYNAMIC | Program Dynamic |
| (B3) | BITSTRING | 1 | PGE_PROGRAM_JVM | Program JVM |
| (B4) | BITSTRING | 1 | PGE_PROGRAM_ENTRYPOINT | Application Entry Point |
| (B5) | CHARACTER | 3 | | Reserved |
| (B8) | CHARACTER | 8 | PGE_PROGRAM_REMOTE_NAME | Remote Program name |
| (C0) | CHARACTER | 4 | PGE_PROGRAM_TRAN_ID | Remote Transaction ID |
| (C4) | CHARACTER | 4 | PGE_PROGRAM_REMOTE_SYSID | Remote System name |
| (C8) | CHARACTER | 4 | | Reserved |
| (CC) | CHARACTER | 8 | | Reserved |
| (D4) | CHARACTER | 8 | PGE_PROGRAM_JVMSERVER | Program JVM server Name |
| (DC) | CHARACTER | 8 | | Reserved |

Table 465. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------------|---|
| (E4) | CHARACTER | 8 | PGE_PROGRAM_DEFINE_SOURCE | Group installed from |
| (EC) | BITSTRING | 8 | PGE_PROGRAM_CHANGE_TIME | Change/create time |
| (F4) | CHARACTER | 8 | PGE_PROGRAM_CHANGE_USERID | Change userid |
| (FC) | BITSTRING | 2 | PGE_PROGRAM_CHANGE_AGENT | Change agent |
| (FE) | BITSTRING | 2 | PGE_PROGRAM_INSTALL_AGENT | Install agent |
| (100) | BITSTRING | 8 | PGE_PROGRAM_INSTALL_TIME | Install/Create time |
| (108) | CHARACTER | 8 | PGE_PROGRAM_INSTALL_USERID | Install userid |
| (110) | CHARACTER | 64 | PGE_PROGRAM_OPERATION_NAME | Operation name |
| (150) | BITSTRING | 4 | | Reserved |
| (150) | | 0 | PGEDS_END | "150" |
| (150) | | 0 | PGEDS_LENGTH | "*-PGEDS_LEN" Programdef record length |
| Constants that denote a Private PG Programdef stats record | | | | |
| (150) | 1..1 ..11 | | PGE_IDR | "147" Private Programdef resid stats id |
| (150) |1 | | PGE_VERS | "X'01" Record version number |
| Equates for testing PGE_PROGRAM_TYPE | | | | |
| (150) |1 | | PGE_TYPE_PROGRAM | "1" Program |
| (150) |1. | | PGE_TYPE_MAPSET | "2" Mapset |
| (150) |11 | | PGE_TYPE_PARTITIONSET | "3" Partitionset |
| Equates for testing PGE_PROGRAM_EXEC_KEY | | | | |
| (150) | .... .... |  | PGE_EXEC_KEY_NOTAPPLIC | "0" Exec key Notapplic |
| (150) |1 | | PGE_EXEC_KEY_CICS | "1" CICS exec key |
| (150) |1. | | PGE_EXEC_KEY_USER | "2" USER exec key |
| Equates for testing PGE_PROGRAM_DATA_LOC | | | | |
| (150) | .... .... |  | PGE_DATA_LOC_NOTAPPLIC | "0" Dataloc Notapplic |
| (150) |1 | | PGE_DATA_LOC_BELOW | "1" Dataloc Below |
| (150) |1. | | PGE_DATA_LOC_ANY | "2" Dataloc Any |
| Equates for testing PGE_PROGRAM_EXECUTION_SET | | | | |
| (150) | .... .... |  | PGE_EXEC_SET_NOTAPPLIC | "0" Execution set Notapplic |
| (150) |1 | | PGE_EXEC_SET_DPLSUBSET | "1" Execution set DPL subset |
| (150) |1. | | PGE_EXEC_SET_FULLAPI | "2" Execution set Full API |
| Equates for testing PGE_PROGRAM_LANG_DEDUCED | | | | |
| (150) | .... .... |  | PGE_LANG_NOTAPPLIC | "0" Language deduced Notapplic |
| (150) |1 | | PGE_LANG_NOT_DEDUCED | "1" Language not deduced |

Table 465. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|--------------------------|--------------------------------|
| (150) |1. | | PGE_LANG_NOT_DEFINED | "2" Language not defined |
| (150) |11 | | PGE_LANG_ASSEMBLER | "3" Language Assembler |
| (150) |1.. | | PGE_LANG_C | "4" Language C |
| (150) |1.1 | | PGE_LANG_COBOL | "5" Language COBOL |
| (150) |11. | | PGE_LANG_LE | "6" Language LE |
| (150) |111 | | PGE_LANG_PLI | "7" Language PL1 |
| (150) | 1... | | PGE_LANG_JAVA | "8" Language JAVA |
| Equates for testing PGE_PROGRAM_LANGUAGE | | | | |
| (150) | .... .... |  | PGE_LANGUAGE_NOTAPPLIC | "0" Language Notapplic |
| (150) |1 | | PGE_LANGUAGE_NOT_DEFINED | "1" Language not defined |
| (150) |1. | | PGE_LANGUAGE_ASSEMBLER | "2" Language Assembler |
| (150) |11 | | PGE_LANGUAGE_C | "3" Language C |
| (150) |1.. | | PGE_LANGUAGE_COBOL | "4" Language COBOL |
| (150) |1.1 | | PGE_LANGUAGE_LE | "5" Language LE |
| (150) |11. | | PGE_LANGUAGE_PLI | "6" Language PL1 |
| Equates for testing PGE_PROGRAM_RUNTIME_ENV | | | | |
| (150) | .... .... |  | PGE_RUNTIME_NOTAPPLIC | "0" Runtime Notapplic |
| (150) |1 | | PGE_RUNTIME_ENV_JVM | "1" Runtime JVM |
| (150) |1. | | PGE_RUNTIME_ENV_LE | "2" Runtime LE |
| (150) |11 | | PGE_RUNTIME_ENV_NONLE | "3" Runtime Non LE |
| (150) |1.. | | PGE_RUNTIME_ENV_XPLINK | "4" Runtime XPLink |
| Equates for testing PGE_PROGRAM_CONCURRENCY | | | | |
| (150) | .... .... |  | PGE_CONC_NOTAPPLIC | "0" Concurrency Notapplic |
| (150) |1 | | PGE_CONC_QUASIREENTRANT | "1" Concurrency Quasi-Reentrnt |
| (150) |1. | | PGE_CONC_THREADSAFE | "2" Concurrency Threadsafe |
| (150) |11 | | PGE_CONC_REQUIRED | "3" Concurrency Required |
| Equates for testing PGE_PROGRAM_API | | | | |
| (150) |1 | | PGE_API_OPENAPI | "1" OPENAPI |
| (150) |1. | | PGE_API_CICSAPI | "2" CICSAPI |
| Equates for testing PGE_PROGRAM_REMOTE | | | | |
| (150) |1 | | PGE_REMOTE_NO | "1" Remote No |
| (150) |1. | | PGE_REMOTE_YES | "2" Remote Yes |
| Equates for testing PGE_PROGRAM_DYNAMIC | | | | |
| (150) |1 | | PGE_DYNAMIC_NO | "1" Dynamic No |
| (150) |1. | | PGE_DYNAMIC_YES | "2" Dynamic Yes |
| Equates for testing PGE_PROGRAM_JVM | | | | |
| (150) |1 | | PGE_JVM_NO | "1" JVM No |
| (150) |1. | | PGE_JVM_YES | "2" JVM Yes |

Table 465. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|--------------------------|---------------------------------|
| Equates for testing PGE_PROGRAM_CHANGE_AGENT and INSTALL_AGENT Change Agents | | | | |
| (150) |1 | | PGE_CSDAPI_CHANGE | "0001" CSD API |
| (150) |1. | | PGE_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (150) |11 | | PGE_DREPAPI_CHANGE | "0003" DREP API |
| (150) |1.. | | PGE_CREATE_CHANGE | "0004" EXEC CREATE SPI |
| (150) |11. | | PGE_AUTOINSTALL_ CHANGE | "0006" AUTOINSTALL |
| (150) |111 | | PGE_SYSTEM_CHANGE | "0007" SYSTEM Install Agents |
| (150) |1 | | PGE_CSDAPI_INSTALL | "0001" CSD API |
| (150) |1.. | | PGE_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (150) |1.1 | | PGE_GRPLIST_INSTALL | "0005" GRPLIST |
| (150) |11. | | PGE_AUTOINSTALL_ INSTALL | "0006" AUTOINSTALL |
| (150) |111 | | PGE_SYSTEM_INSTALL | "0007" SYSTEM |
| (150) | 1..1 | | PGE_BUNDLE_INSTALL | "0009" BUNDLE |

PGGPC - Program Manager Statistics

Table 466.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|--|
| (0) | STRUCTURE | 20 | DFHPGGPS | pg global stats |
| (0) | HALFWORD | 2 | PGG_STATS_LENGTH | length of record |
| (2) | HALFWORD | 2 | PGG_STATS_ID | pg global stats id, should contain pgg_dcl_id |
| (4) | UNSIGNED | 1 | PGG_STATS_VERSION | pg global stats version |
| (5) | UNSIGNED | 3 | * | filler |
| (8) | FULLWORD | 4 | PGG_AUTO_ATTEMPTS | number of autoinstalls attempted |
| (C) | FULLWORD | 4 | PGG_AUTO_REJECTS | number of autoinstalls rejected |
| (10) | FULLWORD | 4 | PGG_AUTO_FAILURES | number of autoinstalls failed |

Constants

Table 467.

| Len | Type | Value | Name | Description |
|--|---------|-------|-----------------|----------------------------|
| The following fields define the record | | | | |
| 1 | HEX | 01 | PGG_DCL_VERSION | version number |
| 2 | DECIMAL | 23 | PGG_DCL_ID | PG global id statistics id |

PGPDS - Private JVM Program Resource Statistics

```

CONTROL BLOCK NAME = DFHPGPDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHPGPPS
DESCRIPTIVE NAME = CICS TS Private Jvmprogram (PG) Statistics
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 2002, 2013
FUNCTION =
    This data area contains the Private Jvmprogram statistics
    provided by the PG Domain.
    It is provided for use in users monitoring applications
    to map the statistics returned via the API or the
    statistics global user exit.
    There is a single instance of this data block.
LIFETIME =
    This data block is created by the PG Domain to store
    statistics to be passed to the user in response to a
    for JVMPROGRAM statistics. The storage is released when
    the user task is detached.
    The DSECT also maps the contents of part of the SMF buffer
    created by the statistics domain and is used in the
    statistics exit.
STORAGE CLASS =
LOCATION =
    The user is passed a pointer to the head of the storage
    block.
INNER CONTROL BLOCKS =
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
-----00-----

```

Table 468.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------------|--------------------------------|
| (0) | STRUCTURE | 0 | DFHPGPDS | Jvmprogram Resid stats record |
| (0) | HALFWORD | 2 | PGPDS_LEN | Jvmprogram stats record length |
| (2) | ADDRESS | 2 | PGPDS_ID | Jvmprogram stats id |
| (4) | CHARACTER | 1 | PGPDS_VERS | Jvmprogram stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 64 | PGP_JVMPROGRAM_PLATFORM_NAME | Platform name |
| (48) | CHARACTER | 64 | PGP_JVMPROGRAM_APPLICATION_NAME | Application name |
| (88) | FULLWORD | 4 | PGP_JVMPROGRAM_APPL_MAJOR_VER | Application major version |
| (8C) | FULLWORD | 4 | PGP_JVMPROGRAM_APPL_MINOR_VER | Application minor version |
| (90) | FULLWORD | 4 | PGP_JVMPROGRAM_APPL_MICRO_VER | Application micro version |
| (94) | CHARACTER | 8 | PGP_JVMPROGRAM_NAME | Jvmprogram Name |
| (9C) | CHARACTER | 7 | | Reserved |

Table 468. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------------------|---|
| (A3) | BITSTRING | 1 | PGP_JVMPROGRAM_ENTRYPOINT | Application Entry Point |
| (A4) | FULLWORD | 4 | PGP_JVMPROGRAM_USECOUNT | Jvmprogram Use count |
| (A8) | BITSTRING | 1 | PGP_JVMPROGRAM_EXEC_KEY | Jvmprogram CICS/USER key |
| (A9) | CHARACTER | 3 | | Reserved |
| (AC) | CHARACTER | 255 | PGP_JVMPROGRAM_JVMCLASS | Jvmprogram Jvmclass name |
| (1AB) | CHARACTER | 1 | | Reserved |
| (1AC) | CHARACTER | 8 | PGP_JVMPROGRAM_SERVER | Jvmserver Name |
| (1B4) | CHARACTER | 64 | PGP_JVMPROGRAM_OPERATION_NAME | Operation name |
| (1F4) | CHARACTER | 16 | | Reserved |
| (1F4) | | 0 | PGPDS_END | "*" |
| (1F4) | | 0 | PGPDS_LENGTH | "*-PGPDS_LEN" Jvmprogram record length |
| Constants that denote a PG Private Jvmprogram stats record | | | | |
| (1F4) | 1..1 ..1. | | PGP_IDR | "146" Private Jvmprogram resid stats id |
| (1F4) |1 | | PGP_VERS | "X'01" Record version number |
| Equates for testing PGP_JVMPROGRAM_EXEC_KEY | | | | |
| (1F4) |1 | | PGP_CICS_KEY | "1" CICS exec key |
| (1F4) |1. | | PGP_USER_KEY | "2" USER exec key |
| Equates for testing PGP_JVMPROGRAM_ENTRYPOINT | | | | |
| (1F4) |1 | | PGP_ENTRYPOINT_NO | "1" Entry point No |
| (1F4) |1. | | PGP_ENTRYPOINT_YES | "2" Entry point Yes |

PGRDS - Public JVM Program Resource Statistics

CONTROL BLOCK NAME = DFHPGRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHPGRPS
DESCRIPTIVE NAME = CICS TS Public Jvmprogram (PG) Statistics
Licensed Materials - Property of IBM
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5655-Y04
(C) Copyright IBM Corp. 2002, 2013

FUNCTION =

This data area contains the Public Jvmprogram statistics provided by the PG Domain.
It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.
There is a single instance of this data block.

LIFETIME =

This data block is created by the PG Domain to store statistics to be passed to the user in response to a for JVMPROGRAM statistics. The storage is released when the user task is detached.
The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the

```

        statistics exit.
STORAGE CLASS =
LOCATION =
    The user is passed a pointer to the head of the storage
    block.
INNER CONTROL BLOCKS =
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
-----00-----

```

Table 469.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------------|---|
| (0) | STRUCTURE | 0 | DFHPGRDS | Jvmprogram Resid stats record |
| (0) | HALFWORD | 2 | PGRDS_LEN | Jvmprogram stats record length |
| (2) | ADDRESS | 2 | PGRDS_ID | Jvmprogram stats id |
| (4) | CHARACTER | 1 | PGRDS_VERS | Jvmprogram stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | PGR_JVMPROGRAM_NAME | Jvmprogram Name |
| (10) | CHARACTER | 7 | | Reserved |
| (17) | BITSTRING | 1 | PGR_JVMPROGRAM_ENTRYPOINT | Application Entry Point |
| (18) | FULLWORD | 4 | PGR_JVMPROGRAM_USECOUNT | Jvmprogram Use count |
| (1C) | BITSTRING | 1 | PGR_JVMPROGRAM_EXEC_KEY | Jvmprogram CICS/USER key |
| (1D) | CHARACTER | 3 | | Reserved |
| (20) | CHARACTER | 255 | PGR_JVMPROGRAM_JVMCLASS | Jvmprogram Jvmclass name |
| (11F) | CHARACTER | 1 | | Reserved |
| (120) | CHARACTER | 8 | PGR_JVMPROGRAM_SERVER | Jvmserver Name |
| (128) | CHARACTER | 16 | | Reserved |
| (128) | | 0 | PGRDS_END | "*" |
| (128) | | 0 | PGRDS_LENGTH | "*-PGRDS_LEN" Jvmprogram record length |
| Constants that denote a PG Public Jvmprogram stats record | | | | |
| (128) | .111 .111 | | PGR_IDR | "119" Public Jvmprogram resid stats id |
| (128) |1 | | PGR_VERS | "X'01" Record version number |
| Equates for testing PGR_JVMPROGRAM_EXEC_KEY | | | | |
| (128) |1 | | PGR_CICS_KEY | "1" CICS exec key |
| (128) |1. | | PGR_USER_KEY | "2" USER exec key |
| Equates for testing PGR_JVMPROGRAM_ENTRYPOINT | | | | |
| (128) |1 | | PGR_ENTRYPOINT_NO | "1" Entry point No |
| (128) |1. | | PGR_ENTRYPOINT_YES | "2" Entry point Yes |

PIRDS - Pipeline Resource Statistics

CONTROL BLOCK NAME = DFHPIRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHPIRPS
DESCRIPTIVE NAME = CICS TS Pipeline Domain (Pipeline) Statistics
Licensed Materials - Property of IBM
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5655-Y04
(C) Copyright IBM Corp. 2004, 2013

FUNCTION =
This data area contains the pipeline statistics provided by the PI Domain.
It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.
There is a single instance of this data block.

LIFETIME =
This data block is created by the Pipeline Domain to store statistics to be passed to the user in response to a for pipeline statistics. The storage is released when the user task is detached.
The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = None

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHPIRDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 470.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|---------------------------------|
| (0) | STRUCTURE | 0 | DFHPIRDS | Pipeline Resid stats record |
| (0) | HALFWORD | 2 | PIRDS_LEN | Pipeline stats record length |
| (2) | ADDRESS | 2 | PIRDS_ID | Pipeline stats id |
| (4) | CHARACTER | 1 | PIRDS_VERS | Pipeline stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | PIR_PIPELINE_NAME | Pipeline name |
| (10) | BITSTRING | 1 | PIR_PIPELINE_MODE | Pipeline mode |
| (11) | BITSTRING | 7 | | Reserved |
| (18) | BITSTRING | 8 | | Reserved |
| (20) | BITSTRING | 255 | PIR_CONFIGURATION_ FILE | Pipeline configuration file |
| (11F) | BITSTRING | 1 | | Reserved |
| (120) | BITSTRING | 255 | PIR_SHELF_DIRECTORY | Pipeline shelf directory |
| (21F) | BITSTRING | 1 | | Reserved |
| (220) | BITSTRING | 255 | PIR_WSDIR_DIRECTORY | Pipeline WSDIR pickup directory |
| (31F) | BITSTRING | 1 | | Reserved |

Table 470. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|------------------------------|--|
| (320) | FULLWORD | 4 | PIR_PIPELINE_USE_ COUNT | Pipeline use count |
| (324) | BITSTRING | 4 | | Reserved |
| (328) | BITSTRING | 8 | | Reserved |
| (330) | BITSTRING | 8 | | Reserved |
| (338) | BITSTRING | 8 | | Reserved |
| (340) | BITSTRING | 255 | | Reserved |
| (43F) | BITSTRING | 1 | | Reserved |
| (440) | BITSTRING | 16 | | Reserved |
| (450) | CHARACTER | 8 | PIR_PIPELINE_DEFINE_ SOURCE | Group installed from |
| (458) | BITSTRING | 8 | PIR_PIPELINE_CHANGE_ TIME | Change/create time |
| (460) | CHARACTER | 8 | PIR_PIPELINE_CHANGE_ USERID | Change userid |
| (468) | BITSTRING | 2 | PIR_PIPELINE_CHANGE_ AGENT | Change agent |
| (46A) | BITSTRING | 2 | PIR_PIPELINE_ INSTALL_AGENT | Install agent |
| (46C) | BITSTRING | 8 | PIR_PIPELINE_ INSTALL_TIME | Install/Create time |
| (474) | CHARACTER | 8 | PIR_PIPELINE_ INSTALL_USERID | Install userid |
| (47C) | CHARACTER | 8 | PIR_PIPELINE_ MSGFORMAT | Message format |
| (47C) | | 0 | PIRDS_END | "*" |
| (47C) | | 0 | PIRDS_LENGTH | "*-PIRDS_LEN" Pipeline record length |
| Constants that denote a PI pipeline stats record | | | | |
| (47C) | .11. 1..1 | | PIRIDR | "105" Pipeline resid stats id |
| (47C) |1 | | PIR_VERS | "X'01" Record version number |
| (47C) | .... .. |  | PIR_MODE_UNKNOWN | "X'00" Pipeline mode - unknown |
| (47C) |1 | | PIR_MODE_PROVIDER | "X'01" Pipeline mode - provider |
| (47C) |1. | | PIR_MODE_REQUESTER | "X'02" Pipeline mode - requester Change Agents |
| (47C) |1 | | PIR_CSDAPI_CHANGE | "0001" CSD API |
| (47C) |1. | | PIR_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (47C) |11 | | PIR_DREPAPI_CHANGE | "0003" DREP API |
| (47C) |1.. | | PIR_CREATE_CHANGE | "0004" EXEC CREATE SPI Install Agents |
| (47C) |1 | | PIR_CSDAPI_INSTALL | "0001" CSD API |
| (47C) |1.. | | PIR_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (47C) |1.1 | | PIR_GRPLIST_INSTALL | "0005" GRPLIST |
| (47C) | 1..1 | | PIR_BUNDLE_INSTALL | "0009" Install Agent - BUNDLE |

PIWDS - Webservice Resource Statistics

CONTROL BLOCK NAME = DFHPIWDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHPIWPS
DESCRIPTIVE NAME = CICS TS Pipeline Domain (Webservice) Statistics
Licensed Materials - Property of IBM
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5655-Y04
(C) Copyright IBM Corp. 2004, 2009

FUNCTION =
This data area contains the webservice statistics provided by the PI Domain.
It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.
There is a single instance of this data block.

LIFETIME =
This data block is created by the Pipeline Domain to store statistics to be passed to the user in response to a for webservice statistics. The storage is released when the user task is detached.
The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = None

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHPIWDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 471.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|--------------------------------|
| (0) | STRUCTURE | 0 | DFHPIWDS | Webservice Resid stats record |
| (0) | HALFWORD | 2 | PIWDS_LEN | Webservice stats record length |
| (2) | ADDRESS | 2 | PIWDS_ID | Webservice stats id |
| (4) | CHARACTER | 1 | PIWDS_VERS | Webservice stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 32 | PIW_WEBSERVICE_NAME | Webservice name |
| (28) | BITSTRING | 1 | PIW_PROGRAM_INTERFACE | Webservice program interface |
| (29) | BITSTRING | 1 | PIW_MSG_VALIDATION | Webservice msg validation |
| (2A) | BITSTRING | 6 | | Reserved |
| (30) | CHARACTER | 8 | PIW_PIPELINE_NAME | Webservice pipeline name |
| (38) | CHARACTER | 8 | PIW_URIMAP_NAME | Webservice urimap name |
| (40) | BITSTRING | 8 | | Reserved |
| (48) | BITSTRING | 255 | PIW_WSBIND_FILE | Webservice WSBind file |
| (147) | BITSTRING | 1 | | Reserved |

Table 471. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------------------|--|
| (148) | BITSTRING | 255 | PIW_WSDL_FILE | Webservice WSDL file |
| (247) | BITSTRING | 1 | | Reserved |
| (248) | BITSTRING | 255 | PIW_WSDL_BINDING | Webservice WSDL binding |
| (347) | BITSTRING | 1 | | Reserved |
| (348) | BITSTRING | 255 | PIW_ENDPOINT_URI | Webservice ENDPOINT URI |
| (447) | BITSTRING | 1 | | Reserved |
| (448) | BITSTRING | 8 | | Reserved |
| (450) | CHARACTER | 8 | PIW_WEBSERVICE_ PROGRAM | Webservice program name |
| (458) | CHARACTER | 16 | PIW_CONTAINER_NAME | Webservice container name |
| (468) | CHARACTER | 16 | | Reserved |
| (478) | FULLWORD | 4 | PIW_WEBSERVICE_USE_ COUNT | Webservice use count |
| (47C) | BITSTRING | 4 | | Reserved |
| (480) | BITSTRING | 8 | | Reserved |
| (488) | BITSTRING | 8 | | Reserved |
| (490) | BITSTRING | 255 | PIW_ARCHIVE_FILE | Webservice archive file |
| (58F) | BITSTRING | 1 | | Reserved |
| (590) | BITSTRING | 16 | | Reserved |
| (5A0) | CHARACTER | 8 | PIW_WEBSERVICE_ DEFINE_SOURCE | Group installed from |
| (5A8) | BITSTRING | 8 | PIW_WEBSERVICE_ CHANGE_TIME | Change/create time |
| (5B0) | CHARACTER | 8 | PIW_WEBSERVICE_ CHANGE_USERID | Change userid |
| (5B8) | BITSTRING | 2 | PIW_WEBSERVICE_ CHANGE_AGENT | Change agent |
| (5BA) | BITSTRING | 2 | PIW_WEBSERVICE_ INSTALL_AGENT | Install agent |
| (5BC) | BITSTRING | 8 | PIW_WEBSERVICE_ INSTALL_TIME | Install/Create time |
| (5C4) | CHARACTER | 8 | PIW_WEBSERVICE_ INSTALL_USERID | Install userid |
| (5C4) | | 0 | PIWDS_END | "15g1" |
| (5C4) | | 0 | PIWDS_LENGTH | "*-PIWDS_LEN" Webservice record length |
| Constants that denote a PI webservice stats record | | | | |
| (5C4) | .11. 1.1. | | PIWIDR | "106" Webservice resid stats id |
| (5C4) |1 | | PIW_VERS | "X'01" Record version number |
| (5C4) | .... .... |  | PIW_INTERFACE_ NOTAPPLIC | "X'00" Program interface - notapplic |
| (5C4) |1 | | PIW_INTERFACE_CHANNEL | "X'01" Program interface - channel |

Table 471. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|-------------------------|---|
| (5C4) |1. | | PIW_INTERFACE_ COMMAREA | "X'02'" Program interface - commarea |
| (5C4) |1 | | PIW_VALIDATION_NO | "X'01'" Webservice msg validation - No |
| (5C4) |1. | | PIW_VALIDATION_YES | "X'02'" Webservice msg validation - Yes Change Agents |
| (5C4) |1 | | PIW_CSDAPI_CHANGE | "0001" CSD API |
| (5C4) |1. | | PIW_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (5C4) |11 | | PIW_DREPAPI_CHANGE | "0003" DREP API |
| (5C4) |1.. | | PIW_CREATE_CHANGE | "0004" EXEC CREATE SPI |
| (5C4) | 1... | | PIW_DYNAMIC_CHANGE | "0008" DYNAMIC Install Agents |
| (5C4) |1 | | PIW_CSDAPI_INSTALL | "0001" CSD API |
| (5C4) |1.. | | PIW_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (5C4) |1.1 | | PIW_GRPLIST_INSTALL | "0005" GRPLIST |
| (5C4) | 1... | | PIW_DYNAMIC_INSTALL | "0008" DYNAMIC |
| (5C4) | 1..1 | | PIW_BUNDLE_INSTALL | "0009" BUNDLE |

PLT - Program list table entry

CONTROL BLOCK NAME = DFHPLTDS
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS Program List Table Entry
 Licensed Materials - Property of IBM
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 5655-Y04
 (C) Copyright IBM Corp. 1993
 FUNCTION =
 Defines an entry in a PLT, a list of programs to be invoked.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 PN= REASON REL YYMMDD HDXXIII : REMARKS

Table 472.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHPLTDS | DUMMY SECTION - PGM LIST TABLE |
| (0) | CHARACTER | 8 | PLTPID | PROGRAM IDENTIFICATION |
| (0) | 1... | | PLTEL | "(*-PLTPID)" PGM LST TABLE ENTRY LENGTH |

PFT - Profile table entry

Table 473.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 106 | DFHPPFPS | |
| (0) | CHARACTER | 106 | PPFED | |
| (0) | CHARACTER | 8 | PPFNAME | PROFILE NAME |
| (8) | UNSIGNED | 2 | PPFENL | ENTRY LENGTH |
| (A) | UNSIGNED | 1 | PPFTYPE | TYPE OF ENTRY, 3=PROFILE |
| (B) | CHARACTER | 1 | * | (SPACER) |
| (C) | BIT(8) | 1 | PPFFLAGS | FLAGS |
| (C) | 1... | | PPFDYNA | ENTRY DYNAMICALLY ADDED |
| (C) | .111 1111 | | * | RESERVED |
| (D) | CHARACTER | 3 | * | RESERVED |
| (10) | CHARACTER | 5 | PPFJINF | 5 BYTES MOVED TO TCTTE |
| (10) | BIT(8) | 1 | PPFMIOAJ | TERMINAL MSG I/O & JOURNAL |
| (10) | 1... | | PPFMFMHA | ALL FMH'S TO APPLICATION |
| (10) | .1.. | | PPFMFMHE | (EODS) |
| (10) | ..1. | | PPFMIMIO | RESERVED |
| (10) | ...1 | | PPFMDLIO | RESERVED |
| (10) | 1... | | PPFMFMHD | (DIP) |
| (10) |1.. | | PPFMLRQ | LOGICAL REC PRESENT REQUIRED |
| (10) |1. | | PPFMJLI | AUTO INPUT MSG JOURNALLING |
| (10) |1 | | PPFMJLO | AUTO OUTPUT MSG JOURNALLING |
| (11) | BIT(8) | 1 | PPFEXTOP | EXTRACT OPTIONS |
| (11) | 1... | | PPFEXNO | EXTRACT=NO |
| (11) | .1.. | | PPFEXAT | EXTRACT=ATTACH |
| (11) | ..1. | | * | RESERVED |
| (11) | ...1 | | * | RESERVED |
| (11) | 1... | | * | RESERVED |
| (11) |1.. | | * | RESERVED |
| (11) |1. | | * | RESERVED |
| (11) |1 | | * | RESERVED |
| (12) | BIT(8) | 1 | PPFOPT2 | EXTRA OPTIONS |
| (12) | 1... | | PPFSRAQ | READ AHEAD QUEUING SUPPORT |

Table 473. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (12) | .1. | | PPFUCTRN | UPPER CASE TRANSLATE REQUIRED * |
| (12) | ..1. | | * | RESERVED |
| (12) | ...1 | | * | RESERVED |
| (12) | 1... | | * | RESERVED |
| (12) |1.. | | * | RESERVED |
| (12) |1. | | * | RESERVED |
| (12) |1 | | * | RESERVED |
| (13) | UNSIGNED | 1 | PPFMSJID | TERM MSG JOURNAL FILE ID |
| (14) | UNSIGNED | 1 | PPFNEPC | NODE ERROR PROGRAM CLASS |
| (15) | CHARACTER | 2 | PPFMPCRQ | TERMINAL MSG PROT.REQUIRED |
| (15) | BIT(8) | 1 | * | 1ST BYTE |
| (16) | BIT(8) | 1 | PPFMPFLG | 2ND BYTE - SUPPORTED BITS: |
| (16) | 111. | | * | RESERVED |
| (16) | ...1 | | PPFMPCTL | X'10' = CHAIN CONTROL(NOT SPI) |
| (16) | 1... | | * | RESERVED |
| (16) |1.. | | PPFMPPMSG | X'04' = MESSAGE INTEGRITY |
| (16) |1. | | * | RESERVED |
| (16) |1 | | PPFMPPONW | X'01' = ONE WRITE OPTION |
| (17) | CHARACTER | 2 | PPFMPCOP | TERMINAL MSG PROT.OPTIONAL (NOT SUPPORTED IN SPI) |
| (17) | BIT(8) | 1 | * | 1ST BYTE |
| (18) | BIT(8) | 1 | PPFMOFLG | 2ND BYTE - SUPPORTED BITS: |
| (18) | 111. | | * | RESERVED |
| (18) | ...1 | | PPFMOCTL | X'10' = CHAIN CONTROL |
| (18) | 1... | | * | RESERVED |
| (18) |1.. | | PPFMOMSG | X'04' = MESSAGE INTEGRITY |
| (18) |1. | | * | RESERVED |
| (18) |1 | | PPFMOONW | X'01' = ONE WRITE OPTION |
| (19) | UNSIGNED | 2 | PPFTRTO | READ TIMEOUT |
| (1B) | CHARACTER | 8 | PPFMODEN | MODENAME |
| (23) | BIT(8) | 1 | PPFMDVSP | TERMINAL DEVICE SUPPORT |

Table 473. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--|-----|-------------------|-------------------------------|
| (23) | 1... | | * | RESERVED |
| (23) | .1.. | | * | RESERVED |
| (23) | ..1. | | * | RESERVED |
| (23) | ...1 | | * | RESERVED |
| (23) | 1... | | * | RESERVED |
| (23) |1.. | | * | RESERVED |
| (23) |1. | | PPFMDVNO | NON-VTAM DEVICES ONLY |
| (23) |1 | | PPFMDVTM | VTAM DEVICES ONLY |
| (24) | UNSIGNED | 1 | * | RESERVED |
| (25) | BIT(8) | 1 | PPFSCS | SCREEN SIZE SELECTION |
| (25) | 1... | | * | RESERVED |
| (25) | .1.. | | * | RESERVED |
| (25) | ..1. | | * | RESERVED |
| (25) | ...1 | | * | RESERVED |
| (25) | 1... | | PPFSCSZ | ALTERNATE SCREEN SIZE |
| (25) |1.. | | * | RESERVED |
| (25) |1. | | PPFPRTCM | PRINTER COMPATIBILITY |
| (25) |1 | | * | RESERVED |
| (26) | CHARACTER | 4 | PPFFACLK | FACILITYLIKE |
| (2A) | OBJECT | 64 | PPFRESSIG | RESOURCE SIGNATURE |
| (2A) | CHARACTER | 64 | DFHAMSIG_INSTANCE | RESOURCE SIGNATURE |
| (2A) | STRUCTURE IsA(DFHAMSIG_ DEFINE_ SIGNATURE) | 38 | DEFINE_SIGNATURE | RESOURCE SIGNATURE |
| (2A) | CHARACTER | 8 | DEFINE_SOURCE | GROUP resource installed from |
| (32) | CHARACTER | 8 | DEFINE_TIME | Time resource defined |
| (3A) | CHARACTER | 8 | CHANGE_TIME | Change/create time |
| (42) | CHARACTER | 8 | CHANGE_USERID | Change userid |
| (4A) | UNSIGNED | 2 | CHANGE_AGENT | Change agent |
| (4C) | CHARACTER | 4 | AGENT_LEVEL | CICS level of change agent |
| (50) | STRUCTURE IsA(DFHAMSIG_ INSTALL_ SIGNATURE) | 18 | INSTALL_SIGNATURE | RESOURCE SIGNATURE |
| (50) | CHARACTER | 8 | INSTALL_TIME | Install/create time |
| (58) | CHARACTER | 8 | INSTALL_USERID | Install userid |
| (60) | UNSIGNED | 2 | INSTALL_AGENT | Install agent |
| (62) | CHARACTER | 8 | * | RESOURCE SIGNATURE |

PSD - Partition set definition block

DESCRIPTIVE NAME = CICS TS PARTITION SET DEFINITION DSECT
 DUAL LANGUAGE DSECT
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1980
 FUNCTION = DEFINES THE PARTITION SET OBJECT. THIS IS BUILT BY
 THE MACROS DFHPSD AND DFHPDI. IT IS SUFFIXED AND
 STORED IN THE CICS/VS PROGRAM LIBRARY WITH A PPT
 ENTRY. IT IS LOADED INTO MAIN MEMORY BY DFHMCP

 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 MODULE TYPE = STRUCTURE
 EXTERNAL REFERENCES = NONE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NOT APPLICABLE
 MACROS = NONE

Table 474.

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 30 | DFHPSDDS | DUMMY SECTION - PARTITION SET DESCRIPTION |
| (0) | CHARACTER | 0 | PSDSTART | START OF DEFINITION |
| Partition Set Header Description | | | | |
| (0) | HALFWORD | 2 | PSDPSETL | PARTITION SET LENGTH |
| (2) | CHARACTER | 2 | * | BLANK SO PARTITION SET IS CORRECT FORMAT FOR OUTPUT TO CICS TEMP STORAGE |
| (4) | HALFWORD | 2 | PSDPSL | PARTITION SET HEADER LENGTH OF PARTITION SET HEADER |
| (6) | CHARACTER | 8 | PSDSLFIG | STRING 'DFHPSD ' IDENTIFIES OBJECT AS A PARTITION SET |
| (E) | CHARACTER | 7 | PSDPSNME | PARTITION SET NAME |
| (15) | CHARACTER | 1 | PSDPSSFX | PARTITION SET SUFFIX, USED FOR PARTITION SET SELECTION BLANK IF NOT SUFFIXED |
| (16) | HALFWORD | 2 | PSDPNUM | NUMBER OF PARTITIONS IN THIS PARTITION SET |
| (18) | HALFWORD | 2 | PSDUACOL | ALTSCRN COLUMNS |
| (1A) | HALFWORD | 2 | PSDUALNE | ALTSCRN LINES |
| (1C) | CHARACTER | 1 | PSDCICSV | CICS/VS VERSION ON WHICH THE PARTITION SET WAS ASSEMBLED |
| (1D) | BIT(8) | 1 | PSDPSFLG | FLAG BYTE |

Table 474. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (1D) | 1... | | PSDPSERR | THIS PARTITION SET CONTAINS A CICS/VS ERROR MESSAGE PARTITION |

PARTITION DESCRIPTION
TWO RECORD FOR EACH PARTITION IN THIS PARTITION SET
THE FIRST RECORD CONTAINS CICS/VS SPECIFIC DATA. THE SECOND
RECORD IS A COPY OF THE CREATE PARTITION STRUCTURED FIELD

Table 475.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 6 | PSDPCICS | |
| CICS SPECIFIC PARTITION DATA | | | | |
| (0) | HALFWORD | 2 | PSDCICSL | LENGTH OF CICS/VS DATA |
| (2) | CHARACTER | 2 | PSDCINME | THE PARTITION NAME |
| (4) | BIT(8) | 1 | PSDCIFLG | PARTITION FLAGS 1 |
| (4) | 1... | | PSDCIERR | THIS IS A CICS/VS ERROR MESSAGE PARTITION |
| (5) | CHARACTER | 1 | PSDMPSFX | BMS MAPSET SUFFIX |

Table 476.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (0) | STRUCTURE | 30 | PSDPCRT | |
| COPY OF THE ARCHITECTED CREATE PARTITION STRUCTURED FIELD THIS CAN BE SENT UNCHANGED TO THE TERMINAL | | | | |
| (0) | HALFWORD | 2 | PSDPL | LENGTH OF CREATE PARTITION STRUCTURED FIELD |
| (2) | CHARACTER | 1 | PSDPTYPE | STRUCTURED FIELD TYPE |
| (3) | CHARACTER | 1 | PSDPID | HARDWARE PARTITION-ID |
| (4) | BIT(8) | 1 | PSDPAM | FLAG BYTE INDICATING UNIT OF MEASURE AND ADDRESS MODE |
| (4) | 1... | | * | |
| (4) | .1.. | | * | |
| (4) | ..1. | | * | |
| (4) | ...1 | | PSDUMPEL | UNIT OF MEASURE IS PELS |
| (4) | 1... | | * | |
| (4) |1.. | | * | |
| (4) |1. | | * | |
| (4) |1 | | PSDAM16 | ADDRESS MODE IS 16 BIT |
| (5) | BIT(8) | 1 | PSDPFLG | FLAG BYTE |

Table 476. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (5) | 1... | | * | |
| (5) | .1.. | | PSDPPROT | PARTITION IS PROTECTED |
| (6) | CHARACTER | 2 | PSDPBUFH | HEIGHT OF THE PARTITION BUFFER |
| (8) | CHARACTER | 2 | PSDPBUFW | WIDTH OF THE PARTITION BUFFER |
| (A) | CHARACTER | 2 | PSDVIEWR | ROW ORIGIN OF THE PARTITION VIEWPORT |
| (C) | CHARACTER | 2 | PSDVIEWC | COLUMN ORIGIN OF THEPARTITION VIEWPORT |
| (E) | CHARACTER | 2 | PSDVIEWH | VIEWPORT HEIGHT |
| (10) | CHARACTER | 2 | PSDVIEWW | VIEWPORT WIDTH |
| (12) | CHARACTER | 2 | PSDWNDR | INITIAL WINDOW POSITION ROW |
| (14) | CHARACTER | 2 | PSDWNDC | INITIAL WINDOW POSITION COL |
| (16) | CHARACTER | 2 | PSDSCRR | VERTICAL SCROLL AMOUNT |
| (18) | CHARACTER | 2 | PSDSCRC | HORIZONTAL SCROLL AMOUNT |
| (1A) | CHARACTER | 2 | PSDCELLW | CHARACTER CELL PEL WIDTH |
| (1C) | CHARACTER | 2 | PSDCELLH | CHARACTER CELL PEL HEIGHT |

Constants

Table 477.

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|-------------------------------|
| 1 | HEX | 07 | PSDCI160 | CICS/VS 160 |
| 1 | HEX | 0C | PSDPCRPF | CREATE PARTITION TYPE CODE |
| 1 | HEX | 00 | PSDUMCHR | UNIT OF MEASURE IS CHARS |
| 1 | HEX | 00 | PSDAM12 | ADDRESS MODE IS 12/14 BIT |

PSG - System spooling interface

CONTROL BLOCK NAME = DFHPSGPS
 DESCRIPTIVE NAME = CICS TS System Spooling Interface
 Global Control Block.
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1984, 1995
 FUNCTION =

DFHPSGPS (PSG) is the master control block for the System Spooling Interface facility.

Description

PSG - This Block contains the central control information through which the System Spooling Interface works. It is anchored from CSAPSCBA in the CSA Optional Features List.

LIFETIME =

If SPOOL=YES is specified at CICS Initialization, then control will be passed to DFHPSIP from DFHSIJ1. PSIP will construct and initialize DFHPSGPS, which will remain in existence all the time that CICS is running.

STORAGE CLASS = shared

LOCATION =

Chained off CSA optional features list by CSAPSCBA

INNER CONTROL BLOCKS = NONE

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = NONE

MODULE TYPE = PLS copy-book

EXTERNAL REFERENCES = none

DATA AREAS = none

CONTROL BLOCKS = none

GLOBAL VARIABLES (Macro pass) = none

getmained by JES as commarea

Table 478.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 208 | DFHPSGPS | |
| (0) | CHARACTER | 4 | * | Storage accounting area |
| (4) | CHARACTER | 8 | PSGID | Control block ID - DFHPSGPS. The following VSAM info. is used by DFHPSIP & DFHPSPSS: |
| (C) | HALFWORD | 2 | PSGACBL | Length of VSAM ACB |
| (E) | HALFWORD | 2 | PSGRPLL | Length of VSAM RPL |
| (10) | HALFWORD | 2 | PSGEXLL | Length of VSAM EXIT LIST |
| (12) | HALFWORD | 2 | * | Reserved |
| (14) | FULLWORD | 4 | PSGOPNCT | Count of JES files OPEN-ed |
| (18) | FULLWORD | 4 | PSGCLSCT | Count of JES files CLOSE-ed |
| (1C) | ADDRESS | 4 | * | Reserved |
| (20) | ADDRESS | 4 | * | Reserved |
| (24) | FULLWORD | 4 | PSGNXTK | Next Report Token |
| (28) | CHARACTER | 4 | PSGJTFL | Job transfer flags |
| (28) | CHARACTER | 1 | PSGTHRD | In-Use flag for SGL thread |
| (29) | CHARACTER | 3 | * | Reserved |
| (2C) | CHARACTER | 4 | * | |
| (2C) | BIT(8) | 1 | PSGFE | Extra service facilities |
| (2C) | 1... | | PSGFETR | Additional trace required |
| (2C) | .111 111. | | * | Reserved |
| (2C) |1 | | PSGFECB | Enable FE Chain checking |

Table 478. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (2D) | CHARACTER | 3 | * | Reserved |
| (30) | ADDRESS | 4 | PSGCRB | Reserved |
| (34) | ADDRESS | 4 | PSGCSAA | CSA address save area |
| (38) | HALFWORD | 2 | PSGOSLC | Operating system lines per page |
| (3A) | CHARACTER | 8 | PSGFLGS | CICS Sub-system Interface control status flags |
| (3A) | CHARACTER | 1 | PSGIACT | CICS SSI is active/enabled |
| (3B) | CHARACTER | 1 | PSGIENA | CICS SSI is being enabled |
| (3C) | CHARACTER | 1 | PSGIDIS | CICS SSI is being disabled |
| (3D) | CHARACTER | 1 | PSGITRM | CICS SSI is being terminated |
| (3E) | CHARACTER | 1 | PSGIDIP | Reserved |
| (3F) | CHARACTER | 1 | PSGIDPP | Reserved |
| (40) | CHARACTER | 1 | PSGCLAS | Reserved |
| (41) | CHARACTER | 1 | PSGSYSID | Reserved |
| (42) | CHARACTER | 2 | * | Reserved |
| (44) | ADDRESS | 4 | PSGRRB | Reserved |
| (48) | ADDRESS | 4 | PSGTRB | Reserved |
| (4C) | ADDRESS | 4 | PSGWRB | Reserved |
| (50) | ADDRESS | 4 | * | Reserved |
| (54) | ADDRESS | 4 | * | Reserved |
| (58) | ADDRESS | 4 | * | Reserved |
| (5C) | CHARACTER | 47 | PSGSTAT | CICS SSI statistics area |
| (5C) | CHARACTER | 3 | PSGSCRS | Reserved |
| (5F) | CHARACTER | 3 | PSGSCRR | Reserved |
| (62) | CHARACTER | 3 | PSGSCRC | Reserved |
| (65) | CHARACTER | 4 | PSGSOR | Reserved |
| (69) | CHARACTER | 3 | PSGSERS | Reserved |
| (6C) | CHARACTER | 3 | PSGSERC | Reserved |
| (6F) | CHARACTER | 3 | PSGSLR | Reserved |
| (72) | CHARACTER | 3 | PSGSPI | Reserved |
| (75) | CHARACTER | 3 | PSGSTD | Reserved |
| (78) | CHARACTER | 3 | PSGSER | Reserved |
| (7B) | CHARACTER | 4 | PSGDDAT | Date SSI last ended |
| (7F) | CHARACTER | 4 | PSGDTIM | Time SSI last ended |
| (83) | CHARACTER | 4 | PSGEDAT | Date SSI last started |
| (87) | CHARACTER | 4 | PSGETIM | Time SSI last started |
| (8B) | CHARACTER | 10 | PSGIDENT | Reserved |
| (8B) | CHARACTER | 8 | PSGXIDK | Reserved |
| (93) | CHARACTER | 2 | PSGITID | Reserved |

Table 478. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------|
| (95) | BIT(8) | 1 | PSGNFYE | Reserved |
| (96) | CHARACTER | 3 | * | Reserved |
| (9C) | ADDRESS | 4 | PSGCXPB | CXPB TCA address |
| (A0) | CHARACTER | 44 | PSGIDSN | Input DSNNAME |
| (CC) | ADDRESS | 4 | * | Reserved |

Constants

Table 479.

| Len | Type | Value | Name | Description |
|--|------|-------|--------|--------------|
| PSGFLAG - general Sub-system Interface flags | | | | |
| 1 | HEX | FF | PSGON | Flag is on. |
| 1 | HEX | 00 | PSGOFF | Flag is off. |

PSP - Printer spooling subsystem

DESCRIPTIVE NAME = CICS TS Printer Spooling Subsystem

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Restricted Materials of IBM

5655-Y04

(C) Copyright IBM Corp. 1985, 1991

Function =

DFHPSPPS is the parameter area map for the interface to DFHPSP etc.

Dependencies = S/370

Restrictions = none

Register conventions = N/A

Patch label = N/A

Module type = PLS copy-book

Attributes = N/A

Entry point = N/A

Table 480.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | 120 | DFHPSPPS | DFHPS Macro Parameter Area. |
| (0) | UNSIGNED | 1 | PSPREQ | Request Code. |
| (1) | BIT(8) | 1 | PSPQUAL | Reserved |
| (1) | 1... | | PSPQNTFY | Reserved |
| (1) | .1.. | | PSPQANY | Reserved |
| (1) | ..1. | | PSPQCMD | Reserved |
| (1) | ...1 1111 | | * | Reserved |
| (2) | BIT(8) | 1 | PSPOPT1 | Option 1 indicators. |
| (2) | 1... | | PSPWCHCK | Reserved |
| (2) | .1.. | | PSPRGIN | Reserved |
| (2) | ..1. | | PSPRSEP | Reserved |
| (2) | ...1 | | PSPRNSEP | Reserved |

Table 480. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (2) | 1... | | PSPRNCV | Reserved |
| (2) |1.. | | PSPRFAIL | Reserved |
| (2) |1. | | PSPRCONT | Reserved |
| (2) |1 | | PSPRRESM | Reserved |
| (3) | BIT(8) | 1 | PSOPT2 | Option 2 Indicators. |
| (3) | 1... | | PSPRHDN | Reserved |
| (3) | .1.. | | PSPRFTN | Reserved |
| (3) | ..1. | | PSPRNONM | Reserved |
| (3) | ...1 | | PSPRDTTM | Reserved |
| (3) | 1... | | PSPRPHYS | Reserved |
| (3) |1.. | | PSPRLOGL | Reserved |
| (3) |1. | | PSPROUT | OPEN/CLOSE for Output. |
| (3) |1 | | PSPRINP | OPEN/CLOSE for Input. |
| (4) | BIT(8) | 1 | PSOPT3 | Option 3 Indicators. |
| (4) | 1... | | PSPBASE | Base call |
| (4) | .1.. | | PSPREST | Reserved |
| (4) | ..1. | | PSPMAPO | Reserved |
| (4) | ...1 | | PSPDWE | Reserved |
| (4) | 1... | | PSPHLPI | Reserved |
| (4) |1.. | | PSPYMES | Reserved |
| (4) |1. | | PSPNMES | Reserved |
| (4) |1 | | * | Reserved |
| (5) | BIT(8) | 1 | PSOPT4 | Option 4 Indicators. |
| (5) | 1... | | PSPRSCS | Reserved |
| (5) | .1.. | | PSPRBMS | Reserved |
| (5) | ..1. | | PSPR327 | Reserved |
| (5) | ...1 | | PSPRAPA | CPDS Data Stream |
| (5) | 1... | | PSPRESC | Reserved |
| (5) |1.. | | PSPRASA | ASA Format |
| (5) |1. | | PSPRMCC | Machine Format |
| (5) |1 | | PSPRNCC | No CC Format |
| (6) | BIT(8) | 1 | PSOPT5 | Option 5 Indicators. |
| (6) | BIT(8) | 1 | * | Reserved |
| (7) | BIT(8) | 1 | PSPQUE | Reserved |
| (7) | 1... | | PSPQLST | Reserved |
| (7) | .1.. | | PSPQRDR | Reserved |
| (7) | ..1. | | PSPQPUN | Reserved |
| (7) | ...1 | | PSPQXMIT | Reserved |
| (7) | 1... | | PSPQPRTR | Reserved |
| (7) |111 | | * | Reserved |

Table 480. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------------|
| (8) | BIT(8) | 1 | PSPCBOPT | Reserved |
| (9) | BIT(8) | 1 | PSPDISPS | Reserved |
| (9) | 1... | | PSPDHOLD | Reserved |
| (9) | .1.. | | PSPDACT | Reserved |
| (9) | ..1. | | PSPDRDY | Reserved |
| (9) | ...1 | | PSPDERR | Reserved |
| (9) | 1... | | PSPDRES | Reserved |
| (9) |1.. | | PSPDKEP | Reserved |
| (9) |1. | | PSPDLVE | Reserved |
| (9) |1 | | PSPDERRP | Reserved |
| (A) | UNSIGNED | 1 | PSPCOPY | Reserved |
| (B) | UNSIGNED | 1 | PSPPRI | Reserved |
| (C) | UNSIGNED | 1 | * | Reserved |
| (D) | UNSIGNED | 1 | PSPPGSZ | Reserved |
| (E) | CHARACTER | 1 | PSPCLASS | CLASS Character. |
| (F) | UNSIGNED | 1 | * | Reserved |
| (10) | BIT(8) | 1 | PSPDISP | DISPOSITION to be set. |
| (11) | CHARACTER | 1 | PSPNCLSS | Reserved |
| (12) | UNSIGNED | 2 | PSPNLNG | Reserved |
| (14) | ADDRESS | 4 | PSPFORMS | Reserved |
| (18) | ADDRESS | 4 | PSPMPST | Reserved |
| (1C) | ADDRESS | 4 | PSPTOKEN | Pointer to token value. |
| (20) | ADDRESS | 4 | PSPREPNUM | Reserved |
| (24) | ADDRESS | 4 | PSPDATA | Pointer to Data Area |
| (28) | ADDRESS | 4 | PSPLENG | Length WRITE/READ |
| (2C) | ADDRESS | 4 | PSPMLNG | Max Length READ or OPEN Recordlength |
| (30) | ADDRESS | 4 | PSPMAP | Reserved |
| (34) | ADDRESS | 4 | PSPUSRID | Pointer to User Id. |
| (38) | ADDRESS | 4 | PSPESCP | Reserved |
| (3C) | ADDRESS | 4 | PSPNODE | Pointer to Node Name. |
| (40) | ADDRESS | 4 | PSPFDATE | Reserved |
| (44) | FULLWORD | 4 | PSPREPLN | Reserved |
| (48) | ADDRESS | 4 | PSPREPBF | Reserved |
| (4C) | ADDRESS | 4 | PSPUSDTA | Reserved |
| (50) | FULLWORD | 4 | PSPREC# | Reserved |
| (54) | UNSIGNED | 1 | PSPPDISP | Reserved |
| (54) | 1... | | PSPPPRNT | Reserved |
| (54) | .1.. | | PSPPPSTOP | Reserved |
| (54) | ..1. | | PSPPPWAIT | Reserved |

Table 480. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------|
| (54) | ...1 | | PSPPUISE | Reserved |
| (54) | 1... | | PSPPALN | Reserved |
| (54) |1.. | | PSPPPOOS | Reserved |
| (54) |1. | | PSPPPAUD | Reserved |
| (54) |1 | | * | Reserved |
| (55) | UNSIGNED | 1 | PSPPACT1 | Reserved |
| (55) | 1... | | PSPPSRT | Reserved |
| (55) | .1.. | | PSPPSTPC | Reserved |
| (55) | ..1. | | PSPPSTPN | Reserved |
| (55) | ...1 | | PSPPALGN | Reserved |
| (55) | 1... | | PSPPAUS | Reserved |
| (55) |1.. | | PSPRESM | Reserved |
| (55) |1. | | PSPSTPR | Reserved |
| (55) |1 | | PSPPCONF | Reserved |
| (56) | UNSIGNED | 1 | PSPPACT2 | Reserved |
| (56) | 1... | | PSPPSETU | Reserved |
| (56) | .1.. | | PSPPDISC | Reserved |
| (56) | ..11 1... | | * | Reserved |
| (56) |1.. | | PSPPINQ | Reserved |
| (56) |11 | | * | Reserved |
| (57) | UNSIGNED | 1 | * | Reserved |
| (58) | ADDRESS | 4 | PSPPRNM | Reserved |
| (5C) | ADDRESS | 4 | PSPTITLE | Reserved |
| (60) | ADDRESS | 4 | PSPHEAD | Reserved |
| (64) | ADDRESS | 4 | PSPFOOT | Reserved |
| (68) | ADDRESS | 4 | PSPSTPG | Reserved |
| (6C) | ADDRESS | 4 | PSPEDPG | Reserved |
| (70) | ADDRESS | 4 | PSPALPG | Reserved |
| (74) | ADDRESS | 4 | PSPOTDES | Ptr. to OUTDES LIST |

Constants

Table 481.

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|-------------|
| 1 | DECIMAL | 1 | PSPTALT | Reserved |
| 1 | DECIMAL | 2 | PSPTBLD | Reserved |
| 1 | DECIMAL | 3 | PSPTCLSE | CLOSE |
| 1 | DECIMAL | 4 | PSPTDLTE | Reserved |
| 1 | DECIMAL | 5 | PSPTDISL | DISABLE |
| 1 | DECIMAL | 6 | PSPTENBL | ENABLE |

Table 481. (continued)

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|-------------|
| 1 | DECIMAL | 7 | PSPTENBR | Reserved |
| 1 | DECIMAL | 8 | PSPTGNXT | Reserved |
| 1 | DECIMAL | 9 | PSPTINIT | Reserved |
| 1 | DECIMAL | 10 | PSPTLOC | Reserved |
| 1 | DECIMAL | 11 | PSPTOPN | OPEN |
| 1 | DECIMAL | 12 | PSPTPNT | Reserved |
| 1 | DECIMAL | 13 | PSPTPRT | Reserved |
| 1 | DECIMAL | 14 | PSPTREAD | READ |
| 1 | DECIMAL | 15 | PSPTREM | Reserved |
| 1 | DECIMAL | 16 | PSPTRETV | Reserved |
| 1 | DECIMAL | 17 | PSPTSTBR | Reserved |
| 1 | DECIMAL | 18 | PSPTTERM | TERMINATE |
| 1 | DECIMAL | 19 | PSPTWTIN | Reserved |
| 1 | DECIMAL | 20 | PSPTWRT | WRITE |
| 1 | DECIMAL | 21 | PSPTTRAN | Reserved |
| 1 | HEX | E2 | PSPSRES | KEEP |
| 1 | HEX | C4 | PSPSDEL | DELETE |
| 2 | DECIMAL | 120 | PSPLNG | |

PTANC - Partner Domain Control Blocks

This copybook includes definitions for the anchor block, the state block, the pool block and all trace ids used by the domain. At present this is the only copybook for the PT domain. Everything is in a single copybook because this domain is so small. In time different definitions may be separated out into separate copybooks as the domain grows.

Table 482.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|--------------------------|
| (0) | STRUCTURE | 28 | PT_ANCHOR_BLOCK | |
| (0) | CHARACTER | 8 | PTANC_EYECATCHER | Eyecatcher |
| (8) | UNSIGNED | 4 | PTANC_LENGTH | Length of anchor block |
| (C) | CHARACTER | 8 | PTANC_STATE_STG_POOL | Storage manager subpool |
| (14) | CHARACTER | 4 | PTANC_POOL_DIR_TOKEN | Dir mgr token for pools |
| (18) | CHARACTER | 4 | PTANC_STATE_DIR_TOKEN | Dir mgr token for states |

Pool block

Table 483.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|-----------------------|
| (0) | STRUCTURE | 28 | PTTW_POOL_BLOCK | |
| (0) | CHARACTER | 8 | PTTWPB_EYECATCHER | Eyecatcher |
| (8) | UNSIGNED | 4 | PTTWPB_LENGTH | Length of block |
| (C) | UNSIGNED | 4 | PTTWPB_STATE | State of the pool |
| (10) | CHARACTER | 8 | PTTWPB_NAME | Pool name |
| (18) | UNSIGNED | 4 | PTTWPB_USECOUNT | Count of state tokens |

 State block

Table 484.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---|----------------------|
| (0) | STRUCTURE | 76 | PTTW_STATE_BLOCK | |
| (0) | CHARACTER | 8 | PTTWSB_EYECATCHER | Eyecatcher |
| (8) | UNSIGNED | 4 | PTTWSB_LENGTH | Length of block |
| (C) | UNSIGNED | 4 | PTTWSB_STATE | State of partnership |
| (10) | ADDRESS | 4 | PTTWSB_SUSPENDTOK | Suspend token |
| (14) | CHARACTER | 8 | PTTWSB_DDTOKEN | Dir mgr token |
| (1C) | CHARACTER | 8 | PTTWSB_POOLTOKEN | Pool token |
| (24) | ADDRESS | 4 | PTTWSB_POOLPTR | Pool block addr |
| (28) | CHARACTER | 4 | PTTWSB_USERTOKEN | User token |
| (2C) | CHARACTER | 16 | PTTWSB_PARTNERS (4294967298:341918352) | A partner's defn |
| (2C) | UNSIGNED | 4 | PTTWSB_TRIGSTATE | Trigger state |
| (30) | UNSIGNED | 4 | PTTWSB_COMPCODE | Completion code |
| (34) | CHARACTER | 8 | PTTWSB_XMTOK | XM token |

Constants

Table 485.

| Len | Type | Value | Name | Description |
|---|-----------|---------|------------------------|-------------|
| Value of pttwpb_eyecatcher. | | | | |
| 8 | CHARACTER | >PTTWPB | PTTWPB_EYE_VALUE | |
| Values for pttwpb_state. This is a list of all the states that the pool block can take. The numeric values of the pool, partnership and trigger states are different to one another so that any bug in the code which accidentally assigns a pool state to a partnership state (for instance) is more likely to show up. | | | | |
| 4 | DECIMAL | 0 | PTTWPB_STATE_UNDEFINED | |
| 4 | DECIMAL | 1 | PTTWPB_STATE_EMPTY | |
| 4 | DECIMAL | 2 | PTTWPB_STATE_NOT_EMPTY | |
| 4 | DECIMAL | 3 | PTTWPB_STATE QUIESCING | |

Table 485. (continued)

| Len | Type | Value | Name | Description |
|--|-----------|--------|-----------------------------|-------------|
| Value of pttwsb_eyecatcher. | | | | |
| 8 | CHARACTER | >PTWSB | PTWSB_EYE_VALUE | |
| Values for pttwsb_state. This is a list of all the states that the state block can take. | | | | |
| 4 | DECIMAL | 0 | PTWSB_STATE_UNDEFINED | |
| 4 | DECIMAL | 4 | PTWSB_STATE_CREATED | |
| 4 | DECIMAL | 5 | PTWSB_STATE_PARTIALLY_MADE | |
| 4 | DECIMAL | 6 | PTWSB_STATE_MADE | |
| 4 | DECIMAL | 7 | PTWSB_STATE_DELETED | |
| Values for pttwsb_trigstate. This is a list of all the states that each partner's trigger object can have. | | | | |
| 4 | DECIMAL | 1 | PTWSB_TRIGSTATE_UNDEFINED | |
| 4 | DECIMAL | 2 | PTWSB_TRIGSTATE_VALID | |
| 4 | DECIMAL | 4 | PTWSB_TRIGSTATE_WAITING | |
| 4 | DECIMAL | 3 | PTWSB_TRIGSTATE_TRIGGERED | |
| 4 | DECIMAL | 5 | PTWSB_TRIGSTATE_RESUMED | |
| ----- Trace point ids for PTDM in the range 0000 to 00FF. ----- | | | | |
| 2 | NUMB HEX | 0000 | TID_PTDM_ENTRY | |
| 2 | NUMB HEX | 0001 | TID_PTDM_EXIT | |
| 2 | NUMB HEX | 0002 | TID_PTDM_RECOVERY | |
| 2 | NUMB HEX | 0003 | TID_PTDM_ADD_SUBPOOL_FAILED | |
| 2 | NUMB HEX | 0004 | TID_PTDM_GETMAIN_FAILED | |
| 2 | NUMB HEX | 0005 | TID_PTDM_SET_ANCHOR_FAILED | |
| 2 | NUMB HEX | 0006 | TID_PTDM_CREATE_DIR_FAILED | |
| 2 | NUMB HEX | 0007 | TID_PTDM_ADD_GATE_FAILED | |
| ----- Trace point ids for PTTW in the range 0100 to 01FF. ----- | | | | |
| 2 | NUMB HEX | 0100 | TID_PTTW_ENTRY | |
| 2 | NUMB HEX | 0101 | TID_PTTW_EXIT | |
| 2 | NUMB HEX | 0102 | TID_PTTW_EXC_INV_FORMAT | |
| 2 | NUMB HEX | 0103 | TID_PTTW_EXC_INV_FUNCTION | |
| 2 | NUMB HEX | 0104 | TID_PTTW_EXC_INV_TIMED_OUT | |
| 2 | NUMB HEX | 0105 | TID_PTTW_EXC_PURGED | |
| 2 | NUMB HEX | 0106 | TID_PTTW_EXC_GETMAIN_FAILED | |

Table 485. (continued)

| Len | Type | Value | Name | Description |
|-----|----------|-------|-------------------------------|-------------|
| 2 | NUMB HEX | 0107 | TID_PTTW_EXC_ADD_ENTRY_FAILED | |
| 2 | NUMB HEX | 0108 | TID_PTTW_EXC_DEL_ENTRY_FAILED | |
| 2 | NUMB HEX | 0109 | TID_PTTW_EXC_POOL_NOT_FOUND | |
| 2 | NUMB HEX | 010A | TID_PTTW_EXC_STATE_NOT_FOUND | |
| 2 | NUMB HEX | 010B | TID_PTTW_EXC_LOCATE_FAILED | |
| 2 | NUMB HEX | 010C | TID_PTTW_EXC_CORRUPT_POOL | |
| 2 | NUMB HEX | 010D | TID_PTTW_EXC_CORRUPT_STATE | |
| 2 | NUMB HEX | 010E | TID_PTTW_EXC_ADD_SUS_FAILED | |
| 2 | NUMB HEX | 010F | TID_PTTW_EXC_DEL_SUS_FAILED | |
| 2 | NUMB HEX | 0110 | TID_PTTW_EXC_INQ_TXN_FAILED | |
| 2 | NUMB HEX | 0111 | TID_PTTW_EXC_RESUME_FAILED | |
| 2 | NUMB HEX | 0112 | TID_PTTW_EXC_SUSPEND_FAILED | |
| 2 | NUMB HEX | 0113 | TID_PTTW_EXC_RESUME_TIMED_OUT | |
| 2 | NUMB HEX | 0114 | TID_PTTW_RECOVERY | |
| 2 | NUMB HEX | 0115 | TID_PTTW_WHOAMI | |
| 2 | NUMB HEX | 0116 | TID_PTTW_STATE_BLOCK_FOUND | |
| 2 | NUMB HEX | 0117 | TID_PTTW_TRIGSTATE_CHANGE | |
| 2 | NUMB HEX | 0118 | TID_PTTW_EXC_INV_STATE | |

RCS - Recovery Control Static Storage

CONTROL BLOCK NAME = DFHRCSPS
 DESCRIPTIVE NAME = CICS TS RECOVERY CONTROL STATIC STORAGE
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1984, 1994

FUNCTION =
 Static storage used by recovery control component for
 ECBS AND ANCHORS FOR THREAD MANAGEMENT.
 There is a single instance of this control block in a CICS
 system.
 It is allocated and initialized to hex zeroes in DFHSIB1.
 It has the lifetime of the CICS system.

LIFETIME =
 It is allocated and initialized to hex zeroes in DFHSIB1.
 It has the lifetime of the CICS system.

STORAGE CLASS =
 CICS static storage.

LOCATION =

Addresses from static storage address list.
 INNER CONTROL BLOCKS =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

RECOVERY CONTROL PROGRAM STATIC STORAGE

Table 486.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|---------------------------|
| (0) | STRUCTURE | 24 | RCSTATIC | |
| (0) | CHARACTER | 9 | * | Reserved |
| (9) | BIT(8) | 1 | * | |
| (9) | 1... | | * | Reserved |
| (9) | .1.. | | RCSCPPST | restart complete post bit |
| (A) | BIT(8) | 1 | * | |
| (A) | 1... | | * | Reserved |
| (A) | .1.. | | RCS_STP_END_EVENT | STP keypoint ended |
| (B) | BIT(8) | 1 | * | |
| (B) | 1... | | * | Reserved |
| (B) | .1.. | | RCS_WARM_KEYPOINT_ EVENT | ready for keypoint |
| (C) | FULLWORD | 4 | RCS_RECORD_COUNT | User log record count |
| (10) | ADDRESS | 4 | RCS_AID_CHAIN | AID chain |
| (14) | CHARACTER | 4 | * | Reserved |
| (18) | CHARACTER | 0 | RCSTATLN | End |

RLRDS - Resource Lifecycle Resource Statistics

CONTROL BLOCK NAME = DFHRLRDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHRLRPS
 DESCRIPTIVE NAME = CICS TS ResLife Statistics for BUNDLES
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 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 2008, 2012

FUNCTION =
 This block described the statistics collected by the ResLife Domain.
 There is an instance of this block for each bundle for which statistics have been requested.

LIFETIME = This block exists until the statistics request has been satisfied.

STORAGE CLASS =

LOCATION = The user is passed a pointer to the head of the block

INNER CONTROL BLOCKS = None

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHRLRDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 487.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|-----------------------------|--|
| (0) | STRUCTURE | 0 | DFHRLRDS | ResLife Bundle Resid stats record |
| (0) | HALFWORD | 2 | RLRDS_LEN | ResLife Bundle stats record length |
| (2) | ADDRESS | 2 | RLRDS_ID | ResLife Bundle stats id |
| (4) | CHARACTER | 1 | RLRDS_VERS | ResLife Bundle stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | RLR_BUNDLE_NAME | Bundle name |
| (10) | BITSTRING | 8 | | Reserved |
| (18) | CHARACTER | 255 | RLR_BUNDLE_DIRECTORY | Bundle directory |
| (117) | BITSTRING | 1 | | Reserved |
| (118) | CHARACTER | 255 | RLR_BUNDLE_BASESCOPE | Bundle basescope |
| (217) | BITSTRING | 1 | | Reserved |
| (218) | BITSTRING | 16 | | Reserved |
| (228) | BITSTRING | 16 | | Reserved |
| (238) | CHARACTER | 8 | RLR_BUNDLE_DEFINE_ SOURCE | Group installed from |
| (240) | BITSTRING | 8 | RLR_BUNDLE_CHANGE_ TIME | Change/create time |
| (248) | CHARACTER | 8 | RLR_BUNDLE_CHANGE_ USERID | Change userid |
| (250) | BITSTRING | 2 | RLR_BUNDLE_CHANGE_ AGENT | Change agent |
| (252) | BITSTRING | 2 | RLR_BUNDLE_INSTALL_ AGENT | Install agent |
| (254) | BITSTRING | 8 | RLR_BUNDLE_INSTALL_ TIME | Install/Create time |
| (25C) | CHARACTER | 8 | RLR_BUNDLE_INSTALL_ USERID | Install userid |
| (25C) | | 0 | RLRDS_END | "*" |
| (25C) | | 0 | RLRDS_LENGTH | "*-RLRDS_LEN" ResLife Bundle record length |
| Constants that denote a RL Bundle stats record | | | | |
| (25C) | .11. .1.. | | RLRIDR | "100" ResLife Bundle resid stats id |
| (25C) |1 | | RLR_VERS | "X'01" Record version number |
| (25C) |1 | | RLR_BUNDLE_CSDAPI_ CHANGE | "0001" Change Agent - CSD API |
| (25C) |1. | | RLR_BUNDLE_CSDBATCH_ CHANGE | "0002" Change Agent - DFHCSDUP |
| (25C) |11 | | RLR_BUNDLE_DREPAPI_ CHANGE | "0003" Change Agent - DREP API |

Table 487. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------|--------------------------------------|
| (25C) |1.. | | RLR_BUNDLE_CREATE_ CHANGE | "0004" Change Agent - CREATE SPI |
| (25C) |1 | | RLR_BUNDLE_CSDAPI_ INSTALL | "0001" Install Agent - CSD API |
| (25C) |1.. | | RLR_BUNDLE_CREATE_ INSTALL | "0004" Install Agent - CREATE SPI |
| (25C) |1.1 | | RLR_BUNDLE_GRPLIST_ INSTALL | "0005" Install Agent - GRPLIST |
| (25C) | 1.11 | | RLR_BUNDLE_CLOUD_ INSTALL | "0011" Install Agent - CLOUD |

RMG - Recovery Manager Global statistics

CONTROL BLOCK NAME = DFHRMGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHRMGPS
DESCRIPTIVE NAME = CICS TS Recovery Manager Statistics
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FUNCTION =
This data area contains global statistics provided by the
Recovery Manager Domain.
It is provided for use in users monitoring applications
to map the statistics returned via the API, the statistics
exit, or offline formatting products.
There is a single instance of this data block.

LIFETIME =
This data block is created by the Recovery Manager
Domain to store statistics to be passed to the user in
response to a request for statistics. The storage is
released when the user task is detached.

STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage
block.

INNER CONTROL BLOCKS = none

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Domain call buffer

EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = from recovery manager domain
GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHRMGDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 488.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------------|
| (0) | STRUCTURE | 0 | DFHRMGDS | Recovery Manager Global statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |

Table 488. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|------------|--|
| (0) | HALFWORD | 2 | RMGLEN | Length of data area |
| (0) | .11. ..11 | | RMGIDE | "0099" Recovery Manager statistics id mask |
| (2) | ADDRESS | 2 | RMGID | Recovery Manager statistics id |
| (2) |1 | | RMGVERS | "X'01'" Stats version number id mask |
| (4) | CHARACTER | 1 | RMGDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | FULLWORD | 4 | RMGSYFWD | Total syncpoints forward |
| (C) | FULLWORD | 4 | RMGSYBWD | Total syncpoints backward |
| (10) | FULLWORD | 4 | RMGRESYN | Total resynchronisations |
| (14) | FULLWORD | 4 | RMGTSHIN | Total shunted uows for indoubt |
| (18) | CHARACTER | 8 | RMGTSHTI | Total time shunted for indoubt (STCK) |
| (20) | FULLWORD | 4 | RMGCSHIN | Current uows shunted for indoubt |
| (24) | CHARACTER | 8 | RMGCSHTI | Current time shunted indoubt (STCK) |
| (2C) | FULLWORD | 4 | RMGTSHRO | Total ouws shunted for RO commit fail |
| (30) | CHARACTER | 8 | RMGTSHTR | Total time shunted for RO fail (STCK) |
| (38) | FULLWORD | 4 | RMGCSHRO | Current ouws shunts RO commit fail |
| (3C) | CHARACTER | 8 | RMGCSHTR | Current time shunted RO fail (STCK) |
| The following fields show a breakdown of the possible integrity exposures due to forced termination of indoubt waits. | | | | |
| (44) | FULLWORD | 4 | RMGIAFTR | Total forced Indoubt Actions-trandef |
| (48) | FULLWORD | 4 | RMGIAFTI | Total forced Indoubt Actions-timeout |
| (4C) | FULLWORD | 4 | RMGIAFNW | Total forced Indoubt Actions-nowait |
| (50) | FULLWORD | 4 | RMGIAFOP | Total forced Indoubt Actions-operator |
| (54) | FULLWORD | 4 | RMGIAFOT | Total forced Indoubt Actions-other |
| (58) | FULLWORD | 4 | RMGIAMIS | Total Indoubt Action mismatches |
| The following fields show a breakdown of the possible integrity exposures due to forced termination of indoubt waits as a result of a communicating system/resource manager or resource not being able to support indoubt waiting and is therefore a subset of RMGIAFNW. | | | | |

Table 488. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------------|
| (5C) | FULLWORD | 4 | RMGNWTD | Total forced for no waiting in TD |
| (60) | FULLWORD | 4 | RMGNW61 | Total forced for no waiting in LU61 |
| (64) | FULLWORD | 4 | RMGNWMRO | Total forced for no waiting in MRO |
| (68) | FULLWORD | 4 | RMGNWRMI | Total forced for no waiting in RMI |
| (6C) | FULLWORD | 4 | RMGNWOTH | Total forced for no waiting in other |
| (6C) | .111 | | RMGEND | "*" |

RMUXC - Recovery Manager Domain Inline Access

Table 489.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-------------------------------|-----|---|--|
| (0) | STRUCTURE | 229 | RMUX_INLINE_ACCESS_STRUCTURE | |
| (0) | CHARACTER | 8 | RMUX_LOCAL_UOW_ID | |
| (8) | CHARACTER | 27 | RMUX_REMOTE_UOW_ID | |
| (8) | UNSIGNED | 1 | RMUX_REMOTE_ID_LENGTH | |
| (9) | UNSIGNED | 1 | RMUX_REMOTE_ID_LU_NAME_LENGTH | |
| (A) | CHARACTER | 25 | * | |
| (23) | BIT(8) | 1 | RMUX_FLAGS | |
| (23) | 1... | | OPTIMAL_CLIENTS_ONLY | Only optimal clients are involved in this UOW. |
| (23) | .1.. | | CALL_NOTIFY_END_OF_UOW | call dfhdyp at enduow |
| (24) | CHARACTER | 4 | * | |
| (28) | ADDRESS IsA(RM_WORK_TOKEN) | 8 | RMUX_WORK_TOKEN_ARRAY (4294967317:341916536) | |
| (28) | CHARACTER | 4 | * | |
| (2C) | ADDRESS | 4 | SHORT | |
| (D0) | CHARACTER | 21 | RMUX_CLIENT_STATES | |
| (D0) | BIT(8) | 1 | CLIENT_STATE (4294967317:341917456) | |
| (D0) | 1... | | COMMIT_COMPLETE | has locally committed! |
| (D0) | .111 1111 | | * | |

Constants

Table 490.

| Len | Type | Value | Name | Description |
|-----|---------|-------|-------------|-------------|
| 1 | DECIMAL | 21 | RMUX_MAX_RO | |

SAA - Storage accounting area

CONTROL BLOCK NAME = DFHSAAPS
 DESCRIPTIVE NAME = CICS TS Storage Accounting Area.
 Licensed Materials - Property of IBM
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 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

Table 491.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 8 | DFHSAADS | |
| (0) | CHARACTER | 1 | SAASCI | STORAGE CLASS IDENTIFICATION |
| (1) | CHARACTER | 1 | SAASFI | STORAGE FORMAT IDENTIFICATION |
| (2) | UNSIGNED | 2 | SAASAD | STORAGE AREA SIZE |
| (4) | ADDRESS | 4 | SAASACA | STORAGE ACCOUNTING CHAIN |

SAB - Subsystem anchor block

CONTROL BLOCK NAME = DFHSABDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHSABPS
 DESCRIPTIVE NAME = CICS TS Subsystem Anchor Block
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1985, 2004
 FUNCTION =
 Contains addresses of CICS component control block storage which exists until re-IPL.
 Certain CICS components require control blocks which are accessible by all CICS systems run in a CEC.
 The SAB is used to anchor such control block storage.
 The MVS SSCT is used to anchor the SAB and CICS components use the MVS SSI VERIFY request to obtain the address of the SSCT itself.
 One SAB exists only, which is created by the first CICS component to require it after IPL. Subsequent CICS components update it as appropriate.
 The user components are:
 IRC - DFHIRP
 XRF - DFHWTI
 LIFETIME =
 Created by first user after IPL.
 Exists until re-IPL.
 STORAGE CLASS =
 MVS Common Service Area storage.
 LOCATION =

Address in MVS SSCTSUSE.
 INNER CONTROL BLOCKS =
 None
 NOTES :
 DEPENDENCIES = none
 RESTRICTIONS = none
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES =
 None
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None

Table 492.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHSABDS | |
| (0) | ADDRESS | 4 | SABCDD | Address of XRF CEC Dead Data |
| (4) | ADDRESS | 4 | SABSCTE | Address of IRC SCTE |
| (8) | CHARACTER | 6 | SABACRON | Eyecatcher 'DFHSAB' |
| (E) | FULLWORD | 1 | SABVERSN | Version of control block |
| (E) |1 | | SABV211 | "1" Version 2.1.1 SPE SAB |
| (E) |1. | | SABV620 | "2" Version 6.2.0 SPE SAB |
| (F) | BITSTRING | 1 | SABFLAG1 | First flag byte |
| (F) | 1... | | SAB1FMT | "X'80'" - reformat CICS messages |
| (F) | .1.. | | SAB1SEC | "X'40'" - protect security msgs |
| (F) | ..1. | | SAB1GRC | "X'20'" - generic routecodes supplied |
| (10) | ADDRESS | 4 | SABSSCT | Address of Subsystem CVT |
| (14) | ADDRESS | 4 | SABPNDPW | Pending password requests |
| (18) | ADDRESS | 4 | SABMAPPT | Addr of addr-space bitmap |
| (1C) | FULLWORD | 4 | SABMAPLN | Len of addr-space bitmap |
| (20) | BITSTRING | 16 | SABGROUT | Generic Routecodes |
| (30) | FULLWORD | 4 | SABLGIM | Actual logon limit for the address space |
| (30) | .11. .1.. | | SABLGDFI | "100" Default logon limit for the address space |
| (30) | .11. .1.. | | SABLGMIN | "100" Minimum logon limit for the address space |
| (30) | 1111 1.1. | | SABLGMAX | "250" Maximum logon limit for the address space |
| (30) | ..11 .1.. | | SABL | "*-DFHSABDS" Length |

SUBSYSTEM CONTROL TABLE EXTENSION
 THE SCTE IS USED BY THE SVC TO CONTROL THE EXISTENCE
 OF THE LACB (LOGON ADDRESS CONTROL BLOCK).

Table 493.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|--|
| (0) | STRUCTURE | 0 | SCTE | |
| (0) | ADDRESS | 4 | SCTELACB | Address of LACB |
| (4) | FULLWORD | 3 | SCTECNT | NUMBER OF 'ASSOCIATED' address spaces |
| (7) | FULLWORD | 1 | SCTEMOD# | SCTE modification no. - potentially allows DFHIRP control blocks or algorithms to be changed at LACB create time without an IPL by using the dynamic LPA facility, but beware the XCF DIE page fix problem! |
| (7) |1 | | SCTEMOD1 | "1" SCTE modification 1 - CICS/TS 2.2 |
| (8) | FULLWORD | 4 | | Reserved - must not be deleted |
| (C) | HALFWORD | 2 | SCTESVCI | INSTRUCTION TO INVOKE CICS SVC - offset must never change (SDB, batch DPL) |
| (E) | ADDRESS | 1 | SCTEVER# | SCTE version no. - indicates level of associated DFHIRP control blocks |
| (E) |1 | | SCTEVER1 | "1" SCTE version 1 - CICS 4.1 |
| (E) |1. | | SCTEVER2 | "2" SCTE version 2 - CICS 5.1 |
| (E) |11 | | SCTEVER3 | "3" SCTE version 3 - CICS/TS 2.2 |
| (F) | BITSTRING | 1 | SCTEFLGS | Various flags |
| (F) | 1... | | SCTEFSP4 | "X'80" MVS includes XCF support (SP4 plus) |
| (F) | .1.. | | SCTEFXCF | "X'40" XCF level satisfies all IRP's needs |
| (F) | ...1 | | SCTELEN | "*-SCTE" LENGTH OF SCTE ENTRY |

SDG - Dump domain global statistics

CONTROL BLOCK NAME = DFHSDGDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHSDGPS
 DESCRIPTIVE NAME = CICS TS Dump Domain Global Statistics
 (System dumps)
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 FUNCTION = A record containing Dump Domain Global Statistics
 This DSECT describes the global system dump statistics
 Produced by the Dump Domain. A single instance of the data

is produced by the Dump Domain. Additional copies may be created by the statistics domain, statistics utility programs or user programs.
The data consists of a header plus a block of statistics for the Dump domain.
LIFETIME = Created when the Dump Domain is initialised and exists for the lifetime of the domain manager.
STORAGE CLASS = varies
LOCATION = User is passed a pointer to the storage
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = In Dump Domain
GLOBAL VARIABLES (Macro pass) = None

Table 494.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|---------------------------------------|
| (0) | STRUCTURE | 0 | DFHSDGDS | System Dump Global statistics |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | SDGLEN | Length of data area |
| (0) | .1.1 1.1. | | SDGIDE | "90" System dump global stats id mask |
| (2) | ADDRESS | 2 | SDGID | System dump global stats id |
| (2) |1 | | SDGVERS | "X'01" Stats version number mask |
| (4) | CHARACTER | 1 | SDGDVERS | Dump domain global stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | SYS_DUMPS_TAKEN | Number of system dumps taken |
| (C) | FULLWORD | 4 | SYS_DUMPS_SUPPR | Number of system dumps suppressed |
| (C) | ...1 | | SDGEND | "1*" |
| (C) | ...1 | | SDGCLEN | "1*-DFHSDGDS" Length of DSECT |

SDR - Dump domain system dump statistics

CONTROL BLOCK NAME = DFHSDRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSDRPS
DESCRIPTIVE NAME = CICS TS Dump Domain System Dump Statistics
(by dumpcode)
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FUNCTION = A record containing Dump Domain System Dump Stats
This DSECT describes the statistics produced by the Dump Domain for each system dumpcode. There will be one instance of the data for each dumpcode for which statistics

were requested.
The data consists of a header plus a block of statistics
for the Dump domain.
LIFETIME = Created when the Dump Domain is initialised and
exists for the lifetime of the Dump Domain.
STORAGE CLASS =
LOCATION = User is passed a pointer to the storage
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = In Dump Domain
GLOBAL VARIABLES (Macro pass) = None

Table 495.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------------|
| (0) | STRUCTURE | 0 | DFHSDRDS | Dump domain system dump stats |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | SDRLEN | Length of data area |
| (0) | .1.1 1... | | SDRIDE | "88" Dump domain system stats id mask |
| (2) | ADDRESS | 2 | SDRID | Dump domain system stats id |
| (2) |1 | | SDRVERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | SDRDVERS | Domain data format version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | SDRCODE | Dumpcode |
| (10) | FULLWORD | 4 | SDRSTKN | Number of system dumps taken |
| (14) | FULLWORD | 4 | SDRSSUPR | Number of system dumps suppressed |
| (18) | FULLWORD | 4 | SDRTTKN | Number of tran dumps taken (unused) |
| (1C) | FULLWORD | 4 | SDRTSUPR | Number of tran dumps suppressed |
| (1C) | ..1. | | SDREND | "15" |
| (1C) | ..1. | | SDRCLEN | "15-SDRLEN" Length |

SETCC - SET Storage Control (in FLAB and FRTE

CONTROL BLOCK NAME = DFHSETCC
DESCRIPTIVE NAME = CICS TS Set Storage Control
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FUNCTION =

DFHSSC describes the DSECT for the Set Storage Control area. This area describes the address, length, location (above or below) and key (CICS or USER) of storage that is returned in response to requests that specify the keyword SET.

The Set Storage Control dsect is intended to be imbedded within other dsects. It may be used by any component that allocates SET storage.

For example, the Set Storage Control dsect is used by File Control. It is imbedded within the FRTE, where it is used to describe SET storage acquired by READ UPDATE SET, READNEXT SET and READPREV SET requests. It is also imbedded within the FLAB where it is used to describe storage acquired by READ SET requests.

LIFETIME =

Lifetime of control block that imbeds DFHSETCC. See comments in description of appropriate control block.

STORAGE CLASS =

See control block that imbeds DFHSETCC.

LOCATION =

See control block that imbeds DFHSETCC.

INNER CONTROL BLOCKS =

None.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition.

Table 496.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|---------------------|
| (0) | STRUCTURE | 8 | DFHSSC | |
| (0) | ADDRESS | 4 | SSC_SET_ADDRESS | Set storage address |
| (4) | HALFWORD | 2 | SSC_SET_LENGTH | Set storage length |
| (6) | BIT(8) | 1 | SSC_SET_FLAGS | Flag byte |
| (6) | 1... | | SSC_SET_BELOW | Storage below line |
| (6) | .1.. | | SSC_SET_CICS | Storage in CICS key |
| (6) | ..11 1111 | | * | Reserved |
| (7) | CHARACTER | 1 | * | Reserved |

SIP - System initialization program

DESCRIPTIVE NAME = CICS TS SYSTEM INITIALIZATION PROGRAM
COMMUNICATION AREA

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FUNCTION = COMMUNICATION AREA FOR INITIALIZATION.

MACROS = DFHSIPD

Table 497.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------------|-----------|-----|------------|--------------------------|
| (0) | STRUCTURE | 0 | DFHSIPDS | |
| (0) | DBL WORD | 8 | SIPCOM (0) | LABEL FOR ADDRESSABILITY |
| INITIALIZATION SUBROUTINE ADDRESSES | | | | |

Table 497. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (0) | ADDRESS | 4 | SIPOSUP | ADDRESS OF OVERLAY SUPERVISOR |
| (4) | ADDRESS | 4 | | Reserved |
| (8) | ADDRESS | 4 | SIPLDER | ADDRESS OF LOADER ROUTINE IN APSIP |
| (C) | ADDRESS | 4 | SIPPUT | ADDRESS OF CONSOLE PUT ROUTINE |
| (10) | ADDRESS | 4 | SIPCORE | ADDRESS OF GETMAIN ROUTINE |
| CONTROL AREA AND PROGRAM ADDRESSES | | | | |
| (14) | ADDRESS | 4 | SIPCSA | ADDRESS OF DFHCSA |
| (18) | ADDRESS | 4 | SIPSIT | ADDRESS OF DFHSIT |
| (1C) | ADDRESS | 4 | SIPBASER | DFHSIP BASE ADDRESS |
| (20) | ADDRESS | 4 | SIPDMSTK | A (kernel stack) at entry to SIP |
| (24) | ADDRESS | 4 | SIPDMPLP | kernel plist pointer at entry to SIP |
| (28) | ADDRESS | 4 | SIPSTACK | A(kernel stack) for task entering one of the closed subroutines in DFHSIP |
| (2C) | ADDRESS | 4 | (6) | Reserved |
| (44) | ADDRESS | 4 | SIPDMSRA | A(SIPDMSR) = DOMAIN MANAGER TASK SYNCHRONIZATION ROUTINE |
| (48) | ADDRESS | 4 | (3) | Reserved |
| (54) | ADDRESS | 4 | SIPDMPRA | A(SIPGFTCT - the routine which posts APDM task when insufficient storage detected by TCP task |
| (58) | ADDRESS | 4 | (2) | Reserved |
| REGISTER SAVE AREAS FOR USE BY DFHSIP | | | | |
| (60) | FULLWORD | 4 | SIPSAVE (16) | GENERAL REGISTER SAVE AREA |
| (A0) | FULLWORD | 4 | SIPUTSV (16) | PUTSAVE REGISTER SAVE AREA |
| Flag bytes for controlling program loading These same equates are used in SIPNUCTB in DFHSIB1 | | | | |
| (E0) | BITSTRING | 2 | | Reserved |
| (E2) | BITSTRING | 1 | SIPFLAG | FLAG BYTE |
| (E2) | 1... | | SIPBLNUC | "X'80" .. BLDL FOR NUCLEUS MODULE |
| (E2) | .1.. | | SIPPRVMD | "X'40" .. MODULE MUST BE IN PRIVATE AREA (AND NOT SHARED) |

Table 497. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (E2) | ..1. | | SIPSHRMD | "X'20'" .. MODULE MUST BE IN SHARED AREA |
| (E2) | ...1 | | SIPSHRPL | "X'10'" .. SHARED PL/I MODULES FLAG |
| (E2) |1.. | | SIPBLNAB | "X'04'" .. NUCLEUS-BUILD ABEND FLAG |
| (E2) |1. | | SIPBLERR | "X'02'" .. MODULE NOT FOUND |
| (E2) |1. | | SIPERR | "X'02'" .. ERROR RESPONSE |
| (E2) |1 | | SIPSFYBL | "X'01'" .. SUFFIXABLE MODULE FLAG |
| (E3) | BITSTRING | 1 | SIPERFLG | INITIALIZATION/ERROR FLAGS |
| (E3) | 1... | | SIPCNCLR | "X'80'" .. CANCEL REQUESTED AFTER MSG DFH1596 |
| (E3) | 1... | | SIPLDERR | "X'08'" .. LOAD ERROR FLAG (OS-ONLY) |
| (E4) | BITSTRING | 1 | SIPFLAG3 | Flag Byte 3 |
| (E4) | 1... | | SIP2PLT | "X'80'" .. A PLT PROGRAM EXISTS THAT RUNS DURING THE 2ND STAGE OF INITIALIZATION |
| (E4) | .1.. | | SIP3PLT | "X'40'" .. A PLT PROGRAM EXISTS THAT RUNS DURING THE 3RD STAGE OF INITIALIZATION |
| (E5) | BITSTRING | 1 | SIPFLAG4 | FLAG BYTE 4 |
| (E5) | ...1 | | SIPF31B | "X'10'" ..GET DOMAIN STORAGE FROM 31BIT SUBPOOL |
| (E5) |1. | | SIPFDOSA | "X'02'" ..GETMAIN TO RETURN ADDR PAST LENGTH FD |
| PARAMETER PASSING FIELDS | | | | |
| (E8) | FULLWORD | 4 | SIPARMP1 | PARAMETER PASS FIELDS |
| (EC) | FULLWORD | 4 | SIPARMP2 | PARAMETER PASS FIELDS |
| (F0) | FULLWORD | 4 | SIPARMP3 | PARAMETER PASS FIELDS |
| (F4) | FULLWORD | 4 | SIPARMP4 | PARAMETER PASS FIELDS |
| (F8) | FULLWORD | 4 | SIPARMP5 | PARAMETER PASS AREA |
| (FC) | FULLWORD | 4 | SIPARMP6 | PARAMETER PASS AREA |
| (100) | FULLWORD | 4 | SIPARMP7 | PARAMETER PASS AREA |
| (104) | FULLWORD | 4 | SIPARMP8 | PARAMETER PASS AREA |
| (108) | FULLWORD | 4 | SIPARMP9 | PARAMETER PASS AREA |
| Program Loader / Overlay Supervisor -- Work & parameters | | | | |
| (10C) | CHARACTER | 8 | SILISTID | PROGRAM ID |

Table 497. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| Multitasking control areas | | | | |
| (114) | FULLWORD | 4 | | Reserved |
| (118) | FULLWORD | 4 | SIPDMTEC | DOMAIN MANAGER TASK ECB |
| SM Domain domain storage tokens | | | | |
| (11C) | CHARACTER | 8 | SIPDS24B | storage token CICS key & below 16M |
| (124) | CHARACTER | 8 | SIPDSANY | storage token CICS key & above 16M |
| (12C) | CHARACTER | 16 | SIPDS64A | storage token CICS key & above bar |
| (13C) | CHARACTER | 8 | SIPDU24B | storage token User key & below 16M |
| (144) | CHARACTER | 8 | SIPDUANY | storage token User key & above 16M |
| (14C) | CHARACTER | 16 | SIPDU64A | storage token User key & above bar |
| COMMUNICATION AREA - DFHSIH1 TO DFHSII1 TO DFHSIJ1 | | | | |
| (15C) | FULLWORD | 4 | CHKRLSAV | SAVE SIPBAR |
| (160) | ADDRESS | 4 | SIPCICNA | a(copyright notice, level indicator etc) |
| (164) | ADDRESS | 4 | SIPITCAP | A(TCA acquired during initialization) |
| (168) | FULLWORD | 4 | SIPPLTAD | ADDRESS OF PLTPI ENTRY POINT |
| (16C) | FULLWORD | 4 | (4) | Reserved |
| (17C) | FULLWORD | 4 | SIPPLTE1 | Early PLT complete ECB |
| (180) | FULLWORD | 4 | SIPPLTE2 | Start late PLT ECB |
| (184) | FULLWORD | 4 | SIPPLTE3 | Late PLT complete ECB |
| (184) | | 0 | SIPCOME A | "15" END OF INITIALIZATION COMMUNICATIONS AREA |

SIT - System initialization table

CONTROL BLOCK NAME = DFHSITPS
 DESCRIPTIVE NAME = CICS TS SYSTEM INITIALIZATION TABLE
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 FUNCTION =
 Mapping of the CICS System Initialization Table
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NOT APPLICABLE

MODULE TYPE = MACRO
MODULE SIZE = NOT APPLICABLE
ATTRIBUTES = NOT APPLICABLE
MACROS : None

Table 498.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|------|------------|---------------------------------|
| (0) | STRUCTURE | 3760 | DFHSITPS | System Initialization Table |
| (0) | CHARACTER | 0 | SITPSBA | Table entry point |
| OPERATING SYSTEM AND CICS LEVELS | | | | |
| (0) | CHARACTER | 1 | SITOPSYS | Operating System |
| (1) | CHARACTER | 1 | SITOPREL | Operating System Release |
| (2) | CHARACTER | 1 | SITCICS | CICS system |
| (3) | UNSIGNED | 1 | SITCIREL | CICS release |
| (4) | UNSIGNED | 1 | SITCIMOD | CICS modification level |
| (5) | CHARACTER | 3 | * | Reserved |
| LENGTHS OF SIT AND CWA | | | | |
| (8) | HALFWORD | 2 | SITLEN | Length of SIT |
| (A) | HALFWORD | 2 | SITCWA | Required CWA size |
| (C) | FULLWORD | 4 | * | Reserved |
| ADDRESS CONSTANTS | | | | |
| (10) | ADDRESS | 4 | DFHDLI | Address of DL/I link list |
| (14) | FULLWORD | 4 | DFHAPT | Reserved |
| (18) | ADDRESS | 4 | SITCOMA | Communications area address |
| (1C) | ADDRESS | 4 | SITOVPRM | Address of override parms |
| (20) | ADDRESS | 4 | SITINTPM | Address of SITINIT parms |
| (24) | ADDRESS | 4 | SITSRPAE | Reserved |
| (28) | ADDRESS | 4 | SITPRVMA | Address of prvmod list |
| TIME CONTROL VALUES | | | | |
| (2C) | HALFWORD | 2 | SITWBTIP | Web terminal-I/O period |
| (2E) | HALFWORD | 2 | SITWBGCI | Web garbage-collect interval |
| (30) | HALFWORD | 2 | * | Reserved |
| (32) | HALFWORD | 2 | SITTSDTI | Terminal scan delay |
| (34) | FULLWORD | 4 | SITRICVL | Runaway task time interval |
| (38) | FULLWORD | 4 | SITICVAL | System time interval |
| (3C) | UNSIGNED | 2 | SITDFINT | LG defer interval |
| (3E) | HALFWORD | 2 | * | Reserved |
| MISCELLANEOUS SIZES, COUNTERS AND FLAGS | | | | |
| (40) | FULLWORD | 4 | SITESDSA | ESDSASZE |
| (44) | FULLWORD | 4 | SITERDSA | ERDSASZE |
| (48) | FULLWORD | 4 | SITOPTIM | Write to operator timeout value |
| (4C) | FULLWORD | 4 | SITTRTSZ | Trace table # of entries |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------|-----------|-----|---------------|--------------------------------|
| (50) | CHARACTER | 1 | * | reserved |
| (51) | CHARACTER | 1 | SIT_PS_TYPE | M if MNPS |
| (52) | UNSIGNED | 2 | SITAKPFR | Activity keypoint freq |
| (54) | CHARACTER | 1 | SIT_VT_PREFIX | Common Client terminal prefix |
| (55) | BIT(8) | 1 | SITTRNTY | Tran dump trace option |
| (55) | 1... | | SITTRALL | Option ALL |
| (55) | .111 1111 | | * | Unused |
| (56) | BIT(8) | 1 | SITSRCVY | Storage recovery byte |
| (56) | 1... | | SITSRYES | Storage recovery requested |
| (56) | .1.. | | * | Reserved |
| (56) | ..1. | | * | Reserved |
| (56) | ...1 | | * | Reserved |
| (56) | 1... | | * | Reserved |
| (56) |1.. | | * | Reserved |
| (56) |1. | | * | Reserved |
| (56) |1 | | * | Reserved |
| (57) | UNSIGNED | 1 | SITTCSWT | TC Shutdown Wait |
| (58) | BIT(8) | 1 | SITTCSAN | TC Shutdown Action |
| (58) | 1... | | SITTCSUB | TC Shut Act, Unbind |
| (58) | .1.. | | SITTCSFO | TC Shut Act, Force |
| (58) | ..11 1111 | | * | Reserved |
| (59) | CHARACTER | 4 | SITVDLY | Autoinstall delete delay time |
| (5D) | BIT(8) | 1 | SITCHTSK | CHKSTSK option |
| (5D) | 1... | | * | Reserved |
| (5D) | .1.. | | SITTSKCR | Check current task storage |
| (5D) | ..11 1111 | | * | Reserved |
| (5E) | BIT(8) | 1 | SITCHTRM | CHKSTRM option |
| (5E) | 1... | | SITTRMCR | Check current terminal storage |
| (5E) | .111 1111 | | * | Reserved |
| (5F) | BIT(8) | 1 | SITRRMS | RRMS options |
| (5F) | 1... | | SITRRMSYES | RRMS=YES |
| (5F) | .111 1111 | | * | |
| (60) | FULLWORD | 4 | SITPSDI | PSDI option (HHMMSS) |
| SUPERVISOR CALL LIST | | | | |
| (64) | UNSIGNED | 1 | SITSVSNO | Service svc number |
| (65) | UNSIGNED | 1 | SITSISNO | Service init. svc number |
| (66) | HALFWORD | 2 | * | Reserved |
| (68) | HALFWORD | 2 | * | Reserved |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------|-----------|-----|--------------------|---------------------------------|
| MISCELLANEOUS OPTIONS | | | | |
| (6A) | BIT(8) | 1 | SITSTRCD | STATistics Recording ON/OFF |
| (6A) | 1... | | SITSTRCDO | |
| (6A) | .111 1111 | | * | Reserved |
| (6B) | CHARACTER | 1 | SITTCUA | TCTTE User Area Location |
| (6C) | UNSIGNED | 2 | SITPMULT | Dispatcher priority multiplier |
| (6E) | UNSIGNED | 1 | SITSBTSK | No. of subtasks |
| (6F) | CHARACTER | 1 | SITPMIR | MROLRM: SESSION RETAINS MIR |
| (70) | HALFWORD | 2 | SITDMPRT | Dump Retry value (DURETRY=) |
| (72) | CHARACTER | 1 | SITMROB | MRO BATCHING VALUE |
| (73) | UNSIGNED | 1 | SITASW | Aux trace autoswitch option |
| (73) | 1... | | SITASWC | Aux trace autoswitch continuous |
| (73) | .1.. | | SITASW1 | Aux trace autoswitch once |
| (73) | ..11 1111 | | * | Reserved |
| (74) | CHARACTER | 4 | SITFLDSP | Field sep chars |
| (78) | CHARACTER | 1 | SITFLDST | Field start char |
| (79) | UNSIGNED | 1 | SITCONF | CONF field options |
| (79) | 1... | | SITCONFTEXT_YES | CONFTEXT=YES |
| (79) | .1.. | | SITCONFDATA_HIDETC | CONFDATA=HIDETC |
| (79) | ..11 | | * | Reserved |
| (79) | 1... | | SITENCTLS12 | ENCRYPTION=TLS12 |
| (79) |1.. | | SITENCAL | ENCRYPTION=ALL |
| (79) |11 | | SITENCST | ENCRYPTION=STRONG |
| (7A) | UNSIGNED | 1 | SITTROP | Trace option |
| (7A) | 1... | | SITITRO | Internal trace required |
| (7A) | .1.. | | * | Reserved |
| (7A) | ..1. | | SITUTRO | User trace required |
| (7A) | ...1 | | SITSTRO | System trace required |
| (7A) | 1... | | SITATRO | Aux trace required |
| (7A) |1.. | | SITATPE | Aux trace tape device (DOS) |
| (7A) |1. | | SITGTRO | GTF trace required |
| (7A) |1 | | * | Reserved |
| (7B) | BIT(8) | 1 | SITSMDNO | System dump option (DUMP=) |
| (7B) | 1... | | SITSMDYS | Dump=yes |
| (7B) | .1.. | | SITDAE | DAE=yes |
| (7B) | ..11 1111 | | * | Reserved |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------|
| (7C) | CHARACTER | 1 | SITDMPDS | Dump dataset suffix or X |
| (7D) | UNSIGNED | 1 | SITDMPSW | Tran dump autoswitch option |
| (7D) | 1... | | SITDSWY | Autoswitch required |
| (7D) | .111 1111 | | * | Reserved |
| (7E) | UNSIGNED | 1 | SITPRINT | Print key option |
| (7F) | CHARACTER | 1 | SITMSGLV | Console msg level indicator |
| (80) | BIT(8) | 1 | SITRUWA | LE storage management options |
| (80) | 1... | | SITRUWPL | ruwapool yes |
| (80) | .1.. | | SITAUTST | autodst yes |
| (80) | ..11 1111 | | * | Unused |
| (81) | CHARACTER | 1 | * | reserved |
| (82) | BIT(8) | 1 | SITMSGCS | Message Case Indicator |
| (82) | 1... | | SITMSGUP | Uppercase messages only |
| (82) | .1.. | | SITMSGMX | Mixed Case messages. |
| (82) | ..11 1111 | | * | Reserved |
| (83) | BIT(8) | 1 | SITDATFM | CSA date format |
| (83) | 1... | | * | Reserved |
| (83) | .1.. | | * | Reserved |
| (83) | ..1. | | * | Reserved |
| (83) | ...1 | | * | Reserved |
| (83) | 1... | | * | Reserved |
| (83) |1.. | | SITDTYMD | YYMMDD |
| (83) |1. | | SITDMDY | DDMMYY |
| (83) |1 | | SITDMDY | MMDDYY |
| (84) | CHARACTER | 1 | SITFRCQR | FORCEQR option |
| (85) | CHARACTER | 1 | SITIRCS | IRC session startup option |
| (86) | CHARACTER | 1 | SITHPO | HPO option |
| (87) | CHARACTER | 1 | SITLPA | Link pack area option |
| (88) | UNSIGNED | 1 | SITFERS | Reserved |
| (89) | CHARACTER | 1 | SITEODI | Sequ. devices EOD Indicator. |
| (8A) | CHARACTER | 1 | * | Reserved |
| (8B) | CHARACTER | 1 | SITDTBO | DTB buffers (M I A) (DOS only) |
| (8C) | BIT(8) | 1 | SITTRAP | F.E. trap option |
| (8C) | 1... | | SITTRAPO | Global trap required |
| (8C) | .1.. | | * | Reserved |
| (8C) | ..1. | | * | Reserved |
| (8C) | ...1 | | * | Reserved |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------|-----------|-----|------------|------------------------------|
| (8C) | 1... | | * | Reserved |
| (8C) |1.. | | * | Reserved |
| (8C) |1. | | * | Reserved |
| (8C) |1 | | * | Reserved |
| (8D) | BIT(8) | 1 | SITMONCL | Monitor options |
| (8D) | 1... | | SITMONY | Monitor=on |
| (8D) | .1.. | | SITMONPR | Performance class required |
| (8D) | ..1. | | SITMONEX | Exception class required |
| (8D) | ...1 | | SITMONRS | Resource class required |
| (8D) | 1... | | SITMONID | Identity class required |
| (8D) |1.. | | * | Reserved |
| (8D) |1. | | * | Reserved |
| (8D) |1 | | * | Reserved |
| (8E) | BIT(8) | 1 | SITMONOP | Monitor operations |
| (8E) | 1... | | SITMONCO | Converse mon required |
| (8E) | .1.. | | SITMONSY | Syncpoint mon required |
| (8E) | ..1. | | SITMONTM | Monitor time in local STCK |
| (8E) | ...1 | | * | Reserved |
| (8E) | 1... | | * | Reserved |
| (8E) |1.. | | * | Reserved |
| (8E) |1. | | * | Reserved |
| (8E) |1 | | * | Reserved |
| (8F) | CHARACTER | 4 | SITMONFR | MN frequency (0HHMMSSC) |
| (93) | CHARACTER | 8 | * | Was MNSUBSYS (Obsolete) |
| (9B) | CHARACTER | 8 | SITGRPLI | SPI group list id |
| Security Options | | | | |
| (A3) | CHARACTER | 7 | SITXPSB | Classname for PSB |
| (AA) | CHARACTER | 7 | SITXTRAN | Classname for TRANSATTACH |
| (B1) | CHARACTER | 7 | SITXFCT | Classname for FILE |
| (B8) | CHARACTER | 7 | SITXJCT | Classname for JOURNALNAME |
| (BF) | CHARACTER | 7 | SITXDCT | Classname for TDQUEUE |
| (C6) | CHARACTER | 7 | SITXTST | Classname for TSQUEUE |
| (CD) | CHARACTER | 7 | SITXPPT | Classname for PROGRAM |
| (D4) | CHARACTER | 7 | SITXPCT | Classname for TRANSACTION |
| (DB) | CHARACTER | 7 | SITXRES | Classname for generics |
| (E2) | CHARACTER | 7 | SITXCMD | Classname for SPCOMMAND |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------|-----------|-----|------------|--|
| (E9) | CHARACTER | 8 | SITXDB2E | Classname for DB2ENTRY |
| (F1) | CHARACTER | 3 | * | Reserved |
| (F4) | BIT(8) | 1 | SITSECFL | Security flag byte |
| (F4) | 1... | | SITSECEX | External security requested |
| (F4) | .1.. | | SITSECPR | Resource prefix required |
| (F4) | ..1. | | SITSECAV | Audit Verifies |
| (F4) | ...1 | | SITXAPPC | RACLIST class APPCLU required |
| (F4) | 1... | | SITESMIN | ESM INSTLN data required |
| (F4) |1.. | | SITXUSER | Surrogate User Check required |
| (F4) |1. | | SITRESSE | Always enact resource check |
| (F4) |1 | | SITCMDSE | Always enact command check |
| (F5) | BIT(8) | 1 | SITSECF2 | SECURITY FLAG BYTE NO. 2 |
| (F5) | 1... | | * | Reserved - was XEJB |
| (F5) | .1.. | | SITXHFS | HFS file security required |
| (F5) | ..1. | | SITENF71 | RACFSYNC Listen enf 71 |
| (F5) | ...1 1111 | | * | Reserved |
| (F6) | BIT(8) | 1 | SITPLTSC | PLTPI Security options |
| (F6) | 1... | | SITPLTCM | Command level checking |
| (F6) | .1.. | | SITPLTRS | Resource level checking |
| (F6) | ..11 1111 | | * | Reserved |
| (F7) | UNSIGNED | 1 | SITSCOPE | Signon Scope Checking |
| (F8) | CHARACTER | 8 | SITDFUSR | Default Security userid |
| (100) | HALFWORD | 2 | SITUDTIM | Tuning parm value for User Directory Timeout |
| (102) | HALFWORD | 2 | SITLUIT | LUIT tuning parm value |
| (104) | CHARACTER | 8 | SITSECPX | Security Resource Prefix |
| (10C) | CHARACTER | 8 | SITPLTID | PLTPI User id |
| (114) | CHARACTER | 16 | * | Reserved - was EJB ROLE PREFIX |
| (124) | CHARACTER | 1 | SITEMIR | MROFSE: retain mirror |
| (125) | CHARACTER | 3 | * | RESERVED |
| DUMP OPTIONS | | | | |
| (128) | FULLWORD | 4 | SITTRNSZ | Size of transaction dump trace |
| (12C) | CHARACTER | 2 | * | RESERVED |
| BASIC MAPPING SUPPORT OPTIONS | | | | |
| (12E) | UNSIGNED | 1 | SITPGCHN | Pgchain length |
| (12F) | CHARACTER | 7 | * | Pgchain data |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|----------------------------------|
| (136) | UNSIGNED | 1 | SITPGCPY | Pgcopy length |
| (137) | CHARACTER | 7 | * | Pgcopy data |
| (13E) | UNSIGNED | 1 | SITPGPRG | Pgpurge length |
| (13F) | CHARACTER | 7 | * | Pgpurge data |
| (146) | UNSIGNED | 1 | SITPGRET | Pgret length |
| (147) | CHARACTER | 7 | * | Pgret data |
| (14E) | CHARACTER | 2 | SITFCOMP | Reserved |
| (150) | BIT(24) | 3 | SITPRGD | Purge delay interval HHMM |
| (153) | BIT(8) | 1 | SITPOPT | BMS process options |
| (153) | 1... | | * | Reserved |
| (153) | .1.. | | SITALGN | Default map aligned |
| (153) | ..1. | | SITNDDS | No device-dependent suffixing |
| (153) | ...1 | | * | Reserved |
| (153) | 1... | | * | Reserved |
| (153) |1.. | | * | Reserved |
| (153) |1. | | * | Reserved |
| (153) |1 | | * | Reserved |
| (154) | CHARACTER | 1 | SITBMSO | BMS option (M\|S\|F) |
| END OF BMS OPTIONS | | | | |
| (155) | CHARACTER | 1 | SITDISM | Disable Trans after ASRD |
| TABLE SUFFICES | | | | |
| (156) | CHARACTER | 2 | * | Reserved |
| (158) | CHARACTER | 2 | * | Reserved |
| (15A) | CHARACTER | 2 | SITFCTSF | File control table |
| (15C) | CHARACTER | 2 | * | Reserved |
| (15E) | CHARACTER | 2 | * | Reserved |
| (160) | CHARACTER | 2 | * | Reserved |
| (162) | CHARACTER | 2 | SITPLTPI | PLT (program initialization) |
| (164) | CHARACTER | 2 | SITPLTSD | PLT (shutdown) |
| (166) | CHARACTER | 2 | * | Reserved |
| (168) | CHARACTER | 2 | SITSRTSF | System recovery table |
| (16A) | CHARACTER | 2 | SITTCTSF | Terminal control table |
| (16C) | CHARACTER | 2 | SITTSTSF | Temporary storage table |
| (16E) | CHARACTER | 2 | SITXLTSF | Transaction list table |
| (170) | CHARACTER | 2 | SITMCTSF | Monitor control table |
| (172) | CHARACTER | 2 | * | Reserved |
| DSA sizes, cushion sizes and storage protect parms | | | | |
| (174) | FULLWORD | 4 | SITDSA | Upper DSA limit |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--------------------------------|
| (178) | FULLWORD | 4 | SITEDSA | Upper EDSA limit |
| (17C) | FULLWORD | 4 | SITCDSA | CDSASZE |
| (180) | FULLWORD | 4 | SITUDSA | UDSASZE |
| (184) | FULLWORD | 4 | SITSDSA | SDSASZE |
| (188) | FULLWORD | 4 | SITRDSA | RDSASZE |
| (18C) | FULLWORD | 4 | SITECDSA | ECDSASZE |
| (190) | FULLWORD | 4 | SITEUDSA | EUDSASZE |
| (194) | FULLWORD | 4 | SITTRDUMAX | Dump table maximum |
| (198) | FULLWORD | 4 | SITSYDUMAX | Dump table maximum |
| (19C) | BIT(8) | 1 | SITCICSF | Storage protection flags |
| (19C) | 1... | | SITSTPRO | STGPROT 0=NO 1=YES |
| (19C) | .1.. | | SITCWAKY | CWAKEY 0=USER 1=CICS |
| (19C) | ..1. | | SITTCTUA | TCTUAKEY 0=USER 1=CICS |
| (19C) | ...1 | | SITRNTPGM | RENTPGM 0=PROT 1=NOPROT |
| (19C) | 1... | | SITTRNISO | TRANISO 0=NO 1=YES |
| (19C) |1.. | | SITCMDPRO | CMDPROT 0=NO 1=YES |
| The SLD and CICSDEV SIT parms can only be specified as overrides. They are for test only and will be hidden from the customer. | | | | |
| (19C) |1. | | SITSLDYES | SLD? 0=NO 1=YES |
| (19C) |1 | | * | Reserved |
| (19D) | UNSIGNED | 1 | SITCICSD | CICSDEV |
| (19E) | CHARACTER | 2 | * | Reserved |
| TS main limit | | | | |
| (1A0) | UNSIGNED | 4 | SITTSML | TS main storage limit |
| NUCLEUS MODULE SUFFICES THE FOLLOWING 7 FIELDS ARE USED BY CICS BUT THEY ARE NOT AVAILABLE TO THE USER | | | | |
| (1A4) | CHARACTER | 2 | SITMCPSF | BMS MCP suffix set by CICS |
| (1A6) | CHARACTER | 2 | SITRLRSF | BMS RLR suffix set by CICS |
| (1A8) | CHARACTER | 2 | SITPBPSF | BMS PBP suffix set by CICS |
| (1AA) | CHARACTER | 2 | SITM32SF | BMS M32 suffix set by CICS |
| (1AC) | CHARACTER | 2 | SITTPPSF | BMS TPP suffix set by CICS |
| (1AE) | CHARACTER | 2 | SITIIPSF | BMS IIP suffix set by CICS |
| (1B0) | CHARACTER | 2 | SITDSBSF | BMS DSB suffix set by CICS |
| (1B2) | CHARACTER | 2 | SITTCPSF | Terminal control pgm (BTAM) |
| (1B4) | CHARACTER | 2 | * | Reserved |
| (1B6) | CHARACTER | 2 | * | Reserved |
| (1B8) | CHARACTER | 2 | * | Reserved |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------------|-----------|-----|--|--------------------------------|
| (1BA) | CHARACTER | 2 | SITDIPSF | Data interchange option/suffix |
| (1BC) | CHARACTER | 2 | * | Reserved |
| (1BE) | CHARACTER | 2 | SITDL1 | DL/I suffix |
| SIT PARAMETERS FOR ISC | | | | |
| (1C0) | CHARACTER | 2 | SITISCSF | General ISC suffix |
| (1C2) | CHARACTER | 2 | * | Reserved |
| (1C4) | CHARACTER | 2 | * | Reserved |
| (1C6) | CHARACTER | 2 | * | Reserved |
| SIT OPTION FOR EXECUTION INTERFACE | | | | |
| (1C8) | CHARACTER | 2 | * | Reserved |
| (1CA) | CHARACTER | 6 | * | Reserved |
| (1D0) | CHARACTER | 8 | SITTBPX6 | TBP exit program 6 |
| (1D8) | CHARACTER | 8 | SITGRNME | Generic resource applid |
| (1E0) | CHARACTER | 8 | SITTBPX1 | TBP exit program 1 |
| (1E8) | CHARACTER | 8 | SITTBPX2 | TBP exit program 2 |
| (1F0) | CHARACTER | 6 | * | Reserved |
| START-UP OPTIONS | | | | |
| (1F6) | CHARACTER | 1 | SITSTRTA | ALL specified on START(Y\|N) * |
| (1F7) | CHARACTER | 1 | SITSTART | CICS/ESA start-up option |
| | | | 'A' - START=AUTO 'U' - START=(AUTO,ALL) 'S' - START=STANDBY 'T' - START=(STANDBY,ALL) 'C' - START=COLD 'I' - START=(COLD,ALL) 'I' - START=INITIAL 'I' - START=(INITIAL,ALL) 'E' - START=EMER 'R' - START=(EMER,ALL) 'W' - START=WARM 'H' - START=(WARM,ALL) | |
| (1F8) | CHARACTER | 1 | SITIND | Emergency indicator |
| (1F9) | CHARACTER | 1 | SITFEPOP | FEPI required Y/N |
| | | | SITFEPIN CONSTANT('Y') - required SITFEPOU CONSTANT('N') - absent | |
| (1FA) | CHARACTER | 1 | SITSINIT | START=INITIAL indicator |
| | | | SITSINIY CONSTANT('Y') - Yes, qualifies SITSTART=I SITSININ CONSTANT('N') - No | |
| (1FB) | BIT(8) | 1 | SITSOFFS | OFFSITE settings:- |
| (1FB) | 1... .. | | SITOFFSI | This is an offsite restart |
| (1FB) | .111 1111 | | * | Reserved |
| (1FC) | BIT(8) | 1 | SITDCTOP | TDINTRA option status |
| (1FC) | 1... .. | | SITINTRA | TDINTRA=EMPTY specified |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|----------------------------------|
| (1FC) | .111 1111 | | * | Reserved |
| (1FD) | BIT(8) | 1 | SITFSSTA | Function ship start option |
| (1FD) | 1... | | SITFSSTY | Link affinity required |
| (1FD) | .111 1111 | | * | Reserved |
| (1FE) | BIT(8) | 1 | * | Reserved - was TD subtasking |
| @R302C | | | | |
| (1FF) | UNSIGNED | 1 | SITICPOP | Start-up option |
| (200) | UNSIGNED | 1 | SITTSPOP | Start-up option |
| (201) | CHARACTER | 1 | SITDBCOP | DBCTL connect required Y\|N |
| (202) | CHARACTER | 1 | SITDB2OP | DB2 connect required Y\|N |
| (203) | UNSIGNED | 1 | SITBMSOP | Start-up option |
| (204) | CHARACTER | 1 | SITMQOP | MQ connect required Y\|N |
| (205) | BIT(8) | 1 | SITFEAT | Miscellaneous features |
| (205) | 1... | | SITFEAWB | Web Interface feature |
| (205) | .1.. | | * | Reserved |
| (205) | ..1. | | * | Reserved |
| (205) | ...1 | | * | Reserved |
| (205) | 1... | | * | Reserved |
| (205) |1.. | | * | Reserved |
| (205) |1. | | * | Reserved |
| (205) |1 | | * | Reserved |
| (206) | UNSIGNED | 1 | SITPSOPT | System spooling option |
| (207) | CHARACTER | 1 | SITPSID | Special feature identifier |
| (208) | CHARACTER | 1 | SITPSCLS | Special feature class. |
| (209) | CHARACTER | 4 | SITGMMNM | Good Morning Transaction |
| (20D) | CHARACTER | 4 | SITGNITE | Good Night Transaction |
| MAXIMUM TASK COUNTS | | | | |
| (211) | UNSIGNED | 1 | * | Reserved |
| (212) | HALFWORD | 2 | SITMXOTS | Max Open TCBs limit |
| (214) | HALFWORD | 2 | SITMXTSK | Max task count, packed decimal * |
| SHUTDOWN ASSIST TRANSACTION | | | | |
| (216) | CHARACTER | 4 | SITSDTRN | SHUT DOWN TRANSACTION |
| (21A) | CHARACTER | 8 | SITNCPLD | NAMED COUNTER POOL DEFAULT |
| (222) | CHARACTER | 8 | SITCODPG | Default document codepage |
| VALUES FROM OLD DFHTCT TYPE=INITIAL MACRO | | | | |
| (22A) | CHARACTER | 2 | * | Reserved |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-------------------------------------|
| (22C) | ADDRESS | 4 | SITGMTAD | Address of good morning message |
| (230) | CHARACTER | 4 | SITSYSID | Local system entry name |
| (234) | HALFWORD | 2 | SITRAPL | VTAM receive any RPL count |
| (236) | HALFWORD | 2 | SITRAMAX | Max i/o area for receive any's |
| (238) | HALFWORD | 2 | SITOPNDL | Max opndst/clsdst count |
| (23A) | BIT(8) | 1 | SITACMTH | Access Method flags |
| (23A) | 1... | | SITVTAM | VTAM=YES |
| (23A) | .1.. | | SITLGNMS | LOGONMSG=YES |
| (23A) | ..1. | | * | Reserved |
| (23A) | ...1 | | * | Reserved |
| (23A) | 1... | | SITTCPIP | TCPIP=YES |
| (23A) |1.. | | * | Reserved (was IIOPLISTENER) R41257C |
| (23A) |1. | | * | Reserved |
| (23A) |1 | | * | Reserved |
| (23B) | BIT(8) | 1 | SITRESP | Logical Unit Response type |
| (23B) | 1... | | SITFME | Function management end |
| (23B) | .1.. | | SITRRN | Reached recovery node |
| (23B) | ..1. | | * | Reserved |
| (23B) | ...1 | | * | Reserved |
| (23B) | 1... | | * | Reserved |
| (23B) |1.. | | * | Reserved |
| (23B) |1. | | * | Reserved |
| (23B) |1 | | * | Reserved |
| SINGLE KEY RETRIEVAL TABLE | | | | |
| (23C) | CHARACTER | 624 | SITSKRTB | 39key x 16byte SKR cmd table |
| FURTHER MISCELLANEOUS SIZES AND COUNTERS | | | | |
| (4AC) | HALFWORD | 2 | SITTD BNO | No. of buffers for I/P TD |
| (4AE) | HALFWORD | 2 | SITTD SNO | No. of strings for I/P TD |
| (4B0) | HALFWORD | 2 | SITTS BNO | No. of buffers for aux TS |
| (4B2) | HALFWORD | 2 | SITTS SNO | No. of strings for aux TS |
| (4B4) | FULLWORD | 4 | SITVMXWE | Max # autoinstall WE's |
| (4B8) | CHARACTER | 8 | SITVAXIT | Autoinstall user-program name |
| (4C0) | CHARACTER | 8 | SITTB PX3 | TBP exit program 3 |
| (4C8) | CHARACTER | 8 | SITTB PX4 | TBP exit program 4 |
| (4D0) | CHARACTER | 8 | SITTB PX5 | TBP Exit Program 5 |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---------------------------------|
| (4D8) | CHARACTER | 8 | SITUOWNQ | UOW network qual (VTAM=NO) |
| (4E0) | CHARACTER | 1 | SITVAICN | Console autoI (YES\|NO\|AUTO) |
| (4E1) | BIT(8) | 1 | SITCSMOP | CPSMCONN req/type |
| (4E1) | 1... | | SITCSMCM | |
| (4E1) | .1.. | | SITCSMNO | |
| (4E1) | ..1. | | SITCSMLM | |
| (4E1) | ...1 | | SITCSMWU | |
| (4E1) | 1... | | SITCSMRM | |
| (4E1) |1.. | | * | Reserved for CPSM |
| (4E1) |1. | | * | Reserved for CPSM |
| (4E1) |1 | | * | Reserved for CPSM |
| (4E2) | CHARACTER | 2 | * | RESERVED |
| XRF - DEFINITIONS FOR ACTIVE AND BACKUP | | | | |
| (4E4) | CHARACTER | 1 | SITXRFFN | XRF function |
| (4E5) | CHARACTER | 1 | SITXRSNS | CICS (XRF) signon state |
| (4E6) | CHARACTER | 8 | SITGAPLD | Generic applid |
| (4EE) | CHARACTER | 8 | SITSAPLD | Specific applid |
| XRF - DEFINITIONS FOR ACTIVE | | | | |
| (4F6) | HALFWORD | 2 | * | Reserved |
| (4F8) | FULLWORD | 4 | SITPDI | Action delay interval |
| XRF - DEFINITIONS FOR BACKUP | | | | |
| (4FC) | CHARACTER | 1 | SITTAKE | Takeover option |
| (4FD) | CHARACTER | 8 | SITCLT | Command list table |
| (4FD) | CHARACTER | 6 | * | - prefix |
| (503) | CHARACTER | 2 | SITCLTSF | - suffix |
| (505) | CHARACTER | 3 | * | Reserved |
| (508) | FULLWORD | 4 | SITADI | Action delay interval |
| (50C) | FULLWORD | 4 | SITJDI | JES delay interval |
| (510) | CHARACTER | 4 | SITRMTRN | Recovery transaction |
| XRF - DEFINITIONS FOR BOTH AND XRF=NO | | | | |
| (514) | FULLWORD | 4 | SITACOND | Autoconnect delay |
| RESERVED FOR RESTRUCTURE | | | | |
| (518) | BIT(8) | 1 | SITPMERR | Initialization parameter errors |
| (518) | 1... | | SITPMACT | op |
| (518) | .1.. | | SITPMIGN | |
| (518) | ..1. | | SITPMABN | |
| (518) | ...1 | | * | Reserved |
| (518) | 1... | | * | Reserved |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------|-------------------------------|
| (518) |1.. | | * | Reserved |
| (518) |1. | | * | Reserved |
| (518) |1 | | * | Reserved |
| (519) | BIT(8) | 1 | SITNEW | NEWSIT= override? |
| (519) | 1... | | SITNEWY | |
| (519) | .1.. | | * | Reserved |
| (519) | ..1. | | * | Reserved |
| (519) | ...1 | | * | Reserved |
| (519) | 1... | | * | Reserved |
| (519) |1.. | | * | Reserved |
| (519) |1. | | * | Reserved |
| (519) |1 | | * | Reserved |
| (51A) | BIT(8) | 1 | SITXSIGN | XRF sign-on byte |
| (51A) | 1... | | SITXSFR | Force sign-on requested |
| (51A) | .1.. | | * | Reserved |
| (51A) | ..1. | | * | Reserved |
| (51A) | ...1 | | * | Reserved |
| (51A) | 1... | | * | Reserved |
| (51A) |1.. | | * | Reserved |
| (51A) |1. | | * | Reserved |
| (51A) |1 | | * | Reserved |
| (51B) | BIT(8) | 1 | SITMISC | Miscellaneous bits |
| (51B) | 1... | | SITRAPLF | RAPOOL FORCE specified |
| (51B) | .1.. | | SITICMNR | AUTORESETTIME=YES |
| (51B) | ..1. | | SITICARI | AUTORESETTIME=IMMEDIATE |
| (51C) | FULLWORD | 4 | SITXSFI | PS/XRF signon timeout |
| (520) | FULLWORD | 4 | * | Reserved |
| (524) | CHARACTER | 8 | SITAXI | AXI table |
| (524) | CHARACTER | 6 | * | - prefix (DFHAXI or blanks) |
| (52A) | CHARACTER | 2 | SITAXISF | - suffix |
| (52C) | CHARACTER | 8 | SITDRPGN | Dynamic Routing Program |
| (534) | HALFWORD | 2 | SITHRAPL | HPO rapool value |
| (536) | HALFWORD | 2 | * | Reserved |
| (538) | CHARACTER | 4 | SITRTRN2 | XRF signed-on transaction |
| (53C) | CHARACTER | 4 | SITDRTRN | Dynamic Routing Transaction * |
| SIT OVERRIDE EXISTENCE BITS - one per SIT field | | | | |
| (540) | CHARACTER | 32 | SIT_EXISTENCE_BITS | |
| (540) | BIT(8) | 1 | * | |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|----------------------------|
| (540) | 1... | | SITOPSYS_X | Operating system level |
| (540) | .1.. | | SITOPREL_X | Operating system release |
| (540) | ..1. | | SITCICS_X | CICS system |
| (540) | ...1 | | SITCIREL_X | CICS release |
| (540) | 1... | | SITLEN_X | SIT length |
| (540) |1.. | | SITCWA_X | WRKAREA= existence bit |
| (540) |1. | | DFHDDL_X | Address of DL/I link list |
| (540) |1 | | DFHAPT_X | Reserved |
| (541) | BIT(8) | 1 | * | |
| (541) | 1... | | SITCOMA_X | Communications area addr |
| (541) | .1.. | | SITOV RPM_X | Addr of override parameter |
| (541) | ..1. | | * | Reserved |
| (541) | ...1 | | SITSRPAE_X | Reserved |
| (541) | 1... | | SITPRVMA_X | PRVMOD= existence bit |
| (541) |1.. | | SITICVAL_X | ICV= existence bit |
| (541) |1. | | SITRICVL_X | ICVR= existence bit |
| (541) |1 | | SITDFINT_X | Reserved for LGDFINT= bit |
| (542) | BIT(8) | 1 | * | |
| (542) | 1... | | SITTSDTI_X | ICVTSD= existence bit |
| (542) | .1.. | | SITFTIMO_X | FTIMEOUT= existence bit |
| (542) | ..1. | | SITQTIMO_X | QUIESTIM= existence bit |
| (542) | ...1 | | SITSYDUMAX_X | SYDUMAX= existence bit |
| (542) | 1... | | SITTRDUMAX_X | TRDUMAX= existence bit |
| (542) |1.. | | SITRTSZ_X | TRTABSZ= existence bit |
| (542) |1. | | * | Reserved |
| (542) |1 | | SITAKPFR_X | AKPFREQ= existence bit |
| (543) | BIT(8) | 1 | * | |
| (543) | 1... | | SITDBLBL_X | DBP= existence bit |
| (543) | .1.. | | SITSRCVY_X | STGRCVY= existence bit |
| (543) | ..1. | | * | Reserved |
| (543) | ...1 | | SITPSDI_X | PSDI= existence bit |
| (543) | 1... | | * | Reserved |
| (543) |1.. | | SITTSTG_X | |
| (543) |1. | | SITSVSNO_X | SVC= existence bit |
| (543) |1 | | SITSISNO_X | SRBSVC= existence bit |
| (544) | BIT(8) | 1 | * | |
| (544) | 1... | | SITFLDSP_X | FLDSEP= existence bit |
| (544) | .1.. | | SITSTR_X | SYSTR= existence bit |
| (544) | ..1. | | SITUTR_X | USERTR= existence bit |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|--------------------------|
| (544) | ...1 | | SITITR_X | INTTR= existence bit |
| (544) | 1... | | SITGTR_X | GTFTTR= existence bit |
| (544) |1.. | | SITATR_X | AUXTR= existence bit |
| (544) |1. | | SITASW_X | AUXTRSW= existence bit |
| (544) |1 | | * | Reserved |
| (545) | BIT(8) | 1 | * | DUMP existence bits |
| (545) | 1... | | SITSDUMP_X | DUMP= existence bit |
| (545) | .1.. | | SITDMPDS_X | DUMPDS= existence bit |
| (545) | ..1. | | SITDMPRT_X | DURETRY= existence bit |
| (545) | ...1 | | SITDMPSW_X | DUMPSW= existence bit |
| (545) | 1... | | SITMSGCS_X | MSGCASE= existence bit |
| (545) |1.. | | SITGRNME_X | GRNAME= existence bit |
| (545) |1. | | SITDAE_X | DAE= existence bit |
| (545) |1 | | * | Reserved |
| (546) | BIT(8) | 1 | * | |
| (546) | 1... | | SITPRINT_X | PRINT= existence bit |
| (546) | .1.. | | SITMSGLV_X | MSGLVL= existence bit |
| (546) | ..1. | | SITPL1_X | |
| (546) | ...1 | | SITRUWPL_X | RUWAPOOL existence |
| (546) | 1... | | SITDTYMD_X | DATFORM=YYMMDD existence |
| (546) |1.. | | SITDTDYMY_X | DATFORM=DDMMYY existence |
| (546) |1. | | SITDTMDY_X | DATFORM=MMDDYY existence |
| (546) |1 | | SITVSPLI_X | |
| (547) | BIT(8) | 1 | * | |
| (547) | 1... | | SITIRCS_X | IRC= existence bit |
| (547) | .1.. | | SITHPO_X | HPO= existence bit |
| (547) | ..1. | | SITLPA_X | LPA= existence bit |
| (547) | ...1 | | * | Reserved |
| (547) | 1... | | SITEODI_X | EODI= existence bit |
| (547) |1.. | | SITTCAMO_X | TCAM= existence bit |
| (547) |1. | | * | Reserved |
| (547) |1 | | SITTRAPO_X | TRAP= existence bit |
| (548) | BIT(8) | 1 | * | |
| (548) | 1... | | SITMONY_X | MN= existence bit |
| (548) | .1.. | | SITMONPR_X | MNPER= existence bit |
| (548) | ..1. | | SITMONEX_X | MNEXC= existence bit |
| (548) | ...1 | | SITMONRS_X | MNRES= existence bit |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (548) | 1... | | SITMONID_X | MNIDN= existence bit |
| (548) |1.. | | SITPGCPY_X | PGCOPY= existence bit |
| (548) |1. | | SITPGPRG_X | PGPURGE= existence bit |
| (548) |1 | | SITPGRET_X | PGRET= existence bit |
| (549) | BIT(8) | 1 | * | |
| (549) | 1... | | SITFCOMP_X | |
| (549) | .1.. | | SITPRGD_X | PRGDLAY= existence bit |
| (549) | ..1. | | SITALGN_X | ALIGN= existence bit |
| (549) | ...1 | | SITNDDS_X | NODDS= existence bit |
| (549) | 1... | | SITMCTSF_X | MCT= existence bit |
| (54A) | BIT(8) | 1 | * | |
| (54A) | 1... | | SITCDSA_X | CDSASZE existence bit |
| (54A) | .1.. | | SITUDSA_X | UDSASZE existence bit |
| (54A) | ..1. | | SITSDSA_X | SDSASZE existence bit |
| (54A) | ...1 | | SITRDSA_X | RDSASZE existence bit |
| (54A) | 1... | | SITECDSA_X | ECDSASZE existence bit |
| (54A) |1.. | | SITEUDSA_X | EUDSASZE existence bit |
| (54A) |1. | | SITESDSA_X | ESDSASZE existence bit |
| (54A) |1 | | SITERDSA_X | ERDSASZE existence bit |
| (54B) | CHARACTER | 1 | * | Reserved * |
| (54C) | FULLWORD | 4 | * | Reserved |
| (550) | BIT(8) | 1 | * | |
| (550) | 1... | | * | Reserved |
| (550) | .1.. | | SITSTRTA_X | |
| (550) | ..1. | | * | Reserved |
| (550) | ...1 | | SITSTART_X | START= existence bit |
| (550) | 1... | | SITIND_X | |
| (550) |1.. | | SITTCTOP_X | TCT startup option |
| (550) |1. | | SITDCTOP_X | DCT startup option |
| (550) |1 | | * | Reserved |
| (551) | BIT(8) | 1 | * | |
| (551) | 1... | | SITPPTOP_X | PPT startup option |
| (551) | .1.. | | SITPCTOP_X | PCT startup option |
| (551) | ..1. | | SITCSAOP_X | CSA startup option |
| (551) | ...1 | | SITICPOP_X | ICP startup option |
| (551) | 1... | | SITTSPOP_X | TSP startup option |
| (551) |1.. | | * | Reserved |
| (551) |1. | | SITBMSOP_X | BMS startup option |
| (551) |1 | | * | Reserved |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|------------------------------|
| (552) | BIT(8) | 1 | * | |
| (552) | 1... | | SITMXSTS_X | MAXSSLTCBS override coded |
| (552) | .1.. | | * | Reserved |
| (552) | ..1. | | * | Reserved |
| (552) | ...1 | | * | Reserved |
| (552) | 1... | | * | Reserved |
| (552) |1.. | | SITPMULT_X | PYTRAGE= existence bit |
| (552) |1. | | SITSBTSK_X | SUBTSKS= existence bit |
| (552) |1 | | SITGMMNM_X | GMTRAN= existence bit |
| (553) | BIT(8) | 1 | * | |
| (553) | 1... | | * | Reserved (wbhttp not needed) |
| (553) | .1.. | | SITMXTSK_X | MXT= existence bits |
| (553) | ..1. | | SITWB TIP_X | WEBDELAY(1) existence bit |
| (553) | ...1 | | SITWBGCI_X | WEBDELAY(2) existence bit |
| (553) | 1... | | SITFEAT1_X | Miscellaneous feature 1 |
| (553) |1.. | | SITFEAT2_X | Miscellaneous feature 2 |
| (553) |1. | | SITFEAT3_X | Miscellaneous feature 3 |
| (553) |1 | | SITFEAT4_X | Miscellaneous feature 4 |
| (554) | BIT(8) | 1 | * | |
| (554) | 1... | | SITFEAT5_X | Miscellaneous feature 5 |
| (554) | .1.. | | SITFEAT6_X | Miscellaneous feature 6 |
| (554) | ..1. | | SITFEAT7_X | Miscellaneous feature 7 |
| (554) | ...1 | | SITFEAT8_X | Miscellaneous feature 8 |
| (554) | 1... | | SITGMTAD_X | CSECT address |
| (554) |1.. | | SITSYSID_X | SYSIDNT= existence bit |
| (554) |1. | | SITRAPL_X | RAPOOL= existence bit |
| (554) |1 | | SITHRAPL_X | HPO RAPOOL= existence bit |
| (555) | BIT(8) | 1 | * | |
| (555) | 1... | | SITOPNDL_X | OPNDLIM= existence bit |
| (555) | .1.. | | SITVTAM_X | VTAM= existence bit |
| (555) | ..1. | | SITLGNMS_X | LGNMSG= existence bit |
| (555) | ...1 | | SITSKRTB_X | SKRxxxx= existence bit |
| (555) | 1... | | SITTD BNO_X | TD= existence bit 1st |
| (555) |1.. | | SITTD SNO_X | TD= existence bit 2nd |
| (555) |1. | | SITTSBNO_X | TS= existence bit buffers |
| (555) |1 | | SITTS SNO_X | TS= existence bit start |
| (556) | BIT(8) | 1 | * | |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (556) | 1... | | SITVMXWE_X | AIQMAX= existence bit |
| (556) | .1.. | | SITVAXIT_X | AIEXIT= existence bit |
| (556) | ..1. | | SITRAPLF_X | RAPOOL FORCE existence |
| (556) | ...1 | | * | Reserved |
| (556) | 1... | | * | Reserved |
| (556) |1.. | | SITUOWNQ_X | UOWNETQL existence bit |
| (556) |1. | | SITXRFFN_X | XRF= existence bit |
| (556) |1 | | SITXRSNS_X | |
| (557) | BIT(8) | 1 | * | |
| (557) | 1... | | SITGAPLD_X | APPLID= existence 1st |
| (557) | .1.. | | SITSAPLD_X | APPLID= existence 2nd |
| (557) | ..1. | | SITPDI_X | PDI= existence bit |
| (557) | ...1 | | SITTAKE_X | TAKEOVR= existence bit |
| (557) | 1... | | SITCLT_X | CLT= existence bit |
| (557) |1.. | | SITCLTSF_X | CLT= existence bit |
| (557) |1. | | SITADI_X | ADI= existence bit |
| (557) |1 | | SITJDI_X | JESDI= existence bit |
| (558) | BIT(8) | 1 | * | |
| (558) | 1... | | SITRMTRN_X | RMTRAN= existence bit |
| (558) | .1.. | | SITPMERR_X | PARMERR= existence bit |
| (558) | ..1. | | SITNEW_X | NEWSIT= existence bit |
| (558) | ...1 | | SITDSRPM_X | DSRTPGM= existence bit |
| (558) | 1... | | SITTRNTY_X | TRTRAN TY = existence bit |
| (558) |1.. | | SITTRNSZ_X | TRTRANSZ = existence bit |
| (558) |1. | | SITAXI_X | RST= existence bit |
| (558) |1 | | SITLANGS_X | NATLANG= existence bit |
| (559) | BIT(8) | 1 | * | |
| (559) | 1... | | SITGRST_X | STNTR= existence bit standard |
| (559) | .1.. | | SITGRSP_X | STNTR= existence bit special |
| (559) | ..1. | | SITMROB_X | MRO BATCHING PARAMETER |
| (559) | ...1 | | SITTCUA_X | TCTUALOC existence bit |
| (559) | 1... | | SITINIT_X | INITPARM existence bit |
| (559) |1.. | | SITDISM_X | DISMACP existence bit |
| (559) |1. | | SITSTRCD_X | STATRCD existence bit |
| (559) |1 | | SITUDTIM_X | UDTIM existence bit |
| (55A) | BIT(8) | 1 | * | |
| (55A) | 1... | | SITLUIT_X | LUITTIME existence bit |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|----------------------------|
| (55A) | .1.. | | SITDSA_X | DSALIM existence bit |
| (55A) | ..1. | | SITEDSA_X | EDSALIM existence bit |
| (55A) | ...1 | | SITLLACP_X | LLACOPY existence bit |
| (55A) | 1... | | SITSLD_X | SLD existence flag |
| (55A) |1.. | | SITGRPL2_X | GRPLIST = existence bit 2 |
| (55A) |1. | | SITGRPL3_X | GRPLIST = existence bit 3 |
| (55A) |1 | | SITGRPL4_X | GRPLIST = existence bit 4 |
| (55B) | BIT(8) | 1 | * | |
| (55B) | 1... | | SITREMDL_X | Remote delete idle |
| (55B) | .1.. | | SITREMDI_X | Remote delete interval |
| (55B) | ..1. | | SITCMDPRO_X | CMDPROT existence |
| (55B) | ...1 | | SITTCUAKY_X | TCTUAKY existence |
| (55B) | 1... | | SITCWAKY_X | CWAKY existence |
| (55B) |1.. | | SITSTPRO_X | STORPROT existence |
| (55B) |1. | | SITRNTPGM_X | RENTPGM existence |
| (55B) |1 | | SITTRNISO_X | TRANISO existence |
| (55C) | BIT(8) | 1 | * | |
| (55C) | 1... | | SITMONCO_X | Converse monitoring exist |
| (55C) | .1.. | | SITMONSY_X | Syncpoint monitoring exist |
| (55C) | ..1. | | SITMONTM_X | MNTIME exists |
| (55C) | ...1 | | SITMONFR_X | Frequency monitoring exist |
| (55C) | 1... | | * | Was MNSUBSYS (Obsolete) |
| (55C) |1.. | | SITAPGM_X | PG autoinstall state |
| (55C) |1. | | SITACTG_X | PG autoinstall catalog |
| (55C) |1 | | SITAPXT_X | PG autoinstall exit |
| (55D) | BIT(8) | 1 | * | |
| (55D) | 1... | | SITFRCQR_X | FORCEQR override coded |
| (55D) | .1.. | | SITMXOTS_X | MAXOPENTCBS override |
| (55D) | ..1. | | * | Reserved |
| (55D) | ...1 | | SITMXXTS_X | MAXXPTCBS override |
| (55D) | 1... | | SITMXSOC_X | MAXSOCKETS override coded |
| (55D) |1.. | | SITSTEOD_X | STATEOD override coded |
| (55D) |1. | | SITSTINT_X | STATINT override coded |
| (55D) |1 | | SITAUTST_X | AUTODST override coded |
| (55E) | BIT(8) | 1 | * | |
| (55E) | 1... | | * | Reserved, JVMLEVEL0TRAC |
| (55E) | .1.. | | * | Reserved, JVMLEVEL1TRAC |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|------|---------------------------------|------------------------------|
| (55E) | ..1. | | * | Reserved, JVMLEVEL2TRAC |
| (55E) | ...1 | | * | Reserved, JVMUSERTRACE |
| (55E) | 1... | | * | Reserved |
| (55E) |1.. | | * | Reserved, JVMCCSIZE |
| (55E) |1. | | * | Reserved, JVMCCSTART |
| (55E) |1 | | SITICMNR_X | AUTORESETTIME override coded |
| (55F) | BIT(8) | 1 | * | |
| (55F) | 1... | | SITDEBU0_X | DEBUGTOOL override coded |
| (55F) | .1.. | | SITINFO_X | INFOCENTER override coded |
| (55F) | ..1. | | SITTSMLM_X | TSMMAINLIMIT value coded |
| (55F) | ...1 | | SITNIST_X | NISTSP800131A coded |
| (55F) | 1111 | | * | Reserved |
| The following table defines 64 Trace Selectivity Bits for standard trace. There is one bit for each domain. | | | | |
| (560) | BIT(64) | 8 | SITTRXST | Standard Trace Existence |
| The following table defines 64 Trace Selectivity Bits for special trace. There is one bit for each domain. | | | | |
| (568) | BIT(64) | 8 | SITTRXSP | Special Trace Existence |
| TRACE SELECTIVITY TABLE | | | | |
| (570) | CHARACTER | 1024 | SITTRSTB | Beginning of table |
| (570) | BIT(64) | 8 | SITTRSTN (4294967360:342059600) | Standard trace flags |
| (770) | BIT(64) | 8 | SITTRSPC (4294967360:341919504) | Special trace flags |
| NATIONAL LANGUAGES LIST | | | | |
| (970) | CHARACTER | 36 | SITLANGS | National Languages list |
| CSD PARAMETERS | | | | |
| (994) | CHARACTER | 44 | SITCSDSN | CSDDSN ie 44 char DSNAME |
| (9C0) | FULLWORD | 4 | SITCSDST | CSDSTRNO |
| (9C4) | FULLWORD | 4 | SITCSDBI | CSDBUFNI |
| (9C8) | FULLWORD | 4 | SITCSDBD | CSDBUFND |
| (9CC) | HALFWORD | 2 | SITCSDLS | CSDLRNO |
| (9CE) | HALFWORD | 2 | SITCSDJI | CSDJID |
| (9D0) | HALFWORD | 2 | SITCSDFR | CSDFRLOG |
| (9D2) | BIT(8) | 1 | SITCSDRC | CSDRECOV |
| (9D3) | BIT(8) | 1 | SITCSIMG | CSDIMAGE |
| (9D4) | BIT(8) | 1 | SITCSDAC | CSDACC |
| (9D5) | BIT(8) | 1 | SITCSDIS | CSDDISP |
| (9D6) | BIT(8) | 1 | * | RLS flags |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------|-----------|-----|------------|---------------------------|
| (9D6) | 1... | | SITCSRLS | CSD uses RLS |
| (9D6) | .1.. | | SITCSNRI | Integrity=uncommitted |
| (9D6) | ..1. | | SITCSCR | Integrity=consistent |
| (9D6) | ...1 | | SITCSRR | Integrity=repeatable |
| (9D6) | 1111 | | * | Reserved |
| (9D7) | BIT(8) | 1 | SITFCFLG | FC Flags |
| (9D7) | 1... | | SITRLS | RLS enabled for this CICS |
| (9D7) | .1.. | | SITRTOL | RLS files in pool build |
| (9D7) | ..1. | | SITFCNRR | NonRLS ignore LOG |
| (9D7) | ...1 1... | | * | Reserved |
| (9D7) |1.. | | SITFCTH | FC Threadsafte Enabled |
| (9D7) |1. | | * | Reserved |
| (9D7) |1 | | SITCILK | CI lock set for this CICS |
| AIDELAY KEYWORD | | | | |
| (9D8) | CHARACTER | 4 | SITDDLY | AIDELAY DELETE DELAY TIME |
| CLSDSTP KEYWORD | | | | |
| (9DC) | CHARACTER | 1 | SITCLSP | CLSDST NOTIFY/NONOTIFY |
| LLACOPY KEYWORD | | | | |
| (9DD) | BIT(8) | 1 | SITLLACP | LLACOPY OPTION |
| (9DD) | 1... | | SITLLAY | LLACOPY=YES |
| (9DD) | .1.. | | SITLLAN | LLACOPY=NO |
| (9DD) | ..1. | | SITLLANC | LLACOPY=NEWCOPY |
| PGAIPGM KEYWORD | | | | |
| (9DE) | CHARACTER | 1 | SITAPGM | PG autoinstall state |
| PGAICTLG KEYWORD | | | | |
| (9DF) | CHARACTER | 1 | SITACTG | PG autoinstall catalog |
| PGAEXIT KEYWORD | | | | |
| (9E0) | CHARACTER | 8 | SITAPXT | PG autoinstall exit |
| Extended GRPLIST parameter | | | | |
| (9E8) | CHARACTER | 8 | SITGRPL2 | SPI grouplist 2 |
| (9F0) | CHARACTER | 8 | SITGRPL3 | SPI grouplist 3 |
| (9F8) | CHARACTER | 8 | SITGRPL4 | SPI grouplist 4 |
| Terminal idle keyword | | | | |
| (A00) | UNSIGNED | 4 | SITREMDL | Remote delete idle |
| Interval keyword | | | | |
| (A04) | CHARACTER | 4 | SITREMDI | Remote delete interval |
| RLS Section of SIT | | | | |
| (A08) | UNSIGNED | 2 | SITFTIMO | RLS timeout |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------|------------------------------|
| (A0A) | UNSIGNED | 2 | SITQTIMO | RLS quiesce timeout |
| Distributed routing program | | | | |
| (A0C) | CHARACTER | 8 | SITDSPGN | Distributed routing program |
| SECURE SOCKETS LAYER parameters | | | | |
| (A14) | UNSIGNED | 4 | SITSSLTI | SSL V3 timeout value |
| (A18) | UNSIGNED | 1 | SITSSCCH | SSLCACHE 1=CICS 2=Sysplex |
| (A19) | UNSIGNED | 3 | * | Reserved |
| (A1C) | HALFWORD | 2 | SITSSCRP | CRL server port number |
| (A1E) | HALFWORD | 2 | SITSSCRN | Length of CRL server |
| (A20) | CHARACTER | 256 | SITSSCRL | Name of CRL LDAP server |
| (B20) | CHARACTER | 48 | SITSSKYF | SSL Keyring |
| (B50) | HALFWORD | 2 | SITMXSSL | Max S8 TCBs (MAXSSLTCBS) |
| (B52) | HALFWORD | 2 | * | reserved |
| MAXSOCKET parameter | | | | |
| (B54) | UNSIGNED | 4 | SITMAXSOCKS | MAXSOCKETS |
| (B58) | FULLWORD | 4 | * | Alignment |
| (B5C) | UNSIGNED | 4 | SITBRMAXKEEPTIME | BRMAXKEEPTIME |
| (B60) | CHARACTER | 1 | SITAIBRIDGE | AIBRIDGE Yes/ Auto |
| (B61) | CHARACTER | 3 | * | Reserved |
| (B64) | CHARACTER | 4 | SITSTEOD | ST End-of-Day (0HHMMSSC) |
| (B68) | CHARACTER | 4 | SITSTINT | ST Interval (0HHMMSSC) |
| (B6C) | CHARACTER | 8 | * | Reserved |
| DISPATCHER Parameters | | | | |
| (B74) | HALFWORD | 2 | * | Reserved |
| (B76) | HALFWORD | 2 | SITMXXTS | Max XPLink TCBs limit |
| (B78) | CHARACTER | 8 | * | Reserved |
| JVM Trace Option Strings | | | | |
| (B80) | ADDRESS | 4 | * | Reserved |
| JVMPROFILEDIR - Directory in HFS for JVM profiles | | | | |
| (B84) | CHARACTER | 244 | SITJVMPD | JVMPROFILEDIR |
| JVM classcache | | | | |
| (C78) | CHARACTER | 8 | * | Reserved |
| (C80) | CHARACTER | 8 | * | Reserved |
| (C88) | CHARACTER | 1 | * | Reserved |
| (C89) | CHARACTER | 3 | * | Reserved for alignment |
| DEBUGTOOL and INFOCENTER keywords | | | | |
| (C8C) | BIT(8) | 1 | SITDBTL | DEBUGTOOL setting |
| (C8C) | 1... | | SITDBTLY | Debug Tool is required |

Table 498. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------|-----------|-----|--------------------|--------------------------------|
| (C8C) | .1.. | | SITINFOY | Infocentre URL specified |
| (C8C) | ..11 1111 | | * | Reserved |
| (C8D) | BIT(24) | 3 | * | Reserved |
| (C90) | CHARACTER | 256 | SITINFOC | URL for infocentre |
| System defaults for DFHCNV | | | | |
| (D90) | FULLWORD | 4 | SITCLICP | Default CLINTCP index |
| (D94) | FULLWORD | 4 | SITSRVCP | Default SRVERCP index |
| LOCAL CCSID Parameter | | | | |
| (D98) | FULLWORD | 4 | SITCCSID | Region wide default CCSID |
| XCF Group Name | | | | |
| (D9C) | CHARACTER | 8 | SITXCFGP | XCF Group Name |
| USSCONFIG directory | | | | |
| (DA4) | ADDRESS | 4 | SITUSS_CONFIG_ADDR | Address of USSCONFIG extension |
| USSHOME directory name | | | | |
| (DA8) | UNSIGNED | 1 | SITCHOML | Length of USSHOME |
| (DA9) | CHARACTER | 255 | SITCHOME | USSHOME directory |
| NISTSP800131A keyword | | | | |
| (EA8) | BIT(8) | 1 | SITNIST800 | |
| (EA8) | 1... | | SITNIST800131A | NIST800-131A |
| (EA8) | .111 1111 | | * | Reserved |
| (EA9) | CHARACTER | 7 | * | Reserved - alignment |
| (EB0) | CHARACTER | 0 | DFHSITEA | End of table label |

TRACE SELECTIVITY TABLE REDEFINED

Table 499.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|------|---------------------------------|---|
| (570) | STRUCTURE | 1024 | SITTRSTA | Redefine the table |
| (570) | BIT(64) | 8 | SITTRST1 (4294967311:342097848) | Standard trace flags for first 15 domains |
| (5E8) | BIT(64) | 8 | SITAPSTN | AP Standard trace flags |
| (5F0) | BIT(64) | 8 | SITRMSTN | RM Standard trace flags |
| (5F8) | BIT(64) | 8 | SITA2STN | A2 Standard trace flags |
| (600) | BIT(64) | 8 | SITTRST2 (4294967342:342097848) | Standard trace flags for next 46 domains |
| (770) | BIT(64) | 8 | SITTRSP1 (4294967311:342097848) | Special trace flags for first 15 domains |
| (7E8) | BIT(64) | 8 | SITAPSPC | AP Special trace flags |
| (7F0) | BIT(64) | 8 | SITRMSPC | RM Special trace flags |
| (7F8) | BIT(64) | 8 | SITA2SPC | AP Special trace flags |
| (800) | BIT(64) | 8 | SITTRSP2 (4294967342:342101328) | Special trace flags for next 46 domains |

DL/I EXTENSION OF SIT

Table 500.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 4 | DFHLISTA | |
| (0) | BIT(8) | 1 | DLIFLG | Flag value |
| (0) | 1... .. | | * | Reserved |
| (0) | .1.. | | * | Reserved |
| (0) | ..1. | | * | Reserved |
| (0) | ...1 | | * | Reserved |
| (0) | 1... | | * | Reserved |
| (0) |1.. | | * | Reserved |
| (0) |1. | | DLIPSBCK | PSB checking required |
| (0) |1 | | * | Reserved |
| (1) | BIT(8) | 1 | * | Reserved |
| (2) | CHARACTER | 2 | DLPDIRSF | PDIR suffix |

GOOD MORNING MESSAGE

Table 501.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------|
| (0) | STRUCTURE | 248 | DFHGMMS | |
| (0) | HALFWORD | 2 | SITGMTXL | Message length |
| (2) | CHARACTER | 246 | SITGMTXT | |
| (2) | CHARACTER | 13 | * | Message number |
| (F) | CHARACTER | 19 | * | Default message |
| (22) | CHARACTER | 5 | * | Trailer |
| (27) | CHARACTER | 209 | * | Filler |
| (F8) | CHARACTER | 0 | SITGMTXE | Message end |

USSCONFIG extension @D87597C

Table 502.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------|
| (0) | STRUCTURE | 256 | DFHCONFD | |
| (0) | UNSIGNED | 1 | SITCONFDL | Length of USSCONFIG |
| (1) | CHARACTER | 255 | SITCONFD | USSCONFIG directory |

INITPARM chain structure

Table 503.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | * | SITINIT | |
| (0) | ADDRESS | 4 | INITCPTR | PTR to next entry on chain |
| (4) | CHARACTER | 8 | INITPGMID | The INIT program ID name |

Table 503. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (C) | UNSIGNED | 1 | INITPSLEN | The INIT Parm String length |
| (D) | CHARACTER | * | INITPSTRG | The INIT Parm String |

PRVMOD list

Table 504.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-----------------------|
| (0) | STRUCTURE | * | DFHPRVMOD | |
| (0) | FULLWORD | 4 | SITPRVML | List length |
| (4) | FULLWORD | 4 | SITPRVMN | Number of modules |
| (8) | CHARACTER | * | SITPRVMNAME | Module names are here |

Start-up indicators in SITICPOP, SITSPOP and SITBMSOP

Table 505.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------|
| (0) | STRUCTURE | 1 | SITSTOPT | |
| (0) | 1... | | WARMST | Warm start |
| (0) | .1.. | | COLDST | Cold start |
| (0) | ..1. | | * | |
| (0) | ...1 | | COLDEX | Cold execution |
| (0) | 1... | | * | |
| (0) |1.. | | EMEREX | Emergency start |
| (0) |11 | | * | |

Constants

Table 506.

| Len | Type | Value | Name | Description |
|---|-----------|-------|----------|---------------------|
| Constants TCUALOC (TCITE User Area Location) constants. SITTCUA | | | | |
| 1 | CHARACTER | B | SITTCUAB | Below |
| 1 | CHARACTER | A | SITTCUAA | Any |
| Operating System Constants. SITOPSYS | | | | |
| 1 | CHARACTER | X | SITMVX | MVS/XA |
| Release Level Constants. SITOPREL The list of constants below is not exhaustive. Other possible values for OPREL are similarly constructed from the official product name of the control program. | | | | |
| 1 | HEX | 11 | SITE11 | DOS/VSE release 1.1 |
| 1 | HEX | 12 | SITE12 | DOS/VSE release 1.2 |
| 1 | HEX | 13 | SITE13 | DOS/VSE release 1.3 |
| 1 | HEX | 37 | SITM37 | OS/MVS release 3.7 |

Table 506. (continued)

| Len | Type | Value | Name | Description |
|---|-----------|-------|----------|-----------------------|
| 1 | HEX | 38 | SITM38 | OS/MVS release 3.8 |
| 1 | HEX | 17 | SITX17 | MVS/XA release 2.1.7 |
| 1 | HEX | 20 | SITX20 | MVS/XA release 2.2.0 |
| 1 | HEX | 21 | SITX21 | MVS/XA release 2.2.1 |
| 1 | HEX | 10 | SITE10 | MVS/ESA release 3.1.0 |
| 1 | HEX | 22 | SITE22 | MVS/ESA release 4.2.2 |
| CICS System Constants. SITCICS | | | | |
| 1 | CHARACTER | E | SITELS | Reserved |
| 1 | CHARACTER | F | SITFULL | Full CICS |
| CICS Release Constants. SITCIREL | | | | |
| 1 | HEX | 14 | SITC14 | Vers.1, release 4 |
| 1 | HEX | 15 | SITC15 | Vers.1, release 5 |
| 1 | HEX | 16 | SITC16 | Vers.1, release 6 |
| 1 | HEX | 17 | SITC17 | Vers.1, release 7 |
| 1 | HEX | 21 | SITC21 | Vers.2, release 1 |
| 1 | HEX | 31 | SITC31 | Vers.3, release 1 |
| 1 | HEX | 32 | SITC32 | Vers.3, release 2 |
| 1 | HEX | 33 | SITC33 | Vers.3, release 3 |
| 1 | HEX | 41 | SITC41 | Vers.4, release 1 |
| 1 | HEX | 51 | SITC51 | Vers.5, release 1 |
| 1 | HEX | 52 | SITC52 | Vers.5, release 2 |
| 1 | HEX | 53 | SITC53 | Vers.5, release 3 |
| 1 | HEX | 61 | SITC61 | Vers.6, release 1 |
| 1 | HEX | 62 | SITC62 | Vers.6, release 2 |
| 1 | HEX | 63 | SITC63 | Vers.6, release 3 |
| 1 | HEX | 64 | SITC64 | Vers.6, release 4 |
| 1 | HEX | 65 | SITC65 | Vers.6, release 5 |
| 1 | HEX | 66 | SITC66 | Vers.6, release 6 |
| 1 | HEX | 67 | SITC67 | Vers.6, release 7 |
| 1 | HEX | 68 | SITC68 | Vers.6, release 8 |
| 1 | HEX | 69 | SITC69 | Vers.6, release 9 |
| CICS Modification Level constants. SITCIMOD | | | | |
| 1 | HEX | 00 | SITMOD00 | Mod level 0 |
| 1 | HEX | 01 | SITMOD01 | Mod level 1 |
| 1 | HEX | 02 | SITMOD02 | Mod level 2 |
| 1 | HEX | 03 | SITMOD03 | Mod level 3 |
| Spooler Control Constants. SITPSOPT | | | | |
| 1 | HEX | 80 | YSPPOOL | Spooling = yes |
| 1 | HEX | 00 | NSPOOL | Spooling = no |
| XRF Function and Sign on state Constants. SITXRFFN and SITXRSNS | | | | |

Table 506. (continued)

| Len | Type | Value | Name | Description |
|---|-----------|-------|----------|-------------------------|
| 1 | CHARACTER | Y | SITXRFY | XRF Function enabled |
| 1 | CHARACTER | N | SITXRFN | XRF Function Disabled |
| 1 | CHARACTER | N | SITXRNO | Not signed on |
| 1 | CHARACTER | A | SITXRACT | Signed on as active |
| 1 | CHARACTER | B | SITXRALT | Signed on as alternate |
| XRF Takeover Constants. SITTAKE | | | | |
| 1 | CHARACTER | A | SITTAKEA | Auto takeover |
| 1 | CHARACTER | C | SITTAKEC | Command takeover |
| 1 | CHARACTER | M | SITTAKEM | Manual takeover |
| CSD Constants for SITCSDRC, SITCSDAC and SITCSDIS | | | | |
| 1 | HEX | 80 | SITCSRCA | All |
| 1 | HEX | 40 | SITCSRCN | None |
| 1 | HEX | 20 | SITCSRCB | Backout only |
| 1 | HEX | 00 | SITCSSHA | Static |
| 1 | HEX | 80 | SITCSFUZ | Dynamic |
| 1 | HEX | 80 | SITCSDRO | Read only |
| 1 | HEX | 40 | SITCSDRW | Read Write |
| 1 | HEX | 80 | SITCSDSH | Shr |
| 1 | HEX | 40 | SITCSDOL | Old |
| Front-End Programming Interface Constants for SITFEPOP | | | | |
| 1 | CHARACTER | Y | SITFEPIN | FEPI required |
| 1 | CHARACTER | N | SITFEPOU | FEPI absent |
| Constants for SITSINIT (START=INITIAL). SITSINIT qualifies a SITSTART='I' denoting whether its a cold start or an initial start. | | | | |
| 1 | CHARACTER | Y | SITSINIY | Start=initial |
| 1 | CHARACTER | N | SITSININ | Not start=initial |
| DBCTL connect required constants for SITDBCOP | | | | |
| 1 | CHARACTER | Y | SITDBCTY | required |
| 1 | CHARACTER | N | SITDBCTN | not required |
| DB2 connect required constants for SITDB2OP | | | | |
| 1 | CHARACTER | Y | SITDB2Y | required |
| 1 | CHARACTER | N | SITDB2N | not required |
| MQ connect required constants for SITMQOP | | | | |
| 1 | CHARACTER | Y | SITMQY | required |
| 1 | CHARACTER | N | SITMQN | not required |
| SECURITY CONSTANTS FOR SITSCOPE | | | | |
| 1 | DECIMAL | 1 | SITSNS_N | SIGNON SCOPE=NONE |
| 1 | DECIMAL | 2 | SITSNS_C | SIGNON SCOPE=CICS |
| 1 | DECIMAL | 3 | SITSNS_M | SIGNON SCOPE=MVSIMAGE * |

Table 506. (continued)

| Len | Type | Value | Name | Description |
|---------------------------|-----------|-------|----------|----------------------|
| 1 | DECIMAL | 4 | SITSNS_S | SIGNON SCOPE=SYSPLEX |
| PROGRAM MANAGER CONSTANTS | | | | |
| 1 | CHARACTER | I | SITAPGMI | INACTIVE |
| 1 | CHARACTER | A | SITAPGMA | ACTIVE |
| 1 | CHARACTER | M | SITACTGM | MODIFY |
| 1 | CHARACTER | N | SITACTGN | NONE |
| 1 | CHARACTER | A | SITACTGA | ALL |

SJCON - Java VM domain control blocks

Table 507.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------------|-----------------------|
| (0) | STRUCTURE | 672 | SJA | |
| Block header | | | | |
| ----- | | | | |
| (0) | CHARACTER | 16 | SJA_PREFIX | ===> eyecatcher <=== |
| (0) | HALFWORD | 2 | SJA_LENGTH | length of sja |
| (2) | CHARACTER | 14 | SJA_PREFIX_TEXT | >DFHSJAnchor |
| Domain state information | | | | |
| ----- | | | | |
| ----- -! All doubleword-aligned fields start here ! ----- ----- | | | | |
| (10) | CHARACTER | 8 | SJA_GENERAL_SPTOKEN | general subpool |
| (18) | CHARACTER | 8 | SJA_SJLRB_SPTOKEN | Liberty req blk |
| ----- -! All fullword-aligned fields start here ! ----- ----- | | | | |
| (20) | ADDRESS | 4 | SJA_LOCK_TOKEN | global lock token |
| (24) | ADDRESS | 4 | * | reserved |
| (28) | FULLWORD | 4 | SJA_PROFILE_DIR_LEN | len JVMPROFILEDIR |
| (2C) | CHARACTER | 12 | SJA_STATS_DATA | SJ statistics data |
| (2C) | ADDRESS | 4 | SJA_STATS_BUFFER_PTR | Statistics buffer |
| (30) | CHARACTER | 8 | SJA_STATS_LAST_RESET_TIME | Stats last reset time |
| Master control block for JVMServers !@M6A jcb = JVMServer Control Block !@M6A | | | | |
| (38) | ADDRESS | 4 | SJA_JCB_PTR | |
| (3C) | ADDRESS | 4 | SJA_DFHSJOI_ENTRY | OSGi ICM entry pt |
| (40) | ADDRESS | 4 | SJA_DFHSJWR_ENTRY | WAR ICM entry pt |
| (44) | ADDRESS | 4 | SJA_DFHSJEB_ENTRY | EBA ICM entry p |
| (48) | ADDRESS | 4 | SJA_DFHSJXS_ENTRY | JVMSEVER ICM |

Table 507. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------------|---|
| (4C) | ADDRESS | 4 | SJA_BUNDLE_TO_SJ_DIR_TOKEN | Dir token Bundle |
| (50) | UNSIGNED | 1 | SJA_SECURITY_STANDARDS | Security flags |
| (50) | 1... | | SJA_SECURITY_SP800131A | NIST SP800-131A |
| (50) | .111 1111 | | * | reserved |
| (51) | CHARACTER | 3 | * | reserved |
| ----- -! All halfword-aligned fields start here ! ----- -----! ----- -----! All unaligned fields start here ! ----- ----- | | | | |
| (54) | CHARACTER | 244 | SJA_PROFILE_DIR | SIT JVMPROFILEDIR |
| (148) | CHARACTER | 9 | SJA_APPLID | Null-terminated |
| (148) | CHARACTER | 8 | SJA_APPLID_AREA | Applid + nulls |
| (150) | CHARACTER | 1 | SJA_APPLID_TERMINATOR | For 8 byte applid |
| (151) | UNSIGNED | 1 | SJA_SJ_STATE | SJ domain state initialised, quiesced or terminated |
| (152) | UNSIGNED | 1 | SJA_FLAGS | Flags |
| (152) | 1... | | SJA_COLD_START | 1=CICS cold started |
| (152) | .1.. | | SJA_FIRST_JVM | 1=first JVM not run |
| The following bit is set if a WLP JVM server with zos platform has been enabled (only one allowed per region) | | | | |
| (152) | ..1. | | SJA_WLP_ZOS_PLATFORM | |
| (152) | ...1 1111 | | * | |
| (153) | CHARACTER | 255 | SJA_USS_HOME_DIR | USSHOME SIT PARM |
| (252) | UNSIGNED | 1 | SJA_USS_HOME_LEN | Length of USSHOME |
| (253) | CHARACTER | 1 | * | Reserved |
| (254) | CHARACTER | 64 | SJA_KEYRING_NAME | KEYRING SIT PARM |
| (294) | UNSIGNED | 1 | SJA_KEYRING_LEN | Length of KEYRING |
| (295) | CHARACTER | 6 | SJA_RUNNING_JAVA_VERSION | Java version |
| (29B) | CHARACTER | 5 | * | Reserved |
| | | | | |
| (2A0) | CHARACTER | 0 | SJA_END | |

Constants

Table 508.

| Len | Type | Value | Name | Description |
|---|-----------|--------|-----------|-------------|
| Message numbers and system dumpcode values ----- | | | | |
| 1 | DECIMAL | 1 | MNO_ABEND | |
| 8 | CHARACTER | SJ0001 | DCD_ABEND | |

Table 508. (continued)

| Len | Type | Value | Name | Description |
|--|-----------|--------|-------------------------------------|-------------|
| 1 | DECIMAL | 2 | MNO_SEVERE_ERROR | |
| 8 | CHARACTER | SJ0002 | DCD_SEVERE_ERROR | |
| 1 | DECIMAL | 3 | MNO_NO_STORAGE | |
| 8 | CHARACTER | SJ0003 | DCD_NO_STORAGE | |
| 8 | CHARACTER | SJ0004 | DCD_LOOP | |
| 1 | DECIMAL | 4 | MNO_LOOP | |
| SJDM 101 - 199 | | | | |
| 2 | DECIMAL | 101 | MSG_SJDM_INIT_START | |
| 2 | DECIMAL | 102 | MSG_SJDM_INIT_END | |
| 2 | DECIMAL | 103 | MSG_SJDM_INIT_FAIL | |
| 8 | CHARACTER | SJ0103 | MSG_SJDM_INIT_FAIL_ ABEND | |
| SJIN 201 - 299 201-205 deleted by D66881 | | | | |
| 2 | DECIMAL | 207 | MSG_SJIN_RUNNING_JAVA_ VERSION | |
| 2 | DECIMAL | 210 | MSG_SJIN_START_JVM_ FAILED | |
| 2 | DECIMAL | 211 | MSG_SJIN_START_JVM_ THREW_EXCEPTION | |
| 2 | DECIMAL | 212 | MSG_SJIN_JVM_ TERMINATION_ERROR | |
| 2 | DECIMAL | 213 | MSG_SJIN_TERM_JVM_ THREW_EXCEPTION | |
| 2 | DECIMAL | 214 | MSG_SJIN_SYSTEM_EXIT_ INVOKED | |
| 2 | DECIMAL | 215 | MSG_SJIN_OSGI_INIT_ EXCEPTION | |
| SJIS 301 - 399 dcl msg_sjis_xxxxx fixed bin (16) constant (301); SJST 401 - 499 dcl msg_sjst_xxxxx fixed bin (16) constant (401); SJSC 1001 - 1099 | | | | |
| 2 | DECIMAL | 1001 | MSG_SJSC_ATTACH_ THREAD_FAILED | |
| 2 | DECIMAL | 1002 | MSG_SJSC_CLASS_NOT_ FOUND | |
| 2 | DECIMAL | 1003 | MSG_SJSC_METHOD_NOT_ FOUND | |
| 2 | DECIMAL | 1004 | MSG_SJSC_JVM_THREW_ EXCEPTION | |
| 2 | DECIMAL | 1005 | MSG_SJSC_DETACH_ THREAD_FAILED | |
| Message reason constants for MSG SJ0210 (Start JVM failed) | | | | |
| 1 | DECIMAL | 1 | MSG_SJIN_ERROR_ PROCESSING_PROFILE | |
| 1 | DECIMAL | 2 | MSG_SJIN_ERROR_ OPENING_JVM_DLL | |

Table 508. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-------|---------------------------------------|-------------|
| 1 | DECIMAL | 3 | MSG_SJIN_JNI_CREATE_NOT_FOUND | |
| 1 | DECIMAL | 4 | MSG_SJIN_SETUP_CLASS_NOT_FOUND | |
| 1 | DECIMAL | 5 | MSG_SJIN_TERMINATION_CLASS_NOT_FOUND | |
| 1 | DECIMAL | 6 | MSG_SJIN_CREATE_JVM_FAILED | |
| 1 | DECIMAL | 7 | MSG_SJIN_CHDIR_FAILED | |
| 1 | DECIMAL | 8 | MSG_SJIN_WORK_DIR_READONLY | |
| 1 | DECIMAL | 9 | MSG_SJIN_ERROR_LOCATING_MAIN | |
| 1 | DECIMAL | 10 | MSG_SJIN_ATTACH_FAILED | |
| 1 | DECIMAL | 11 | MSG_SJIN_SETUP_CLASS_TIMEDOUT | |
| 1 | DECIMAL | 12 | MSG_SJIN_ENCLAVE_INIT_FAILED | |
| 1 | DECIMAL | 13 | MSG_SJIN_VOLUME_CHECK_FAILED | |
| 1 | DECIMAL | 20 | MSG_SJIN_INTERNAL_ERROR | |
| Message reason constants for MSG SJ0212 (JVM termination error) | | | | |
| 1 | DECIMAL | 1 | MSG_SJIN_TERM_CLASS_NOT_FOUND | |
| 1 | DECIMAL | 2 | MSG_SJIN_TERM_ERROR_LOCATING_MAIN | |
| 1 | DECIMAL | 3 | MSG_SJIN_TERM_INTERNAL_ERROR | |
| 1 | DECIMAL | 4 | MSG_SJIN_TERM_CLASS_TIMEDOUT | |
| SJRL 1100 - 1149 ! Assume 50 SRJL msgs ample | | | | |
| 2 | DECIMAL | 1100 | MSG_BUNDLE_INSTALL_FAILED | |
| 2 | DECIMAL | 1101 | MSG_BUNDLE_ENABLE_FAILED | |
| 2 | DECIMAL | 1102 | MSG_BUNDLE_DISABLE_FAILED | |
| 2 | DECIMAL | 1104 | MSG_BUNDLE_JVMSERVER_DISABLED | |
| 2 | DECIMAL | 1105 | MSG_BUNDLPART_INSTALLED | |
| 2 | DECIMAL | 1106 | MSG_BUNDLPART_DISCARDED | |
| Message reason constants for MSG SJ1100 (OSGi bundle install err) | | | | |
| 1 | DECIMAL | 1 | MSG_BUNDLE_INSTALL_UNKNOWN_ERROR | |
| 1 | DECIMAL | 2 | MSG_BUNDLE_INSTALL_NO_JVMSERVER | |
| 1 | DECIMAL | 3 | MSG_BUNDLE_INSTALL_EXC_FROM_JVMSERVER | |

Table 508. (continued)

| Len | Type | Value | Name | Description |
|--|---------|-------|--|-------------|
| | | | | QDXC |
| 1 | DECIMAL | 4 | MSG_BUNDLE_INSTALL_NO_OSGI | |
| 1 | DECIMAL | 5 | MSG_BUNDLE_INTERNAL_ERROR | |
| 1 | DECIMAL | 6 | MSG_BUNDLE_DUPLICATE_BUNDLE | |
| 1 | DECIMAL | 7 | MSG_BUNDLE_JVMSERVER_NOT_LIBERTY | |
| 1 | DECIMAL | 8 | MSG_BUNDLE_JVMSERVER_IS_LIBERTY | |
| Message reason constants for MSG SJ1101 (OSGi bundle enable err) | | | | |
| 1 | DECIMAL | 1 | MSG_BUNDLE_ENABLE_NO_JVMSERVER | |
| 1 | DECIMAL | 2 | MSG_BUNDLE_ENABLE_EXC_FROM_JVMSERVER | |
| Message reason constants for MSG SJ1102 (OSGi bundle enable err) | | | | |
| 1 | DECIMAL | 1 | MSG_BUNDLE_DISABLE_NO_JVMSERVER | |
| 1 | DECIMAL | 2 | MSG_BUNDLE_DISABLE_EXC_FROM_JVMSERVER | |
| | | | | |
| 2 | HEX | 0101 | TID_SJDM_ENTRY | |
| 2 | HEX | 0102 | TID_SJDM_EXIT | |
| 2 | HEX | 0103 | TID_SJDM_RECOVERY | |
| 2 | HEX | 0104 | TID_SJDM_INVALID_FORMAT | |
| 2 | HEX | 0105 | TID_SJDM_INVALID_FUNCTION | |
| 2 | HEX | 0106 | TID_SJDM_RELEASE_LOCK_ERROR | |
| 2 | HEX | 0107 | TID_SJDM_NO_STORAGE_FOR_SJA | |
| 2 | HEX | 0108 | TID_SJDM_NO_STORAGE_FOR_STATS | |
| 2 | HEX | 010B | TID_SJDM_NO_STORAGE_FOR_JCB | |
| 2 | HEX | 010C | TID_SJDM_REGISTER_CALLBACK_ERROR | |
| 2 | HEX | 010D | TID_SJDM_CREATE_BUNDLE_DIRECTORY_ERROR | |
| 2 | HEX | 010E | TID_SJDM_WAIT_PHASE_ERROR | |
| 2 | HEX | 0201 | TID_SJIN_ENTRY | |
| 2 | HEX | 0202 | TID_SJIN_EXIT | |
| 2 | HEX | 0203 | TID_SJIN_RECOVERY | |
| 2 | HEX | 0204 | TID_SJIN_INVALID_FORMAT | |

Table 508. (continued)

| Len | Type | Value | Name | Description |
|---|------|-------|---------------------------------------|-------------|
| 2 | HEX | 0205 | TID_SJIN_INVALID_ FUNCTION | |
| 2 | HEX | 0206 | TID_SJIN_GET_LOCK_ ERROR | |
| 2 | HEX | 0207 | TID_SJIN_RELEASE_LOCK_ ERROR | |
| 2 | HEX | 0208 | TID_SJIN_INVALID_DSAT_ FUNCTION | |
| 2 | HEX | 0209 | TID_SJIN_INTERNAL_ ERROR | |
| 2 | HEX | 020E | TID_SJIN_RUNNING_JAVA_ VERSION | |
| JVMSEVER-related tracepoints in DFHSJIN | | | | |
| 2 | HEX | 0239 | TID_SJIN_PTHREAD_ CREATE_FAIL | |
| 2 | HEX | 023A | TID_SJIN_ERROR_ PROCESSING_PROFILE | |
| 2 | HEX | 023B | TID_SJIN_ERROR_ OPENING_JVM_DLL | |
| 2 | HEX | 023C | TID_SJIN_JNI_CREATE_ NOT_FOUND | |
| 2 | HEX | 023D | TID_SJIN_SETUP_CLASS_ NOT_FOUND | |
| 2 | HEX | 023E | TID_SJIN_CREATE_JVM_ FAILED | |
| 2 | HEX | 023F | TID_SJIN_CHDIR_FAILED | |
| 2 | HEX | 0240 | TID_SJIN_WORK_DIR_ READONLY | |
| 2 | HEX | 0241 | TID_SJIN_ERROR_ LOCATING_MAIN | |
| 2 | HEX | 0242 | TID_SJIN_MAIN_METHOD_ EXCEPTION | |
| 2 | HEX | 0243 | TID_SJIN_TERMINATION_ CLASS_NOT_FOUND | |
| 2 | HEX | 0244 | TID_SJIN_ATTACH_FAILED | |
| 2 | HEX | 0245 | TID_SJIN_SETUP_CLASS_ TIMEDOUT | |
| 2 | HEX | 0246 | TID_SJIN_TERM_CLASS_ TIMEDOUT | |
| 2 | HEX | 0247 | TID_SJIN_ENCLAVE_INIT_ FAILED | |
| 2 | HEX | 0248 | TID_SJIN_OSGI_INIT_ FAILED | |
| 2 | HEX | 0249 | TID_SJIN_VOLUME_CHECK_ FAILED | |
| 2 | HEX | 024A | TID_SJIN_JVMSEVER_ EXITING | |
| 2 | HEX | 0301 | TID_SJIS_ENTRY | |
| 2 | HEX | 0302 | TID_SJIS_EXIT | |
| 2 | HEX | 0303 | TID_SJIS_RECOVERY | |
| 2 | HEX | 0304 | TID_SJIS_INVALID_ FORMAT | |

Table 508. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|---------------------------------------|-------------|
| 2 | HEX | 0305 | TID_SJIS_INVALID_ FUNCTION | |
| 2 | HEX | 0306 | TID_SJIS_GET_LOCK_ ERROR | |
| 2 | HEX | 0307 | TID_SJIS_RELEASE_LOCK_ ERROR | |
| 2 | HEX | 0401 | TID_SJST_ENTRY | |
| 2 | HEX | 0402 | TID_SJST_EXIT | |
| 2 | HEX | 0403 | TID_SJST_RECOVERY | |
| 2 | HEX | 0404 | TID_SJST_INVALID_ FORMAT | |
| 2 | HEX | 0405 | TID_SJST_INVALID_ FUNCTION | |
| 2 | HEX | 0406 | TID_SJST_INVALID_PARMs | |
| 2 | HEX | 0407 | TID_SJST_GET_EXC_LOCK_ ERROR | |
| 2 | HEX | 0408 | TID_SJST_RELEASE_EXC_ LOCK_ERROR | |
| 2 | HEX | 0409 | TID_SJST_GET_SHR_LOCK_ ERROR | |
| 2 | HEX | 0410 | TID_SJST_RELEASE_SHR_ LOCK_ERROR | |
| 2 | HEX | 0411 | TID_SJST_RECOVERY_ RELEASE_LOCK_ERROR | |
| 2 | HEX | 0412 | TID_SJST_UNKNOWN_KE_ ERROR_CODE | |
| 2 | HEX | 0501 | TID_SJL_ATTACH_FAILED | |
| 2 | HEX | 0502 | TID_SJL_LISTENER_ FAILED | |
| 2 | HEX | 0A01 | TID_SJDS_ENTRY | |
| 2 | HEX | 0A02 | TID_SJDS_EXIT | |
| 2 | HEX | 0A03 | TID_SJDS_RECOVERY | |
| 2 | HEX | 0A04 | TID_SJDS_INVALID_ FORMAT | |
| 2 | HEX | 0A05 | TID_SJDS_INVALID_ FUNCTION | |
| 2 | HEX | 0A06 | TID_SJDS_INTERNAL_ ERROR | |
| 2 | HEX | 0A07 | TID_SJDS_EXCEPTION_ DATA | |
| 2 | HEX | 0B01 | TID_SJJS_ENTRY | |
| 2 | HEX | 0B02 | TID_SJJS_EXIT | |
| 2 | HEX | 0B03 | TID_SJJS_INVALID_ FORMAT | |
| 2 | HEX | 0B04 | TID_SJJS_INVALID_ FUNCTION | |
| 2 | HEX | 0B05 | TID_SJJS_RECOVERY_ ENTERED | |
| 2 | HEX | 0B06 | TID_SJJS_FAILURE | |
| 2 | HEX | 0B07 | TID_SJJS_INTERNAL_ ERROR | |
| 2 | HEX | 0B08 | TID_SJJS_LE_RUNOPTS | |
| 2 | HEX | 0B09 | TID_SJJS_GETMAIN_ERROR | |
| 2 | HEX | 0B0A | TID_SJJS_ATTACH_ERROR | |

Table 508. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|---------------------------------|-------------|
| 2 | HEX | 0B0B | TID_SJJS_URI_ERROR | |
| 2 | HEX | 0B0C | TID_SJJS_URIMAP_ERROR | |
| 2 | HEX | 0B0D | TID_SJJS_ATTACH_PARMS | |
| 2 | HEX | 0B0E | TID_SJJS_ATTACH_DISABLED_ERROR | |
| 2 | HEX | 0B0F | TID_SJJS_ATTACH_NOTFOUND_ERROR | |
| 2 | HEX | 0B10 | TID_SJJS_JVMSERVER_REQUEST | |
| 2 | HEX | 0B11 | TID_SJJS_URIMAP_DISABLED_ERROR | |
| 2 | HEX | 0B12 | TID_SJJS_URIMAP_SCHEME_ERROR | |
| 2 | HEX | 0B13 | TID_SJJS_INQUIRE_BUNDLE_FAILED | |
| 2 | HEX | 0B14 | TID_SJJS_DELETED_TCB | |
| 2 | HEX | 0B15 | TID_SJJS_SWITCH_CONTEXT | |
| 2 | HEX | 0B16 | TID_SJJS_URIMAP_UNAVAIL | |
| 2 | HEX | 0C01 | TID_SJTH_ENTRY | |
| 2 | HEX | 0C02 | TID_SJTH_EXIT | |
| 2 | HEX | 0C03 | TID_SJTH_INVALID_FORMAT | |
| 2 | HEX | 0C04 | TID_SJTH_INVALID_FUNCTION | |
| 2 | HEX | 0C05 | TID_SJTH_RECOVERY_ENTERED | |
| 2 | HEX | 0C06 | TID_SJTH_FAILURE | |
| 2 | HEX | 0C07 | TID_SJTH_UNKNOWN_KEY_ERROR_CODE | |
| 2 | HEX | 0C08 | TID_SJTH_LOCK_ERROR | |
| 2 | HEX | 0C09 | TID_SJTH_UNLOCK_ERROR | |
| 2 | HEX | 0C0A | TID_SJTH_RETURN_FROM_NATIVE | |
| 2 | HEX | 0C0B | TID_SJTH_INTERNAL_ERROR | |
| 2 | HEX | 0C0C | TID_SJTH_ALLOC_THREAD | |
| 2 | HEX | 0C0D | TID_SJTH_WAIT_FOR_THREAD | |
| 2 | HEX | 0C0E | TID_SJTH_DEALLOC_THREAD | |
| 2 | HEX | 0D01 | TID_SJSC_NATIVE_ENTRY | |
| 2 | HEX | 0D02 | TID_SJSC_NATIVE_EXIT | |
| 2 | HEX | 0D03 | TID_SJSC_ATTACH_THREAD_FAILED | |
| 2 | HEX | 0D04 | TID_SJSC_CLASS_NOT_FOUND | |
| 2 | HEX | 0D05 | TID_SJSC_METHOD_NOT_FOUND | |
| 2 | HEX | 0D06 | TID_SJSC_JVM_THREW_EXCEPTION | |

Table 508. (continued)

| Len | Type | Value | Name | Description |
|-------------------------------|------|-------|------------------------------------|-------------|
| 2 | HEX | 0D07 | TID_SJSC_DETACH_THREAD_FAILED | |
| 2 | HEX | 0D10 | TID_SJSC_PTHREAD_ENTRY | |
| 2 | HEX | 0D11 | TID_SJSC_PTHREAD_EXIT | |
| 2 | HEX | 0D12 | TID_SJSC_PTHREAD_WAIT_FOR_WORK | |
| 2 | HEX | 0D13 | TID_SJSC_INVOKING_SJ_PTHREAD | |
| 2 | HEX | 0D14 | TID_SJSC_SJ_PTHREAD_RC | |
| ->@D55806A | | | | |
| 2 | HEX | 0D20 | TID_SJSC_NOT_LIBERTY_SERVER | |
| 2 | HEX | 0D21 | TID_SJSC_FILE_OPEN_FAILED | |
| 2 | HEX | 0D22 | TID_SJSC_FILE_READ_FAILED | |
| 2 | HEX | 0D23 | TID_SJSC_BAD_INSTALLEDAPPS_FILE | |
| 2 | HEX | 0D24 | TID_SJSC_BAD_FILE_STATUS | |
| 2 | HEX | 0D25 | TID_SJSC_DUPLICATE_WLP_BUNDLE | |
| | | | | |
| 2 | HEX | 0D26 | TID_SJSC_ENVVAR_NOT_SET | |
| <-@D55806A | | | | |
| 2 | HEX | 0D27 | TID_SJSC_JAVAPROP_NOT_SET | |
| 2 | HEX | 0D28 | TID_SJSC_FILE_WRITE_FAILED | |
| 2 | HEX | 0E01 | TID_SJRL_ENTRY | |
| 2 | HEX | 0E02 | TID_SJRL_EXIT | |
| Error trace points in DFHSJRL | | | | |
| 2 | HEX | 0E03 | TID_SJRL_INVALID_FORMAT | |
| 2 | HEX | 0E04 | TID_SJRL_INVALID_FUNCTION | |
| 2 | HEX | 0E05 | TID_SJRL_RECOVERY_ENTERED | |
| 2 | HEX | 0E07 | TID_SJRL_UNKNOWN_KEY_ERROR_CODE | |
| 2 | HEX | 0E0A | TID_SJRL_XML_GETMAIN_FAILED | |
| 2 | HEX | 0E0B | TID_SJRL_BUNDLEPART_GETMAIN_FAILED | |
| 2 | HEX | 0E0C | TID_SJRL_CONVERT_FAILED | |
| 2 | HEX | 0E0D | TID_SJRL_BAD_XML_DATA | |
| 2 | HEX | 0E0E | TID_SJRL_LDLD_DEFINE_FAILED | |
| 2 | HEX | 0E0F | TID_SJRL_LDLD_ACQUIRE_FAILED | |
| 2 | HEX | 0E10 | TID_SJRL_CREATE_CHANNEL_FAILED | |

Table 508. (continued)

| Len | Type | Value | Name | Description |
|--|-----------|---------------|---------------------------------|-------------|
| 2 | HEX | 0E11 | TID_SJRL_BUNDLE_INSTALL_FAILED | |
| 2 | HEX | 0E12 | TID_SJRL_BUNDLE_ENABLE_FAILED | |
| Success trace points in DFHSJRL | | | | |
| 2 | HEX | 0E30 | TID_SJRL_PARSED_XML | |
| 2 | HEX | 0E31 | TID_SJRL_OSGIBUNDLE_INFO | |
| 2 | HEX | 0E32 | TID_SJRL_WARBUNDLE_INFO | |
| 2 | HEX | 0E33 | TID_SJRL_EBABUNDLE_INFO | |
| | | | | |
| SJBD traces from SJRL | | | | |
| 2 | HEX | 0E41 | TID_SJRL_DUPLICATE_BUNDLE_FOUND | |
| 2 | HEX | 0E61 | TID_SJBD_ENTRY | |
| 2 | HEX | 0E62 | TID_SJBD_EXIT | |
| Error trace points in DFHSJBD | | | | |
| 2 | HEX | 0E63 | TID_SJBD_INVALID_FORMAT | |
| 2 | HEX | 0E64 | TID_SJBD_INVALID_FUNCTION | |
| 2 | HEX | 0E65 | TID_SJBD_RECOVERY_ENTERED | |
| 2 | HEX | 0E66 | TID_SJBD_FAILURE | |
| 2 | HEX | 0E6A | TID_SJBD_INTERNAL_ERROR | |
| 2 | HEX | 0F01 | TID_SJXM_ENTRY | |
| 2 | HEX | 0F02 | TID_SJXM_EXIT | |
| 2 | HEX | 0F03 | TID_SJXM_RECOVERY | |
| 2 | HEX | 0F04 | TID_SJXM_INVALID_FORMAT | |
| 2 | HEX | 0F05 | TID_SJXM_INVALID_FUNCTION | |
| 4 | CHARACTER | ASJA | ABEND_ASJA | |
| 4 | CHARACTER | ASJB | ABEND_ASJB | |
| 4 | CHARACTER | ASJC | ABEND_ASJC | |
| 4 | CHARACTER | ASJD | ABEND_ASJD | |
| 4 | CHARACTER | ASJE | ABEND_ASJE | |
| 4 | CHARACTER | ASJF | ABEND_ASJF | |
| 4 | CHARACTER | ASJG | ABEND_ASJG | |
| 4 | CHARACTER | ASJH | ABEND_ASJH | |
| 8 | CHARACTER | ASJS | ABEND_ASJS | |
| 4 | CHARACTER | ASJU | ABEND_ASJU | |
| 4 | CHARACTER | ASJ7 | ABEND_ASJ7 | |
| Minimum Java version as null-terminated string 1.7.0 | | | | |
| 6 | CHAR HEX | F14BF74B F000 | SJ_MIN_JAVA_VERSION | |

Table 508. (continued)

| Len | Type | Value | Name | Description |
|---|-----------|----------------------|-----------------------|-------------|
| 8 | CHARACTER | SYSTEM | DEFINESOURCE_SYSTEM | |
| 8 | CHAR HEX | 00000000 00000000 | NULL_TIME | |
| 2 | DECIMAL | 0 | AMSIG_UNKNOWN_AGENT | |
| 2 | DECIMAL | 1 | AMSIG_CSDAPI | |
| 2 | DECIMAL | 2 | AMSIG_CSDBATCH | |
| 2 | DECIMAL | 3 | AMSIG_DREPAPI | |
| 2 | DECIMAL | 4 | AMSIG_CREATE_SPI | |
| 2 | DECIMAL | 5 | AMSIG_GRPLIST | |
| 2 | DECIMAL | 6 | AMSIG_AUTOINSTALL | |
| 2 | DECIMAL | 7 | AMSIG_SYSTEM | |
| 2 | DECIMAL | 8 | AMSIG_DYNAMIC | |
| 2 | DECIMAL | 9 | AMSIG_BUNDLE | |
| 2 | DECIMAL | 10 | AMSIG_TABLE | |
| 2 | DECIMAL | 11 | AMSIG_CLOUD | |
| 1 | HEX | FF | HOP_TRUE | |
| 1 | HEX | 00 | HOP_FALSE | |
| SJ Domain States (printed in formatted dump) | | | | |
| ----- | | | | |
| 1 | DECIMAL | 1 | SJ_STATE_INITIALISING | |
| 1 | DECIMAL | 2 | SJ_STATE_INITIALISED | |
| 1 | DECIMAL | 3 | SJ_STATE QUIESCING | |
| 1 | DECIMAL | 4 | SJ_STATE QUIESCED | |
| 1 | DECIMAL | 5 | SJ_STATE_TERMINATED | |
| Error codes used on MVS POST for sj_request_reply_ecb | | | | |
| ----- | | | | |
| 3 | NUMB HEX | 000000 | SJ_POST_OK | |
| 3 | NUMB HEX | 000001 | SJ_POST_GETMAIN_ERROR | |
| 3 | NUMB HEX | 000002 | SJ_POST_ATTACH_ERROR | |
| 3 | NUMB HEX | 000003 | SJ_POST_ABEND | |
| Literals | | | | |
| ----- | | | | |
| 2 | CHARACTER | SJ | COMPID | |
| 8 | CHARACTER | SJGENRAL | SPNAME_GENERAL | |
| 8 | CHARACTER | SJLRB | SJ_SJLRB_SP | |
| 14 | CHARACTER | >DFHSJANCHOR | SJA_EYE_CATCHER | |
| 14 | CHARACTER | >DFHSJLRBBLK | SJLRB_EYE_CATCHER | |

Table 508. (continued)

| Len | Type | Value | Name | Description |
|--|-----------|---|---------------------------|-------------|
| 8 | CHARACTER | SJGLOBAL | SJ_LOCK | |
| 8 | CHARACTER | JCB_LOCK | SJ_JCB_LOCK | |
| 8 | CHARACTER | DFHSJTHP | SJ_THREADJOINER_PROG | |
| 4 | CHARACTER | OSGi | SJ_BUNDLETYPE_OSGI | |
| 3 | CHARACTER | WAR | SJ_BUNDLETYPE_WAR | |
| 3 | CHARACTER | EBA | SJ_BUNDLETYPE_EBA | |
| 4 | CHARACTER | JVMS | SJ_BUNDLETYPE_JVMS | |
| Misc. constants | | | | |
| ----- | | | | |
| 4 | DECIMAL | 4096 | SJ_STATS_BUFFER_SIZE | |
| 4 | DECIMAL | 32 | SJ_HISTORY_LIST_SIZE | |
| 2 | DECIMAL | 16384 | SJ_JVMProf_SIZE | |
| Error codes (for DFHKERN RECOVERY_REQUEST) | | | | |
| ----- | | | | |
| 4 | CHARACTER | ASJA | LOCK_ERROR_CODE | |
| 4 | CHARACTER | ASJB | UNLOCK_ERROR_CODE | |
| 42 | CHARACTER | http:// www.ibm.c om/xmlns/ prod/ci cs/bundle/ | CICS_BUNDLE_NAMESPACE | |
| 52 | CHARACTER | http:// www.ibm.c om/xmlns/ prod/ci cs/bundle/ OSGIBU NDLE | SJ_OSGI_BUNDLE_TYPE_ NAME | |
| 51 | CHARACTER | http:// www.ibm.c om/xmlns/ prod/ci cs/bundle/ WARBUN DLE | SJ_WAR_BUNDLE_TYPE_ NAME | |
| 51 | CHARACTER | http:// www.ibm.c om/xmlns/ prod/ci cs/bundle/ EBABUN DLE | SJ_EBA_BUNDLE_TYPE_ NAME | |
| | | | | |
| 51 | CHARACTER | http:// www.ibm.c om/xmlns/ prod/ci cs/bundle/ JVMSE R VER | SJ_JVMS_BUNDLE_TYPE_ NAME | |

Table 508. (continued)

| Len | Type | Value | Name | Description |
|--|----------|----------------------|-------------------------|-------------|
| <p>The threadset is a simple array of threads. Up to 256 thread are supported, although the JVMServer resource definition can specify an initial operational limit lower than that. This limit can be varied by SPI command.</p> <p>Each thread in the array is a record of the Dispatcher T8 TCB (identified by etoken) and its current owner (or nulls if it is free).</p> <p>-----</p> <p>Each JVMServer has a fixed array of 256 thread slots. IMPORTANT if this value is changed, see also DFHDTCIH and DFHSJJS</p> | | | | |
| 4 | DECIMAL | 256 | SJTH_THREAD_ARRAY_DIM | |
| 8 | CHAR HEX | 00000000 00000000 | NULL_THREAD | |
| 4 | CHAR HEX | 00000000 | NO_OWNER | |
| 1 | NUMB HEX | 00 | RESET_NO | |
| 1 | NUMB HEX | 01 | RESET_YES | |
| 1 | NUMB HEX | 00 | DATA_NO | |
| 1 | NUMB HEX | 01 | DATA_YES | |
| 1 | DECIMAL | 0 | NORMAL_THREAD | |
| 1 | DECIMAL | 1 | SYS_THREAD | |
| 1 | DECIMAL | 1 | IS_OSGIBUNDLE | |
| 1 | DECIMAL | 2 | IS_WARBUNDLE | |
| 1 | DECIMAL | 3 | IS_JVMSBUNDLE | |
| 1 | DECIMAL | 4 | IS_EBABUNDLE | |
| 4 | DECIMAL | 1 | SJ_OK | |
| 4 | DECIMAL | 2 | SJ_EXCEPTION | |
| 4 | DECIMAL | 3 | SJ_DISASTER | |
| 4 | DECIMAL | 4 | SJ_INVALID | |
| 4 | DECIMAL | 6 | SJ_PURGED | |
| 4 | DECIMAL | 1 | SJ_DUPBUNDLE | |
| 4 | DECIMAL | 2 | SJ_JVMSEVER_NOT_ENABLED | |
| <p>Next we declare the common bit variable constants.</p> <p>-----</p> | | | | |
| 0 | BIT | 1 | TRUE | |
| 0 | BIT | 0 | FALSE | |
| 0 | BIT | 1 | YES | |
| 0 | BIT | 0 | NO | |
| 0 | BIT | 1 | ON | |
| 0 | BIT | 0 | OFF | |

Table 508. (continued)

| Len | Type | Value | Name | Description |
|-----|-----------|-------|-------------------------|-------------|
| 2 | DECIMAL | 2000 | MAXTHRDTCBS | |
| 2 | DECIMAL | 1 | RESERVED_SYSTEM_THREADS | |
| 4 | CHARACTER | AKC3 | PURGED_ABCODE | |
| 4 | CHARACTER | SJRL | BUNDLE_DIRECTORY | |

SJSDS - JVMSERVER Resource Statistics

CONTROL BLOCK NAME = DFHSJSDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSJSPS
DESCRIPTIVE NAME = CICS TS JVMSERVER statistics record
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 2008, 2013

FUNCTION =
This data area contains the JVMSERVER statistics provided by the SJ Domain.
It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.
There is a single instance of this data block.

LIFETIME =
This data block is created by the SJ Domain to store statistics to be passed to the user in response to a for JVMSERVER statistics. The storage is released when the user task is detached.
The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = None

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

Table 509.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|-------------------------------|
| (0) | STRUCTURE | 0 | DFHSJSDS | JVMSERVER Resid stats record |
| (0) | HALFWORD | 2 | SJSDS_LEN | JVMSERVER stats record length |
| (2) | ADDRESS | 2 | SJSDS_ID | JVMSERVER stats id |
| (4) | CHARACTER | 1 | SJSDS_VERS | JVMSERVER stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | SJS_JVMSERVER_NAME | JVMSERVER name |
| (10) | CHARACTER | 8 | SJS_JVMSERVER_JVMPROFILE | JVMSERVER JVMPROFILE |
| (18) | CHARACTER | 8 | SJS_JVMSERVER_LE_RUNOPTS | JVMSERVER LE RUNOPTS |
| (20) | BITSTRING | 8 | | Reserved |

Table 509. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------|-----------|-----|-------------------------------|--------------------------|
| (28) | FULLWORD | 4 | SJS_JVMSEVER_USE_COUNT | JVMSEVER use count |
| (2C) | CHARACTER | 1 | SJS_JVMSEVER_STATE | JVMSEVER state |
| (2D) | BITSTRING | 3 | | Reserved |
| User threads | | | | |
| (30) | FULLWORD | 4 | SJS_JVMSEVER_THREAD_LIMIT | Max no. threads |
| (34) | FULLWORD | 4 | SJS_JVMSEVER_THREAD_CURRENT | Current threads |
| (38) | FULLWORD | 4 | SJS_JVMSEVER_THREAD_HWM | Peak threads |
| (3C) | FULLWORD | 4 | SJS_JVMSEVER_THREAD_WAITS | No. thread waits |
| (40) | BITSTRING | 8 | SJS_JVMSEVER_THREAD_WAIT_TIME | Total thread wait time |
| (48) | FULLWORD | 4 | SJS_JVMSEVER_THREAD_WAIT_CUR | Current waiting threads |
| (4C) | FULLWORD | 4 | SJS_JVMSEVER_THREAD_WAIT_HWM | Peak waiting threads |
| (50) | CHARACTER | 32 | | Reserved |
| RD0 | | | | |
| (70) | CHARACTER | 8 | SJS_JVMSEVER_DEFINE_SOURCE | Group installed from |
| (78) | BITSTRING | 8 | SJS_JVMSEVER_CHANGE_TIME | Change/create time |
| (80) | CHARACTER | 8 | SJS_JVMSEVER_CHANGE_USERID | Change userid |
| (88) | BITSTRING | 2 | SJS_JVMSEVER_CHANGE_AGENT | Change agent |
| (8A) | BITSTRING | 2 | SJS_JVMSEVER_INSTALL_AGENT | Install agent |
| (8C) | BITSTRING | 8 | SJS_JVMSEVER_INSTALL_TIME | Install/Create time |
| (94) | CHARACTER | 8 | SJS_JVMSEVER_INSTALL_USERID | Install userid |
| System threads | | | | |
| (9C) | FULLWORD | 4 | SJS_JVMSEVER_SYS_USE_COUNT | System thread use-count |
| (A0) | FULLWORD | 4 | SJS_JVMSEVER_SYS_WAITED | No. waited on sys thrd |
| (A4) | BITSTRING | 8 | SJS_JVMSEVER_SYS_WAITED_TIME | Total time waited |
| (AC) | FULLWORD | 4 | SJS_JVMSEVER_SYS_WAIT_CUR | No. waiting on sys thrd |
| (B0) | FULLWORD | 4 | SJS_JVMSEVER_SYS_WAIT_HWM | Peak waiting on sys thrd |
| (B4) | BITSTRING | 8 | SJS_JVMSEVER_JVM_CREATION_GMT | JVM creation time GMT |
| (BC) | BITSTRING | 8 | SJS_JVMSEVER_JVM_CREATION_LCL | JVM creation LOCAL |
| Heap stats | | | | |
| (C4) | BITSTRING | 4 | | Reserved |
| (C8) | BITSTRING | 8 | SJS_JVMSEVER_CURRENT_HEAP | Current heap |

Table 509. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|-------------------------------|--|
| (D0) | BITSTRING | 8 | SJS_JVMSEVER_INITIAL_HEAP | Initial heap |
| (D8) | BITSTRING | 8 | SJS_JVMSEVER_MAX_HEAP | Max heap |
| (E0) | BITSTRING | 8 | SJS_JVMSEVER_PEAK_HEAP | Peak heap |
| (E8) | BITSTRING | 8 | SJS_JVMSEVER_OCCUPANCY | Heap Occupancy |
| Garbage collection related stats | | | | |
| (F0) | CHARACTER | 32 | SJS_JVMSEVER_GC_POLICY | GC Policy |
| Major collections | | | | |
| (110) | FULLWORD | 4 | SJS_JVMSEVER_MJR_GC_EVENTS | No. major GC collections |
| (114) | BITSTRING | 4 | | Reserved |
| (118) | BITSTRING | 8 | SJS_JVMSEVER_MJR_GC_CPU | Elapsed time in major GC |
| (120) | BITSTRING | 8 | SJS_JVMSEVER_MJR_HEAP_FREED | Storage freed by GC |
| Minor collections (gencon only) | | | | |
| (128) | FULLWORD | 4 | SJS_JVMSEVER_MNR_GC_EVENTS | No. minor collections |
| (12C) | BITSTRING | 4 | | |
| (130) | BITSTRING | 8 | SJS_JVMSEVER_MNR_GC_CPU | Elapsed time in minor GC |
| (138) | BITSTRING | 8 | SJS_JVMSEVER_MNR_HEAP_FREED | Storage freed by GC |
| (138) | | 0 | SJSDS_END | "*" |
| (138) | | 0 | SJSDS_LENGTH | "*-SJSDS_LEN" JVMSEVER record length |
| Constants that denote an SJ JVMSEVER stats record | | | | |
| (138) | .111 .1.. | | SJSIDR | "116" JVMSEVER resid stats id |
| (138) |1 | | SJS_VERS | "X'01" Record version number Change Agents |
| (138) |1 | | SJS_CSDAPI_CHANGE | "0001" CSD API |
| (138) |1. | | SJS_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (138) |11 | | SJS_DREPAPI_CHANGE | "0003" DREP API |
| (138) |1.. | | SJS_CREATE_CHANGE | "0004" EXEC CREATE SPI Install Agents |
| (138) |1 | | SJS_CSDAPI_INSTALL | "0001" CSD API |
| (138) |1.. | | SJS_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (138) |1.1 | | SJS_GRPLIST_INSTALL | "0005" GRPLIST |
| (138) | 1..1 | | SJS_BUNDLE_INSTALL | "0009" BUNDLE |
| (138) |1 | | SJS_JVMSEVER_STATE_DISABLED | "01" |
| (138) |1. | | SJS_JVMSEVER_STATE_ENABLED | "02" |
| (138) |11 | | SJS_JVMSEVER_STATE_DISCARDING | "03" |

Table 509. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------------|-------------|
| (138) |1.. | | SJS_JVMSEVER_STATE_ DISABLING | "04" |
| (138) |1.1 | | SJS_JVMSEVER_STATE_ ENABLING | "05" |

SKRQ - Subtask management parameter block

Table 510.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 0 | DFHSKRQ | , |

FUNCTION =

The Subtask Management Parameter Block (SKRQ) is the parameter list for the subtask management module.

Table 511.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|------------|-----|------------|--------------------------------|
| (0) | BITSTRING | 1 | SKRQTR | V*1 FUNCTION REQUEST BYTE |
| REQUEST TYPE VALUES | | | | |
| (0) |1 | | SKRQPER | "X'01'" PERFORM |
| (0) |1. | | SKRQWAIT | "X'02'" WAIT |
| (0) |11 | | SKRQRET | "X'03'" RETURN |
| (0) |1.. | | SKRQTER | "X'04'" TERMINATE |
| (0) |1.1 | | SKRQDWE | "X'05'" DWE TO BE PROCESSED |
| (1) | BITSTRING | 1 | SKRQRM | V*2 REQUEST MODIFIER |
| BITS DEFINED FOR REQUEST MODIFIER | | | | |
| (1) |1 | | SKRQAY | "X'01'" AUTH=YES SPECIFIED |
| (1) |1. | | SKRQCI | "X'02'" CLASS=I/O SPECIFIED |
| (1) |1.. | | SKRQSS | "X'04'" SAVAREA SPECIFIED |
| (1) | 1... | | SKRQSY | "X'08'" SYNC=YES SPECIFIED |
| (2) | BITSTRING | 1 | | V*3 RESERVED |
| (3) | BITSTRING | 1 | SKRQRC | V*4 RESPONSE CODE |
| RESPONSE CODE VALUES | | | | |
| (3) | .... .... |  | SKRQNORM | "0" NORMAL RESPONSE |
| (3) |1.. | | SKRQUCF | "4" USER CODE FAILED |
| (3) | 1... | | SKRQSCF | "8" SUBTASK CODE FAILED |
| (3) | 11.. | | SKRQUPR | "12" UNABLE TO PERFORM REQUEST |

Table 511. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------|------------|-----|------------|-----------------------------------|
| (3) | ...1 | | SKRQRNC | "16" REQUEST NEVER COMPLETED |
| (3) | ...1 .1.. | | SKRQINV | "20" INVALID REQUEST |
| (3) | ...1 1... | | SKRQIES | "24" INVALID ECB ADDRESS SUPPLIED |
| (3) | ...1 11.. | | SKRQTWC | "28" USER TASK WAS CANCELLED |
| SUBTASK IDENTIFIERS | | | | |
| (3) |1 | | SKSUBXX1 | "1" GENERAL SUBTASK/FALLBACK |
| (3) |1. | | SKSUBFS1 | "2" FILE CONTROL/SECURITY SUBTASK |
| (3) |11 | | SKSUBSP1 | "3" SPOOLER SUBTASK NUMBER 1 |
| (3) |1.. | | SKSUBSP2 | "4" SPOOLER SUBTASK NUMBER 2 |
| (4) | ADDRESS | 4 | SKRQRTN | ADDRESS OF ROUTINE TO EXECUTE |
| (8) | FULLWORD | 4 | SKRQPARM | ADDRESS OF PARM FIELD |
| (C) | ADDRESS | 4 | SKRQECBA | ADDRESS OF ECB |
| (10) | ADDRESS | 4 | SKRQTACB | ADDRESS OF TACB SLOT |
| (14) | ADDRESS | 4 | SKRQSUBI | ADDRESS OF SUBTASK ID FIELD |
| (18) | ADDRESS | 4 | SKRQPRTY | ADDRESS OF PRIORITY HALFWORD |
| (18) | ...1 11.. | | SKRQSIZE | "*-DFHSKRQ" SIZE IN BYTES |

SKA - SKP subtask control area

CONTROL BLOCK NAME = DFHSKAPS

DESCRIPTIVE NAME = CICS TS (SKP) Subtask Control Area.

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FUNCTION =

Describe 'per-subtask' storage definition.

DFHSKAPS belong to the General Purpose Subtasking facility of CICS.

Each instance of this control block describes the state of one subtask.

LIFETIME =

That of CICS static storage.

STORAGE CLASS = CICS static storage.

LOCATION =

Located in the static storage for module DFHSKP.

INNER CONTROL BLOCKS = None.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None.

MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = None.
 SUBTASK CONTROL AREA

Table 512.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 176 | DFHSKAPS | Subtask control area |
| SKASKENA contains the entry point of DFHSKE - the subtask executor. This field must remain at the start of DFHSKAPS. It is set by SKC and referenced by SIP on MVS, and by SKC on DOS. | | | | |
| (0) | ADDRESS | 4 | SKASKENA | DFHSKENA entry point |
| SKASTGP contains the address of automatic storage to be used by SKE. | | | | |
| (4) | ADDRESS | 4 | SKASTGP | add of subtask auto storage |
| SKAQUES contain the WQE queues for the subtask. SKAWORKQ contains WQEs as yet unprocessed by the subtask. SKAPROGQ contains WQEs currently being processed. SKAWAITQ contains WQEs that have issued a DFHSK CTYPE= WAIT macro. | | | | |
| (8) | CHARACTER | 12 | SKAQUES | WQE queues for subtask |
| (8) | ADDRESS | 4 | SKAWORKQ | work |
| (C) | ADDRESS | 4 | SKAPROGQ | in_progress |
| (10) | ADDRESS | 4 | SKAWAITQ | waiting |
| SKAINWQE contains the address of the WQE currently being processed by SKE. | | | | |
| (14) | ADDRESS | 4 | SKAINWQE | WQE being processed |
| SKAEWRK is the work ECB for the subtask. It is posted by SKM when it adds a WQE onto the work queue. When SKE has no work to do, it waits on this ECB. | | | | |
| (18) | UNSIGNED | 4 | SKAEWRK | work ECB for subtask |
| SKASCOMP is the subtask completion ECB. It is waited on by SKC, and is posted by the operating system when the subtask terminates. | | | | |
| (1C) | CHARACTER | 4 | SKASCOMP | subtask completion ECB |
| SKADTECB is posted by SKC when either it DETACHes the subtask(MVS) or the subtask DETACHes itself(DOS). SKM, processing a DFHSK CTYPE=TERMINATE waits for subtasks to go away, before allowing DFHSTP to continue. | | | | |
| (20) | UNSIGNED | 4 | SKADTECB | MVS DETACH issued for subtask |
| SKAINECB is an ECB that is posted by the subtask to indicate it has been attached. SKC waits for this to be posted before assuming the subtask is running. | | | | |
| (24) | UNSIGNED | 4 | SKAINECB | ECB for sub initialisation |
| SKASRETC contains the completion code of the subtask and is used to indicate to SKC the type of completion. | | | | |
| (28) | UNSIGNED | 1 | SKASRETC | subtask completion code |

Table 512. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|----------------------------|
| SKAESFCD contains the completion code of an ESTAE or STXIT AB macro if not zero. SKC examines this field and outputs it in a message if the exit macro failed in the subtask. | | | | |
| (29) | UNSIGNED | 1 | SKAESFCD | ESTAE/STXIT failure code |
| SKAFAILS is a count of failures that occur when SKE code is executing (not SK exit code). It is set and referenced by SKE. | | | | |
| (2A) | HALFWORD | 2 | SKAFAIL | count of our code failures |
| SKAFLAG1 IS A FLAG BYTE. UPDATED BY DFHSC ONLY | | | | |
| (2C) | BIT(8) | 1 | SKAFLAG1 | flags - TRUE means.. |
| SKAFLAG1 HAS BEEN SPLIT OVER FLAG1,2 AND 3 TO OVERCOME MULTIPLE PROCESSORS UPDATING SHARED STORAGE CONCURRENTLY. Following 5 flags are spare. | | | | |
| (2C) | 1... | | * | moved to FLAG2 |
| deleted by APAR deleted by APAR | | | | |
| (2C) | .1.. | | * | moved to FLAG2 |
| deleted by APAR deleted by APAR deleted by APAR | | | | |
| (2C) | ..1. | | * | moved to FLAG2 |
| deleted by APAR deleted by APAR | | | | |
| (2C) | ...1 | | * | moved to FLAG3 |
| ----- deleted by APAR FOLLOWING FLAG IS SPARE. deleted by APAR | | | | |
| (2C) | 1... | | * | reserved |
| SKASINIT indicates that this subtask has been initialised and is running. | | | | |
| (2C) |1.. | | SKASINIT | subtask is initialised |
| deleted by APAR Following flag is spare. | | | | |
| (2C) |1. | | * | moved to FLAG2 |
| SKASDEAD indicates the subtask has encountered an error preventing further execution. It is set by SKC and referenced by SKM. | | | | |
| (2C) |1 | | SKASDEAD | subtask is dead |
| SKAFLAG2 IS A FLAG BYTE UPDATED BY DFHSE ONLY | | | | |
| (2D) | BIT(8) | 1 | SKAFLAG2 | FLAGS - TRUE MEANS.. |
| SKARGPSW indicates the presence of the regs and PSW at the time of failure in DFHSKAPS. It is set by the SKE exit code, and tested thereafter in SKE mainline code. | | | | |
| (2D) | 1... | | SKARGPSW | regs&psw are in SKA |
| SKAABCP indicates the presence of the operating system abend code in DFHSKAPS. | | | | |

Table 512. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------------------|-----------------------------|
| (2D) | .1.. | | SKAABCP | abend code is in SKA |
| SKARUNNG is set by SKE on entry, and turned off on exit from SKE. SKC references this field to see if the subtask was running when it terminated. | | | | |
| (2D) | ..1. | | SKARUNNG | subtask running |
| Following 3 flags are spare. | | | | |
| (2D) | ...1 11.. | | * | spare flags |
| SKAUSCOD indicates this subtask is currently executing an SK exit routine. | | | | |
| (2D) |1. | | SKAUSCOD | user code in progress |
| Following flag is spare. | | | | |
| (2D) |1 | | * | spare flag |
| SKAFLAG3 IS A FLAG BYTE UPDATED BY DFHSM ONLY | | | | |
| (2E) | BIT(8) | 1 | SKAFLAG3 | FLAGS - TRUE MEANS.. |
| Following 3 flags are spare. | | | | |
| (2E) | 111. | | * | spare flags |
| SKAQUIES is set by SKM to indicate that the subtask should terminate processing. | | | | |
| (2E) | ...1 | | SKAQUIES | quiesce requested |
| Following 4 flags are spare. | | | | |
| (2E) | 1111 | | * | spare flags |
| SKAMWLST is a list of pointers used for an operating system multiple wait. It is used by DFHSKE. On MVS the list is terminated by the top bit in the last ECB ptr being on, and on DOS the byte after the last ECB ptr is non-zero ('FF'X). | | | | |
| (30) | ADDRESS | 4 | SKAMWLST (4294967302:341920944) | multiple WAIT list |
| (30) | CHARACTER | 1 | SKAMFB | first byte of each address |
| (30) | 1... | | SKAMEOL | first bit thereof |
| SKASAV13 is set by SKE on entry to point to the MVS save area. | | | | |
| (48) | UNSIGNED | 4 | SKASAV13 | ADDR(MVS save area) |
| SKAPICA is an MVS Program Interrupt Control Area used by SKE. | | | | |
| (4C) | UNSIGNED | 4 | SKAPICA (4294967300:341913600) | subtask MVS PICA (ESPIE) |
| SKAABC contains the operating system abend code, and is used by SKE. An existence bit is in SKAFLAG1. | | | | |
| (5C) | CHARACTER | 4 | SKAABC | operating system abend code |
| SKAPSAV contains the registers at time of failure, and is used by SKE. An existence bit is in SKAFLAG1. | | | | |
| (60) | CHARACTER | 64 | SKAPSAV | program check save area |
| (60) | FULLWORD | 4 | *(4294967312:341913600) | registers |
| SKAPSW contains the PSW at time of failure, and is used by SKE. An existence bit is in SKAFLAG1. | | | | |

Table 512. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---------------------------|
| (A0) | CHARACTER | 8 | SKAPSW | EC mode program check PSW |
| SKAINT contains extran interrupt information, and is used by SKE. | | | | |
| (A8) | CHARACTER | 8 | SKAINT | interrupt information |
| (A8) | HALFWORD | 2 | SKAINTL | instruction length |
| (AA) | HALFWORD | 2 | SKAINTC | instruction code |
| (B0) | CHARACTER | 0 | SKAEND | end of DFHSKAPS |

SKW - SKP work queue element

CONTROL BLOCK NAME = DFHSKWPS
 DESCRIPTIVE NAME = CICS TS (SKP) Work Queue Element (WQE)
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 FUNCTION = PLS structure describing WQE.
 This structure is used by the CICS General Purpose Subtasking mechanism.
 Each instance of this control block represents a piece of work to be performed (usually by a subtask).
 One instance of the WQE is created per DFHSK PERFORM macro invocation.
 LIFETIME = Space for WQEs is allocated in DFHSKP static storage.
 Further WQEs as necessary are obtained during CICS execution.
 The WQEs are freed at CICS termination.
 STORAGE CLASS =
 Static initially, and subsequent WQEs are obtained in SHARED storage.
 LOCATION =
 WQEs reside on queues controlled by the Subtask Manager(SKM) and the subtask executor(SKE). The queues are anchored from static storage (nb CICS STATIC STORAGE) belonging to SKP.
 INNER CONTROL BLOCKS =
 None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = None.

WORK QUEUE ELEMENT

Table 513.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--------------------------|
| (0) | STRUCTURE | 100 | DFHSKWPS | Work Queue Element (WQE) |
| SKWCHAIN - contains the address of the next WQE in chain | | | | |
| (0) | ADDRESS | 4 | SKWCHAIN | chain to next WQE |
| SKWUPARM - contains the contents of the PARM field specified in the DFHSK CTYPE=PERFORM macro. | | | | |

Table 513. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|-------------------------------|
| (4) | ADDRESS | 4 | SKWUPARM | PARM specified on SK wait |
| SKWUCADD - contains the address of SK EXIT routine - the label specified in the ROUTINE keyword on the SK CTYPE=PERFORM macro. | | | | |
| (8) | ADDRESS | 4 | SKWUCADD | user code address to execute |
| SKWSREGS - used by to save the registers before branching to the SK EXIT routine by SKM (synchronous) and SKE (asynchronous) | | | | |
| (C) | CHARACTER | 64 | SKWSREGS | SKM/SKE register save area |
| SKWCECB - this is the ECB used to communicate between SKM and SKE. SKM waits on it when the WQE has been put onto a subtask work queue. SKE posts it when the WQE has been processed. | | | | |
| (4C) | UNSIGNED | 4 | SKWCECB | CICS work complete ECB |
| SKWOECB - this contains the address of the ECB specified on the SK CTYPE=WAIT macro issued by the SK EXIT routine. | | | | |
| (50) | ADDRESS | 4 | SKWOECBA | ptr to ECB for SK WAIT |
| SKWOABC - contains the operating system abend code when the abend exit was entered in SKE. | | | | |
| (54) | UNSIGNED | 4 | SKWOABC | operating system abend code |
| SKWOABSP - contains the address of a piece of operating system storage obtained by SKE to hold info about a program check or abend. Its contents are copied to a TACB by SKM. | | | | |
| (58) | ADDRESS | 4 | SKWOABSP | ptr to os abend storage |
| SKWESAVE - contains the address of the save area specified by the SK EXIT routine when it issued an SK CTYPE=WAIT macro. | | | | |
| (5C) | ADDRESS | 4 | SKWESAVE | A(save area for sk exit regs) |
| SKWFLAGS - flag byte | | | | |
| (60) | BIT(8) | 1 | SKWFLAGS | flags - TRUE means.. |
| SKWTCANC - set by SKM when the CICS task it is running on behalf of has been purged. SKE ceases to process the WQE when it notices this set. | | | | |
| (60) | 1... | | SKWTCANC | CICS task has been cancelled |
| SKWFABST - set by SKM to indicate that the storage containing regs and PSW at time of failure can be freed by SKE when it next sees the WQE | | | | |
| (60) | .1.. | | SKWFABST | os abend stg requires freeing |
| SKWWAIT - set by SKE to indicate this the SK EXIT has requested SKE waits on an ECB. | | | | |
| (60) | ..1. | | SKWWAIT | WQE is on WAIT queue |
| SKWTACBE - indicates presence of operating storage containing regs and PSW at time of error. | | | | |
| (60) | ...1 | | SKWTACBE | TACB is chained (in os stg) |
| SKWRC - return code from execution of WQE by SKE to SKM | | | | |

Table 513. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------|
| (61) | UNSIGNED | 1 | SKWRC | return code |
| (62) | CHARACTER | 2 | * | fullword alignment |

SLDC - System logical device code table

CONTROL BLOCK NAME = DFHSLDC
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS System Logical Device Code Table.

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FUNCTION =

The Logical Device Code (LDC) structure is the mechanism used by CICS to identify the output message destination in an SNA environment. The SLDC table is generated by the DFHTCT TYPE=LDC macro instruction. It contains an entry for each LDC mnemonic used by the system. The logical page size, page disposition and terminal type are used by BMS to control the format of the output message.

Table 514.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHSLDC | |
| (0) | CHARACTER | 2 | SLDCMN | LDC MNEMONIC |
| (2) | BITSTRING | 1 | SLDCCD | LOGICAL DEVICE CODE |
| (3) | BITSTRING | 1 | SLDCTM | TERMINAL MODEL (MEDIA)... |
| 3601 | | | | |
| (3) | ...1 ...1 | | SLD3604 | "X'11" KEYBOARD DISPLAY |
| (3) | ...1 .111 | | SLD3610 | "X'17" DOCUMENT PRINTER |
| (3) | ...1 1..1 | | SLD3612 | "X'19" PASSBOOK & DOCUMENT PRINTER |
| (3) | ..1. | | SLD3618 | "X'20" ADMINISTRATIVE LINE PRINTER |
| (3) | ..1. ...1 | | SLD3618P | "X'21" LINE PRINTER PRIMARY CARRIAGE |
| (3) | ..1. ..1. | | SLD3618S | "X'22" LINE PRINTER SECONDARY CARRIAGE |
| (3) | ..1. ..11 | | SLD3618B | "X'23" LINE PRINTER BOTH CARRIAGES |
| (3) | .... .... |  | SLDCBLCO | "X'00" CONSOLE (DEFAULT IF NO LDC) |
| (3) | ...1 | | SLDCBLD1 | "X'10" DISK 1 |
| (3) | ...1 ...1 | | SLDCBLD2 | "X'11" DISK 2 |
| (3) | ..1. | | SLDCBLR1 | "X'20" READER (INPUT ONLY) |

Table 514. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------|-----------|-----|------------|------------------------------------|
| (3) | ..1. | | SLDCBLH1 | "X'20'" PUNCH (OUTPUT ONLY) |
| (3) | ..11 | | SLDCBLP1 | "X'30'" PRINTER (OUTPUT ONLY) |
| (3) | 1... | | SLDCWPM1 | "X'80'" WORD PROCESSING MEDIUM 1 |
| (3) | 1..1 | | SLDCWPM2 | "X'90'" WORD PROCESSING MEDIUM 2 |
| (3) | 1.1. | | SLDCWPM3 | "X'A0'" WORD PROCESSING MEDIUM 3 |
| (3) | 11.. | | SLDCWPM4 | "X'C0'" WORD PROCESSING MEDIUM 4 |
| (4) | ADDRESS | 1 | SLDCROW | NUMBER OF DISPLAY ROWS |
| (5) | ADDRESS | 1 | SLDCCLM | NUMBER OF DISPLAY COLUMNS |
| (6) | BITSTRING | 1 | SLDCSTAT | LDC STATUS BYTE |
| (6) | 1... | | SLDCSPGP | "X'80'" PAGE STATUS |
| (7) | CHARACTER | 8 | SLDCDSN | DESTINATION NAME |
| (F) | BITSTRING | 1 | SLDCDSP | DATA STREAM PROFILE ... |
| (F) | .... .... |  | SLDCPDEF | "X'00'" DEFAULT PROFILE |
| (F) |1 | | SLDCPBS | "X'01'" BASE PROFILE |
| (F) |11 | | SLDCPJOB | "X'03'" JOB PROFILE |
| (F) |1.. | | SLDCPRAW | "X'04'" WP RAW PROFILE |
| (F) |11. | | SLDCPOI1 | "X'06'" OII LEVEL 1 |
| (F) |111 | | SLDCPOI2 | "X'07'" OII LEVEL 2 |
| (F) | 1... | | SLDCPOI3 | "X'08'" OII LEVEL 3 |
| Other values are reserved | | | | |
| (F) | ...1 | | SLDCEND | "X'15'" END OF SYSTEM LDC ENTRY |
| (F) | ...1 | | SLDCLEN | "X'16'" LENGTH OF SYSTEM LDC ENTRY |

SMD - domain subpool storage statistics

CONTROL BLOCK NAME = DFHSMDDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSMGPS
DESCRIPTIVE NAME = CICS TS Storage statistics for domain subpools.
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FUNCTION = This DSECT describes the Domain subpool statistics provided by the storage manager.
It is provided for use in users monitoring applications to map the statistics returned via the statistics exit or SMF.
An instance of this data area may represent the

statistics for any one of the domain subpools.
There is a single instance of this data block.
LIFETIME = This data block is created by the storage manager to hold domain subpool statistics. It is released when the request for statistics has been satisfied.
LOCATION = Caller is passed a pointer to the head of the block.
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS From storage manager domain.
GLOBAL VARIABLES (Macro pass) = None

Table 515.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|----------------------------------|
| (0) | STRUCTURE | 0 | DFHSMDDS | Domain subpool statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | SMDLEN | Length of data area |
| (0) | ...1 ..11 | | SMDIDE | "19" Domain subpool id mask |
| (2) | ADDRESS | 2 | SMDID | Domain subpool stats id |
| (2) |1 | | SMDVERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | SMDDVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | SMDSPN | Subpool name |
| (10) | CHARACTER | 8 | SMDDSANAME | DSA name |
| (18) | BITSTRING | 1 | SMDETYPE | Element type (fixed/variable?) |
| (19) | CHARACTER | 3 | | Reserved |
| (1C) | FULLWORD | 4 | SMDFLEN | Length (if fixed) |
| (20) | BITSTRING | 1 | SMDELCHN | Element chaining (yes/no?) |
| (21) | CHARACTER | 3 | | Reserved |
| (24) | FULLWORD | 4 | SMDBNDRY | Boundary |
| (28) | BITSTRING | 1 | SMDLOCN | Above/below 16 meg line |
| (29) | BITSTRING | 1 | SMDACCESS | Access |
| (2A) | BITSTRING | 1 | SMDDSAINDEX | DSA index |
| (2B) | CHARACTER | 1 | | Reserved |
| (2C) | FULLWORD | 4 | SMDIFREE | Initial free value |
| (30) | FULLWORD | 4 | SMDGMREQ | Number of Getmain reqs |
| (34) | FULLWORD | 4 | SMDFMREQ | Number of Freemain reqs |
| (38) | FULLWORD | 4 | SMDCES | Sum of all element lengths |
| (3C) | FULLWORD | 4 | SMDCPS | Current page storage |
| (40) | FULLWORD | 4 | SMDCELEM | Current number of elements |

Table 515. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------------|------------|-----|-------------|------------------------------|
| (44) | FULLWORD | 4 | SMDHWMP5 | High Water Mark Page Storage |
| (48) | FULLWORD | 4 | | Reserved |
| (4C) | FULLWORD | 4 | | Reserved |
| (4C) | .1.1 | | SMDEND | "1g1" |
| (4C) | .1.1 | | SMDCLN | "*-SMDLEN" Length of DSECT |
| Equates for testing SMDETYPE. | | | | |
| (4C) |1 | | SMDFIXED | "1" |
| (4C) |1. | | SMDVARIABLE | "2" |
| Equates for testing SMDLOCN. | | | | |
| (4C) |1 | | SMDBELOW | "1" |
| (4C) |1. | | SMDABOVE | "2" |
| (4C) |11 | | SMDABOVEBAR | "3" |
| Equates for testing SMDACCESS. | | | | |
| (4C) |1 | | SMDCICS | "1" |
| (4C) |1. | | SMDUSER | "2" |
| (4C) |11 | | SMDREADONLY | "3" |
| (4C) |1.. | | SMDTRUSTED | "4" |
| Equates for testing SMDDSAINDEX. | | | | |
| (4C) |1 | | SMDCDSA | "1" |
| (4C) |11 | | SMDSDSA | "3" |
| (4C) |1.. | | SMDRDSA | "4" |
| (4C) | 1..1 | | SMDECDSA | "9" |
| (4C) | 1.11 | | SMDESDSA | "11" |
| (4C) | 11.. | | SMDERDSA | "12" |
| (4C) | 11.1 | | SMDETDSA | "13" |
| (4C) | ...1 ...1 | | SMDGCDSA | "17" |
| (4C) | ...1 ..11 | | SMDGSDSA | "19" |

SMF - SMF header and SMF product section

CONTROL BLOCK NAME = DFHSMFDS
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS SMF Header and SMF Product Section
 DSECT for the SMF 110 records written by Journaling,
 Monitoring, and Statistics.
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1988, 2005
 FUNCTION =
 This DSECT describes the various formats of the SMF Header
 and SMF Product Section for the SMF 110 records written
 by CICS to SMF. These SMF records are created by Journaling,
 Monitoring, and Statistics and read by the CICS monitoring

```

sample program DFH$MOLS and the statistics utility program
DFHSTUP.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
INNER CONTROL BLOCKS = None
NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS = None
  MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = None
  DATA AREAS = None
  CONTROL BLOCKS = None
  GLOBAL VARIABLES (Macro pass) = None
-----
time & user ID in SMF

```

Table 516.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHSMFDS | |
| (0) | BITSTRING | 2 | SMFLEN | Record length |
| (2) | BITSTRING | 2 | SMFSEG | Segment descriptor |
| (4) | BITSTRING | 1 | SMFFLG | Operating system indicator |
| (4) | 11.. | | SMFESA | "X'C0'" MVS/ESA fixed indicators |
| (5) | BITSTRING | 1 | SMFRTY | Record type 110 for CICS |
| (6) | BITSTRING | 4 | SMFTME | Time record moved |
| (A) | BITSTRING | 4 | SMFDTE | Date record moved (0CYYDDD+) |
| (E) | BITSTRING | 4 | SMFSID | System identification |
| (12) | CHARACTER | 4 | SMFSSI | Sub-system identification |
| (16) | BITSTRING | 2 | SMFSTY | Record subtype |
| (16) | .... .... |  | SMFJCSTY | "X'0000'" - X'0000' For journaling |
| (16) |1 | | SMFMNSTY | "X'0001'" - X'0001' For monitoring |
| (16) |1. | | SMFSTSTY | "X'0002'" - X'0002' For statistics |
| (16) |11 | | SMFXQSTY | "X'0003'" - X'0003' For TS datasharing |
| (16) |1.. | | SMFCFSTY | "X'0004'" - X'0004' For CFDT server stats |
| (16) |1.1 | | SMFNCSTY | "X'0005'" - X'0005' For named ctr server |
| (18) | BITSTRING | 2 | SMFTRN | Number of triplets in record |
| (1A) | BITSTRING | 2 | | Reserved |
| (1C) | BITSTRING | 4 | SMFAPS | Offset to CICS product section |
| (20) | BITSTRING | 2 | SMFLPS | Length of CICS product section |

Table 516. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (22) | BITSTRING | 2 | SMFNPS | Number of CICS product sections |
| (24) | BITSTRING | 4 | SMFASS | Offset to CICS data section |
| (28) | BITSTRING | 2 | SMFASL | Length of CICS data section |
| (2A) | BITSTRING | 2 | SMFASN | Number of CICS data sections |
| End of SMF-Header. Start of JC SMF Product-section. | | | | |
| (2C) | BITSTRING | 2 | SMFPSRVN | Record version format x'0vrm' v = version r = release m = modification |
| (2E) | CHARACTER | 8 | SMFPSPRN | Product name (Generic APPLID) |
| (36) | CHARACTER | 8 | SMFPSSPN | Specific APPLID |
| (3E) | BITSTRING | 2 | SMFPSMFL | Record maintenance indicator |
| (40) | BITSTRING | 2 | | Reserved |
| The JC SMF Product-section fields SMFPSRSN, SMFPSJID, SMFPSBKN, SMFPSLBW and SMFPSBAL apply to CICS/ESA Version 4.1 and previous CICS/ESA Version 3.x releases. The JC SMF Product-section field SMFPSJNM is applicable from CICS/ESA Version 5.1. | | | | |
| (42) | | 4 | SMFPSRSN | Record-number within Journal |
| (46) | BITSTRING | 1 | SMFPSJID | Journal identifier |
| (47) | | 3 | SMFPSBKN | Record-number within Data Set |
| (4A) | BITSTRING | 4 | SMFPSLBW | Last-record address (Format is TTR0 under MVS) |
| (4E) | ADDRESS | 2 | SMFPSBAL | Track balance in BYTES |
| (50) | BITSTRING | 38 | | Reserved |
| (76) | CHARACTER | 8 | SMFPSJNM | Journal Name |
| (7E) | CHARACTER | 8 | SMFPSJBN | Jobname |
| (86) | BITSTRING | 4 | SMFPSRSD | Job date |
| (8A) | BITSTRING | 4 | SMFPSRST | Job time |
| (8E) | CHARACTER | 8 | SMFPSUIF | User identification |
| (96) | CHARACTER | 8 | SMFPSPDN | Operating system product level |
| (96) | 1..1 111. | | SMFJCIDA | 11g11 |
| End of JC SMF Product-section. Start of MN SMF Product-section. | | | | |
| (2C) | BITSTRING | 2 | SMFMNRVN | Record version format x'0vrm' v = version r = release m = modification |
| (2E) | CHARACTER | 8 | SMFMNPRN | Product name (Generic APPLID) |
| (36) | CHARACTER | 8 | SMFMNSPN | Specific APPLID |

Table 516. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (3E) | BITSTRING | 2 | SMFMNMFL | Record maintenance indicator |
| (40) | BITSTRING | 2 | | Reserved |
| (42) | BITSTRING | 2 | SMFMNCL | Class of data |
| (44) | BITSTRING | 4 | SMFMNDCA | Offset to CICS field connectors |
| (48) | BITSTRING | 2 | SMFMNDCL | Length of each CICS field connector |
| (4A) | BITSTRING | 2 | SMFMNDCN | Number of CICS field connectors |
| (4C) | BITSTRING | 4 | SMFMNDRA | Offset to first CICS Data record |
| (50) | BITSTRING | 2 | SMFMNDRL | Length of each CICS Data record |
| (52) | BITSTRING | 2 | SMFMNDRN | Number of CICS Data records |
| (54) | BITSTRING | 18 | | Reserved |
| (66) | BITSTRING | 2 | SMFMNCRL | Compressed record length |
| (68) | BITSTRING | 4 | SMFMNTAD | Local TOD clock adjustment |
| (6C) | BITSTRING | 8 | SMFMNLSO | Leap Second Offset TOD format |
| (74) | BITSTRING | 8 | SMFMNDTO | Local Time/Date Offset |
| (7C) | BITSTRING | 1 | | Reserved |
| (7D) | BITSTRING | 1 | SMFMNOPN | Monitoring Options |
| (7D) | 1... | | SMFMNAPL | "X'80'" ... APPLNAME=YES |
| (7D) | .1.. | | SMFMNRMI | "X'40'" ... RMI=YES |
| (7D) | ..1. | | SMFMNCOMP | "X'20'" ... COMPRESS=YES |
| (7E) | CHARACTER | 8 | SMFMNJBN | Jobname |
| (86) | BITSTRING | 4 | SMFMNRSD | Job date |
| (8A) | BITSTRING | 4 | SMFMNRST | Job time |
| (8E) | CHARACTER | 8 | SMFMNUIF | User identification |
| (96) | CHARACTER | 8 | SMFMNPDN | Operating system product level |
| (96) | 1..1 111. | | SMFMNIDA | "11" |
| End of MN SMF Product-section. Start of ST SMF Product-section. Statistics produced by the TS datasharing server (XQ), CFDT server (CF) and named counter server (NC) use the same layout, but the server type (DFHXQ, DFHCF or DFHNC) and pool name are stored instead of the APPLIDs. | | | | |
| (2C) | BITSTRING | 2 | SMFSTRVN | Record version format x'0vrm' v = version r = release m = modification |
| (2E) | CHARACTER | 8 | SMFSTPRN | Product name (Generic APPLID) |

Table 516. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------------|-----------|-----|------------|---------------------------------|
| (36) | CHARACTER | 8 | SMFSTSPN | Specific APPLID |
| (3E) | BITSTRING | 2 | SMFSTMFL | Record maintenance indicator |
| (40) | BITSTRING | 2 | | Reserved |
| (42) | BITSTRING | 2 | | Reserved |
| (44) | BITSTRING | 4 | SMFSTDTK | Domain token |
| (48) | CHARACTER | 2 | SMFSTDID | Domain ID |
| (4A) | CHARACTER | 3 | SMFSTRQT | USS/EOD/REQ/INT/RRT Stats type |
| (4D) | CHARACTER | 3 | SMFSTICD | YES if incomplete data recorded |
| (50) | CHARACTER | 8 | SMFSTDAT | Collection date MMDDYYYY |
| (58) | CHARACTER | 6 | SMFSTCLT | Collection time HHMMSS |
| (5E) | CHARACTER | 6 | SMFSTINT | Interval HHMMSS |
| (64) | BITSTRING | 4 | SMFSTINO | Interval NUMBER |
| (68) | BITSTRING | 8 | SMFSTRTK | Request token |
| (70) | CHARACTER | 6 | SMFSTLRT | Last reset time HHMMSS |
| (76) | BITSTRING | 8 | SMFSTCST | CICS start time STCK |
| (7E) | CHARACTER | 8 | SMFSTJBN | Jobname |
| (86) | BITSTRING | 4 | SMFSTRSD | Job date |
| (8A) | BITSTRING | 4 | SMFSTRST | Job time |
| (8E) | CHARACTER | 8 | SMFSTUIF | User identification |
| (96) | CHARACTER | 8 | SMFSTPDN | Operating system product level |
| (96) | 1..1 111. | | SMFSTIDA | ¹¹ §11 |
| End of ST SMF Product-section. | | | | |

SMS - pagepool storage statistics

CONTROL BLOCK NAME = DFHMSDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSMSPS
DESCRIPTIVE NAME = CICS TS Storage statistics for Pagepools and subspaces.
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 1986, 2006
FUNCTION = This DSECT describes the DSA statistics, Storage Manager state data and the subspace statistics provided by the Storage Manager.
It is provided for use in users monitoring applications to map the statistics returned via the statistics exit or SMF.
An instance of this data area may represent the statistics for any of the DSAs.
LIFETIME = This data block is created by the storage manager to hold pagepool statistics, state data and the subspace statistics. It is released when the request for

statistics has been satisfied.
LOCATION = Caller is passed a pointer to the head of the block.
INNER CONTROL BLOCKS = None

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = none

MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None

DATA AREAS = None

CONTROL BLOCKS From storage manager domain.

GLOBAL VARIABLES (Macro pass) = None

Table 517.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHMSMDS | Storage statistics header |
| (0) | FULLWORD | 4 | (0) | Fullword allignment |
| (0) | HALFWORD | 2 | SMSLEN | Length of data area |
| (0) | ...1 11.1 | | SMSIDE | "29" DSA storage stats id mask |
| (2) | ADDRESS | 2 | SMSID | DSA storage stats id |
| (2) | 1..1 | | SMSVERS | "X'01'" DSECT version number mask |
| (4) | CHARACTER | 1 | SMSDVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| (5) | 1... | | SMSHEND | "*" End of Statistics Header |
| (5) | 1... | | SMSHLEN | "*-SMSLEN" Length of Statistics HHeader |

SMSGLEN includes the length of the (standard statistics record hdr of 8 bytes + SMSHDR + SMSSTATS) effectively giving the offset to the first entry in the SMSBODY array.

Table 518.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------|--|
| (0) | STRUCTURE | 0 | SMSGLOBAL | |
| (0) | FULLWORD | 4 | SMSHDR (0) | Storage Mgr Global Stats Header |
| (0) | HALFWORD | 2 | SMSGBLEN | Global stats length |
| (2) | HALFWORD | 2 | SMSNPAGP | Number of Pagepools |
| (4) | BITSTRING | 1 | SMSSTGPROT | State of STGPROT |
| (5) | BITSTRING | 1 | SMSRENTPGM | State of RENTPGM |
| (6) | BITSTRING | 1 | SMSTRANISO | State of TRANISO |
| (7) | BITSTRING | 1 | SMSMEMLIMITSRC | MEMLIMIT Source |
| Storage Manager Stats fields begin here. | | | | |
| (8) | FULLWORD | 4 | SMSSTATS (0) | Storage Mgr Global Stats |
| (8) | FULLWORD | 4 | SMSUSSCUR | Current number of unique subspace users |
| (C) | FULLWORD | 4 | SMSUSSCUM | Cumulative number of unique subspace users |

Table 518. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|---|
| (10) | FULLWORD | 4 | SMSUSSHWM | HWM of unquie subspace users |
| (14) | FULLWORD | 4 | SMSCSSCUR | Current number of common subspace users |
| (18) | FULLWORD | 4 | SMSCSSCUM | Cumulative number of common subspace users |
| (1C) | FULLWORD | 4 | SMSCSSHWM | HWM of common subspace users |
| (20) | FULLWORD | 4 | SMSDSALIMIT | Current DSA limit |
| (24) | FULLWORD | 4 | SMSEDSALIMIT | Current EDSA limit |
| (28) | FULLWORD | 4 | SMSDSATOTAL | Current DSA total |
| (2C) | FULLWORD | 4 | SMSEDSATOTAL | Current EDSA total |
| (30) | FULLWORD | 4 | SMSHWMDSATOTAL | HWM DSA total |
| (34) | FULLWORD | 4 | SMSHWMEDSATOTAL | HWM EDSA total |
| (38) | CHARACTER | 8 | SMSTIMEWAITMVS | total time waiting for MVS storage |
| (40) | FULLWORD | 4 | SMSMVSSTGREQWAITS | number of requests for MVS storage causing wait |
| (44) | FULLWORD | 4 | | Reserved |
| (48) | FULLWORD | 4 | | Reserved |
| (4C) | FULLWORD | 4 | | Reserved |
| (50) | BITSTRING | 8 | SMSMEMLIMIT | MEMLIMIT Size |
| (58) | BITSTRING | 8 | SMSGSTSTORSIZE | GETSTOR request size |
| (60) | BITSTRING | 8 | SMSASACTIVE | Current Address Space addres'ble |
| (68) | BITSTRING | 8 | SMSHWMASACTIVE | HWM Address Space addressable |
| (70) | BITSTRING | 8 | SMSGDSAACTIVE | Current GDSA active |
| (78) | BITSTRING | 8 | SMSHWMGDSAACTIVE | HWM GDSA active |
| (80) | BITSTRING | 8 | SMSGDSAALLOC | Current GDSA allocated |
| (88) | BITSTRING | 8 | SMSHWMGDSAALLOC | HWM GDSA allocated |
| (90) | FULLWORD | 4 | | Reserved |
| (94) | FULLWORD | 4 | | Reserved |
| (98) | BITSTRING | 8 | | Reserved |
| (A0) | BITSTRING | 8 | | Reserved |
| (A8) | BITSTRING | 8 | | Reserved |
| (B0) | BITSTRING | 8 | SMSLVABYTES | Bytes Allocated to Private Memory Objects |
| (B8) | BITSTRING | 8 | SMSLVHBYTES | Bytes Hidden within Private Memory Objects |
| (C0) | BITSTRING | 8 | SMSLVGBYTES | HWM Bytes Usable within Private Memory Objects |

Table 518. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|---|
| (C8) | BITSTRING | 8 | SMSLVNMEMOBJ | Number of Private Memory Objects |
| (D0) | BITSTRING | 8 | | Reserved |
| (D8) | BITSTRING | 8 | SMSFROMGUARDFAIL | Number of FROMGUARD Failures |
| (E0) | BITSTRING | 8 | SMSFROMGUARDFAILSIZE | FROMGUARD Failure Size |
| (E8) | BITSTRING | 8 | | Reserved |
| (F0) | BITSTRING | 8 | SMSLVSHRBYTES | Shared Bytes from Large Memory Objects |
| (F8) | BITSTRING | 8 | SMSLVSHRGBBYTES | HWM Shared Bytes within Large Memory Objects |
| (100) | BITSTRING | 8 | SMSLVSHRNMEMOBJ | Number of Shared Memory Objects |
| (108) | BITSTRING | 8 | | Reserved |
| (110) | BITSTRING | 8 | SMSHVAUXSLOTS | Auxiliary slots to back 64-bit Private Memory Objects |
| (118) | BITSTRING | 8 | SMSHVGAUXSLOTS | HWM Auxiliary slots to back 64-bit Private Memory Objects |
| (120) | BITSTRING | 8 | SMSHVPAGESINREAL | Real Frames to back 64-bit Private Memory Objects |
| (128) | BITSTRING | 8 | SMSHVGPAGESINREAL | HWM Real Frames to back 64-bit Private Memory Objects |
| (130) | BITSTRING | 8 | SMSLARGEMEMOBJ | Number of Large Memory Objects |
| (138) | BITSTRING | 8 | SMSLARGEPPAGESINREAL | Number of Large Pages Backed in Real Storage |
| (140) | BITSTRING | 8 | | Reserved |
| (148) | BITSTRING | 8 | | Reserved |
| (150) | BITSTRING | 8 | | Reserved |
| (158) | BITSTRING | 8 | | Reserved |
| (158) | | 0 | SMSGEND | "*" The end. |
| (158) | | 0 | SMSGLEN | "*-SMSGLOBAL" Length of global area |

Table 519.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---------------------------------|
| (0) | STRUCTURE | 0 | SMSBODY | Storage statistics body |
| (0) | CHARACTER | 8 | SMSDSANAME | DSA name |
| (8) | BITSTRING | 1 | SMSLOCN | Location (below/above/abovebar) |
| (9) | BITSTRING | 1 | SMSACCESS | Access |
| (A) | BITSTRING | 1 | SMSDSAINDEX | DSA index |
| (B) | CHARACTER | 1 | | Reserved |

Table 519. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------|-----------|-----|--------------|---|
| (C) | FULLWORD | 4 | SMSDSASZ | Current size of DSA |
| (10) | FULLWORD | 4 | SMSHWMDASZ | HWM Size of DSA |
| (14) | FULLWORD | 4 | SMSCSIZE | Current cushion size |
| (18) | FULLWORD | 4 | SMSGMREQ | Number of Getmain reqs |
| (1C) | FULLWORD | 4 | SMSFMREQ | Number of Freemain reqs |
| (20) | FULLWORD | 4 | SMSASR | Number of Add-subpool reqs |
| (24) | FULLWORD | 4 | SMSDSR | Number of Del-subpool reqs |
| (28) | FULLWORD | 4 | SMSCRISS | Cond reqs returning insufficient stg |
| (2C) | FULLWORD | 4 | SMSUCSS | Uncond reqs suspended |
| (30) | FULLWORD | 4 | SMSCSS | Curr reqs susp for storage |
| (34) | FULLWORD | 4 | SMSHWMSS | HWM reqs susp for storage |
| (38) | FULLWORD | 4 | SMSPWWS | Number of tasks purged, waiting storage |
| (3C) | FULLWORD | 4 | SMSCREL | Number of cushion releases |
| (40) | FULLWORD | 4 | SMSSES | Times SES occurred |
| (44) | FULLWORD | 4 | | Reserved |
| (48) | DBL WORD | 8 | SMSTSES | Total time SES |
| (50) | FULLWORD | 4 | SMSCSUBP | Current Number of subpools |
| (54) | FULLWORD | 4 | SMSFSTG | Free storage (inc cushion) |
| (58) | FULLWORD | 4 | SMSHWMFSTG | HWM free storage (inc cushion) |
| (5C) | FULLWORD | 4 | SMSLWMFSTG | LWM free storage (inc cushion) |
| (60) | FULLWORD | 4 | SMSLFA | Largest free area in DSA |
| (64) | FULLWORD | 4 | SMSSV | Number of of storage violations |
| (68) | FULLWORD | 4 | SMSEXTS | Current number of extents |
| (6C) | FULLWORD | 4 | SMSEXTSA | Number of extents added |
| (70) | FULLWORD | 4 | SMSEXTSR | Number of extents released |
| (74) | FULLWORD | 4 | | Reserved |
| (78) | FULLWORD | 4 | | Reserved |
| (7C) | FULLWORD | 4 | | Reserved |
| (7C) | 1... | | SMSBEND | "1" |
| (7C) | 1... | | SMSBLEN | "*-SMSBODY" Length of Body |
| Equates for testing SMSSTGPROT. | | | | |
| (7C) | .... .... |  | SMSSTGPROTNA | "0" STGPROT not active |
| (7C) |1 | | SMSSTGPROTA | "1" STGPROT active |
| Equates for testing SMSRENTPGM. | | | | |

Table 519. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------------|------------|-----|----------------|--|
| (7C) | .... .... |  | SMSRENTPGMNP | "0" RENTPGM noprotect |
| (7C) |1 | | SMSRENTPGMP | "1" RENTPGM protect |
| Equates for testing SMSSTRANISO. | | | | |
| (7C) | .... .... |  | SMSTRANISONA | "0" TRANISO not active |
| (7C) |1 | | SMSTRANISOA | "1" TRANISO active |
| Equates for testing SMSMEMLIMITSRC | | | | |
| (7C) |1 | | SMSMEMLSRCSMF | "1" MEMLIMIT Set by SMFPRM _{xx} |
| (7C) |1. | | SMSMEMLSRCJCL | "2" MEMLIMIT Set by JCL |
| (7C) |11 | | SMSMEMLSRCREG | "3" MEMLIMIT Set by JCL Region |
| (7C) |1.. | | SMSMEMLSRCUSI | "4" MEMLIMIT Set by IEFUSI Exit |
| (7C) | 1..1 | | SMSMEMLSRCAUTH | "9" MEMLIMIT Set by AUTHORISED CODE |
| (7C) | 1.1. | | SMSMEMLSRCURG | "10" MEMLIMIT Set by IEFUSI REGION |
| Equates for testing SMSLOCN | | | | |
| (7C) |1 | | SMSBELOW | "1" |
| (7C) |1. | | SMSABOVE | "2" |
| (7C) |11 | | SMSABOVEBAR | "3" |
| Equates for testing SMSACCESS | | | | |
| (7C) |1 | | SMSCICS | "1" |
| (7C) |1. | | SMSUSER | "2" |
| (7C) |11 | | SMSREADONLY | "3" |
| (7C) |1.. | | SMSTRUSTED | "4" |
| Equates for testing SMSDSAINDEX | | | | |
| (7C) |1 | | SMSCDSA | "1" |
| (7C) |1. | | SMSUDSA | "2" |
| (7C) |11 | | SMSSDSA | "3" |
| (7C) |1.. | | SMSRDSA | "4" |
| (7C) | 1..1 | | SMSECDSA | "9" |
| (7C) | 1.1. | | SMSEUDSA | "10" |
| (7C) | 1.11 | | SMSSEDSA | "11" |
| (7C) | 11.. | | SMSERDSA | "12" |
| (7C) | 11.1 | | SMSSETDSA | "13" |
| (7C) | ...1 ...1 | | SMSGCDSA | "17" |
| (7C) | ...1 ..1. | | SMSGUDSA | "18" |
| (7C) | ...1 ..11 | | SMSGSDSA | "19" |

SMT - storage subpool storage statistics

CONTROL BLOCK NAME = DFHSMTDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSMGPS
DESCRIPTIVE NAME = CICS TS Storage statistics for task subpools.
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FUNCTION = This DSECT describes the task subpool statistics provided by the storage manager.
It is provided for use in users monitoring applications to map the statistics returned via the statistics exit or SMF.
An instance of this data area may represent the statistics for either the task subpools above the 16 meg line or those below the 16 meg line.
There is a single instance of this data block.
LIFETIME = This data block is created by the storage manager to hold task subpool statistics. It is released when the request for statistics has been satisfied.
LOCATION = Caller is passed a pointer to the head of the block.
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS From storage manager domain.
GLOBAL VARIABLES (Macro pass) = None

Table 520.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHSMTDS | Task subpool statistics header |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | SMTLEN | Length of data area |
| (0) | ...1 .1.. | | SMTIDE | "20" Task subpool id mask |
| (2) | ADDRESS | 2 | SMTID | Task subpool stats id |
| (2) |1 | | SMTVERS | "X'01'" DSECT version number mask |
| (4) | CHARACTER | 1 | SMTDVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| (5) | 1... | | SMTHEND | "*" End of header |
| (5) | 1... | | SMTHLEN | "*-SMTLEN" Header length |

Table 521.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------|
| (0) | STRUCTURE | 0 | SMTGLOBAL | Global statistics |
| (0) | HALFWORD | 2 | SMTNTASK | No. of task subpools |
| (2) | HALFWORD | 2 | | reserved |
| (2) |1.. | | SMTGEND | "*" The end |

Table 521. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|------------|-------------------------------------|
| (2) | 1.. | | SMTGLEN | "*-SMTGLOBAL" length of global area |

Table 522.

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------------|------------|-----|-------------|----------------------------------|
| (0) | STRUCTURE | 0 | SMTBODY | Task subpool statistics body |
| (0) | CHARACTER | 8 | SMTDSANAME | DSA name |
| (8) | BITSTRING | 1 | SMTLOCN | Location - Above/below the line |
| (9) | BITSTRING | 1 | SMTACCESS | Access - CICS/USER |
| (A) | BITSTRING | 1 | SMTDSAINDEX | DSA index |
| (B) | CHARACTER | 1 | | Reserved |
| (C) | FULLWORD | 4 | SMTGMREQ | No. Getmain reqs |
| (10) | FULLWORD | 4 | SMTFMREQ | No. Freemain reqs |
| (14) | FULLWORD | 4 | SMTCES | Sum of all element lengths |
| (18) | FULLWORD | 4 | SMTCPs | Current page storage |
| (1C) | FULLWORD | 4 | SMTCNE | Current No. elements |
| (20) | FULLWORD | 4 | SMTHWMPs | High Water Mark Page storage |
| (20) | ..1. 1.. | | SMTBEND | "*" End of body |
| (20) | ..1. 1.. | | SMTBLEN | "*-SMTBODY" Length of body DSECT |
| Equates for testing SMTLOCATION. | | | | |
| (20) |1 | | SMTBELOW | "1" |
| (20) |1. | | SMTABOVE | "2" |
| (20) |11 | | SMTABOVEBAR | "3" |
| Equates for testing SMTACCESS | | | | |
| (20) |1 | | SMTCICS | "1" |
| (20) |1. | | SMTUSER | "2" |
| Equates for testing SMTDSAINDEX. | | | | |
| (20) |1 | | SMTCDsA | "1" |
| (20) |1. | | SMTUDsA | "2" |
| (20) | 1..1 | | SMTECDsA | "9" |
| (20) | 1.1. | | SMTEUDsA | "10" |
| (20) | ...1 ...1 | | SMTGCDSsA | "17" |
| (20) | ...1 ..1. | | SMTGUDsA | "18" |

SNEX - Signon Extension Block

CONTROL BLOCK NAME = DFHSNEXC
 DESCRIPTIVE NAME = CICS TS Sign-on Extension to the TCTTE
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FUNCTION =
 The Signon Extension is owned by the Signon component of the AP Domain and contains information related to the Signon and Terminal Timeout processes. Each TCTTE has its own Signon Extension which is pointed to by the TCTESNEX pointer.

LIFETIME =
 A SNEX is created at the same time that a TCTTE is created when a terminal definition is installed.

STORAGE CLASS =
 CICS storage, above the 16Mb line in the subpool 'SNEX'. No element chaining.

LOCATION =
 A SNEX is located by using the TCTESNEX pointer in the TCTTE.

NOTES :
 DEPENDENCIES = S/390
 MODULE TYPE = Control block definition

Table 523.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------------|-----------------------------|
| (0) | STRUCTURE | 56 | DFHSNEX | Start of SNEX control block |
| Userid: SNEX_USERID: This field is used to contain the preset userid for macro defined terminals only. When the terminal has been installed, and the userid has been signed on, this field is overlaid by the principal user token and session user token (null). The flag SNEX_PRESET_USERID_PRESENT indicates whether this field currently contains a userid or tokens. | | | | |
| (0) | CHARACTER | 8 | SNEX_USERID | |
| User Tokens: SNEX_PRINCIPAL_USER_TOKEN: This field contains the user token associated with the user currently signed on at this terminal. SNEX_SESSION_USER_TOKEN: If this terminal represents a session, this field contains the user token associated with the userid signed on at this terminal. | | | | |
| (0) | UNSIGNED | 4 | SNEX_PRINCIPAL_USER_TOKEN | |
| (4) | UNSIGNED | 4 | SNEX_SESSION_USER_TOKEN | |

Table 523. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------------|-------------|
| Terminal Timeout Information: SNEX_TIMEOUT_TIME: This is the time (in STCK format) that this terminal is next due to timeout. SNEX_TIMEOUT_INTERVAL: This is the timeout interval for the currently signed on user expressed as the top word of a STCK value. SNEX_TIMEOUT_FLAGS: SNEX_TIMEOUT_ELIGIBLE This flag is on only if the terminal is eligible for timeout processing. To be eligible, the terminal must: - not be defined with SIGNOFF=NO - not have preset security - be signed on - be signed on by a userid that has a non-zero timeout interval - not be performing transaction routing unless under the CRTE transaction SNEX_TIMEOUT_ENABLED: When ON this flag indicates that the terminal is in the TIMEOUT ENABLED state. When OFF this flag indicates that the terminal is in the TIMEOUT DISABLED state. SNEX_TIMEOUT_TIMEDOUT: When ON this flag indicates that the terminal is currently being timed out. SNEX_SAVED_ATI_STATUS: This flag is used to save the setting of the ATI status of the terminal while the goodnight transaction is being scheduled. | | | | |
| (8) | CHARACTER | 8 | SNEX_TIMEOUT_TIME | |
| (8) | UNSIGNED | 4 | HIGH_WORD | |
| (C) | UNSIGNED | 4 | LOW_WORD | |
| (10) | UNSIGNED | 4 | SNEX_TIMEOUT_INTERVAL | |
| (14) | BIT(8) | 1 | SNEX_TIMEOUT_FLAGS | |
| (14) | 1... | | SNEX_TIMEOUT_ELIGIBLE | |
| (14) | .1.. | | SNEX_TIMEOUT_ENABLED | |
| (14) | ..1. | | SNEX_TIMEOUT_TIMEDOUT | |
| (14) | ...1 | | SNEX_SAVED_ATI_STATUS | |
| (14) | 1111 | | * | Reserved |

Table 523. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|----------------------|---|
| XRF Information SNEX_XRF_FLAGS: SNEX_XRF_REFLECTABLE: <p>This flag indicates whether the terminal should have its signon state reflected on an ALTERNATE XRF system. For this flag to be ON, the XRFSOFF SIT parameter must be set to NOFORCE, the XRFSIGNOFF flag in the terminal's TYPETERM definition must be set to NOFORCE and the users CICS segment in RACF must show that the user is not to be signed off after an XRF takeover. If any of the above conditions are false, this flag is set OFF.</p> | | | | |
| (15) | BIT(8) | 1 | SNEX_XRF_FLAGS | |
| (15) | 1... | | SNEX_XRF_REFLECTABLE | |
| (15) | .1.. | | SNEX_SIGNON_CATLGD | User data written to catalog for PS restart |
| (15) | ..1. | | SNEX_AWAITING_SIGNON | Not yet signed on after PS restart |
| (15) | ...1 1111 | | * | |
| Userid Length SNEX_USERID_LENGTH This field contains the length of the userid contained in SNEX_USERID. This field is only valid for macro defined terminals. Once the terminal has been installed by CICS this field is returned to zeros. | | | | |
| (16) | UNSIGNED | 1 | SNEX_USERID_LENGTH | |
| (17) | CHARACTER | 1 | * | Reserved |
| Transaction Statistics Information SNEX_TXN_COUNT: <p>Keeps tally of the number of txns run by this user at this terminal for the duration of the current signon.</p> SNEX_TXN_ERROR_COUNT: <p>Keeps tally of the number of txn errors in this signon session.</p> | | | | |
| (18) | FULLWORD | 4 | SNEX_TXN_COUNT | |
| (1C) | FULLWORD | 4 | SNEX_TXN_ERROR_COUNT | |

Table 523. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------------------|-------------|
| <p>Miscellaneous Flags</p> <p>SNEX_PRESET_SECURITY: Flag used to signal if this terminal has preset security. This flag is also set on for sessions that have a preset session userid.</p> <p>SNEX_SESSION_SIGNED_ON: Flag used to signal that this session has been session (link) signed on.</p> <p>SNEX_PRESET_USERID_PRESENT: Flag used to indicate that a preset userid exists in the SNEX_USERID field. This is used to perform a preset signon when the terminal is installed. This is only used in the case of macro defined terminals.</p> <p>SNEX_SESSION_SIGNED_ON_AS_DEFAULT: Flag used to signal that this session has been session (link) signed on with default attributes. This is used in signoff session userid to stop unnecessary delete user processing.</p> <p>SNEX_SESSION_USER_TOKEN_X: Flag used to indicate that this SNEX contains a valid user token in the SNEX_SESSION_USER_TOKEN field. The session user token might be null, but this can still be a valid session user token. This happens in the cases where it is necessary to enforce a link security check against the default user.</p> <p>SNEX_LUIT_TABLE_UPDATED: Flag used to indicate whether during a signon_attach_header the LUIT table was updated. This flag should only be set on during a signon attach header for a persistent verification FMH-5. When this terminal is attach signed off, then this flag should be turned off ready for the next user of this terminal.</p> <p>SNEX_EQUIVALENT_SYSTEMS: Flag used to let DFHZNCA know that although this session does not have the snex preset security flag on, it did however have a preset session userid, but it was the same as this system's jobstep userid. This is known as equivalent systems for LU6.1 and LU6.2, but a different check is made for MRO for equivalent systems. Namely that the link security name is the same as the jobstep userid of the connecting system. Hence this flag is not required for MRO, because we can only make the equivalence check when we know the connectee's userid. This is done in DFHCRNP when the connection is acquired.</p> | | | | |
| (20) | CHARACTER | 1 | SNEX_FLAGS | |
| (20) | 1... | | SNEX_PRESET_SECURITY | |
| (20) | .1.. | | SNEX_SESSION_SIGNED_ON | |

Table 523. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------------------------|--------------------------------------|
| (20) | ..1. | | SNEX_PRESET_USERID_ PRESENT | |
| (20) | ...1 | | SNEX_SESSION_SIGNED_ ON_AS_DEFAULT | |
| (20) | 1... | | SNEX_SESSION_USER_ TOKEN_X | |
| (20) |1.. | | SNEX_LUIT_TABLE_ UPDATED | |
| (20) |1. | | SNEX_EQUIVALENT_ SYSTEMS | |
| (20) |1 | | * | Reserved |
| (21) | CHARACTER | 1 | SNEX_FLAGS2 | |
| Console support flags SNEX_CONSOLE_REFLECT_FIRST_USER: Set if user specified USERID(FIRST) on the TERMINAL definition for the console. On install the real user that MVS has nominated in the CIB is signed on as a preset userid. SNEX_CONSOLE_REFLECT_EVERY_USER: Set if user specified USERID(EVERY) on the TERMINAL definition for the console. On install and on every following message the user is signed-on (if it has changed) as a preset userid. | | | | |
| (21) | CHARACTER | 1 | SNEX_CONSOLE | |
| (21) | 1... | | SNEX_CONSOLE_REFLECT_FIRST_USER | |
| (21) | .1.. | | SNEX_CONSOLE_REFLECT_EVERY_USER | |
| (21) | ..11 1111 | | * | Reserved |
| (22) | CHARACTER | 1 | SNEX_LUIT_USERID_LEN | Len of PV userid |
| (23) | CHARACTER | 8 | SNEX_LUIT_USERID | PV userid |
| (2B) | CHARACTER | 1 | * | Reserved |
| (2C) | ADDRESS | 4 | SNEX_SIGNON_DATA_ADDR | Data address for PS signon retention |
| (30) | HALFWORD | 2 | SNEX_SIGNON_DATA_LENGTH | Data length for PS signon retention |
| (32) | UNSIGNED | 2 | SNEX_ERR_RESPONSE | Response code for msg |
| (34) | UNSIGNED | 2 | SNEX_ERR_REASON | Reason code for msg |
| (36) | CHARACTER | 2 | * | Reserved |
| (38) | CHARACTER | 0 | SNEX_END | End of SNEX |

SNGN - GNTRAN Stub Parameter List for CEGN

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Table 524.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|--------------------------------|
| (0) | STRUCTURE | 24 | DFHSNGN | CEGN Parameter List |
| (0) | CHARACTER | 8 | CEGN_EYECATCHER | Ensures CEGN started by CESC |
| (8) | CHARACTER | 8 | CEGN_TIMEOUT_TIME | Timeout time in STCK format |
| (10) | ADDRESS | 4 | CEGN_TCTTE_ADDR | -> TCTTE of timed-out terminal |
| (14) | CHARACTER | 1 | CEGN_TIMEOUT_REASON | Mechanism causing timeout |
| (15) | CHARACTER | 3 | * | Reserved |
| (18) | CHARACTER | 0 | * | End of parameter list |

Constants

Table 525.

| Len | Type | Value | Name | Description |
|-----|-----------|----------|-----------------------|-------------|
| 8 | CHARACTER | >>CEGN>> | CEGN_EYECATCHER_VALUE | |

SNGS - Goodnight Transaction Parameter List

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Table 526.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|--|
| (0) | STRUCTURE | * | DFHSNGS | GNTRAN Parameter List |
| (0) | CHARACTER | 64 | DFHSNGS_FIXED | Fixed part |
| (0) | CHARACTER | 4 | GNTRAN_START_TRANSID | Always equal to "CEGN" |
| (4) | CHARACTER | 1 | GNTRAN_PSEUDO_CONV_FLAG | Terminal was in pseudo conversation when it was timed out: 'Y' or 'N' |
| (5) | CHARACTER | 1 | GNTRAN_SCREEN_TRUNCATED | 3270 screen buffer had to be truncated: 'Y' or 'N' |
| (6) | CHARACTER | 1 | GNTRAN_TRANSLATE_TIOA | Flag to indicate that TIOA input to GNTRAN needs upper case translation. |
| (7) | CHARACTER | 9 | * | Reserved |
| (10) | CHARACTER | 8 | GNTRAN_TIMEOUT_TIME | Time that the terminal timed out in CICS ABSTIME format. |

Table 526. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|---|
| (18) | CHARACTER | 1 | GNTRAN_TIMEOUT_REASON | Mechanism causing timeout: 'T' for terminal timeout or 'X' for XRF takeover timeout |
| (19) | CHARACTER | 11 | * | Reserved |
| (24) | CHARACTER | 4 | GNTRAN_PSEUDO_CONV_TRANSID | Next transaction to run at this terminal had it not been timed out. |
| (28) | HALFWORD | 2 | GNTRAN_SCREEN_LENGTH | Length of screen buffer left by previous transaction |
| (2A) | HALFWORD | 2 | GNTRAN_CURSOR_POSITION | Cursor position left by previous transaction |
| (2C) | HALFWORD | 2 | GNTRAN_SCREEN_WIDTH | Width of screen left by previous transaction |
| (2E) | HALFWORD | 2 | GNTRAN_SCREEN_HEIGHT | Height of screen left by previous transaction |
| (30) | CHARACTER | 16 | GNTRAN_USER_FIELD | Available to user |
| (40) | CHARACTER | * | DFHSNGS_VARIABLE | Variable part |
| (40) | CHARACTER | * | GNTRAN_SCREEN_BUFFER | Variable length field containing the contents of the screen. |

SNSTA - Sign-on LUIT and SNT statistics

```

CONTROL BLOCK NAME = DFHSNSTA
DESCRIPTIVE NAME = CICS TS (SIGNON)
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FUNCTION =
    This control block is used to store statistics produced
    by the management of the LUIT tables during SIGNONS
    involving LU6.2 type connections.
    The storage for this control block is GETMAIned in DFHTCRP.
    This is only one instance of this control block per CICS
    system, and it is updated everytime a user is added/reused
    or deleted from the LUIT.
LIFETIME =
    The storage is GETMAIned during security initialisation,
    and it is released when CICS terminates.
STORAGE CLASS =
    This control block is AMODE(31) RMODE(ANY)
LOCATION =
    This control block is chained off the CSA.
INNER CONTROL BLOCKS = None
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = None
    GLOBAL VARIABLES (Macro pass) = None
-----

```


Table 529.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------------------|---|
| (0) | STRUCTURE | 0 | DFHSOGDS | Sockets Global stats record |
| (0) | HALFWORD | 2 | SOGDS_LEN | Sockets Global stats record length |
| (2) | ADDRESS | 2 | SOGDS_ID | Sockets Global stats id |
| (4) | CHARACTER | 1 | SOGDS_VERS | Sockets Global stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | SOG_MAXSOCKETS_LIMIT | Maxsockets limit |
| (C) | FULLWORD | 4 | SOG_CURR_INBOUND_SOCKETS | Current Inbound sockets |
| (10) | FULLWORD | 4 | SOG_PEAK_INBOUND_SOCKETS | Peak Outbound sockets |
| (14) | FULLWORD | 4 | SOG_CURR_OUTB_SOCKETS | Current Outbound sockets |
| (18) | FULLWORD | 4 | SOG_PEAK_OUTB_SOCKETS | Peak Outbound sockets |
| (1C) | FULLWORD | 4 | SOG_CURR_PERS_OUTB_SOCKETS | Current Persistent Outb sockets |
| (20) | FULLWORD | 4 | SOG_PEAK_PERS_OUTB_SOCKETS | Peak Persistent Outb sockets |
| (24) | FULLWORD | 4 | SOG_INB_SOCKETS_CREATED | Number Inbound sockets created |
| (28) | FULLWORD | 4 | SOG_OUTB_SOCKETS_CREATED | Number Outbound sockets created |
| (2C) | FULLWORD | 4 | SOG_OUTB_SOCKETS_CLOSED | Number of Outb sockets closed |
| (30) | FULLWORD | 4 | SOG_TIMES_AT_MAX_SOCKETS | Number of times at maxsockets |
| (34) | FULLWORD | 4 | SOG_DELAYED_AT_MAX_SOCKETS | Total delayed at maxsockets |
| (38) | CHARACTER | 8 | SOG_QTIME_AT_MAX_SOCKETS | Total delay time at maxsockets |
| (40) | FULLWORD | 4 | SOG_TIMEDOUT_AT_MAX_SOCKETS | Timeouts whilst at maxsockets |
| (44) | FULLWORD | 4 | SOG_CURR_DELAYED_AT_MAX | Current delayed at maxsockets |
| (48) | FULLWORD | 4 | SOG_PEAK_DELAYED_AT_MAX | Peak delayed at maxsockets |
| (4C) | CHARACTER | 8 | SOG_CURRENT_QTIME_AT_MAX | Current delay time at maxsockets |
| (54) | CHARACTER | 8 | | Reserved |
| (5C) | BITSTRING | 1 | SOG_SSLCACHE | SSLCACHE setting |
| (5D) | CHARACTER | 7 | | Reserved |
| (64) | CHARACTER | 8 | | Reserved |
| (64) | .11. 11.. | | SOGDS_END | "*" |
| (64) | .11. 11.. | | SOGDS_LENGTH | "*-SOGDS_LEN" Sockets stats record length |
| Constants that denote a S0 Global stats record | | | | |
| (64) | .11. 1.11 | | SOGIDR | "107" Sockets global stats id |

Table 529. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|----------------------|------------------------------|
| (64) |1 | | SOG_VERS | "X'01" Record version number |
| (64) |1 | | SOG_SSLCACHE_CICS | "X'01" SSLCACHE = CICS |
| (64) |1. | | SOG_SSLCACHE_SYSPLEX | "X'02" SSLCACHE = SYSPLEX |

SORDS - TCP/IP Service (Sockets

CONTROL BLOCK NAME = DFHSORDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSORPS
DESCRIPTIVE NAME = CICS TS TCP/IP Service (Sockets) Statistics
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FUNCTION =
This data area contains the tcp/ip service (sockets) statistics provided by the Sockets Domain. It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit. There is a single instance of this data block.

LIFETIME =
This data block is created by the Sockets Domain to store statistics to be passed to the user in response to a for tcp/ip service statistics. The storage is released when the user task is detached. The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = None

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHSORDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 530.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|------------------------------------|
| (0) | STRUCTURE | 0 | DFHSORDS | TCP/IP Service Resid stats record |
| (0) | HALFWORD | 2 | SORDS_LEN | TCP/IP Service stats record length |
| (2) | ADDRESS | 2 | SORDS_ID | TCP/IP service stats id |
| (4) | CHARACTER | 1 | SORDS_VERS | TCP/IP Service stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | SOR_SERVICE_NAME | TCP/IP Service name |

Table 530. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|-------------------------------------|
| (10) | FULLWORD | 4 | SOR_TRANS_ATTACHED | No. of Transactions Attached |
| (14) | FULLWORD | 4 | SOR_CURRENT_CONNS | Current number of Connections |
| (18) | FULLWORD | 4 | SOR_PEAK_CONNS | Peak number of Connections |
| (1C) | BITSTRING | 8 | SOR_OPEN_GMT | Service Open Time (GMT) |
| (24) | BITSTRING | 8 | SOR_OPEN_LOCAL | Service Open Time (Local) |
| (2C) | BITSTRING | 8 | SOR_CLOSE_GMT | Service Close Time (GMT) |
| (34) | BITSTRING | 8 | SOR_CLOSE_LOCAL | Service Close Time (Local) |
| (3C) | BITSTRING | 2 | SOR_PORT_NUMBER | TCP/IP Service Port Number |
| (3E) | BITSTRING | 1 | SOR_SSL_SUPPORT | TCP/IP Service SSL Support |
| (3F) | BITSTRING | 1 | | Reserved |
| (40) | FULLWORD | 4 | SOR_BACKLOG | TCP/IP Service Backlog |
| (44) | FULLWORD | 4 | SOR_SENDS | No. of Sends (all sockets) |
| (48) | BITSTRING | 8 | SOR_BYTES_SENT | No. of Bytes Sent (all sockets) |
| (50) | FULLWORD | 4 | SOR_RECEIVES | No. of Receives (all sockets) |
| (54) | BITSTRING | 8 | SOR_BYTES_RECEIVED | No. of Bytes Received (all sockets) |
| (5C) | BITSTRING | 16 | | Reserved DS |
| (6C) | CHARACTER | 18 | SOR_WLM_GROUP | TCP/IP Service Reserved |
| (7E) | CHARACTER | 2 | | Reserved |
| (80) | CHARACTER | 8 | SOR_PROTOCOL | TCP/IP Service Protocol |
| (88) | BITSTRING | 1 | SOR_AUTHENTICATE | TCP/IP Service Authenticate |
| (89) | BITSTRING | 1 | SOR_PRIVACY | TCP/IP Service Privacy |
| (8A) | BITSTRING | 1 | SOR_ATTACHSEC | TCP/IP Service Attachsec |
| (8B) | CHARACTER | 5 | | Reserved |
| (90) | CHARACTER | 8 | | Reserved |
| (98) | FULLWORD | 4 | SOR_MAXDATA_LENGTH | TCP/IP Service Maxdata length |
| (9C) | CHARACTER | 4 | SOR_TCPIPS_TRANID | TCP/IP service Transaction ID |
| (A0) | CHARACTER | 8 | SOR_TCPIPS_URM | TCP/IP service URM |
| (A8) | FULLWORD | 4 | SOR_TCPIPS_MAX_PERSIST | Maximum Persistent Connections |
| (AC) | FULLWORD | 4 | SOR_TCPIPS_NON_PERSIST | No. Non-Persistent Connections |
| (B0) | CHARACTER | 8 | | Reserved |
| (B8) | CHARACTER | 8 | | Reserved |
| (C0) | CHARACTER | 39 | SOR_IP_ADDRESS | IP Address of TCP/IP Service |

Table 530. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|--------------------------|--|
| (E7) | CHARACTER | 1 | SOR_IP_FAMILY | IP family |
| (E8) | CHARACTER | 116 | SOR_HOSTNAME | Hostname |
| (15C) | CHARACTER | 4 | | Reserved |
| (160) | CHARACTER | 8 | SOR_DEFINE_SOURCE | Group installed from |
| (168) | BITSTRING | 8 | SOR_CHANGE_TIME | Change/create time |
| (170) | CHARACTER | 8 | SOR_CHANGE_USERID | Change userid |
| (178) | BITSTRING | 2 | SOR_CHANGE_AGENT | Change agent |
| (17A) | BITSTRING | 2 | SOR_INSTALL_AGENT | Install agent |
| (17C) | BITSTRING | 8 | SOR_INSTALL_TIME | Install/Create time |
| (184) | CHARACTER | 8 | SOR_INSTALL_USERID | Install userid |
| (18C) | CHARACTER | 32 | | Reserved |
| (18C) | | 0 | SORDS_END | "*" |
| (18C) | | 0 | SORDS_LENGTH | "*-SORDS_LEN" TCP/IP Service record length |
| Constants that denote a S0 tcp/ip service stats record | | | | |
| (18C) | .11. 11.. | | SORIDR | "108" TCP/IP Service resid stats id |
| (18C) |1 | | SOR_VERS | "X'01" Record version number |
| (18C) |1 | | SOR_SSL_YES | "X'01" SSL = Yes |
| (18C) |1. | | SOR_SSL_NO | "X'02" SSL = No |
| (18C) |11 | | SOR_SSL_CLI_AUTH | "X'03" SSL = Client Authentication |
| (18C) | .... .... |  | SOR_AUTHENT_NONE | "X'00" Authenticate = None |
| (18C) |1 | | SOR_AUTHENT_BASIC | "X'01" Authenticate = Basic |
| (18C) |1. | | SOR_AUTHENT_CERT | "X'02" Authenticate = Certificate |
| (18C) |11 | | SOR_AUTHENT_AUTOREG | "X'03" Authenticate = Autoregister |
| (18C) |1.. | | SOR_AUTHENT_AUTO | "X'04" Authenticate = Automatic |
| (18C) |1.1 | | SOR_AUTHENT_ASSERTED | "X'05" Authenticate = Asserted |
| (18C) | .... .... |  | SOR_PRIVACY_NOTSUPPORTED | "X'00" Privacy = NotSupported |
| (18C) |1 | | SOR_PRIVACY_SUPPORTED | "X'01" Privacy = Supported |
| (18C) |1. | | SOR_PRIVACY_REQUIRED | "X'02" Privacy = Required |
| (18C) |1 | | SOR_ATTACHSEC_LOCAL | "X'01" Attachsec = Local |
| (18C) |1. | | SOR_ATTACHSEC_VERIFY | "X'02" Attachsec = Verify |
| (18C) | .... .... |  | SOR_IP_FAMILY_UNKNOWN | "X'00" IP family = Unknown |
| (18C) |1 | | SOR_IP_FAMILY_IPV4 | "X'01" IP family = IPv4 |
| (18C) |1. | | SOR_IP_FAMILY_IPV6 | "X'02" IP family = IPv6 |

Table 530. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-------------|-----|---------------------|------------------------------|
| (18C) |1 | | SOR_CSDAPI_CHANGE | "0001" CSD API |
| (18C) |1. | | SOR_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (18C) |11 | | SOR_DREPAPI_CHANGE | "0003" DREP API |
| (18C) |1.. | | SOR_CREATE_CHANGE | "0004" EXEC CREATE SPI |
| (18C) |111 | | SOR_SYSTEM_CHANGE | "0007" SYSTEM Install Agents |
| (18C) |1 | | SOR_CSDAPI_INSTALL | "0001" CSD API |
| (18C) |1.. | | SOR_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (18C) |1.1 | | SOR_GRPLIST_INSTALL | "0005" GRPLIST |
| (18C) |1..1 | | SOR_BUNDLE_INSTALL | "0009" BUNDLE ! |

SRA - SRB interface mapping

DESCRIPTIVE NAME = CICS TS SRB INTERFACE MAPPING
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1983, 2000
 SRB INTERFACE CONTROL AREA

Table 531.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHSRADS | |
| (0) | BITSTRING | 1 | SRAFLAGS | FLAGS FIELD |
| NB BIT SRAVTAM IS REFERENCED BY DFHDSSUB AND MUST NOT BE MOVED!! | | | | |
| (0) | 1... | | SRAVTAM | "X'80'" VTAM AUTH. PATH INSTALLED |
| NB BIT SRAVTAM IS REFERENCED BY DFHDSSUB AND MUST NOT BE MOVED!! | | | | |
| (0) | ..1.. | | SRAICIP | "X'40'" VSAM ICIP INSTALLED |
| (1) | BITSTRING | 1 | SRAFLAG2 | FLAGS FIELD |
| (1) | 1... | | SRASCHED | "X'80'" SRB SCHEDULED FLAG |
| (2) | BITSTRING | 2 | | RESERVED |
| (4) | ADDRESS | 4 | | Reserved - was SRANXHTA |
| (8) | DBL WORD | 8 | (0) | DOUBLE WORD ALIGN FOR CDS |
| (8) | ADDRESS | 4 | SRARQCHN | HEAD OF SRB REQUEST CHAIN |
| (C) | FULLWORD | 4 | | COUNTER FOR CDS PAIR |
| (10) | ADDRESS | 4 | SRARQEND | LAST ITEM IN REQUEST CHAIN |
| (14) | ADDRESS | 4 | (2) | RESERVED |
| (1C) | ADDRESS | 4 | SRASRXA | ADDRESS OF SRX BLOCK |
| (20) | FULLWORD | 4 | | RESERVED |

Table 531. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------------|-----------|-----|------------|--|
| COUNTERS TO CONTROL SRB SCHEDULING | | | | |
| (24) | FULLWORD | 4 | SRALRQCT | OUTSTANDING LONG REQUESTS |
| (28) | DBL WORD | 8 | (0) | ALIGN ON DWORD BOUNDARY. FOLLOWING TWO FIELDS FORM A CDS PAIR |
| (28) | FULLWORD | 4 | SRASRQXS | EXCESS OF OUTSTANDING SHORT REQUESTS OVER LIMIT (SET INITIALLY TO -SRARQLIM) |
| (2C) | FULLWORD | 4 | SRASHORT | EXCESS OF SHORT RUN SRBS OVER LIMIT (INIT -SRASRLIM) |
| (30) | FULLWORD | 4 | SRATOTAL | TOTAL RUNNING SRB'S |
| (34) | FULLWORD | 4 | SRARQLIM | SHORT TERM REQUEST THRESHOLD |
| (38) | FULLWORD | 4 | SRASRLIM | SHORT TERM SRB THRESHOLD |
| (38) |1. | | SRARQLMV | "2" REQUEST COUNT THRESHOLD |
| (38) |1. | | SRASRLMV | "2" SHORT RUN SRB THRESHOLD |
| (38) | ..11 11.. | | SRAAD | "*-DFHSRADS" LENGTH OF SRA |

SRB - Service request block

```

%PLSSRB1;;
%If IHASRB_PLXMAP = 'YES' %then
  %GOTO PLSSRB2;
  START OF SPECIFICATIONS
  01 PROPRIETARY STATEMENT =
      LICENSED MATERIALS - PROPERTY OF IBM
      5694-A01 COPYRIGHT IBM CORP. 1977, 2011
  01 STATUS: HBB7780
  01 DESCRIPTIVE NAME: Service Request Block
  02 ACRONYM: SRB
  01 EXTERNAL CLASSIFICATION:
  02 DMTI:BASE
  02 GUPI:FIELDS
      SRBASCB
      SRBCPAFF
      SRBEP
      SRBFRR
      SRBID
      SRBPARM
      SRBPASID
      SRBPKF
      SRBPTCB
      SRBRMTR
  01 END OF EXTERNAL CLASSIFICATION:
  01 MACRO NAME: IHASRB
  01 DSECT NAME:

```

```

        SRBSECT
01 COMPONENT: SUPERVISOR CONTROL (SC1C5)
01 EYE-CATCHER: SRB
02 OFFSET: 0
02 LENGTH: 4
01 STORAGE ATTRIBUTES:
02 SUBPOOL: Common, Fixed Storage
02 KEY: 0
02 RESIDENCY: ABOVE OR BELOW THE 16M LINE
01 SIZE: 44 BYTES
01 CREATED BY:
    Control program routines
01 POINTED TO BY:
    Built and initialized in user-allocated storage and
    passed as a parameter to the SCHEDULE macro.
    Pointed to by register 0 on entry to the SRB routine
    whose address is in SRBEP.
    ASCBXMPQ FIELD OF THE ASCB DATA AREA
    ASXBFSRB FIELD OF THE ASXB DATA AREA
    ASXBLSRB FIELD OF THE ASXB DATA AREA
    IOSSRB FIELD OF THE IOSB DATA AREA
    PCBSRB FIELD OF THE PCB DATA AREA
    SRBFLNK FIELD OF THE SRB DATA AREA
    SVTGSMQ FIELD OF THE SVT DATA AREA
    SVTLSEQ FIELD OF THE SVT DATA AREA
    SVTSRBA FIELD OF THE SVT DATA AREA
    TQESRB FIELD OF THE TQE DATA AREA
    TVCSSRBA FIELD OF THE TVCS DATA AREA
    WEBUPTR field of the WEB data area
01 SERIALIZATION:
    Owner-serialized.
01 FUNCTION:
    Used as input to the SCHEDULE macro when scheduling a
    routine for asynchronous execution.
01 METHOD OF ACCESS =
    BAL- DSECT ALWAYS PRODUCED, PERFORM USING ON SRBSECT
    BAL LISTING - SPECIFY LIST=YES OR NO ON MACRO CALL
    PL/S - SRBSECT WILL BE BASED(SRBPTR) .
        1. IF YOU WISH TO APPEND THE SRB TO THE END OF
            ANOTHER CONTROL BLOCK, SET %SRBLEVEL='N'
            WHERE N IS AN INTEGER BETWEEN 2 AND 3, INCLUSIVE.
            SRBSECT WILL THEN BE AN UNBASED LEVEL N VARIABLE.
        2. IF YOU WISH TO APPEND ANOTHER CONTROL BLOCK TO THE END
            OF THE SRB, SET %SRB9999=',', AND THE SEMICOLON AT
            THE END OF THE SRB WILL BE REPLACED WITH A COMMA.
    EXAMPLE OF PLACING SRB BETWEEN TWO OTHER BLOCKS:
        %SRBLEVEL='2'
        %SRB9999=', '
    DECLARE 1 MYBLOCK,
        2 MYFIELD,
        %INCLUDE SYSLIB(IHASRB)
        2 MYFIELD2
    PL/S LISTING - SPECIFY %IHALIST='YES' BEFORE %INCLUDE
01 COMPONENT = SC1C5 (SUPERVISOR CONTROL)
01 DISTRIBUTION LIBRARY = AMACLIB
END OF SPECIFICATIONS
%GOTO PLSSRB2;

```

Table 532.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 0 | SRBSECT | |
| (0) | ADDRESS | 4 | SRB (0) | |
| (0) | CHARACTER | 4 | SRBID | EBCDIC ACRONYM FOR SRB OR SSRB. |

Table 532. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (4) | ADDRESS | 4 | SRBFLNK | FORWARD CHAIN FIELD |
| (8) | ADDRESS | 4 | SRBASCb (0) | PTR TO ASCB OF ADDRESS SPACE SRB IS TO BE DISPATCHED TO |
| (8) | BITSTRING | 1 | | RESERVED. DO NOT USE. |
| (9) | ADDRESS | 3 | SRBASC24 | 24-bit ASCB address |
| (C) | CHARACTER | 8 | SRBFLC (0) | SRB AREA MOVED TO LOW CORE |
| (C) | BITSTRING | 2 | SRBCPAFF | CPU AFFINITY MASK |
| (E) | HALFWORD | 2 | SRBPASID | PURGEDQ ASID IDENTIFIER |
| (10) | ADDRESS | 4 | SRBPtCB | PURGEDQ TCB IDENTIFIER |
| (14) | ADDRESS | 4 | SRBEP (0) | ENTRY POINT OF ROUTINE |
| (14) | ADDRESS | 4 | SRBEPA | ADDRESS OF ENTRY POINT (31-BIT USERS) |
| (14) | 1... | | SRBMODE | "X'80" ADDRESSING MODE INDICATOR |
| (18) | ADDRESS | 4 | SRBRMTR (0) | ADDRESS OF RESOURCE MANAGER ROUTINE |
| (18) | ADDRESS | 4 | SRBRMTRA (0) | ADDRESS OF RESOURCE MANAGER ROUTINE (31-BIT USERS) |
| (18) | BITSTRING | 1 | SRBRMTR0 | Byte 0 of SRBRMTR |
| (18) | 1... | | SRBRMODE | "X'80" ADDRESSING MODE INDICATOR |
| (19) | BITSTRING | 1 | (2) | |
| (1B) | BITSTRING | 1 | SRBRMTR3 | Byte 3 of SRBRMTR |
| (1B) |1 | | SRBRMTLL | "X'01" When on, the local lock will be held when control is given to the RMTR. The RMTR is allowed to release the local lock before returning, but is not required to do so. |
| (1C) | ADDRESS | 4 | SRBPARM | USER PARAMETER |
| (20) | ADDRESS | 4 | SRBWEB (0) | Address of this SRB's WEB. SERIALIZATION: None OWNERSHIP: Supervisor Control |
| (20) | ADDRESS | 4 | SRBSAVE | Reserved. Must be Zero. SERIALIZATION: None OWNERSHIP: Supervisor Control |
| (24) | BITSTRING | 1 | SRBPKF | PROTECT KEY INDICATION |

Table 532. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (25) | BITSTRING | 1 | SRBPRIOR (0) | PRIORITY LEVEL INDIC |
| (25) | BITSTRING | 1 | SRBFLGS | SRB OPTION FLAGS |
| (25) | 1... | | SRBLLREQ | "X'80" LOCAL LOCK REQUIRED |
| (25) | .1.. | | SRBLLHLD | "X'40" LOCAL LOCK HELD |
| (25) | ..1. | | SRBFRREQ | "X'20" FRR REQUESTED |
| (25) | ...1 | | SRBFRRCL | "X'10" THIS BIT IS OBSOLETE SINCE FRR PARM AREA ALWAYS CLEARED BY DISPATCHER. RETAINED FOR COMPATIBILITY. |
| (25) | 1... | | SRBSUSP | "X'08" SUSPENDED SRB ONLY ON FOR SSRB |
| (25) |1.. | | SRBPNONQ | "X'04" NON QUIESCABLE SRB |
| (25) | .... .... |  | SRBPSYS | "X'00" SYSTEM PRIORITY LEVEL |
| (26) | BITSTRING | 1 | SRBHLHI | INDICATION OF SUSPEND LOCKS HELD AT SRB SUSPENSION |
| (27) | BITSTRING | 1 | SRBFLGS1 | SRB TYPE FLAGS. |
| (27) | 1... | | SRBMAIN | "X'80" SRB/SSRB MUST BE FREEMAINED. |
| (27) | .1.. | | SRBSP245 | "X'40" SRB/SSRB FROM SUBPOOL 245. |
| (27) | ..1. | | SRBBLK24 | "X'20" SRB BELOW THE LINE |
| (27) | ...1 | | SRBXESF | "X'10" Mode=primary FRR - only meaningful if SRBFRREQ is set. |
| (27) | 1... | | SRB1STS | "X'08" This SSRB represents the initial schedule of a workunit and has never been dispatched. |
| (27) |1.. | | SRBPMCS | "X'04" This SRB is in process-must complete mode |
| (27) |1. | | SRBMSCHD | "X'02" This SRB was scheduled via the IEAMSCHD macro |
| (27) |1 | | SRBTOKNP | "X'01" This SSRB belongs to the pool created for SUSPEND with SPTOKEN. |
| (28) | ADDRESS | 4 | SRBFRA (0) | FRR ROUTINE ADDRESS |
| (28) | CHARACTER | 3 | | High three bytes of addr |
| (2B) | CHARACTER | 1 | SRBFRA3 | Low order byte of address |

Table 532. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-----------|-----|--------------|--|
| (2B) |1 | | SRBSD31 | "X'01" Set this flag to indicate that the FRR can tolerate an SDWA in 31-bit storage. This is equivalent to the SETFRR SDWALOC31=YES parameter |
| (2C) | FULLWORD | 4 | SRBEND (0) | END OF SRB |
| (2C) | ..1. 11.. | | SRBSIZE | "SRBEND-SRBSECT" SIZE OF SRB |
| (2C) | .... .... |  | DFHSRXDS | "SRBSECT" CICS NAME FOR SECTION |
| (30) | DBL WORD | 8 | (0) | ALIGN START OF CICS FIELDS ON DOUBLE WORD BOUNDARY |
| START OF CICS EXTENSION AREA | | | | |
| (30) | ADDRESS | 4 | SRXRTNA | MVS SRB RETURN ADDRESS |
| (34) | ADDRESS | 4 | SRXCSAA | ADDRESS OF CICS CSA |
| (38) | ADDRESS | 4 | SRXEXLA | ADDRESS OF VTAM EXIT LIST, WHICH IS PROTECTED FOR SRB MODE USE |
| (3C) | ADDRESS | 4 | SRXKCSPA | ADDRESS OF KCSP ENTRY LIST |
| (40) | ADDRESS | 4 | SRXRSCA | ADDRESS OF OS REGISTER SAVE AREA POOL CONTROL AREA |
| (44) | ADDRESS | 4 | SRXVAA | ATTACH-SRB VALIDATION |
| (48) | ADDRESS | 4 | SRXVEA | ENTER-SRB VALIDATION |
| (4C) | ADDRESS | 4 | SRXVTA | VTAM VALIDATION DATA |
| (50) | ADDRESS | 4 | SRXVSA | VSAM VALIDATION DATA |
| (54) | BITSTRING | 1 | SRXPPKEY | CICS PP STATE PROTECT KEY |
| (58) | DBL WORD | 8 | (0) | DOUBLE WORD ALIGN FOR CDS |
| (58) | ADDRESS | 4 | SRXNXSVA | HEAD OF FREE SAVE AREA |
| (5C) | FULLWORD | 4 | | CHAIN AND COUNTER (CDS PAIR) * |
| (60) | FULLWORD | 4 | SRXSAVE (16) | SAVE AREA FOR KCSP FOR BRANCH ENTRY TO POST * |
| (A0) | DBL WORD | 8 | (0) | ROUND UP TO DOUBLE WORD |
| (A0) | 1.1. | | SRXAAD | "*-DFHSRXDS" LENGTH OF SRX |

Table 532. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (A0) | 1111 .1.1 | | SRXSBPL | "245" SUBPOOL FOR SRX (SQA) |
| DEFINITIONS OF OFFSETS IN SAVE AREAS | | | | |
| (A0) | .1.. 1... | | RSCSVCHN | "72" FREE CHAIN FIELD (HEAD OF CHAIN IS IN SRXNXSVA) * |
| (A0) | .1.. 1... | | RSCSVFRR | "72" FRR PARAMETER AREA ADDR WHEN SAVE AREA IN USE * |
| (A0) | .1.1 | | RSCSVLTH | "80" LENGTH OF SAVE AREA |
| (A0) | 1111 11.. | | RSCSBPL | "252" SUBPOOL FROM WHICH SAVE AREAS ARE OBTAINED * |
| Definitions of offsets in FRR Parm Area | | | | |
| (A0) |1.. | | FRRPSRX | "4" SRX Address |
| (A0) | 1... | | FRRPRSCS | "8" OS reg save area address |
| (A0) | 11.. | | FRRPRSA | "12" Reg save area used by FRR code |
| (A0) | ...1 .111 | | FRRPISDW | "23" SDWA indicator |
| (A0) | 11.. | | FRRPSDW | "X'0C" SDWA was not passed |

SRED - System recovery error data

CONTROL BLOCK NAME = DFHSREDS
 DESCRIPTIVE NAME = CICS TS System Recovery Error Data
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1989, 2012
 FUNCTION = Declares the SRP_ERROR_DATA structure. This contains information about an MVS abend, and is passed to global user exit XSRAB.

Table 533.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|----------------------|
| (0) | STRUCTURE | 832 | SRP_ERROR_DATA | SRP error data |
| (0) | CHARACTER | 4 | SRP_ERROR_TYPE | Abend type 'ASRB' |
| (4) | BIT(16) | 2 | SRP_SYS_ABICODE | System abend code |
| (6) | BIT(16) | 2 | SRP_USER_ABICODE | User abend code |
| (8) | CHARACTER | 4 | SRP_ERROR_TRANID | Transaction id |
| (C) | CHARACTER | 8 | SRP_ERROR_STACK_NAME | Kernel stack program |
| (14) | CHARACTER | 8 | SRP_ERROR_PPT_NAME | PPT program |
| (1C) | FULLWORD | 4 | SRP_ERROR_OFFSET | Offset in program |
| (20) | BIT(8) | 1 | SRP_ERROR_FLAGS | Flags |
| (20) | 1... | | SRP_CICS_CODE | Abend in CICS code |

Table 533. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|---|
| (20) | .1.. | | SRP_USER_CODE | Abend in user code |
| (20) | ..1. | | SRP_PPT_ENTRY | PPT program present |
| (20) | ...1 | | SRP_VALID_OFFSET | Valid offset present |
| (20) | 1... | | SRP_VALID_REASON | Abend reason present |
| (20) |1.. | | SRP_NOT_CICS_RB | CICS RB not in control at time of error |
| (20) |11 | | * | Reserved |
| (21) | CHARACTER | 4 | SRP_ERROR_REASON | Abend reason code |
| (25) | CHARACTER | 3 | * | Reserved |
| (28) | CHARACTER | 152 | SRP_CICS_ERROR_DATA | CICS error data |
| (28) | CHARACTER | 8 | SRP_CICS_EC_PSW | CICS EC PSW |
| (28) | CHARACTER | 2 | * | Padding |
| (2A) | 1... | | SRP_CICS_AR_MODE | AR mode? |
| (30) | CHARACTER | 8 | SRP_CICS_EC_INT | CICS interrupt data |
| (38) | CHARACTER | 64 | SRP_CICS_REGST | CICS GP regs |
| (78) | CHARACTER | 64 | SRP_CICS_AC_REGST | CICS Access Regs |
| (B8) | UNSIGNED | 1 | SRP_CICS_EXEC_KEY | CICS PSW key N in form X'0N' |
| (B9) | CHARACTER | 7 | * | Reserved |
| (C0) | CHARACTER | 152 | SRP_SYSTEM_ERROR_DATA | System error data |
| (C0) | CHARACTER | 8 | SRP_SYSTEM_EC_PSW | System EC PSW |
| (C0) | CHARACTER | 2 | * | Padding |
| (C2) | BIT(8) | 1 | * | Padding |
| (C3) | 1... | | SRP_SYSTEM_AR_MODE | AR mode ? |
| (C8) | CHARACTER | 8 | SRP_SYSTEM_EC_INT | System interrupt data |
| (D0) | CHARACTER | 64 | SRP_SYSTEM_REGST | System GP regs |
| (110) | CHARACTER | 64 | SRP_SYSTEM_AC_REGST | System Access regs |
| (150) | UNSIGNED | 1 | SRP_SYSTEM_EXEC_KEY | System PSW key N in form X'0N' |
| (151) | CHARACTER | 7 | * | Reserved |
| (158) | CHARACTER | 32 | SRP_ERROR_FP_REGS | FP regs |
| (158) | CHARACTER | 8 | SRP_FP_REG_0 | FP reg 0 |
| (160) | CHARACTER | 8 | SRP_FP_REG_2 | FP reg 2 |
| (168) | CHARACTER | 8 | SRP_FP_REG_4 | FP reg 4 |
| (170) | CHARACTER | 8 | SRP_FP_REG_6 | FP reg 6 |
| (178) | CHARACTER | 16 | SRP_ERROR_SUBSPACE_ INFO | |
| (178) | CHARACTER | 4 | SRP_ALET | ALET |
| (17C) | CHARACTER | 8 | SRP_SUBSPACE_TOKEN | Subspace token |
| (184) | BIT(8) | 1 | SRP_SUBSPACE_FLAGS | |
| (184) | 1... | | SRP_SUBSPACE_ACTIVE | Subspace/basespace |
| (184) | .111 1111 | | * | Reserved |

Table 533. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|---------------------|
| (185) | CHARACTER | 3 | * | Reserved |
| (188) | CHARACTER | 8 | * | Reserved |
| (190) | CHARACTER | 264 | SRP_ADDITIONAL_REGS_ INFO | |
| (190) | BIT(8) | 1 | SRP_ADDITIONAL_REGS_ FLAGS | data existence flg |
| (190) | 1... | | SRP_CICS_GPR64_AVAIL | |
| (190) | .1.. | | SRP_SYSTEM_GPR64_ AVAIL | |
| (190) | ..1. | | SRP_ADDITIONAL_FPR_ AVAIL | |
| (190) | ...1 1111 | | * | |
| (191) | CHARACTER | 7 | * | |
| (198) | CHARACTER | 128 | SRP_CICS_GP64_REGS | cics 64-bit gpr ! |
| (218) | CHARACTER | 128 | SRP_SYSTEM_GP64_REGS | system 64-bit gpr ! |
| (298) | CHARACTER | 132 | SRP_ADDITIONAL_FPR_ INFO | |
| (298) | CHARACTER | 128 | SRP_FP_REGS | all FP registers ! |
| (318) | CHARACTER | 4 | SRP_FPC_REG | fpc register ! |
| (31C) | CHARACTER | 4 | * | Reserved |
| (320) | CHARACTER | 16 | SRP_CICS_PSW16 | CICS PSW16 |
| (330) | CHARACTER | 16 | SRP_SYSTEM_PSW16 | System PSW16 |

SRT - System recovery table

CONTROL BLOCK NAME = DFHSRTDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS System Recovery Table.
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 1988
PN= REASON REL YYMDD HDXIII : REMARKS
FUNCTION =
The System Recovery Table contains a list of System Abend codes that are intercepted by the Recovery program (DFHSRP).
The user has the option of modifying the Table to meet his special requirements by use of the DFHSRT macros.
The Table is loaded at CICS/MVS initialization.

Table 534.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------------|
| (0) | STRUCTURE | 0 | DFHSRTDS | SYSTEM RECOVERY TABLE DSECT |
| (0) | CHARACTER | 4 | SRTABCID | ABEND CODE IDENTIFICATION |
| (0) |1.. | | SRTED | "(*-DFHSRTDS)" ENDING DISPLACEMENT |

SSA - Static storage area address list

MACRO NAME = DFHSSAD
 DESCRIPTIVE NAME = CICS TS STATIC STORAGE AREA ADDRESS LIST
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1980, 2012
 FUNCTION = DFHSSAD GENERATES THE DSECT THAT IS USED BY CICS/ESA
 TO REFERENCE THE LIST OF STATIC STORAGE AREA ADDRESSES.

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NOT APPLICABLE
 MODULE TYPE = MACRO
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE

MACRO NAME = DFHSSAD
 DESCRIPTIVE NAME = STATIC STORAGE AREA ADDRESS LIST
 DSECT NAME: DFHSSADS
 FUNCTION =
 The Static Storage Area Address List is a list of addresses
 of the static storage areas used by various CICS modules.
 CSASSA in the CSA Optional Features List (CSAOPFL) addresses
 the SSA address list.

Table 535.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHSSADS | STATIC STORAGE AREA ADDRESS LIST |
| (0) | ADDRESS | 4 | SSACPI | CPI static storage address |
| (4) | ADDRESS | 4 | SSAAITM | AITM static storage address |
| (8) | ADDRESS | 4 | SSAPRM | Partner Manager static storage address |
| (C) | ADDRESS | 4 | SSAEC | Event Capture static storage address |
| (10) | ADDRESS | 4 | SSADLI | DLP PARAMETER AREA & DFHDLI STORAGE ADDRESS |
| (14) | ADDRESS | 4 | SSATMP | TABLE MANAGER STATIC STORAGE AREA ADDRESS |
| (18) | BITSTRING | 1 | SSAPCFLG | DFHPCPC2 static storage flag |
| (18) | 1... | | PCSCOBGM | "X'80" Cobol getmain in progress |
| (19) | BITSTRING | 3 | | Reserved |
| (1C) | ADDRESS | 4 | SSACRL | anchor block for DFHCRL (only used during emergency restart) |
| (20) | ADDRESS | 4 | SSATSP | TEMPORARY STORAGE STATIC STORAGE AREA ADDRESS (VSAM ACB) |
| (24) | ADDRESS | 4 | SSAAPRD | APRD address of RDAB |
| (28) | ADDRESS | 4 | SSAKCP | Transaction Manager static storage addr |

Table 535. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (2C) | ADDRESS | 4 | SSASKM | SUBTASK MANAGER STATIC STORAGE ADDR |
| (30) | ADDRESS | 4 | SSASZ | Front-End Programming Interface Static |
| (34) | ADDRESS | 4 | SSADB2 | CICS/DB2 static storage |
| (38) | ADDRESS | 4 | SSARCP | RECOVERY CONTROL STATIC STORAGE ADDR |
| (3C) | ADDRESS | 4 | SSAWU | SM Restful API static storage address |
| (40) | ADDRESS | 4 | SSAXRF | XRF static storage area addr |
| (44) | ADDRESS | 4 | SSAXRP | XRP static storage area addr (storage allocated by XRA) |
| (48) | ADDRESS | 4 | SSAAPLX | APLX static storage area addr |
| (4C) | ADDRESS | 4 | SSAICP | ICP static storage area addr |
| (50) | ADDRESS | 4 | SSAAPDM | DFHAPDM's static storage area addr |
| (54) | ADDRESS | 4 | SSAMQ | CICS/MQ static storage |
| (58) | ADDRESS | 4 | SSATDSTA | Transient Data storage |
| (5C) | FULLWORD | 4 | SSASTOP | END STOPPER |
| (5C) | .11. | | SSALEN | "*-DFHSSADS" LENGTH OF STATIC AREA ADDRESS LIST |

STG - Statistics domain statistics

CONTROL BLOCK NAME = DFHSTGDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHSTGPS
 DESCRIPTIVE NAME = CICS TS Statistics domain statistics
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 (C) Copyright IBM Corp. 1986, 2000
 FUNCTION =
 This DSECT describes the statistics maintained by the
 statistics domain on its own operation.
 This control block belongs to the Statistics Domain. There
 is a single instance of the control block which is copied
 to SMF at each statistics interval.
 LIFETIME =
 This control block is created when the Statistics Domain is
 initialized and is destroyed when the domain is shut down.
 STORAGE CLASS =
 LOCATION =
 This control block is part of the Statistics domain
 anchor block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = none

DATA AREAS = none
CONTROL BLOCKS = none
GLOBAL VARIABLES (Macro pass) = none

Table 536.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHSTGDS | Statistics domain statistics |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | STGLEN | Length of data |
| (0) | .1.. ..1. | | STGIDE | "66" Stats domain id mask |
| (2) | ADDRESS | 2 | STGID | Stats domain id |
| (2) |1 | | STGVERS | "X'01" Stats version number mask |
| (4) | CHARACTER | 1 | STGDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | STGNC | Number of Interval Collections |
| (C) | FULLWORD | 4 | STGSMFW | Number of SMF Writes |
| (10) | FULLWORD | 4 | STGLDW | Length of Statistics Data Written |
| (14) | FULLWORD | 4 | | Reserved |
| (18) | FULLWORD | 4 | STGSMFS | Number of SMF Writes Suppressed |
| (1C) | FULLWORD | 4 | STGSMFE | No. SMF errors |
| (20) | FULLWORD | 4 | STGINTR | No. INT statistics records |
| (24) | FULLWORD | 4 | STGEODR | No. EOD statistics records |
| (28) | FULLWORD | 4 | STGUSSR | No. USS statistics records |
| (2C) | FULLWORD | 4 | STGREQR | No. REQ statistics records |
| (30) | FULLWORD | 4 | STGRRTTR | No. RRT statistics records |
| (34) | FULLWORD | 4 | | Reserved |
| (38) | BITSTRING | 8 | STGCSTRT | Statistics CICS Start Time |
| (40) | BITSTRING | 8 | STGLRT | Statistics Last Reset Time |
| (48) | BITSTRING | 8 | STGINTVL | Statistics Collection Interval |
| (50) | CHARACTER | 6 | STGEODT | Statistics End-of-Day Time |
| (56) | BITSTRING | 1 | STGSTRCD | STATRCD setting |
| (57) | BITSTRING | 1 | | Reserved |
| (57) | .1.1 1... | | STGEND | "*" |
| (57) | .1.1 1... | | STGCLEN | "*-STGLEN" Length of stats |

STI - Statistics record identifiers

CONTROL BLOCK NAME = DFHSTIDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSTIPS
DESCRIPTIVE NAME = CICS TS Statistics Record Identifiers.
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FUNCTION = This copybook contains the common 5 byte header for statistics records and a list (as equates) of all the valid statistics record ids for the CICS SMF record type 110, subtype 2 statistics records. The statistics record ids for the CICS SMF record type 110, subtypes 3, 4 and 5 are only noted in CICS Statistics chapter of the Customization Guide, but not in this dsect.

This copybook is provided for use by both CICS and user transactions to identify the source of a statistics record appearing at the Stats Exit, the SMF dataset or the EXEC API.

LIFETIME = There is no storage dedicated to this copybook

STORAGE CLASS = n/a

LOCATION = n/a

INNER CONTROL BLOCKS = None

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None

DATA AREAS = None

CONTROL BLOCKS = None

GLOBAL VARIABLES (Macro pass) = None

Table 537.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------------|
| (0) | STRUCTURE | 0 | DFHSTIDS | Stats record header |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | STILEN | Length of the record |
| (2) | ADDRESS | 2 | STID | Stats id |
| (4) | CHARACTER | 1 | STIVERS | Stats record version |
| (4) | 1.1. | | STIXMG | "10" Transaction manager (Globals) id |
| (4) | 1.11 | | STIXMR | "11" Transaction manager (Trans) id |
| (4) | 11.. | | STIXMC | "12" Transaction manager (Tclass) id |
| (4) | ...1 | | STIFEPIP | "16" FEPI pool id |
| (4) | ...1 ...1 | | STIFEPICT | "17" FEPI connection id |
| (4) | ...1 ..1. | | STIFEPICT | "18" FEPI target id |
| (4) | ...1 ..11 | | STISMD | "19" Storage mgr domain subpool id |
| (4) | ...1 .1.. | | STISMT | "20" Storage manager task subpool id |
| (4) | ...1 .1.1 | | STIVT | "21" VTAM stats id |
| (4) | ...1 .111 | | STIPAUTO | "23" Program Autoinstall id |
| (4) | ...1 1... | | STIAUTO | "24" Terminal Autoinstall stats id |
| (4) | ...1 1..1 | | STILDR | "25" Public Loader (Resid) id |
| (4) | ...1 11.. | | STIDBUSS | "28" DBCTL USS id |

Table 537. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------------|
| (4) | ...1 11.1 | | STISMDSA | "29" Storage manager DSA id |
| (4) | ...1 111. | | STILDG | "30" Loader (Globals) id |
| (4) | ...1 1111 | | STILDB | "31" Public Library (Resource) id |
| (4) | ..1. | | STILDY | "32" Private Library (Resource) id |
| (4) | ..1. ..1. | | STITCR | "34" Terminal control (Resid) id |
| (4) | ..1. .1.. | | STILDP | "36" Private Loader (Resid) id |
| (4) | ..1. .111 | | STILSRR | "39" LSRPOOL pool stats (resid) id |
| (4) | ..1. 1... | | STILSRFR | "40" LSRPOOL File stats (by file) id |
| (4) | ..1. 1.1. | | STITDQR | "42" TDQUEUE (Resid) id |
| (4) | ..1. 11.1 | | STITDQG | "45" TDQUEUE (Globals) id |
| (4) | ..11 | | STITSQ | "48" TSQUEUE stats id |
| (4) | ..11 .1.. | | STICONSR | "52" ISC/IRC system entry (resid) id |
| (4) | ..11 .11. | | STICONSS | "54" ISC connection - System Security |
| (4) | ..11 11.1 | | STIUSG | "61" User Domain stats id |
| (4) | ..11 111. | | STIDS | "62" Dispatcher stats id |
| (4) | ..11 1111 | | STITM | "63" Table manager stats id |
| (4) | .1.. | | STIDST | "64" Dispatcher TCB (Global) id |
| (4) | .1.. ...1 | | STIDSR | "65" Dispatcher TCB (Resource) id |
| (4) | .1.. ..1. | | STIST | "66" Stats stats id |
| (4) | .1.. ..11 | | STIFCR | "67" File Control (Resid) id |
| (4) | .1.. 1.1. | | STIMQG | "74" MQ Connection stats (Global) id |
| (4) | .1.. 11.. | | STICONMR | "76" ISC/IRC mode entry (resid) id |
| (4) | .1.1 ...1 | | STIM | "81" Monitoring stats (Global) id |
| (4) | .1.1 .1.. | | STIMNR | "84" Monitoring stats (Resid) id |
| (4) | .1.1 .1.1 | | STITDR | "85" Transaction dump (Resid) id |
| (4) | .1.1 .111 | | STITDG | "87" Transaction dump (Global) id |
| (4) | .1.1 1... | | STISDR | "88" System dump (Resid) id |

Table 537. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (4) | .1.1 1.1. | | STISDG | "90" System dump (Global) id |
| (4) | .1.1 11.. | | STILGG | "92" Logstream stats (Global) id |
| (4) | .1.1 11.1 | | STILGR | "93" Logger stats (Resource) id |
| (4) | .1.1 111. | | STILGS | "94" Logstream stats (Resource) id |
| (4) | .11. ...1 | | STINQG | "97" ENQ Manager stats (Global) id |
| (4) | .11. ..11 | | STIRMG | "99" Recovery Mgr stats (Global) id |
| (4) | .11. .1.. | | STIRLR | "100" BUNDLEs (Resource) id |
| (4) | .11. .1.1 | | STIWBG | "101" URIMAPs (Global) id |
| (4) | .11. .11. | | STID2G | "102" DB2 Connection stats (Global) id |
| (4) | .11. .111 | | STID2R | "103" DB2 Entry stats (Resource) id |
| (4) | .11. 1... | | STIWBR | "104" URIMAPs (Resource) id |
| (4) | .11. 1..1 | | STIPIR | "105" PIPELINE (Resource) id |
| (4) | .11. 1.1. | | STIPIW | "106" WEBSERVICE (Resource) id |
| (4) | .11. 1.11 | | STISOG | "107" TCP/IP (Global) id |
| (4) | .11. 11.. | | STISOR | "108" TCP/IP Services (Resource) id |
| (4) | .11. 11.1 | | STIISR | "109" IPCONN (Resource) id |
| (4) | .11. 111. | | STIW2R | "110" ATOMSERVICE (Resource) id |
| (4) | .111 | | STIDHD | "112" Doctemplate (Resource) id |
| (4) | .111 ...1 | | STIMLR | "113" XMLTRANSFORM (Resource) id |
| (4) | .111 .1.. | | STISJS | "116" JVMSERVER stats (Resource) id |
| (4) | .111 .1.1 | | STISJG | "117" JVMPOOL stats (Global) id |
| (4) | .111 .11. | | STISJR | "118" JVMPROFILE stats (Resource) id |
| (4) | .111 .111 | | STIPGR | "119" Public JVMPROGRAM (Resource) |
| (4) | .111 1... | | STIPGD | "120" Public PROGRAMDEF (Resource) |
| (4) | 1... 11.. | | STIECG | "140" EVENTBINDINGs (Global) id |

Table 537. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------------|
| (4) | 1... 11.1 | | STIECR | "141" EVENTBINDINGS (Resource) id |
| (4) | 1... 111. | | STIEPG | "142" EVENTPROCESS (Global) id |
| (4) | 1... 1111 | | STIECC | "143" CAPTURESPECS (Resource) id |
| (4) | 1..1 | | STIEPR | "144" EPADAPTERs (Resource) id |
| (4) | 1..1 ..1. | | STIPGP | "146" Private JVMPROGRAM(Resource) |
| (4) | 1..1 ..11 | | STIPGE | "147" Private PROGRAMDEF(Resource) |
| (4) |1.1 | | STIEND | "148" |
| (4) |1.1 | | STICLEN | "*-STILEN" Length of DSECT |

TACB - Transaction abend control block

CONTROL BLOCK NAME = DFHTACBS

DESCRIPTIVE NAME = CICS TS Transaction Abend Control Block

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FUNCTION =

A Transaction Abend Control Block is built, usually by DFHPCP, when abend processing is performed. It contains details of the abend, such as the abend code. The address of the latest TACB for a task is in TCAPCAB in the TCA. If multiple abends occur, one TACB per abend is built.

TACBs are chained together using ABNDNXT in the TACB.

Note that for ASRA, ASRB, ASRD and AICA abends the TACB is built by DFHSRP, so we can capture (1) the PSW and registers at the time of the program check, MVS abend or runaway, and (2) the diagnostics provided by DFHSRP such as storage hit by 0C4, and offset of program check or MVS abend in program.

Note that abends in a remote DPL server program are re-issued with the same abend code on the local system. The PSW and registers are not valid for such re-issued abends, and the TACB contains a REMOTE eyecatcher to indicate this. The TACB for such abends is built by DFHEPC.

Table 538.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 844 | DFHABND | Transaction Abend Control Block |
| (0) | CHARACTER | 8 | * | Eyecatcher information |
| (0) | HALFWORD | 2 | ABNDSAAC | - Length of dsect. |
| (2) | CHARACTER | 1 | ABNDSAAS | - Arrow(>) |
| (3) | CHARACTER | 5 | ABNDSAAL | - DSECT name ('TACB ') |
| (8) | ADDRESS | 4 | ABNDNXT | A(NEXT TACB) OR 0 |
| (C) | HALFWORD | 2 | * | RESERVED |

Table 538. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--|
| (E) | CHARACTER | 2 | ABNDFLGS | |
| (E) | CHARACTER | 1 | ABNDFLG1 | - VALID FIELDS |
| (E) | 1... | | ABNDREQI | - REQUEST ID |
| (E) | .1.. | | ABNDNXTI | - NEXT TACB |
| (E) | ..1. | | ABNDRSRI | - FAILING RESOURCE |
| (E) | ...1 | | ABNDPRGI | - FAILING PROGRAM |
| (E) | 1... | | ABNDREGI | - ABEND REGISTERS |
| (E) |1.. | | ABNDSNSI | - SENSE BYTES |
| (E) |1. | | ABNDMSGI | - A(MESSAGE) |
| (E) |1 | | ABNDSYSI | - SYSID |
| (F) | CHARACTER | 1 | ABNDFLG2 | - VALID FIELDS |
| (F) | 1... | | * | |
| (F) | .1.. | | ABNDCDE | - ABEND CODE SET |
| (F) | ..1. | | ABNDOCDE | - OP SYS AB CODE SET |
| (F) | ...1 | | ABNDREMT | - RE-ISSUING AN ABEND THAT ORIGINATED IN DPL SERVER PROGRAM |
| (F) | 1... | | ABNDIGNORE | - IGNORE HANDLES |
| (F) |1.. | | ABNDSTART | - ABEND RECORD COMPLETE, START_ABEND ISSUED |
| (F) |1. | | ABNDDMP | - DUMP REQUESTED |
| (F) |1 | | ABND_DUMP_TAKEN | - dump taken |
| (10) | CHARACTER | 8 | ABNDNAME | 'DFHTACB' EYECATCHER |
| (18) | CHARACTER | 4 | * | |
| (1C) | CHARACTER | 4 | ABNDCODE | ABEND CODE |
| (20) | CHARACTER | 8 | ABNDPRG | FAILING PROGRAM |
| (20) | CHARACTER | 8 | ABNDPGM | - ALIAS |
| (28) | CHARACTER | 4 | ABNDREQ | REQUEST ID |
| (2C) | CHARACTER | 8 | ABNDRSRC | FAILING RESOURCE |
| (34) | CHARACTER | 4 | ABNDSYST | IF ABNDREMT IS SET, THIS FIELD CONTAINS THE SYSID OF THE SYSTEM FROM WHICH THE DPL SERVER ABEND WAS RECEIVED |
| (38) | ADDRESS | 4 | * | |
| (3C) | CHARACTER | 4 | ABNDSSENS | SENSE BYTES |
| (3C) | BIT(8) | 1 | ABNDSSN1 | - SYSTEM SENSE 1 |
| (3D) | BIT(8) | 1 | ABNDSSN2 | - SYSTEM SENSE 2 |
| (3E) | BIT(8) | 1 | ABNDUSN1 | - USER SENSE 1 |
| (3F) | BIT(8) | 1 | ABNDUSN2 | - USER SENSE 2 |

Table 538. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|---|
| (40) | CHARACTER | 6 | * | ERROR MESSAGE DATA |
| (40) | ADDRESS | 4 | ABNDAMSG | - A(ERROR MESSAGE) |
| (44) | HALFWORD | 2 | ABNDMLN | - L(ERROR MESSAGE) |
| (46) | CHARACTER | 2 | * | EXTRA ASRA/ASRB INFO |
| (46) | UNSIGNED | 1 | ABNDKEY | - EXECUTION KEY N AT ABEND, HELD IN FORM X'N0'. (ASRA AND ASRB) |
| (47) | UNSIGNED | 1 | ABNDSTG | - STORAGE TYPE HIT BY 0C4. (ASRA ONLY) |
| (48) | CHARACTER | 4 | ABNDOCOD | OP SYS ABEND CODE |
| (4C) | FULLWORD | 4 | ABNDOFF | OFFSET OF ERROR IN FAILING PROGRAM. 'FFFFFFF' MEANS ERROR OCCURRED OUTSIDE PROG. (ASRA, ASRB, ASRD) |
| (50) | CHARACTER | 152 | * | |
| (50) | CHARACTER | 8 | ABNDPSNM | 'regs&psw' EYECATCHER |
| (58) | CHARACTER | 64 | ABNDGPRS | GP REGISTERS 0 - 15 ON ENTRY TO ABEND |
| (58) | CHARACTER | 64 | ABNDREGS | |
| (58) | FULLWORD | 4 | ABNDREGX (15:341926640) | |
| (98) | CHARACTER | 64 | ABNDGPRH | GP REGISTERS 0 - 15 - HIGH WRDS ON ENTRY TO ABEND |
| (98) | CHARACTER | 64 | ABNDREGH | |
| (98) | FULLWORD | 4 | ABNDRGXH (15:341926640) | |
| (D8) | CHARACTER | 8 | ABNDPSW | EC MODE PSW ON ENTRY TO ABEND (ASRA, ASRB, ASRD, AICA) |
| (E0) | CHARACTER | 8 | ABNDINT | ADDITIONAL EC MODE INFO (ASRA, ASRB, ASRD, AICA) |
| (E8) | CHARACTER | 32 | ABNDFPRS | FP REGISTERS 0, 2, 4, 6 (ASRA, ASRB, ASRD, AICA) |
| (E8) | CHARACTER | 8 | ABNDFPR0 | - FP REGISTER 0 |
| (F0) | CHARACTER | 8 | ABNDFPR2 | - FP REGISTER 2 |
| (F8) | CHARACTER | 8 | ABNDFPR4 | - FP REGISTER 4 |
| (100) | CHARACTER | 8 | ABNDFPR6 | - FP REGISTER 6 |
| (108) | CHARACTER | 64 | ABNDACRS | Access registers |
| (108) | FULLWORD | 4 | ABNDACREGS (15:341916576) | |
| (148) | CHARACTER | 4 | ABNDALET | ALET at time of abend |
| (14C) | CHARACTER | 8 | ABNDSTOKEN | STOKEN at time of abend * |

Table 538. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|----------------------------|---|
| (154) | CHARACTER | 1 | ABNDSPACE | space (basespace/subspace * at time of abend as passed on ABAB interface |
| (155) | CHARACTER | 1 | ABNDFLGX | |
| (155) | CHARACTER | 1 | ABNDFLG3 | - VALID FIELDS |
| (155) | 1... | | ABNDREGV | - ABEND REGISTERS - HIGH * |
| (155) | .1.. | | ABNDGPR64A | 64 bit general register values on entry to abend available |
| (155) | ..1. | | ABNDAFPRA | Additional FP register values on entry to abend available |
| (155) | ...1 | | ABNDGPR32A | 32 bit general register values on entry to abend available |
| (155) | 1... | | ABNDOFPRA | Original floating point register (0, 2, 4 & 6) values on entry to abend available |
| (155) |1.. | | ABNDACRA | Access register values on entry to abend available |
| (155) |1. | | ABNDAFPRA | FPC register value on entry to abend available |
| (155) |1 | | * | - RESERVED |
| (156) | CHARACTER | 2 | * | reserved |
| (158) | CHARACTER | 8 | ABNDBEAR | Breaking Event Address |
| (160) | CHARACTER | 128 | ABNDGPR64 | |
| (160) | CHARACTER | 8 | ABNDREG64 (15:341916576) | 64 bit general register (0-15) values on entry to abend, if ABNDGPR64A on |
| (1E0) | CHARACTER | 132 | ABNDAFPR | Additional floating point |
| (1E0) | CHARACTER | 8 | ABNDAFPREGS (15:341933872) | values (0-15) on entry to abend, if ABNDAFPRA on |
| (260) | FULLWORD | 4 | ABNDFPCR | Floating point control register value on entry to abend, if ABNDAFPRA on |
| (264) | CHARACTER | 4 | * | Spare |
| (268) | CHARACTER | 16 | ABNDPSW16 | 16 byte PSW on entry to abend (ASRA, ASRB, ASRD, AICA) |
| (278) | CHARACTER | 8 | ABNDTEA | 64-bit exception address |
| Application context fields or nulls if no context | | | | |
| (280) | CHARACTER | 64 | ABNDPLAT | Platform name |
| (2C0) | CHARACTER | 64 | ABNDAPPL | Application name |
| (300) | CHARACTER | 64 | ABNDOPER | Operation name |
| (340) | UNSIGNED | 4 | ABNDAMAJ | Major version num |
| (344) | UNSIGNED | 4 | ABNDAMIN | Minor version num |

Table 538. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (348) | UNSIGNED | 4 | ABNDAMIC | Micro version num |
| (34C) | CHARACTER | 0 | ABNDMSGT | MESSAGE TEXT (IF ANY) |

Constants

Table 539.

| Len | Type | Value | Name | Description |
|----------------|---------|-------|-------------|-------------------|
| ABNDSTG values | | | | |
| 1 | DECIMAL | 0 | ABNDNOHIT | No hit or not 0C4 |
| 1 | DECIMAL | 1 | ABNDCDSA | CDSA hit |
| 1 | DECIMAL | 2 | ABNDECDSA | ECDSA hit |
| 1 | DECIMAL | 3 | ABNDERDSA | ERDSA hit |
| 1 | DECIMAL | 4 | ABNDRDSA | RDSA hit |
| 1 | DECIMAL | 5 | ABNDEUDSA | EUDSA hit |
| 1 | DECIMAL | 6 | ABNDUDSA | UDSA hit |
| 1 | DECIMAL | 7 | ABNDETDSA | ETDSA hit |
| 1 | DECIMAL | 8 | ABNDGCDSA | GCDSA hit |
| 1 | DECIMAL | 9 | ABNDGUDSA | GUDSA hit |
| ABNDKEY values | | | | |
| 1 | DECIMAL | 144 | ABNDUSERKEY | USER key x'90' |
| 1 | DECIMAL | 128 | ABNDCICSKEY | CICS key x'80' |

TACLE - Terminal abnormal condition line entry

CONTROL BLOCK NAME = DFHTCTLE
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Terminal Abnormal Condition Line Entry
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(C) Copyright IBM Corp. 1991
FUNCTION =
Terminal Control Table Line Entry Prefix.

Table 540.

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 0 | DFHTCTLE | DUMMY SECTION - LINE PREFIX |
| (0) | FULLWORD | 4 | TCTLEPSA | Storage accounting area |
| (4) | FULLWORD | 4 | TCTLEPCH | Error chain pointer |
| TERMINAL ERROR CODES | | | | |
| (8) | CHARACTER | 1 | TCTLEPFL | Error flags |
| (8) |1 | | TCECTIO | "X'01'" Terminal I/O error code |
| (8) | 1... ...1 | | TCEMCMTL | "X'81'" Message too long error code |

Table 540. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (8) | 1... .1.. | | TCEMCTCT | "X'84'" TCT search error code |
| (8) | 1... .1.1 | | TCEMCROT | "X'85'" Output rejected - read only |
| (8) | 1... .111 | | TCEMCUI | "X'87'" Unsolicited input on control UN |
| (8) | 1... 1... | | TCEMCIER | "X'88'" Input event rejected error code |
| (8) | 1... 11.. | | TCEMCOER | "X'8C'" Output event rejected code |
| (8) | 1... 11.1 | | TCEMCOLZ | "X'8D'" Output length of zero error |
| (8) | 1... 111. | | TCEMCNOA | "X'8E'" No output area error code |
| (8) | 1... 1111 | | TCEMCOAE | "X'8F'" Output area exceeded error code |
| (8) | 1..1 .1.. | | TCEMCUC | "X'94'" Unit check |
| (8) | 1..1 .1.1 | | TCEMCUCS | "X'95'" Unit check - should not occur |
| (8) | 1..1 .11. | | TCEMCUE | "X'96'" Unit exception |
| (8) | 1..1 .111 | | TCEMCUES | "X'97'" Unit exception should not occur |
| (8) | 1..1 1..1 | | TCEMCUDT | "X'99'" Undetermined unit error |
| (8) | 1..1 1111 | | TCEMIDR | "X'9F'" Invalid DEST -- TCAM return |
| (9) | CHARACTER | 1 | TCTLEPF2 | Flags 2 |
| (9) |1 | | TCEIDTD | "X'01'" Dummy term displacement indicator |
| (9) |1. | | TCEIRE | "X'02'" Repeating error indicator |
| (9) |1.. | | TACCUER | "X'04'" Control unit error flag |
| (9) | 1... | | TACNPRO | "X'08'" Non-process error flag |
| (9) | ...1 | | TCTECHLE | "X'10'" Error chain last entry flag |
| (9) | ..1. | | TACNTEP | "X'20'" Last TEP call indicator |
| (A) | HALFWORD | 2 | | Reserved |
| (C) | FULLWORD | 4 | TCTLEPTE | Terminal entry address |
| (C) | ...1 | | TCTLEPRE | "*-DFHTCTLE" Prefix length |

TCA - Task Control Area

CONTROL BLOCK NAME = DFHTCAPS
 DESCRIPTIVE NAME = CICS TS TASK CONTROL AREA
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1980, 2012
 FUNCTION = The DFHTCAPS copybook declares the structure for the TASK CONTROL AREA (TCA). The TCA is the primary control block used by CICS to represent a transaction within AP domain.
 The TCA is a single area of storage described by structure DFHUSTCA. However, it is also possible to access the TCA as two separate structures, DFHUSTCA (User area) and DFHTCADY (System area). Field TCASYAA in DFHUSTCA contains the address of DFHTCADY, for this purpose. When reading code that deals with TCA fields, it is important to know which method of access is used.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NOT APPLICABLE
 MODULE TYPE = COPY
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE
 PRODUCT-SENSITIVE PROGRAMMING INTERFACE
 The following field forms part of the Product-Sensitive Programming Interface:
 TCAICTR

Table 541.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 648 | DFHUSTCA | |
| TASK CONTROL AREA | | | | |
| (0) | ADDRESS | 4 | TCASYAA | TCA SYSTEM AREA ADDRESS |
| (4) | BIT(8) | 1 | TCAXMSRF | XM secondary request flags * |
| (4) | 1... | | TCAENQ31 | 1 - ENQ arg is above the line * 0 - ENQ arg is below the line |
| (4) | .1.. | | TCAENQTA | 1 - MAXLIFETIME=TASK 0 - MAXLIFETIME=LUW |
| (4) | ..11 1111 | | * | Reserved |
| (5) | UNSIGNED | 1 | TCATCQL4 | ENQ arg len (31 bit args) |
| (5) | UNSIGNED | 1 | TCATCQLN | ENQ arg len (24 bit args) |
| (6) | UNSIGNED | 1 | TCAGFLG1 | TCA general flag1 |
| (6) | 1... | | TCAACPAC | DFHACP active for WEB |
| (6) | .1.. | | TCASDTSK | Shutdown task |
| (6) | ..11 1111 | | * | Reserved |
| (7) | BIT(8) | 1 | TCAFCI | facility control indicator x'00' indicates NONE. |
| (7) | 111. | | * | Reserved |

Table 541. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------|-----------|-----|------------|---|
| (7) | ...1 | | TCAFCAID | AID FACILITY MASK. |
| (7) | 1... | | TCAFCDCM | Destination Control indicator * |
| (7) |1.. | | TCAFCICM | Interval Control indicator * |
| (7) |1. | | TCAFCMCM | K C P MACRO FILE MASK |
| (7) |1 | | TCAFCTRM | Terminal Control indicator * |
| (8) | ADDRESS | 4 | TCAFCAAA | FACILITY CONTROL AREA ADDRESS, CONTENTS RELATED TO THE SYSTEM OR TASK-DEPENDENT FACILITY ASSOCIATED WITH THE TASK |
| (8) | ADDRESS | 4 | TCAFCPTR | facility control area address * |
| (C) | ADDRESS | 4 | TCACSOAD | A(CSA OPTIONAL FEATURES LIST) |
| (10) | ADDRESS | 8 | TCALCDSA | A(CURRENT KERNEL STACK ENTRY) |
| TASK CONTROL SECTION | | | | |
| (18) | CHARACTER | 0 | TCAKCPBA | |
| (18) | CHARACTER | 4 | TCATCTFA | TCTTE ADDRESS, DCI=TERMINAL |
| (18) | CHARACTER | 4 | TCATCEA | TASK CONTROL EVENT CONTROL BLOCK ADDRESS |
| (18) | ADDRESS | 4 | TCATCQA4 | ENQ arg addr (31 bit) |
| (18) | ADDRESS | 4 | TCATCQA | ENQ arg addr (24 bit) |
| (1C) | CHARACTER | 1 | TCATCEI | TASK CONTROL EVENT CONTROL INDICATOR |
| (1C) | BIT(8) | 1 | TCATCDC | TASK CONTROL DISPATCH CONTROL INDICATOR MASK MASK ABEND REQUESTED |
| (1D) | BIT(8) | 1 | TCATCTR | TASK CONTROL TYPE OF REQUEST |
| (1D) | 111. | | * | Reserved |
| (1D) | ...1 | | TCATOM | Attach request |
| (1D) | 1111 | | * | Reserved |
| (1E) | CHARACTER | 1 | * | Reserved |
| (1F) | CHARACTER | 1 | TCAPCABR | PROGRAM CONTROL TASK ABEND REQUEST |
| (1F) | BIT(8) | 1 | TCAPCDMP | PROGRAM CONTROL TASK DUMPED INDICATOR |
| (20) | BIT(8) | 1 | TCAPURGI | TASK PURGE INDICATOR |
| (20) | 1... | | * | Reserved (was TCATPURG) |

Table 541. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (20) | .1.. | | TCASPURG | system purgeable mask |
| (20) | ..11 1... | | * | Reserved |
| (20) |1.. | | TCAJOURN | Journalling in control |
| (20) |11 | | * | Reserved (was TCASTGFZ) |
| (21) | CHARACTER | 2 | * | Reserved |
| (23) | BIT(8) | 1 | TCASYABI | SYSTEM ABEND REQUEST INDICATOR |
| (23) | 1... | | TCAABIPM | ABEND IN PROGRESS MASK used during task termination |
| (23) | .1.. | | TCAABREC | ABEND RECOVERY IN PROGRESS * used to detect looping abends |
| (23) | ..1. | | TCAABDPM | ABEND DUMP IN PROGRESS MASK |
| (23) | ...1 | | TCAABRAM | RECURSIVE ABEND MASK |
| (23) | 1... | | TCAABRPC | RECURSIVE PROG INT. |
| (23) |1.. | | TCAABPAA | POLICY ABEND MASK |
| (23) |1. | | TCAA0C4 | HANDLING 0C4 ABEND |
| (23) |1 | | * | Reserved |
| Miscellaneous | | | | |
| (24) | CHARACTER | 0 | * | |
| (24) | CHARACTER | 4 | TCATXNO | XM supplied txn number |
| (28) | CHARACTER | 4 | TCASVTRN | TRANSID saved |
| (2C) | BIT(8) | 1 | TCASAVE1 | |
| (2C) | 1... | | TCASVEFT | Facility type saved |
| (2C) | .111 1111 | | * | |
| (2D) | BIT(8) | 1 | TCAJDBC | Used by JDBC syncpoints |
| (2D) | 1... | | TCASYNCP | Syncpoint has occurred |
| (2D) | .1.. | | TCAROLLB | Rollback has occurred |
| (2D) | ..11 1111 | | * | |
| (2E) | HALFWORD | 2 | TCAECSEQ | Event capture seq. no. |
| STORAGE CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCUSC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHSC TYPE=USERTCA DESCRIPTIVE NAME = CICS TS DFHSC USER OVERLAY OF THE DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1985, 2010 STATUS = 6.9.0 | | | | |

Table 541. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------|-----------|-----|--------------------------------|---|
| (30) | ADDRESS | 4 | TCASCSA | ADDRESS OF STORAGE AFTER IT HAS BEEN OBTAINED BY STORAGE CONTROL AND INITIALIZED TO REQUESTED CONFIGURATION |
| (34) | BIT(8) | 1 | TCASCTR | STORAGE CONTROL TYPE OF REQUEST |
| (34) | 1... | | TCASCGET | Getmain request |
| (34) | .1.. | | TCASCFRE | Freemain request |
| (34) | ..11 1... | | * | Reserved |
| (34) |1.. | | TCASCUSR | User storage freemain |
| (34) |11 | | * | Reserved |
| (35) | CHARACTER | 1 | TCASCIB | VALUE TO WHICH STORAGE IS TO BE INITIALIZED: ZERO, BLANKS, ETC. |
| (36) | UNSIGNED | 2 | TCASCNB | 16-BIT UNSIGNED BINARY INTEGER REPRESENTING NUMBER OF BYTES REQUESTED FOR NON-PROGRAM STORAGE OR NUMBER OF DOUBLEWORDS REQUESTED FOR PROGRAM STORAGE. |
| REGISTER STORAGE | | | | |
| (38) | ADDRESS | 4 | TCASCRS (4294967304:342011928) | STORAGE CONTROL REGISTER STORAGE AREA: STORES REGISTERS 14 - 5 |
| COMMON CONTROL | | | | |
| (58) | FULLWORD | 4 | TCACCCA (4294967309:342011928) | common control communication area used by some AP Domain modules as a parameter area * |
| (8C) | FULLWORD | 4 | TCACCRS (4294967301:342011928) | common control register save area used by some AP Domain modules. |
| (A0) | ADDRESS | 8 | TCARTNSV | Internal return register save area |
| (A8) | ADDRESS | 8 | TCALGR1 | Save area for R1 and |
| (B0) | ADDRESS | 8 | TCALGR14 | R14 in DFHLFM UNSTACK |
| (B8) | FULLWORD | 4 | * (4294967299:342011928) | Reserved |
| (C4) | HALFWORD | 2 | TCACCSV1 | SAVE AREA FOR BYTES OVERLAID BY DFHDC |
| (C6) | HALFWORD | 2 | * | Reserved |

Table 541. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (C8) | FULLWORD | 4 | TCACCSV2 | SAVE AREA FOR BYTES OVERLAID BY DUMP CODE |
| (CC) | CHARACTER | 0 | TCACCEA | COMMON CONTROL ENDING ADDRESS |
| TRACE | | | | |
| CONTROL BLOCK NAME = DFHTCUTR NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHTR TYPE=USERTCA DESCRIPTIVE NAME = CICS TS DFHTR USER OVERLAY OF THE DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1983, 1990 STATUS = 6.9.0 | | | | |
| (CC) | CHARACTER | 8 | TCATRF | Data area 1 and 2 |
| (CC) | FULLWORD | 4 | TCATRF1 | TRACE ENTRY DATA AREA 1 |
| (D0) | FULLWORD | 4 | TCATRF2 | TRACE ENTRY DATA AREA 2 |
| (D4) | BIT(8) | 1 | TCATRTR | TYPE OF TRACE REQUEST |
| (D4) | 11.. | | TCATRET | Entry type '00' Make trace entry '01' Turn trace off '10' Turn trace on '11' Extended interface |
| (D4) | ..1. | | TCATRSM | System macro request |
| (D4) | ...1 | | * | Reserved |
| (D4) | 1111 | | TCATRST | Request sub-type X'F' Reserved X'E' Reserved X'D' Trace on/off X'C' Reserved X'B' Reserved X'A' Reserved X'9' Reserved |
| (D4) | 1... | | * | X'8' PP entry X'7' Reserved X'6' Reserved X'5' LIFO exit trace |
| (D4) |1.. | | TCATRSYS | X'4' System trace X'3' LIFO enter trace |
| (D4) |1. | | TCATRUSE | X'2' User trace |
| (D4) |1 | | * | X'1' Reserved X'0' Reserved |
| (D5) | BIT(8) | 1 | TCATRID | TRACE ENTRY IDENTIFICATION |
| (D6) | BIT(8) | 1 | TCATRMF | TCA TRACE CONTROL |
| (D6) | 1... | | TCATRSI | User trace for single task |
| (D6) | .111 1111 | | * | Reserved |
| (D7) | BIT(8) | 1 | TCATRID1 | TRACE ENTRY I.D.EXTENSION |
| (D8) | ADDRESS | 8 | TCAEISTG | COMMAND LEVEL ASSEMBLER STORAGE |
| (E0) | FULLWORD | 4 | * | Reserved |

Table 541. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (E4) | ADDRESS | 4 | TCAJCAAD | JOURNAL CONTROL AREA (JCA) ADDRESS |
| (E8) | ADDRESS | 4 | TCACSAAD | CSA address |
| (EC) | ADDRESS | 4 | TCATWAAD | Address of TWA in User storage * |
| (F0) | FULLWORD | 4 | TCATWALN | Length of TWA |
| (F4) | ADDRESS | 4 | TCAPCMEA | XPCTA, XPCHAIR, XPCFTCH modified address |
| (F8) | BIT(8) | 1 | TCAPCRFL | XPCTA retry execution key |
| (F9) | BIT(8) | 1 | TCAPCSTG | Storage hit by ASRA 0C4 |
| (FA) | BIT(8) | 1 | * | Reserved |
| (FB) | BIT(8) | 1 | TCAMFLAG | Miscellaneous flags |
| (FB) | 1... | | TCADUPAB | Duplicate abend |
| (FB) | .1.. | | TCAADPTY | Adapter fields set |
| (FB) | ..1. | | TCAADPTN | Adapter fields not set |
| (FB) | ...1 1111 | | * | Reserved |
| (FC) | ADDRESS | 4 | TCAPRUWA | APLI ruwa pool |
| (100) | CHARACTER | 0 | * | End of User area |
| (100) | CHARACTER | 0 | DFHTCADY | |
| SYSTEM AREA | | | | |
| (100) | CHARACTER | 0 | DFHSYTCA | |
| (100) | CHARACTER | 8 | TCACPROG | Current program name |
| TASK CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSKC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHKC TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHKC system overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1985, 2010 STATUS = 6.9.0 | | | | |
| (108) | CHARACTER | 4 | TCATXNUM | TXN MGR transaction num |
| (108) | BIT(8) | 1 | * | X'00' |
| (109) | CHARACTER | 3 | TCAKCTTA | TASK IDENTIFICATION NUM |
| (10C) | CHARACTER | 8 | TCASPOOL | TCA subpool id |
| (114) | ADDRESS | 4 | * | Reserved |
| (118) | ADDRESS | 4 | TCARSTSK | RESUME TASK'S TCA ADDRESS |
| (11C) | ADDRESS | 4 | TCADWLBA | DEFERRED WORK LIST BEGIN ADDRESS |
| INTERVAL CONTROL SECTION | | | | |

Table 541. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| CONTROL BLOCK NAME = DFHTCSIC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHIC TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHIC System Overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1984, 2014 STATUS = 6.9.0 INTERVAL CONTROL SECTION | | | | |
| (120) | ADDRESS | 4 | TCAICEAD | INTERVAL CONTROL ELEMENT ADDRESS |
| (124) | ADDRESS | 4 | * | Reserved |
| PROGRAM CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSPC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHPC TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS Section used by PROGRAM CONTROL Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1983, 2012 STATUS = 6.9.0 | | | | |
| (128) | ADDRESS | 4 | TCAPCSA | Head of chain of PESAs used to stack ap info over a link |
| (12C) | ADDRESS | 4 | * | Reserved |
| (130) | CHARACTER | 16 | TCAPCTWA | PROGRAM CONTROL WORK AREA |
| (130) | ADDRESS | 8 | TCAPCHS | HLL Save Area |
| TCAPCDSA IS THE HEAD OF THE CHAIN OF DYNAMIC STORAGE USED BY ASSEMBLER APPLICATION PROGRAMS TO MAKE THEM REENTRANT. | | | | |
| (138) | ADDRESS | 8 | TCAPCDSA | Dynamic Storage Hdr |
| (140) | ADDRESS | 4 | TCALEDT | Address of data to be added to the transaction dump |
| (144) | CHARACTER | 8 | TCAPCIPN | Name of invoking program after DPL from client |
| TRANSIENT DATA SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSTD NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHTD TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHTD system overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1984, 2014 STATUS = 6.9.0 TRANSIENT DATA SECTION | | | | |
| (14C) | ADDRESS | 4 | TCAIDAA | TD INPUT AREA |
| BASIC MAPPING SUPPORT | | | | |

Table 541. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| CONTROL BLOCK NAME = DFHTCSBM NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHBMS TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHBMS System Overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1993 STATUS = 6.9.0 | | | | |
| (150) | ADDRESS | 4 | TCAOSPWA | OUTPUT SERVICE PROCESSOR WORK AREA ADDRESS (BMS) |
| (154) | CHARACTER | 3 | * | Reserved |
| (157) | BIT(8) | 1 | TCADLII | DL/I INDICATOR |
| (157) | 1... | | TCADLISI | DL/I SCHEDULING INITIATED |
| (157) | .111 1111 | | * | Reserved |
| RECOVERY / RESTART SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSSP NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHSP TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHSP SYSTEM OVERLAY OF THE DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1985, 2010 STATUS = 6.9.0 RECOVERY / RESTART SECTION | | | | |
| (158) | BIT(8) | 1 | TCAZLUWD | TASK'S LOGICAL UNIT OF WORK (LUW) DEFINITION |
| (158) | 1... | | TCAZAKPT | Activity keypoint |
| (158) | .111 1111 | | * | Reserved |
| (159) | BIT(8) | 1 | TCAZLUWT | TASK'S LUW STATUS |
| (159) | 1... | | TCAZRRD | A READ HAS OCCURRED IN THIS LUW |
| (159) | .1.. | | TCAZRWRT | A WRITE HAS OCCURRED IN THIS LUW |
| (159) | ..1. | | TCAZINDT | Next SHUNT is 'in-doubt' |
| (159) | ...1 1... | | * | Reserved |
| (159) | 1.. | | TCAZDLIC | DL/I-SYNCHRONOUS 4 COMMUNICATION ESTABLISHED |
| (159) |11 | | * | Reserved |
| (15A) | BIT(8) | 1 | TCABRPS | Rollback status |
| (15A) | 1... | | * | RESERVED |
| (15A) | .1.. | | TCATXBCK | TEXCI BACKOUT |
| (15A) | ..1. | | TCABRPSR | Backout-Reqd prog state |
| (15A) | ...1 1111 | | * | Reserved |
| (15B) | CHARACTER | 1 | * | Reserved |

Table 541. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (15C) | ADDRESS | 4 | TCADWASV | SAVE ADDR OF DWE CHN. |
| (160) | CHARACTER | 4 | * | Reserved |
| (164) | CHARACTER | 4 | TCAORABC | ORIGINAL ABEND CODE |
| (164) | CHARACTER | 4 | TCADBABC | ABEND CODE OF APPLICATION. |
| (168) | BIT(8) | 1 | TCATRTO | TERMINAL READ TIME OUT VALUE |
| (169) | BIT(8) | 1 | TCAFLAGS | MISCELLANEOUS FLAGS |
| (169) | 1... | | * | Reserved |
| (169) | .1.. | | TCANOTRC | SUPPRESS TRACE FOR TASK |
| (169) | ..1. | | * | Reserved |
| (169) | ...1 | | TCASZUSE | FEPI Access in Task |
| (169) | 1... | | * | Reserved |
| (169) |1.. | | TCAUKCAL | MAKE CALL IN USER KEY |
| (169) |11 | | * | Reserved |
| (16A) | BIT(8) | 1 | TCASCS | SCREEN SIZE SELECTION ETC |
| (16A) | 1... | | TCAFASTL | FAST LINK to DFHMIRS |
| (16A) | .111 | | * | |
| (16A) | 1... | | TCASCSZ | ALTERNATE SCREEN SIZE |
| (16A) |1.. | | * | |
| (16A) |1. | | TCAPRTCM | BMS TEXT PRINTER COMPATIBILITY |
| (16A) |1 | | TCATCABT | DFHACP abending flag |
| (16B) | BIT(8) | 1 | TCAIRTCB | INTER REGION RETURN CODE |
| (16C) | ADDRESS | 4 | TCARLB | Address of TMP lock block |
| (170) | ADDRESS | 4 | TCAEMSSV | SAVE AREA FOR DFHEMS |
| (174) | CHARACTER | 3 | * | Reserved |
| (177) | BIT(8) | 1 | TCAEISFL | EXEC CICS I/F FLAG |
| (178) | ADDRESS | 4 | TCAEISA | EXEC CICS I/F STRUCT ADDR |
| (17C) | ADDRESS | 4 | TCACAAAD | LE/370 Anchor Address |
| (180) | ADDRESS | 4 | TCACEEPT | LE/370 Parameter List Address * |
| (184) | ADDRESS | 4 | TCAIHIRE | III task return addr |
| (188) | ADDRESS | 8 | TCAREGPT | EXEC CICS regs |
| (190) | FULLWORD | 4 | TCAXXTCB | XPTCB or SJTCB blk addr |
| (194) | ADDRESS | 4 | * | Reserved |
| (198) | CHARACTER | 4 | TCAKCTTI | Assigned transaction id |

Table 541. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (19C) | ADDRESS | 4 | TCATCUCN | TCTTE USER CHAIN FIELD. |
| (1A0) | ADDRESS | 4 | TCAXFS23 | XFSTG FOR TRANSFORMATION 2 AND 3 |
| (1A4) | ADDRESS | 4 | TCARSBA | ADDRESS OF REMOTE SCHEDULING BLOCK |
| (1A8) | CHARACTER | 4 | TCAKCOID | ID WHICH ORIGINATED TASK |
| (1AC) | BIT(8) | 1 | TCADLIST | DLI STATUS INFORMATION |
| (1AC) | 1... | | TCAUIBAQ | UIB ACQUIRED |
| (1AC) | .111 | | * | Reserved |
| (1AC) | 1... | | TCAEXDLI | EXEC DLI |
| (1AC) |1.. | | * | Reserved |
| (1AC) |1. | | TCAREMOT | REMOTE |
| (1AC) |1 | | TCADBCTL | DBCTL |
| (1AD) | CHARACTER | 2 | TCAACMSG | DFHACP MSG NUMBER |
| (1AF) | BIT(8) | 1 | TCAAPFLG | AP DOMAIN FLAGS |
| (1AF) | 1... | | TCARSREQ | RESUME REQUIRED |
| (1AF) | .1.. | | TCAXMSOT | APXMI should invoke APXM |
| (1AF) | ..1. | | TCAROUTE | Transaction route attach has been sent to a remote CICS system |
| (1AF) | ...1 | | TCADSAUT | disable audit SPI if |
| (1AF) | 1... | | TCATSUSP | DFHAPIN suspend |
| (1AF) |111 | | * | Reserved |
| (1B0) | CHARACTER | 3 | * | Reserved |
| (1B3) | BIT(8) | 1 | TCAAAM | APPLICATION ADDRESSING MODE NB BITS 1 - 6 OF BYTE TCAAAM MUST BE ZERO |
| (1B3) | 1... | | TCAAAM31 | 31-BIT MODE |
| (1B3) | .1.. | | TCAAAM64 | 64-BIT MODE |
| (1B4) | ADDRESS | 4 | * | Reserved |
| (1B8) | CHARACTER | 4 | TCACRABC | CURRENT ABEND CODE |
| (1B8) | CHARACTER | 4 | TCAPCABC | CURRENT ABEND CODE |
| (1BC) | CHARACTER | 3 | * | Reserved |
| (1BF) | CHARACTER | 1 | TCAIACB | ABEND CONTROL BLOCK STATUS * |
| (1C0) | ADDRESS | 4 | TCAPCACB | ABEND CONTROL BLOCK ADDRESS |
| (1C4) | CHARACTER | 4 | TCASENSE | SENSE FIELDS |

Table 541. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (1C4) | CHARACTER | 2 | TCASS1 | SYSTEM SENSE |
| (1C6) | CHARACTER | 2 | TCAUS1 | USER MSG NO. |
| (1C8) | ADDRESS | 4 | TCATIEBA | TIE CHAIN FOR API ROUTER |
| (1CC) | ADDRESS | 4 | TCADMTLA | ADDRESS OF CSD MANAGER TASK LOCAL STORAGE |
| (1D0) | FULLWORD | 4 | TCATRRC | Transaction Routing RC |
| (1D4) | CHARACTER | 3 | * | Reserved |
| (1D7) | CHARACTER | 5 | TCAJVM | JVM information |
| (1D7) | BIT(8) | 1 | TCACJVMF | DFHCJVM flags |
| (1D7) | 1... | | * | Reserved |
| (1D7) | .1.. | | * | Reserved |
| (1D7) | ..1. | | TCAJVMXT | System.exit from JVM |
| (1D7) | ...1 1111 | | * | Reserved |
| (1D8) | CHARACTER | 4 | TCAJVMTK | Token for JVM instance |
| (1DC) | ADDRESS | 4 | TCAPCXA | PROGRAM LOAD POINT ADDRESS |
| (1E0) | CHARACTER | 8 | TCATRRSN | RESOURCE NAME |
| BASIC MAPPING SUPPORT FAST PATH FIELDS. | | | | |
| (1E8) | CHARACTER | 8 | TCABMMSN | SUFFIXED NAME OF MOST RECENTLY LOADED BMS MAPSET |
| (1F0) | ADDRESS | 4 | TCABMMSA | ADDRESS OF MOST RECENT BMS MAPSET |
| (1F4) | CHARACTER | 1 | TCABMMW | WIDTH OF MOST RECENT BMS MAP |
| (1F5) | CHARACTER | 1 | TCABMMH | HEIGHT OF MOST RECENT BMS MAP |
| (1F6) | CHARACTER | 1 | TCABMMC | COLUMN POSITION MOST RECENT BMS MAP |
| (1F7) | CHARACTER | 1 | TCABMML | LINE POSITION MOST RECENT BMS MAP |
| LU6.2 INFORMATION | | | | |
| (1F8) | ADDRESS | 4 | TCAALUCX | ADDRESS OF LU6.2 EXTENSION |
| (1FC) | FULLWORD | 4 | TCATMRLP | TMP read lock list addr. |
| (200) | CHARACTER | 4 | TCAICREQ | REQID from an IC START |
| TASK CONTROL - TABLE MANAGER INTERFACE | | | | |
| (204) | BIT(8) | 1 | TCAALFLG | Flag byte used by DFHALP |
| (204) | 1... | | TCAALRES | A RESUME is required |
| (204) | .111 1111 | | * | Reserved |
| (205) | CHARACTER | 3 | * | Reserved |

Table 541. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (208) | ADDRESS | 4 | TCADOMPM | USED as plist addr |
| (20C) | CHARACTER | 8 | TCATRIDQ | TRACE ID QUALIFIER |
| TRANSIENT DATA | | | | |
| CONTROL BLOCK NAME = DFHTC2TD NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHTD TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHTD system overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1984, 2014 STATUS = 6.9.0 TRANSIENT DATA - NEW 1.7 FIELDS | | | | |
| (214) | CHARACTER | 4 | TCADSTID | TRANSIENT DATA DESTID |
| SPECIAL FEATURES | | | | |
| (218) | ADDRESS | 4 | TCAPSDBA | BASE POINTER FOR TASK PDB CHAIN FOR MVS * |
| (21C) | CHARACTER | 2 | * | Reserved |
| Transaction Routing parameters (DFHAPRT->DFHZIS2) & ATI routing for PF starts | | | | |
| (21E) | BIT(8) | 1 | TCAAPRTF | Transaction Routing parameter flags |
| (21E) | 1... | | TCAPRIP | Priority is to be passed to the AOR |
| (21E) | .1.. | | TCASYSNP | Applid present |
| (21E) | ..1. | | TCARTST | Routable start |
| (21E) | ...1 | | TCATRMNP | Terminal netname present |
| (21E) | 1111 | | * | Reserved |
| (21F) | UNSIGNED | 1 | TCATRPRI | Priority value to pass to AOR |
| (220) | ADDRESS | 4 | TCADSBA | DBCTL SCHEDULING BLOCK ADDRESS * |
| (224) | CHARACTER | 4 | TCADLUIB | USER INTERFACE BLOCK (UIB) * |
| (224) | ADDRESS | 4 | TCADLIBA | UIB ADDRESS |
| (228) | ADDRESS | 4 | TCAAPRET | return address for DETACH |
| (22C) | CHARACTER | 8 | TCAPLAN | DB2 plan in use if any |
| (234) | CHARACTER | 8 | TCATRMNE | Terminal netname |
| (23C) | CHARACTER | 4 | TCASUTOK | suspend/resume token for general AP use |
| (240) | ADDRESS | 8 | TCAEIUSA | A(EIUS). The user part of the EXEC CICS interface structure |
| (248) | CHARACTER | 8 | TCASYSNE | Applid of owning Terminal |
| CPI-C | | | | |
| (250) | ADDRESS | 4 | TCACPCCN | base pointer for CPC chain |
| (254) | ADDRESS | 4 | TCATRU24 | Head of TRUE save area |

Table 541. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (258) | CHARACTER | 1 | TCAFCNOM | Copy of FCN OLDMODE |
| (259) | CHARACTER | 3 | * | Reserved |
| (25C) | ADDRESS | 4 | * | Reserved |
| FIELDS FOR USE BY DFHSRP (24 BYTES) | | | | |
| (260) | CHARACTER | 24 | TCASRDAT | Fields for SRP use only |
| (260) | CHARACTER | 8 | TCASRPGM | Name of abended program |
| (268) | CHARACTER | 8 | TCASRPCD | Kernel error code xxx/yyyy |
| (268) | CHARACTER | 3 | TCASYABD | xxx |
| (26B) | CHARACTER | 1 | * | / |
| (26C) | CHARACTER | 4 | TCATRABD | yyyy |
| (270) | FULLWORD | 4 | TCASROFF | Offset of abend in program |
| (270) | ADDRESS | 4 | TCAKEDAD | -> Kernel error data copy |
| (274) | BIT(8) | 1 | TCASRFLG | SRP flag byte |
| (274) | 1... | | TCASRDMP | System dump required |
| (274) | .1.. | | TCAEMSIC | EMS deliberate prog check |
| (274) | ..11 | | * | Reserved |
| (274) | 1... | | TCASRAP | AP0001 abend issued by DFHSRP |
| (274) |1.. | | TCACHKAD | EDF DELIBERATE ABEND |
| (274) |1. | | TCAFCNFO | FCN abend on FO TCB |
| (274) |1 | | TCACNCHK | Channel storage check in progress |
| (275) | UNSIGNED | 1 | TCASRLOC | Abend in application? |
| (276) | BIT(16) | 2 | TCASREXC | EXC trace point id |
| FIELDS FOR THE REMOTE SYSTEM AND TRANSACTION NAMES | | | | |
| (278) | CHARACTER | 4 | TCARMTRA | Remote Transaction name |
| (27C) | CHARACTER | 4 | TCARMSYS | Remote System name |
| FIELDS FOR COMMAND AUDIT | | | | |
| (280) | CHARACTER | 8 | TCAWUIID | USERID PASSED FROM WUI |
| END OF SYSTEM AREA | | | | |
| (288) | CHARACTER | 0 | TCAEND | TCA STORAGE AREA DISPLACEMENT |

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Table 542.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (58) | STRUCTURE | 36 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (58) | CHARACTER | 1 | TCAKCRC | SYST.MACRO RTN.CODE FROM CHANGE FROM ATT/AVAIL/REDISP |
| (58) | 1111 11.. | | * | |
| (59) | CHARACTER | 1 | TCAKCSRB | SECONDARY REQUEST BYTE |
| (5A) | CHARACTER | 1 | TCAKCRC2 | Secondary response indicator (macro compatibility XMxx reason) * |
| (5B) | CHARACTER | 1 | TCATOMOP | Attach options |
| (5B) | 1... | | TCATOMCN | Conditional attach |
| (5B) | .1.. | | TCATOMEF | Entrypoint attach |
| (5B) | ..1. | | TCATOMST | Attach of a system task |
| (5B) | ...1 | | TCATOTON | Tracking data override no |
| (5B) | 1... | | TCATOTOY | Tracking data override yes |
| (5B) |111 | | * | Reserved |
| (5C) | ADDRESS | 4 | TCAKCEPA | ENTRY POINT ADDRESS |
| (5C) | CHARACTER | 9 | TCAKCSSF | SECURITY SUBFIELD |
| (5C) | UNSIGNED | 1 | TCAKCUIL | |
| (5D) | CHARACTER | 8 | TCAKCUID | |
| (60) | CHARACTER | 8 | * | Reserved |
| (68) | CHARACTER | 4 | TCAKCDST | T.D. DESTINATION ID |
| (6C) | ADDRESS | 4 | TCAKCPA | ATTPARM address |
| (6C) | CHARACTER | 4 | TCAKCSYS | REMOTE SYSTEM IDENTIFICATION * |
| (70) | CHARACTER | 4 | TCAKCTI | TRANSACTION IDENTIFICATION |
| (74) | UNSIGNED | 1 | TCAKCPL | ATTPARM length |
| (75) | CHARACTER | 2 | * | RESERVED |
| (77) | BIT(8) | 1 | TCAKCFI | FACILITY CONTROL INDICATOR * |
| (77) | 111. | | * | RESERVED |
| (77) | ...1 | | TCAKCAID | AID FACILITY MASK. |
| (77) | 1... | | TCAKCDCM | DESTINATION CONTROL TABLE |
| (77) |1.. | | TCAKCICM | NON-TERMINAL FACILITY MASK * |
| (77) |1. | | TCAKCMCM | K C P MACRO FILE MASK |
| (77) |1 | | TCAKCTRM | TERMINAL FACILITY MASK |

Table 542. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (78) | CHARACTER | 4 | TCAKCTA | TASK CONTROL AREA ADDRESS |
| (78) | ADDRESS | 4 | TCAKCFA | FACILITY CONTROL ADDRESS |
| (78) | ADDRESS | 4 | TCAKCPTR | FACILITY CONTROL ID |

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 TCAICTR

Table 543.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (58) | STRUCTURE | 52 | * | |
| (58) | CHARACTER | 1 | TCAICTR | TYPE OF REQUEST/RESPONSE |
| (59) | CHARACTER | 1 | * | RESERVED |
| (5A) | HALFWORD | 2 | TCAICMSC | msec field for delay |
| (5C) | CHARACTER | 4 | TCAICTEC | ICP 'POST' TIMER EVENT CONTROL ADDRESS |
| (5C) | ADDRESS | 4 | TCAICDA | ICP MACRO SERVICE-DATA ADDRESS |
| (60) | CHARACTER | 8 | TCAICQPX | REQUEST ID PREFIX |
| (60) | CHARACTER | 8 | TCAICQID | ICP REQUEST IDENTIFICATION |
| (68) | FULLWORD | 4 | TCAICRT | REQUESTED TIME INTERVAL OR EXPIRATION TIME-OF-DAY |
| (6C) | CHARACTER | 4 | TCAICFA | ICP FACILITY CONTROL ADDR. |
| (6C) | CHARACTER | 4 | TCAICTI | ICP TRANSACTION IDENT. |
| (70) | CHARACTER | 4 | TCAICUSA | ADDRESS OF US PARAMETER STORAGE WHICH IS 11 BYTE FIELD OF: 1 BYTE USERID LENGTH 10 BYTE FIELD FOR USERID |
| (70) | CHARACTER | 4 | TCAICTID | ICP SYMBOLIC TERMINAL IDENTIFICATION |
| (74) | CHARACTER | 1 | TCAICCLS | UNIQUE ID OF REQUESTED ID |
| (75) | CHARACTER | 1 | TCAICTR2 | SECOND REQUEST/RESPONSE BYTE |

Table 543. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (75) | 1... | | TCAICHDR | DATA RETURNED BY IC GET CONTAINS A USER-BUILT HDR. (INTERNAL) |
| (75) | 1... | | TCAICADX | Adapter data present |
| (75) | .1.. | | TCAICHSZ | FEPI start - startcode SZ |
| (75) | ..1. | | TCAICTKX | XM Transaction token flag |
| (75) | ...1 | | TCAICRTC | Router commarea present |
| (75) | 1... | | TCAICUSS | Userid is that of system |
| (75) |1.. | | TCAICUSR | US domain parameter |
| (75) |1. | | TCAICDFS | Deferred dynamic start |
| (75) |1 | | TCAICCRX | correlator present |
| (76) | HALFWORD | 2 | TCAICRTL | Routers commarea length |
| (78) | ADDRESS | 4 | TCAICRTR | Router's commarea address |
| (7C) | ADDRESS | 4 | TCAICTKA | XM Transaction token address. * |
| (80) | UNSIGNED | 4 | TCAICITK | Channel token |
| (84) | ADDRESS | 4 | TCAICADP | adapter fields pointer |
| (88) | ADDRESS | 4 | TCAICCOR | correlator pointer |

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Table 544.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------|--|
| (58) | STRUCTURE | 40 | * | ORIGIN TO COMMON COMMUNICATION AREA |
| This area (from TCATP_TRACE to TCATP_TRACE_LEN) is traced in some ZC level 1 trace formats | | | | |
| (58) | CHARACTER | 32 | TCATP_TRACE | TCA parm list trace area |
| (58) | BIT(8) | 1 | TCATPAPR | APPLICATION REQUEST RESPONSE CODE |
| (58) | BIT(8) | 1 | TCATPLRC | LOCATE RETURN CODE FOR PAGE STATUS TERMINAL INTERPARTITION SESSION |
| (58) | 1... | | TCATPEB | END BRACKET RECEIVED (ISC) * |
| (58) | .1.. | | TCATPSNC | PREPARE/SPR RECEIVED (ISC) * |
| (58) | ..1. | | * | |
| (58) | ...1 | | TCATPR10 | CANCELLED DURING ALLOC |

Table 544. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|------------------------------------|
| (58) | 1... | | TCATPRC8 | BAD REQUEST RETURN |
| (58) |1.. | | TCATPRC4 | POSSIBLE RETRY RETURN |
| (59) | BIT(8) | 1 | * | RESERVED |
| (5A) | BIT(8) | 1 | TCATPOS1 | EXTERNAL OPERATOR REQUEST - byte 1 |
| (5B) | BIT(8) | 1 | TCATPOS2 | EXTERNAL OPERATOR REQUEST - byte 2 |
| Overlaid by the LDC - level 4 For ZARQ (Application requests) - level 5 For ZISP - levels 6 and 7 | | | | |
| (5B) | BIT(8) | 1 | TCATPLDC | Logical Device Code |
| (5B) | 1... | | TCATPOER | ERASE REQUEST |
| (5B) | 1... | | TCATPQAF | ALLOC OP FREE |
| (5B) | 1... | | TCATPFSY | FREE OP implicit free |
| (5B) | .1.. | | TCATPOSS | SAVE TERMINAL STORAGE |
| (5B) | .1.. | | * | Reserved |
| (5B) | ..1. | | TCATPOLA | LINE ADDRESSING REQUEST |
| (5B) | ..1. | | TCATPQAR | ALLOC OP FREE AT RESTART |
| (5B) | ...1 | | TCATPORR | READ REQUEST |
| (5B) | ...1 | | TCATPQAU | ALLOC OP NOT PROTECTED AT |
| (5B) | 1... | | TCATPODR | DISCONNECT REQUEST |
| (5B) | 1... | | TCATPQUE | QUEUE REQUEST(0=NQ) |
| (5B) |1.. | | TCATPOS1 | SYNCHRONIZATION REQUEST |
| (5B) |1.. | | * | Reserved |
| (5B) |1. | | TCATPCVS | CONVERSE REQUEST |
| (5B) |1. | | * | Reserved |
| (5B) |1 | | TCATPOWR | WRITE REQUEST |
| (5B) |1 | | TCATPIDT | ID IS CHAR (0=ADDR SPEC) |
| (5C) | BIT(8) | 1 | TCATPCS1 | EXTERNAL CONTROL REQUEST - byte 1 |
| For ZARQ (Application requests) - level 4 For ZSTU (Status change) - level 5 | | | | |
| (5C) | 1... | | TCATPNNI | NOATNI=YES |
| (5C) | 1... | | TCATPPG | PAGE |
| (5C) | .1.. | | TCATPNAB | NOABEND=YES |
| (5C) | .1.. | | TCATPAU | AUTOMATIC PAGING |
| (5C) | ..11 1... | | * | reserved |
| (5C) | ..1. | | TCATPINP | INPUT |

Table 544. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (5C) | ...1 | | TCATPNOP | NO POLL |
| (5C) | 1... | | TCATPSAI | AUTOMATIC INITIATION |
| (5C) |1.. | | TCATBPBQ | BYP QUIESCE FOR PASS |
| (5C) |1.. | | TCATPTSA | TRANSACTION |
| (5C) |11 | | * | reserved |
| (5C) |1. | | TCATPINS | IN SERVICE |
| (5C) |1 | | TCATPOOS | OUT OF SERVICE |
| (5D) | BIT(8) | 1 | TCATPCS2 | EXTERNAL CONTROL REQUEST - byte 2 |
| For ZARQ (Application requests) - level 4 For ZSTU (Status change) - level 5 | | | | |
| (5D) | 1... | | TCATPCRB | READ BUFFER REQUEST |
| (5D) | 1... | | TCATNVTA | DON'T ISSUE VTAM CMDS |
| (5D) | .1.. | | TCATPCEU | ERASE ALL UNPROTECTED |
| (5D) | .1.. | | TCATALGI | REQUEST INTLOG |
| (5D) | ..1. | | TCATPCWL | WRITE LOCK REQUEST |
| (5D) | ..1. | | TCATNLGI | REQUEST NOINTLOG |
| (5D) | ...1 | | TCATPCRL | READ LOCK REQUEST |
| (5D) | ...1 | | TCATTFOR | FORCEPURGE |
| (5D) | 1... | | TCATPCPY | COPY REQUEST |
| (5D) | 1... | | TCATTPUR | PURGE TASK |
| (5D) |1.. | | TCATPCPT | PRINT REQUEST |
| (5D) |1.. | | TCATPREL | RELEASE |
| (5D) |1. | | TCATPCNT | NOTRANSLATE REQUEST |
| (5D) |1. | | TCATPRSO | RESYNCHRONIZATION OVERRIDE |
| (5D) |1 | | TCATPCPB | PSEUDO BINARY MODE |
| (5D) |1 | | TCATPACQ | ACQUIRE |
| (5E) | BIT(8) | 1 | TCATPOC1 | OPERATION CONTROL BYTE 1 |
| For ZARQ (Application requests) - see constants below For ZSTU (Status change) - see constants below | | | | |
| (5F) | BIT(8) | 1 | TCATPOC2 | OPERATION CONTROL BYTE 2 |
| For ZARQ (Application requests) - level 4 | | | | |
| (5F) | 1... | | TCATPFRC | FORCE=YES |
| (5F) | .1.. | | TCATPWSR | WAIT ON INBOUND SIGNAL |
| (5F) | ..1. | | TCATPLMP | LOGICAL DEVICE CODE (LDC) MNEMONIC PRESENT |

Table 544. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (5F) | ...1 | | TCATPFDP | FUNCTION MANAGEMENT HEADER (FMH) PROVIDED WITH DATA |
| (5F) | 1... | | TCATPLWT | LAST WRITE FROM TASK |
| (5F) |1.. | | TCATPOAO | OVERRIDE ASYNCHRONOUS OPERATION NOT USED |
| (5F) |1. | | TCATPOSO | OVERRIDE SYNCHRONOUS OPERATION NOT USED |
| (5F) |1 | | TCATPWRO | WAIT REQUEST WITH OPERATION |
| (60) | CHARACTER | 2 | TCATPLDM | LOGICAL DEVICE MNEMONIC |
| (62) | BIT(8) | 1 | TCATPCON | CONNECTION TYPE FLAG |
| (62) | 1111 111. | | * | |
| (62) |1 | | TCATPNCM | NON-COMMUNICATION INDICATOR |
| (63) | BIT(8) | 1 | TCATPOC3 | OPERATION CONTROL BYTE 3 |
| For ZARQ (Application requests) - level 4 For ZLOC (Status change) - level 5 | | | | |
| (63) | 1... | | TCATPNEC | WRITE WITH CCOMPL=NO |
| (63) | 1... | | TCATTMID | TRMIDNT VALUE SUPPLIED |
| (63) | .1.. | | TCATPTTA | TCTTE ADDRESS SUPPLIED. |
| (63) | .1.. | | TCATSTAT | STATUS KEYWORD SUPPLIED |
| (63) | ..1. | | TCATPCND | CONDITIONAL REQUEST FLAG. |
| (63) | ..1. | | TCATSELC | SELECT KEYWORD SUPPLIED |
| (63) | ...1 | | TCATPOWS | WRITE STRFIELD |
| (63) | ...1 | | TCATTRMT | TRMTTYPE SUPPLIED |
| (63) | 1... | | TCATPTTO | TRANSP TIOA OBTAINED |
| (63) | 1... | | TCATOPNW | OPTION=NOWAIT REQUESTED |
| (63) |1.. | | TCATPDWR | DEFER REQUEST FLAG |
| (63) |1.. | | TCATCMPN | TCTCOMP=NO REQUESTED |
| (63) |1. | | TCATPINV | INVITE REQUEST FLAG |
| (63) |1. | | TCATSIND | SCAN INDIRECTS, DOM'N=SYS |

Table 544. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--------------------------------------|
| (63) |1 | | * | X'01' RESERVED |
| (63) |1 | | * | X'01' RESERVED |
| (64) | CHARACTER | 20 | TCATPPNM | PROGRAM NAME FIELD |
| (64) | ADDRESS | 4 | TCATPTA | TMNL ID OR A(FULL \| MODEL TE) |
| (68) | CHARACTER | 16 | TCATPREQ | REQUEST ID PARAMETER. |
| (68) | CHARACTER | 16 | TCATPAID | AID ADDRESS |
| (68) | ADDRESS | 4 | TCATPLDA | LOGIC DEVICE CODE ELEMENT ADDRESS |
| (6C) | CHARACTER | 12 | TCATPRMT | REMOTENAME OF FOUND TERM'L |
| (6C) | ADDRESS | 4 | TCATPPFL | TERMINAL PROFILE ADDRESS |
| (70) | CHARACTER | 8 | TCATPAPL | APPLID OF REMOTE REGION |
| (70) | CHARACTER | 4 | TCATPSYS | SYSID OF REMOTE REGION |
| (74) | ADDRESS | 4 | TCATPSKA | A(SKELETON TCTTE) |
| (74) | ADDRESS | 4 | TCATPFS | FS parameters plist |
| TCATP_TRACE_LEN End of parm list trace area | | | | |
| (78) | CHARACTER | 8 | TCATPZTR | ZC trace work area |
| (78) | CHARACTER | 4 | TCATPZT1 | Copy TCT exit footprints |
| (7C) | ADDRESS | 4 | TCATPZT2 | Copy TCT address |

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Table 545.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (58) | STRUCTURE | 32 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (58) | CHARACTER | 1 | TCAPCTR | TYPE OF REQUEST / RESPONSE |
| (59) | CHARACTER | 1 | TCAPCSR | PROGRAM CONTROL SECONDARY REQUEST |
| (5A) | CHARACTER | 2 | * | Reserved |
| (5C) | CHARACTER | 8 | TCAPCPI | PROGRAM IDENTIFICATION |
| (5C) | CHARACTER | 4 | TCAPCERA | ABEND EXIT RETURN ENTRY ADDRESS |

Table 545. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (64) | CHARACTER | 4 | TCAPCEA | LOADED PROGRAM ENTRY ADDRESS AND PC BROWSE ENTRY ADDRESS |
| (64) | CHARACTER | 4 | TCAPCAC | ABNORMAL TERMINATION CODE |
| (68) | ADDRESS | 4 | TCAPGENT | Program entry point (GLUE) |
| (6C) | ADDRESS | 4 | TCAPGTKN | Program token (GLUE) |
| (70) | CHARACTER | 8 | TCAPCEPI | Program that abended APCT |

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Table 546.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (58) | STRUCTURE | 22 | * | OVERLAY THE TCA COMMON COMMUNICATION AREA |
| (58) | CHARACTER | 22 | TCAPH | FOR ZEROING REQUEST BYTES |
| (58) | ADDRESS | 4 | TCAPHRC | ADDRESS OF RETURN CODE |
| (5C) | ADDRESS | 4 | TCAPHPSN | ADDRESS OF PRTNSET NAME |
| (60) | ADDRESS | 4 | TCAPHPN | ADDRESS OF PARTITION NAME |
| (64) | ADDRESS | 4 | TCAPHPID | ADDRESS OF PARTITION ID |
| (68) | ADDRESS | 4 | TCAPHTIO | ADDRESS OF TIOA |
| (6C) | CHARACTER | 1 | TCAPHTR | REQUEST TYPE |
| (6D) | CHARACTER | 1 | TCAPHRCV | RETURN CODE VALUE |

CONTROL BLOCK NAME = DFHTCUBM
 DESCRIPTIVE NAME = CICS TS DFHBMS USER OVERLAY OF THE DFHTCA
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Table 547.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (58) | STRUCTURE | 8 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (58) | BIT(8) | 1 | TCAMSRC1 | RETURN CODE BYTE ONE |
| (58) | 1... | | TCAMSRF | ROUTE FAILED - NO RESOLUTIONS |

Table 547. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (58) | .1. | | TCAMSRW | ROUTE WORKED - SOME RESOLUTIONS |
| (58) | ..1. | | TCAMSIET | INVALID ERROR TERMINAL |
| (58) | ...1 | | * | |
| (58) | 1... | | TCAMSMTL | MAP TOO LARGE |
| (58) |1.. | | TCAMSCBM | I/O AREA CANNOT BE MAPPED |
| (58) |1. | | TCAMSPRI | PAGE RETURNED INDICATOR |
| (58) |1 | | TCAMSIR | INVALID REQUEST |
| (59) | BIT(8) | 1 | TCAMSRC2 | RETURN CODE BYTE TWO |
| (59) | 1... | | TCAMSTSE | TEMP STORAGE I/O ERROR |
| (59) | .1.. | | TCAMSRCD | REQUEST CHANGE DIRECN ERROR |
| (59) | ..1. | | TCAMSUXI | UNEXPECTED INPUT |
| (59) | ...1 | | TCAMSIMN | INVALID LDC MNEMONIC |
| (59) | 1... | | TCAMSIPS | INVALID PARTITION SET NAME |
| (59) |1.. | | TCAMSIPN | INVALID PARTITION NAME |
| (59) |1. | | TCAMSIPF | PARTNFIL ERROR |
| (59) |1 | | TCAMSDSS | DATASET STATUS CHANGE |
| (5A) | BIT(8) | 1 | TCAMSRC3 | RETURN CODE BYTE THREE |
| (5A) | 111. | | * | |
| (5A) | ...1 | | TCAMSIGR | SPECIFIED 'REQID' IGNORED |
| (5A) | 1... | | TCAMSEOC | END-OF-CHAIN IN LAST INPUT |
| (5A) |1.. | | TCAMSEOD | END-OF-DATA-SET LAST INPUT |
| (5A) |1. | | TCAMSIFH | INBOUND FMH IN LAST INPUT |
| (5A) |1 | | TCAMSOI | PAGE OVERFLOW INDICATOR |
| (5B) | BIT(8) | 1 | TCAMSRI1 | RETURN INFORMATION BYTE ONE |
| (5C) | CHARACTER | 4 | TCAMSPOF | PAGEBLD OVERFLO INFORMATION |
| (5C) | HALFWORD | 2 | TCAMSPGN | CURRENT PAGE NUMBER |
| (5E) | HALFWORD | 2 | TCAMSOCN | OVERFLOW CONTROL NUMBER |

Table 548.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (58) | STRUCTURE | 64 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (58) | BIT(8) | 1 | TCAMSTR1 | TYPE REQUEST BYTE ONE |
| (58) | 1... | | TCAMSTRR | TYPE = ROUTE |
| (58) | .1.. | | TCAMSEO | ERRTERM = ORIG |
| (58) | ..1. | | TCAMSETI | ERRTERM = TERMINAL ID |
| (58) | ...1 | | TCAMSRI | INTRVAL = NUMERIC VALUE |
| (58) | 1... | | TCAMSRT | TIME = NUMERIC VALUE |
| (58) |1.. | | TCAMSRA | LIST = ALL |
| (58) |1. | | TCAMSRSA | LIST = SYMBOLIC ADDRESS |
| (58) |1 | | TCAMSROC | OPCLASS = OPERATOR CLASS |
| (59) | BIT(8) | 1 | TCAMSTR2 | TYPE REQUEST BYTE TWO |
| (59) | 1... | | TCAMSRTL | TITLE = SYMBOLIC ADDRESS |
| (59) | .1.. | | TCAMSOPT | PROPT = NLEOM |
| (59) | ..1. | | TCAMSRQI | REQID = ALPHANUMERIC VALUE |
| (59) | ...1 | | TCAMSTLD | LDC = MNEMONIC OR YES |
| (59) | 1... | | TCAMSIOT | IOTYPE = IMMED |
| (59) |1.. | | TCAMSLPS | SEND PARTNSET |
| (59) |1. | | TCAMSRIN | RECV INTO EXEC COMMAND |
| (59) |1 | | TCAMSTRG | TYPE = PURGE |
| (5A) | BIT(8) | 1 | TCAMSTR3 | TYPE REQUEST BYTE THREE |
| (5A) | 1... | | TCAMSLST | TYPE = LAST |
| (5A) | .1.. | | TCAMSRPT | RECEIVE PARTN |
| (5A) | ..1. | | TCAMSTRT | TYPE = TEXT |
| (5A) | ...1 | | TCAMSTC | CURSOR = NUMBER |
| (5A) | 1... | | TCAMSTCW | CTRL = ANY 3270 WCC |
| (5A) |1.. | | TCAMSTMN | MAP = MAP NAME |
| (5A) |1. | | TCAMSTSA | MSETADR = SYMBOLIC ADDRESS OR PSETADR = ADDRESS |
| (5A) |1 | | TCAMSTSN | MAPSET = MAP SET NAME |
| (5B) | BIT(8) | 1 | TCAMSTR4 | TYPE REQUEST BYTE FOUR |

Table 548. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (5B) | 1... | | * | |
| (5B) | .1.. | | TCAMSTDN | DATA = NO |
| (5B) | ..1. | | TCAMSTRS | TYPE = SAVE |
| (5B) | ...1 | | TCAMSTMA | MAPADR = SYMBOLIC ADDRESS |
| (5B) | 1... | | TCAMSTRW | TYPE = WAIT |
| (5B) |1.. | | TCAMSTRM | TYPE = MAP |
| (5B) |1. | | TCAMSTRE | TYPE = ERASE |
| (5B) |1 | | TCAMSTRI | TYPE = IN |
| (5C) | BIT(8) | 1 | TCAMSTR5 | TYPE REQUEST BYTE FIVE |
| (5C) | 1... | | TCAMSTRB | TYPE = PAGEBLD |
| (5C) | .1.. | | TCAMSTOF | OFLOW = SYMBOLIC ADDRESS |
| (5C) | ..1. | | TCAMSTEU | TYPE = ERASEAUP |
| (5C) | ...1 | | TCAMSTFF | TYPE = FORMFEED |
| (5C) | 1... | | TCAMSTRLOC | TYPE = LOCATE_MAP |
| (5C) |1.. | | TCAMSTRO | TYPE = OUT |
| (5C) |1. | | TCAMSTRF | TYPE = STORE |
| (5C) |1 | | TCAMSTRU | TYPE = RETURN |
| (5D) | BIT(8) | 1 | TCAMSTR6 | TYPE REQUEST BYTE SIX |
| (5D) | 1... | | TCAMSTRP | TYPE = PAGEOUT |
| (5D) | .1.. | | TCAMSTCA | CTRL = AUTOPAGE |
| (5D) | ..1. | | TCAMSTCP | CTRL = PAGE |
| (5D) | ...1 | | TCAMSTCK | CTRL = RETAIN |
| (5D) | 1... | | TCAMSTCR | CTRL = RELEASE |
| (5D) |1.. | | TCAMSWBC | WTBRK = CURRENT |
| (5D) |1. | | TCAMSWBA | WTBRK = ALL |
| (5D) |1 | | TCAMSEPO | EODPURG = OPER |
| (5E) | BIT(8) | 1 | TCAMSTR7 | TYPE REQUEST BYTE SEVEN |
| (5E) | 1... | | TCAMSTRX | TYPE = TEXTBLD |
| (5E) | .1.. | | TCAMSTH | HEADER = SYMBOLIC ADDRESS |
| (5E) | ..1. | | TCAMSTT | TRAILER = SYMBOLIC ADDRESS |
| (5E) | ...1 | | TCAMSTJ | JUSTIFY = FIRST, LAST, OR VALUE |
| (5E) | 1... | | TCAMSOPR | API SPECIFIES OUTPARTN |
| (5E) |1.. | | TCAMSAPR | API SPECIFIES ACTPARTN |
| (5E) |1. | | TCAMSPGS | PGA SUPPLIED WITH DATA |
| (5E) |1 | | TCAMSTRN | TYPE = NOEDIT |

Table 548. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|-------------------------------------|
| N.B. TIOATDL SHOULD GIVE THE LENGTH INCLUDING THE PGA IF SET. | | | | |
| (5F) | BIT(8) | 1 | TCAMSTR8 | TYPE REQUEST BYTE EIGHT |
| (5F) | 1... | | TCAMSIPR | API SPECIFIES INPARTN |
| (5F) | .1.. | | TCAMSMGM | MSR OPTION SPECIFIED |
| (5F) | ..1. | | TCAMSEIC | EXEC INTERFACE COMMAND |
| (5F) | ...1 | | TCAMSTFP | FMHPARM = YES OR PARM |
| (5F) | 1... | | TCAMSRDA | RDATT = SYMBOLIC ADDRESS |
| (5F) |1.. | | TCAMSWRB | WRBRK = SYMBOLIC ADDRESS |
| (5F) |1. | | TCAMSSIG | SIGNAL |
| (5F) |1 | | TCAMSMGC | SEND CONTROL |
| (60) | CHARACTER | 4 | TCAMSTA | TITLE ADDRESS |
| (60) | ADDRESS | 4 | TCAMSIOA | ALTERNATE I/O AREA ADDRESS |
| (64) | CHARACTER | 4 | TCAMSFSC | FIELD SEPARATOR CHARACTERS |
| (64) | CHARACTER | 0 | TCABMSFB | WCC AND FLAG BYTE |
| (64) | CHARACTER | 1 | TCAMSWCC | WRITE CONTROL CHARACTERS |
| (65) | BIT(8) | 1 | TCAMSJ | JUSTIFY = FIRST, LAST, OR VALUE |
| (66) | CHARACTER | 2 | TCAMSRPL | RETURNED LENGTH FROM RECEIVE PARTN |
| (66) | HALFWORD | 2 | TCABMSCP | CURSOR POSITION |
| (68) | CHARACTER | 8 | TCABMSMN | MAP NAME |
| (68) | CHARACTER | 8 | TCAMSPSN | PARTITION SET NAME |
| (68) | ADDRESS | 4 | TCABMSMA | MAP ADDRESS |
| (68) | ADDRESS | 4 | TCAMSHDR | HEADER ADDRESS |
| (68) | ADDRESS | 4 | TCAMSRLA | ROUTE OR RETURNED PAGE LIST ADDRESS |
| (6C) | ADDRESS | 4 | TCAMSTRL | TRAILER ADDRESS |
| (6C) | ADDRESS | 4 | TCABMSDA | ADS descriptor address |
| (6C) | CHARACTER | 4 | TCAMSRTI | TIME OR INTERVAL OF TIME |
| (70) | CHARACTER | 8 | TCAMSMSA | MAP SET OR PARTNSET ADDRESS |
| (70) | CHARACTER | 8 | TCAMSMSN | MAP SET NAME |
| (70) | CHARACTER | 4 | TCAMSTI | ROUTE ERROR TERMINAL ID |
| (74) | BIT(8) | 1 | * | RESERVED |

Table 548. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (75) | CHARACTER | 3 | TCAMSOC | OPERATOR CLASS |
| (78) | CHARACTER | 2 | TCAMSLDM | LOGICAL DEVICE CODE MNEMONIC IF LDC ON API ELSE OUTPARTN IF SEND OR INPARTN IF RECEIVE MAP OR PARTN IF RECEIVE PARTN |
| (7A) | BIT(8) | 1 | TCAMSLDC | LOGICAL DEVICE CODE |
| (7B) | CHARACTER | 2 | TCAMSRID | REQID - TEMPORARY STORAGE RECOVERY PREFIX |
| (7D) | CHARACTER | 2 | TCAMAPNM | ACTPARTN VALUE |
| (7F) | CHARACTER | 1 | * | RESERVED FOR BMS |
| (80) | CHARACTER | 8 | TCAMSFMP | FUNCTION MANAGEMENT HEADER (FMH) PARAMETER |
| (88) | CHARACTER | 4 | TCAMSMR | MSR CONTROL VALUE |
| (8C) | CHARACTER | 8 | TCAMSRQS | WORK AREA |
| (94) | CHARACTER | 1 | TCAMCPY | FLAG INDICATING COPY REQUIRED |
| (95) | CHARACTER | 3 | * | RESERVED |

Table 549.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------|-----------|-----|--------------------------|---|
| (8C) | STRUCTURE | 20 | * | ORIGIN TO COMMON CONTROL REGISTER STORAGE |
| REGISTER STORAGE | | | | |
| (8C) | FULLWORD | 4 | * (4294967300:341981496) | OVERLAID BY BMS REQUEST BYTES |
| (9C) | FULLWORD | 4 | TCAMSRS | BMS REGISTER SAVE AREA |

CONTROL BLOCK NAME = DFHTCUSP
 DESCRIPTIVE NAME = CICS TS DFHSP User Overlay of the DFHTCA
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Table 550.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (58) | STRUCTURE | 11 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (58) | BIT(8) | 1 | TCASPTR | SYNC POINT REQUEST |
| (58) | 1... | | * | Reserved |
| (58) | .1.. | | TCASPREP | SEND PREPARE |

Table 550. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (58) | ..11 | | * | Reserved |
| (58) | 1... | | TCASPROL | TYPE=ROLLBACK |
| (58) |1.. | | TCASPRAB | No remote rollback abend |
| (58) |1. | | TCASPEXP | Explicit EXEC SYNCPOINT |
| (58) |1 | | TCASPUSR | TYPE=USER |
| (59) | CHARACTER | 3 | * | Reserved |
| (5C) | ADDRESS | 4 | TCASPSDA | Address of RMRO parameter area for DFHSP PHASE_1/2 calls |
| (60) | CHARACTER | 2 | * | Reserved |
| (62) | CHARACTER | 1 | TCASPRC | RETURN CODE |

CONTROL BLOCK NAME = DFHTCUDC
 DESCRIPTIVE NAME = CICS TS DFHDC USER OVERLAY OF THE DFHTCA
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 same as TCADCRS

Table 551.

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------|-----------|-----|------------|---|
| (58) | STRUCTURE | 16 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (58) | CHARACTER | 2 | TCADCTR | TYPE OF REQUEST |
| REQUEST BYTE 1 | | | | |
| (58) | 1... | | TCADCCSA | DUMP THE CSA |
| (58) | .1.. | | TCADCTCA | DUMP THE TCA |
| (58) | ..1. | | TCADCPGM | DUMP THE PROGRAM AREAS |
| (58) | ...1 | | TCADCTRT | DUMP THE TRACE TABLE |
| (58) | 1... | | TCADCIOA | DUMP TERMINAL I/O AREAS |
| (58) |1.. | | TCADCTRN | DUMP TRANSACTION AREAS |
| (58) |1. | | * | RESERVED |
| (58) |1 | | TCADCSEG | DUMP USER SPECIFIED AREA |
| REQUEST BYTE 2 | | | | |
| (59) | 1... | | * | RESERVED |
| (59) | .1.. | | TCADCSIT | DUMP THE SIT |
| (59) | ..1. | | TCADCPPT | DUMP THE PPT |
| (59) | ...1 | | * | RESERVED |
| (59) | 1... | | TCADCPCT | DUMP THE PCT |
| (59) |1.. | | TCADCTCT | DUMP THE TCT |

Table 551. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (59) |1. | | TCADCFCT | DUMP THE FCT |
| (59) |1 | | TCADCDCT | DUMP THE DCT |
| (5A) | HALFWORD | 2 | TCADCNB | DUMP CONTROL NUMBER OF BYTES |
| (5C) | ADDRESS | 4 | TCADCSA | DUMP CONTROL STORAGE ADDRESS |
| (60) | CHARACTER | 4 | * | RESERVED |
| (64) | CHARACTER | 4 | TCADCDC | DUMP IDENTIFICATION CODE |

CONTROL BLOCK NAME = DFHTCUDL
 DESCRIPTIVE NAME = CICS DL/I TCA Communication Area Overlay
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 FUNCTION =
 Logical equivalent of DL/I support communication area
 overlay of the user part of the TCA. This contains
 request and response fields for various DL/I requests.
 LOCATION =
 Offset (release dependent) from the start of the user TCA.
 LIFETIME =
 Request fields should be filled in for the request and
 the response fields will contain the return codes.
 For the next request, the fields should be re-filled.
 STORAGE CLASS =
 Same as user TCA.
 INNER CONTROL BLOCKS = none.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none.
 EXTERNAL REFERENCES = none.

Table 552.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (58) | STRUCTURE | 36 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (58) | CHARACTER | 1 | TCADLRC | DL/I Response Code |
| (59) | CHARACTER | 1 | TCADLTR | DL/I Reason Code |
| (5A) | CHARACTER | 2 | * | Reserved |
| (5C) | ADDRESS | 4 | TCADLPAR | DL/I Parameter List Address |
| (60) | CHARACTER | 8 | TCADLPB | DL/I PSB Name |
| (68) | CHARACTER | 4 | TCADLFUN | DL/I Function Code |
| (6C) | ADDRESS | 4 | TCADLPB | DL/I PCB Address |
| (70) | ADDRESS | 4 | TCADLIO | DL/I Workarea Address |
| (74) | ADDRESS | 4 | TCADLSSA | DL/I SSA List Address |
| (78) | CHARACTER | 4 | TCADLLAN | DL/I Language Flags |

CONTROL BLOCK NAME = DFHTCUTD
 DESCRIPTIVE NAME = CICS TS DFHTD USER OVERLAY OF THE DFHTCA
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Table 553.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (58) | STRUCTURE | 32 | * | overlay on the TCA Common Control Communication Area |
| (58) | BIT(8) | 1 | TCATDTR | - type of request / response |
| (58) | 1... | | * | - reserved |
| (58) | .1.. | | TCATDPUT | - TYPE=PUT |
| (58) | ..11 1111 | | * | - reserved |
| (59) | CHARACTER | 3 | * | - reserved |
| (5C) | CHARACTER | 4 | TCATDDI | queue id - either N(queue) or A(DCTE) |
| (60) | CHARACTER | 24 | TCATDROA | - CTYPE=... overlay area |

Table 554.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (60) | STRUCTURE | 4 | * | overlay area for DFHTD TYPE=PUT, ..., GET, ... |
| (60) | ADDRESS | 4 | TCATDAA | - A(data area) |

Table 555.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (60) | STRUCTURE | 8 | * | overlay area for DFHTD CTYPE=OPEN, ..., PUT, ... |
| (60) | ADDRESS | 4 | TCATDDA | - A(DCTE) or 0 - in each case TCATDDI contains N(queue) |
| (64) | ADDRESS | 4 | TCATDOCP | - A(TDOC parameter list) |
| (64) | ADDRESS | 4 | TCATDTDP | - A(TDTD parameter list) |

CONTROL BLOCK NAME = DFHTCUTS
 DESCRIPTIVE NAME = CICS TS DFHTS User Overlay of the DFHTCA
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Table 556.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (58) | STRUCTURE | 32 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (58) | BIT(8) | 1 | TCATSTR | TYPE OF REQUEST/RESPONSE * |

Table 556. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (58) | 1... | | TCATSGET | get(q) request |
| (58) | .1.. | | TCATSPUT | put(q) request |
| (58) | ..1. | | TCATSREL | purge/release request |
| (58) | ...1 | | TCATSADR | address supplied on get |
| (58) | ...1 | | TCATSCND | conditional request |
| (58) | 1... | | TCATSENT | entry no. supplied on get |
| (58) | 1... | | TCATSMST | main storage request |
| (58) |1.. | | TCATSUPD | update request |
| (58) |1. | | TCATSSYS | system request |
| (58) |1 | | TCATSQUE | queue type request |
| (59) | BIT(8) | 1 | TCATSTR2 | TYPE OF REQUEST (SECONDARY) * |
| (59) | 1... | | TCATSICE | append ice |
| (59) | .1.. | | TCATSPUN | put unique |
| (59) | ..1. | | TCATSWRM | warm start restore |
| (59) | ...1 | | TCATSEMR | emergency start restore |
| (59) | 1... | | TCATSBMS | class=bms |
| (59) |1.. | | TCATSTRM | storage class=terminal |
| (59) |1. | | TCATSFLB | flush buffers |
| (59) |1 | | TCATSES2 | ESCAPE BIT (TCATSTR3 VALID) * |
| (5A) | CHARACTER | 2 | * | Reserved |
| (5C) | ADDRESS | 4 | TCATSDA | TEMPORARY STORAGE DATA ADDRESS * |
| (60) | CHARACTER | 8 | TCATSDI | TEMPORARY DATA IDENTIFICATION |
| (68) | HALFWORD | 2 | TCATSRN | TEMPORARY STORAGE RECORD NUMBER |
| (6A) | CHARACTER | 1 | TCATSTR3 | TYPE OF REQUEST(TERTIARY) |
| (6A) | 1... | | TCATSHDO | HEADER PRESENT IN OUTPUT DATA |
| (6A) | .1.. | | TCATSHLL | REQUEST ISSUED BY HLL - I.E. BY DFHETS |
| (6A) | ..1. | | TCATSEXT | EXTENDS TCA AFTER TCATSSTA |
| (6A) | ...1 | | TCATSPRV | PRIVILEGED REQUEST - DO NOT WAIT FOR OPEN-FOR-BUSINESS |
| (6A) | 1... | | TCATSINI | CTYPE=INITIALIZE REQUEST |
| (6A) |1.. | | TCATSWTI | CTYPE=WAITINIT REQUEST |
| (6A) |1. | | TCATSRST | RESTART TASK |

Table 556. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (6A) |1 | | TCATSGDB | DWE Recovery |
| (6B) | CHARACTER | 1 | TCATSR2 | 2ND RESPONSE BYTE |
| (6B) | 1... | | TCATSHDI | HEADER PRESENT IN INPUT DATA |
| (6C) | FULLWORD | 4 | TCATSSTA | ADDRESS OF PREVIOUSLY ACQUIRED STORAGE |
| (70) | FULLWORD | 4 | TCATSL | LL00 FIELD WHEN SEPARATE OR CONCAT = L'(LL00) + L'(DATA) |
| (74) | BIT(8) | 1 | TCATSCMD | COMMAND MODIFIER. |
| (74) | 1... | | TCATSLRE | long record extn queue |
| (74) | .1.. | | TCATSLRH | long record header |
| (74) | ..1. | | TCATSLRU | long record header update |
| (74) | ...1 1111 | | * | reserved |
| (75) | CHARACTER | 1 | * | reserved |
| (76) | HALFWORD | 2 | TCATSTNR | TOTAL NUMBER OF RECORDS |
| (78) | CHARACTER | 0 | * | |

CONTROL BLOCK NAME = DFHTCUDI
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Table 557.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (58) | STRUCTURE | 24 | * | |
| (58) | CHARACTER | 2 | TCADIRC | CURRENT RETURN CODE |
| (58) | BIT(8) | 1 | TCADIRC1 | CLASS OF ERROR |
| (58) | 111. | | * | |
| (58) | ...1 | | TCADIQSN | UNKNOWN SENSE ERROR |
| (58) | 1... | | TCADIQFU | FUNCTION ERROR |
| (58) |1.. | | TCADIQDS | DESTINATION CHANGE RESPONSE |
| (59) | BIT(8) | 1 | TCADIRC2 | VALUE OF ERROR CODE |
| (5A) | BIT(8) | 1 | TCADIFL1 | OPERATION TYPE |
| (5B) | BIT(8) | 1 | TCADIFL2 | OPERATION FLAGS |
| (5B) | 1... | | TCADIFNV | VOLADDR SPECIFIED |
| (5B) | .1.. | | TCADIFNM | SELECT SPECIFIED |
| (5B) | ..1. | | TCADIFNP | PROFILE SPECIFIED |
| (5B) | ...1 | | TCADIFND | DSN NOT SPECIFIED |
| (5C) | BIT(8) | 1 | TCADIFL3 | OPERATION FLAGS |
| (5C) | 1... | | TCADIFNF | DEFRESP=YES |

Table 557. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (5C) | .1. | | TCADIFSS | TYPE=SAVE SPECIFIED |
| (5C) | ..1. | | TCADIFNK | KEY SPECIFIED |
| (5C) | ...1 | | TCADIFNR | RRN SPECIFIED |
| (5C) | 1... | | TCADIFKN | KEYNUMBER SPECIFIED |
| (5C) |1.. | | * | |
| (5C) |1. | | TCADIFRR | RESERVED |
| (5C) |1 | | TCADIFWT | WAIT REQUESTED OR DEFAULTED |
| (5D) | BIT(8) | 1 | TCADIFL4 | OPERATION FLAGS RESERVED FOR FUTURE USE |
| (5E) | BIT(8) | 1 | TCADINRS | NUMBER OF RECORDS IN REQUEST |
| (5F) | BIT(8) | 1 | TCADISEL | SELECT VALUE |
| (60) | CHARACTER | 4 | TCADIRNA | RECORD ID |
| (60) | ADDRESS | 4 | TCADIKYA | KEY ADDRESS |
| (64) | ADDRESS | 4 | TCADIDNA | DATA SET NAME ADDRESS |
| (68) | ADDRESS | 4 | TCADIVNA | VOLUME NAME ADDRESS |
| (6C) | BIT(8) | 1 | TCADIDSP | DATA STREAM PROFILE |
| (6D) | CHARACTER | 1 | * | RESERVED |
| (6E) | HALFWORD | 2 | TCADIKYN | KEYNUMBER VALUE |
| (70) | CHARACTER | 0 | TCADIPND | END OF PLIST MARKER |

Constants

Table 558.

| Len | Type | Value | Name | Description |
|---|---------|-------|----------|--------------------------------------|
| CONSTANTS MISCELLANEOUS | | | | |
| 1 | HEX | 80 | TCAEISUN | TCA CONTAINS A(UNINITIALISED EIS) |
| 1 | HEX | 80 | TCAACB | ABEND CONTROL BLOCK BUILT |
| CONSTANTS | | | | |
| 1 | DECIMAL | 12 | TCACBAR | TASK CONTROL AREA COMMON |
| TASK CONTROL SECTION THE FOLLOWING BELONG TO FIELD TCATCDC | | | | |
| 1 | HEX | 13 | TCADCITW | DCI=TERMINAL WAIT |
| 1 | HEX | 20 | TCADCIDT | DISPATCHABLE MASK |
| 1 | HEX | 40 | TCADCIEL | EVENT CONTROL LIST ADDRESS |

Table 558. (continued)

| Len | Type | Value | Name | Description |
|--|------|-------|----------|---------------------------------|
| 1 | HEX | 80 | TCADCISE | SINGLE EVENT CONTROL ADDRESS |
| 1 | HEX | 88 | TCADCISY | C I C S SYSTEM EVENT CONTROL |
| THE FOLLOWING BELONG TO FIELD TCATCTR | | | | |
| 1 | HEX | 10 | TCATOMX | attach request |
| 1 | HEX | 40 | TCATWM | wait request |
| 1 | HEX | 08 | TCATRM | TASK RESUME MASK |
| 1 | HEX | 05 | TCACEM | CONDITIONAL ENQUEUE MASK * |
| 1 | HEX | 02 | TCATDM | TASK DEQUEUE MASK |
| 1 | HEX | 01 | TCATEM | TASK ENQUEUE MASK |
| 1 | HEX | 31 | TCADUPQ | DUPLICATE ENQUEUE RESPONSE * |
| 1 | HEX | 32 | TCATCONQ | COND ENQ FAILED RESP |
| 1 | HEX | 00 | TCATCOK | COND ENQ SUCCESSFUL RESP * |
| 1 | HEX | 2C | TCAPROFL | LOCATE PROFILE |
| 1 | HEX | 2D | TCAPROB | BROWSE PROFILES |
| 1 | HEX | 2E | TCAPROBU | BROWSE PROFILES UNLOCK PREVIOUS |
| 1 | HEX | 2F | TCAKCREP | REPLACE PCT ELEMENT |
| 1 | HEX | 2F | TCAKCSRQ | KCP SECONDARY REQUEST |
| THE FOLLOWING BELONG TO FIELD TCAPURGI | | | | |
| 1 | HEX | BF | TCASNPRG | STALL NO PURGE MASK |
| EXIT XSRAB ABEND RECOVERY OPTION (TCAPCARO) VALUES | | | | |
| 1 | HEX | 00 | TCAPCAGO | Abend ASRB, don't cancel exits |
| 1 | HEX | C3 | TCAPCANC | Abend ASRB, cancel exits |
| 1 | HEX | C1 | TCAPCAAC | Terminate CICS |
| STORAGE TYPE HIT BY ASRA 0C4 (TCAPCSTG) VALUES | | | | |
| 1 | HEX | 00 | TCANOHIT | No hit or not 0C4 |
| 1 | HEX | 01 | TCACDSA | CDSA hit |
| 1 | HEX | 02 | TCAECDSA | ECDSA hit |
| 1 | HEX | 03 | TCAERDSA | ERDSA hit |
| 1 | HEX | 04 | TCARDSA | RDSA hit |
| 1 | HEX | 05 | TCAEUDSA | EUDSA hit |
| 1 | HEX | 06 | TCAUDSA | UDSA hit |
| 1 | HEX | 10 | TCADYCSA | Dummy CSA/TCA hit |
| 1 | HEX | 20 | TCADYRCT | Dummy RCT hit |
| EXIT XPCTA RETRY EXECUTION KEY (TCAPCRFL) VALUES | | | | |

Table 558. (continued)

| Len | Type | Value | Name | Description |
|--|------|-------|----------|---|
| 1 | HEX | 80 | TCAPCUSK | Retry in USER key |
| 1 | HEX | 40 | TCAPCCIK | Retry in CICS key |
| NOTE THAT THESE DEFINITIONS ARE LOGICALLY BYTE DEFINITIONS THE FOLLOWING BELONG TO FIELD TCAFCI | | | | |
| 1 | HEX | 00 | TCAFCTDM | TASK-DEPENDENT FACILITY MASK i.e. NONE |
| CONSTANTS THE FOLLOWING BELONG TO TCAKCRC | | | | |
| 1 | HEX | 00 | TCAKCOK | SUCCESS |
| 1 | HEX | 08 | TCAKCWRN | WARNING MESSAGE ISSUED |
| 1 | HEX | 00 | TCAKCATS | ATTACH SUCCESSFUL |
| 1 | HEX | 31 | TCAKCATF | ATTACH FAILED |
| THE FOLLOWING BELONG TO TCAKCSRB | | | | |
| 1 | HEX | 01 | TCAKCSRR | CTYPE=REPLACE |
| 1 | HEX | 02 | TCAKCSRI | CTYPE=INITIALIZE |
| 1 | HEX | 03 | TCAKCSRW | CTYPE=WAITINIT |
| 1 | HEX | 04 | TCAKCSRK | RESTART TASK |
| CONSTANTS THE FOLLOWING BELONG TO TCAICTR | | | | |
| 1 | HEX | 10 | TCAICGTM | 'GETIME' TYPE OF REQUEST |
| 1 | HEX | 20 | TCAICWTM | 'WAIT' TYPE OF REQUEST |
| 1 | HEX | 30 | TCAICPST | 'POST' TYPE OF REQUEST |
| 1 | HEX | 40 | TCAICINT | 'INITIATE' TYPE OF REQUEST |
| 1 | HEX | 50 | TCAICPUT | 'PUT' TYPE OF REQUEST |
| 1 | HEX | 60 | TCAICIND | 'INITIATE' DEFERRED |
| 1 | HEX | 70 | TCAICPTH | 'PUT WITH HEADER' TYPE OF REQUEST (CICS INTERNAL) |
| 1 | HEX | 80 | TCAICGET | 'GET' TYPE OF REQUEST |
| 1 | HEX | 81 | TCAICGNR | 'GET-NO RELEASE' REQUEST |
| 1 | HEX | 90 | TCAICRTY | 'RETRY' TYPE OF REQUEST |
| 1 | HEX | A0 | TCAICRST | 'RESET' CICS INTERNAL |
| 1 | HEX | B0 | TCAICSCH | 'SCHEDULE' (CICS INTERNAL) |
| 1 | HEX | C0 | TCAICTXA | EXPIRY ANALYSIS, APTIX Call * |
| 1 | HEX | D0 | TCAICRVY | DWE DRIVEN ACTIONS. |
| 1 | HEX | E0 | TCAICSCD | Secondary Request TCAICTR2 contains code |

Table 558. (continued)

| Len | Type | Value | Name | Description |
|--|------|-------|----------|--|
| 1 | HEX | F0 | TCAICCNL | 'CANCEL' TYPE OF REQUEST |
| 1 | HEX | 01 | TCAICPFM | PACKED TIME-OF-DAY REQUEST MASK |
| 1 | HEX | 01 | TCAICTFM | AUTOMATIC TASK INITIATION - TERMINAL FACILITY MASK |
| 1 | HEX | 01 | TCAICNRL | 'NO RELEASE' MASK |
| 1 | HEX | 01 | TCAICDWE | SCHEDULE BUILDS DWE. |
| 1 | HEX | 02 | TCAICUDA | RETURN DATA TO USER MASK |
| 1 | HEX | 02 | TCAICRAM | RETURN 'GET' DATA ADDRESS |
| 1 | HEX | 02 | TCAICRIP | 'REQID='PREFIX' REQUEST |
| 1 | HEX | 06 | TCAICCSA | 'CLASS=' (CICS INTERNAL) |
| 1 | HEX | 04 | TCAICIDM | ICP REQUEST IDENTIFIER GIVEN MASK |
| 1 | HEX | 08 | TCAICXTM | EXPIRATION TIME GIVEN MASK |
| 1 | HEX | 08 | TCAICGWT | 'WAIT' OPTION ON GET. |
| 1 | HEX | 40 | TCAICFND | SEARCH, TRAN FOUND RESPONSE * |
| 1 | HEX | 08 | TCAICNFD | SEARCH, TRAN NOT FOUND RESP * |
| CONSTANTS THE FOLLOWING BELONG TO TCAICTR2 NOTE: See definition of TCAICTR2 above before adding more byte definitions. | | | | |
| 1 | HEX | 01 | TCAICSRC | Search |
| 1 | HEX | 02 | TCAICRGW | Resume Get Waiters |
| CONSTANTS THE FOLLOWING REFER TO FIELD TCATPAPR | | | | |
| 1 | HEX | 0C | TCATPRCC | BAD REQUEST RETURN |
| 1 | HEX | 14 | TCATPR14 | MODE GP OUT OF SERVICE |
| 1 | HEX | 18 | TCATPR18 | LUC DRAIN=ALL |
| 1 | HEX | 1C | TCATPR1C | RM ADD_LINK failure |
| THE FOLLOWING REFER TO FIELD TCATPLRC | | | | |
| 1 | HEX | 00 | TCATPLNR | NORMAL RETURN |
| 1 | HEX | F0 | TCATPLLE | LAST ENTRY |
| 1 | HEX | F1 | TCATPLIR | INVALID REQUEST |
| 1 | HEX | F2 | TCATPLII | INVALID TERMINAL ID |
| 1 | HEX | F3 | TCATPLIA | INVALID ADDRESS |

Table 558. (continued)

| Len | Type | Value | Name | Description |
|---|------|-------|----------|-----------------------------|
| 1 | HEX | F4 | TCATPLIL | INVALID LOGICAL DEVICE CODE |
| 1 | HEX | F5 | TCATPNAT | ATI REQUIRED ON NON-ATI |
| 1 | HEX | F6 | TCATPVAL | RESOURCE PROBLEM FOR |
| 1 | HEX | F7 | TCATPNVL | INVALID PROGRAM NAME |
| 1 | HEX | F8 | TCATPRFL | UNABLE TO PERFORM REQUEST |
| 1 | HEX | F9 | TCATPLNL | TYPE IS NOT LUC |
| 1 | HEX | FA | TCATPBSY | BUSY |
| 1 | HEX | FB | TCATPUSR | INVALID USERID |
| 1 | HEX | FC | TCATPDFR | Purge was deferred |
| 1 | HEX | FD | TCATPKIL | Kill was rejected |
| THE FOLLOWING REFER TO FIELD TCATPOS1 ZARQ REQUEST FLAGS | | | | |
| 1 | HEX | 00 | TCATPIOR | I/O REQUEST TYPE |
| 1 | HEX | 01 | TCATPISG | ISSUE SIGNAL REQUEST |
| 1 | HEX | 20 | TCATPASS | CLSDST PASS |
| 1 | HEX | 40 | TCATPPGM | PROGRAM REQUEST |
| 1 | HEX | 80 | TCATPEOD | EOD REQUEST |
| ZISP REQUEST FLAGS | | | | |
| 1 | HEX | 01 | TCATPALL | ALLOCATE REQUEST. |
| POINT logic moved in-line to ISP | | | | |
| 1 | HEX | 03 | TCATPFRE | FREE REQUEST. |
| 1 | HEX | 04 | TCATPFRD | FREE DETACH REQUEST |
| 1 | HEX | 05 | TCATPFRR | FREE RELEASE REQUEST |
| 1 | HEX | 06 | TCATPLUA | DFHLUC ALLOC REQUEST |
| 1 | HEX | 07 | TCATPLUF | DFHLUC FREE REQUEST |
| ZIS1 CTYPE REQUEST FLAGS | | | | |
| 1 | HEX | 01 | TCATPPRP | PREPARE REQUEST. |
| 1 | HEX | 02 | TCATPSPR | SPR REQUEST. |
| 1 | HEX | 03 | TCATPCMM | COMMIT REQUEST. |
| 1 | HEX | 04 | TCATPABT | ABORT REQUEST. |
| 1 | HEX | 05 | TCATPSRB | ROLLBACK request |
| 1 | HEX | 06 | TCATPERR | ISSUE-ERROR request |
| 1 | HEX | 07 | TCATPABN | ISSUE-ABEND request |
| 1 | HEX | 08 | TCATPSHU | SHUNT request |
| ZLOC REQUEST FLAGS | | | | |
| 1 | HEX | 01 | TCATPLOC | LOCATE REQUEST |
| 1 | HEX | 02 | TCATPATI | AUTOMATIC TASK INITIATION |

Table 558. (continued)

| Len | Type | Value | Name | Description |
|--|------|-------|----------|-------------------------------------|
| 1 | HEX | 05 | TCATPUNL | UNLOCK REQUEST |
| 1 | HEX | 08 | TCATPLDR | LOGICAL DEVICE CODE REQUEST |
| 1 | HEX | 20 | TCATPSYN | SYNC-POINT REQUEST |
| 1 | HEX | 21 | TCATPRCY | RECOVER REQUEST |
| 1 | HEX | 10 | TCATPXLT | TRANSLATE ID TO UNIQUENAME (REQUEST |
| ZDET REQUEST FLAGS | | | | |
| 1 | HEX | 10 | TCATPDET | DETACH REQUEST |
| ZSTU REQUEST FLAGS | | | | |
| 1 | HEX | 02 | TCATPFOR | FORCEPURGE |
| 1 | HEX | 03 | TCATPPUR | TASK PURGE REQ(TCATPTA=TCA) |
| 1 | HEX | 04 | TCATPTST | STATUS REQUEST |
| THE FOLLOWING REFER TO FIELD TCATPOS2 ZLOC REQUEST SETTINGS WITH CTYPE=LOCATE, 3 BITS SPECIFY THE FORM OF SEARCH ARGUMENT: THE INTERPRETATION OF THE 2 LOW-ORDER BITS IS MAINTAINED IN THE FOLLOWING, FOR COMPATIBILITY WITH CALLS IN OLD MODULES. | | | | |
| 1 | HEX | 00 | TCATPLCL | LOCAL DOMAIN IE THIS CICS. |
| 1 | HEX | 08 | TCATPSTM | THE SYTEMS ENTRIES. |
| 1 | HEX | 10 | TCATPREM | REMOTE DOMAIN (ALL REGIONS) |
| 1 | HEX | 18 | TCATPGBL | ALL REGIONS, LOCAL & REMOTE |
| 1 | HEX | 20 | TCATPNIB | TERMINAL \| SESSION, IDENTIFIED VIA |
| 1 | HEX | 28 | TCATPSES | SESSIONS, DEPENDENT ON SPECIFIED |
| 1 | HEX | 30 | TCATPGRP | LUC SESSIONS, DEPENDENT UPON A |
| 1 | HEX | 38 | TCATPMOD | MODE GROUP ENTRIES, DEPENDENT UPON |
| 1 | HEX | 40 | TCATPLUC | LUC SYSTEM OR SESSION DOMAIN |
| 1 | HEX | 48 | TCATPOOL | POOL TERMINALS DOMAIN |
| 1 | HEX | 50 | TCATPIRC | IRC SYSTEM DOMAIN |
| 1 | HEX | 58 | TCATPSUR | SURROGATE TCTTE DOMAIN |
| 1 | HEX | 60 | TCATPPRT | PRINTER SPOOLER DOMAIN |
| 1 | HEX | 00 | TCATPADR | ADDR OF PASSED TE \| SE. |
| 1 | HEX | 01 | TCATPTID | ID REQUEST -- 4 BYTES GIVEN |

Table 558. (continued)

| Len | Type | Value | Name | Description |
|---|------|-------|----------|---------------------------------|
| 1 | HEX | 02 | TCATPNXT | ADDR GIVEN, NEXT REQUESTED |
| 1 | HEX | 03 | TCATPUNQ | UNIQUE COMPOUND NAME GIVEN |
| 1 | HEX | 04 | TCATPFST | FIRST-IN-DOMAIN REQUEST. |
| 1 | HEX | 05 | TCATPNET | PTR TO VTAM NETNAME GIVEN. |
| 1 | HEX | 06 | TCATPSID | COMPARE SIDS. |
| 1 | HEX | 07 | TCATPFM7 | 8TH FORMAT UNDEFINED. |
| THE FOLLOWING REFER TO FIELD TCATPOC1 | | | | |
| 1 | HEX | 01 | TCATPWCI | CONTROL CHARACTER SUPPLIED |
| 1 | HEX | 02 | TCATPOFR | END OF FILE REQUEST |
| 1 | HEX | 04 | TCATPPBK | PASSBOOK REQUEST |
| 1 | HEX | 08 | TCATPCBR | COMMON BUFFER REQUEST |
| 1 | HEX | 10 | TCATPRAR | READ ATTENTION ANALYSIS |
| 1 | HEX | 20 | TCATPWBR | WRITE BREAK ANALYSIS |
| 1 | HEX | 40 | TCATP120 | PLIST IS AT V1.2.0 LEVEL |
| 1 | HEX | 80 | TCATPDRR | DEFINITE RESPONSE REQUESTED |
| 1 | HEX | 08 | TCATOTTI | TTI ALLOWED |
| 1 | HEX | 04 | TCATNTTI | NO TTI ALLOWED |
| 1 | HEX | 02 | TCATOATI | ATI ALLOWED |
| 1 | HEX | 01 | TCATNATI | NO ATI ALLOWED |
| 1 | HEX | 00 | TCATPCOM | COMMUNICATION INDICATOR |
| PROGRAM CONTROL PRIMARY REQUEST BYTE VALUES | | | | |
| 1 | HEX | 01 | TCAPCLNK | LINK |
| 1 | HEX | 20 | TCAPCEXT | SETEXIT |
| 1 | HEX | 40 | TCAPCABD | ABEND |
| 1 | HEX | 41 | TCAPCADC | ABEND AND CANCEL ALL EXITS * |
| 1 | HEX | 60 | TCAPCABA | ABEND WITH ABCODE |
| 1 | HEX | 61 | TCAPCACA | ABEND CANCEL EXITS WITH ACODE * |
| RESPONSE RETURN CODES | | | | |
| 1 | HEX | 00 | TCAPCROK | NORMAL RESPONSE |
| 1 | HEX | 02 | TCAPCINV | INVALID PROGRAM CNTRL REQUEST * |
| 1 | HEX | 03 | TCAPCFFA | FAILURE FROM FETCH |

Table 558. (continued)

| Len | Type | Value | Name | Description |
|---|------|-------|----------|------------------------------|
| 1 | HEX | 04 | TCAPCABN | ABEND RETURNED TO URM |
| 1 | HEX | 01 | TCAPCWAM | WRONG AMODE FOR LINK |
| 1 | HEX | 02 | TCAPCNON | PPT NOTFND, NOT PCLASS |
| PROGRAM CONTROL SECONDARY REQUEST BYTE VALUES | | | | |
| 1 | HEX | 02 | TCAPCEXR | EXIT IS ROUTINE (SETEXIT) * |
| 1 | HEX | 08 | TCAPCREX | RESETEXIT (SETEXIT) |
| 1 | HEX | 80 | TCAPCNOD | SUPPRESS DUMP (WITH ABEND) * |
| CONSTANTS TCAPHTR EQUATES | | | | |
| 1 | HEX | 01 | TCAPHPSI | TYPE=PSETLOAD |
| 1 | HEX | 02 | TCAPHpsc | TYPE=PSETCRT |
| 1 | HEX | 03 | TCAPHPIN | DECOMPOSE 3270E INBOUND |
| 1 | HEX | 04 | TCAPHpxe | INPUT FROM WRONG PARTITION |
| TCAPHRC EQUATES | | | | |
| 1 | HEX | 00 | TCAPHROK | GOOD RETURN CODE |
| 1 | HEX | 04 | TCAPHNPS | PARTITION SET NOT KNOWN |
| 1 | HEX | 08 | TCAPHIPS | INVALID PARTITION SET |
| 1 | HEX | 0C | TCAPHNP | PARTITION NOT KNOWN |
| 1 | HEX | 10 | TCAPHERR | IRRECOVERABLE ERROR |
| CONSTANTS THE FOLLOWING BELONG TO THE BYTE TCAMSRC1 | | | | |
| 1 | HEX | 00 | TCAMSNR1 | NORMAL RESPONSE |
| THE FOLLOWING BELONG TO THE BYTE TCAMSTR4 | | | | |
| 1 | HEX | C0 | TCAMSTDY | DATA = YES |
| THE FOLLOWING BELONG TO THE BYTE TCAMSJ | | | | |
| 1 | HEX | FF | TCAMSJF | JUSTIFY = FIRST |
| 1 | HEX | FE | TCAMSJL | JUSTIFY = LAST |
| THE FOLLOWING CONSTANTS REFER TO TCASPRC | | | | |
| 1 | HEX | 00 | TCASPRC0 | NORMAL RETURN |
| 1 | HEX | 01 | TCASPRC1 | Rolled Back |
| 1 | HEX | 08 | TCASPRC8 | STATE ERROR |
| TCADLRC and TCADLTR are used to indicate the results of a DL/I related request. TCADLRC contains the Response Code and, where appropriate, TCADLTR contains the Reason Code to explain the response code further. | | | | |
| TCADLRC may contain the following response codes:- | | | | |

Table 558. (continued)

| Len | Type | Value | Name | Description |
|--|------|-------|----------|---|
| 1 | HEX | 00 | TCADLNR | Normal Response |
| 1 | HEX | 08 | TCADLINV | Invalid Request (Reason in TCADLTR) |
| 1 | HEX | 0C | TCADLNOP | Not Open (Reason in TCADLTR) |
| TCADLTR may contain the following response codes:- When Normal Response - TCADLRC=TCADLNR TCADLTR will also contain TCADLNR to indicate Normal Response When Invalid Request - TCADLRC=TCADLINV | | | | |
| 1 | HEX | 00 | TCADLINA | Invalid Argument |
| 1 | HEX | 00 | TCADLPIN | PI Trace On (CEMT PITRACE only) |
| 1 | HEX | 01 | TCADLPNF | PSB Not Found in PDIR |
| 1 | HEX | 03 | TCADLSFS | Schedule Failure - A PSB is already scheduled |
| 1 | HEX | 04 | TCADLPIF | PI Trace Off (CEMT PITRACE only) |
| 1 | HEX | 05 | TCADLSFI | Schedule Failure - IMS unable to schedule PSB |
| 1 | HEX | 07 | TCADLTEF | Termination Failure - No PSB has been scheduled |
| 1 | HEX | 08 | TCADLFUF | Function Failure - No PSB has been scheduled |
| 1 | HEX | 08 | TCADLNPI | PI not being used (CEMT PITRACE only) |
| 1 | HEX | 10 | TCADLSFP | Schedule Failure - Invalid System Service parameter |
| 1 | HEX | 14 | TCADLFPX | Function prevented by User Exit XDLIPRE |
| 1 | HEX | 1C | TCADLSTG | Unable to acquire storage |
| The following code applies to TCADLTR | | | | |
| 1 | HEX | FF | TCADLNA | DL/I Support not available |
| When Not Open - TCADLRC=TCADLNOP | | | | |
| 1 | HEX | 00 | TCADLDBC | Data Base not open |
| 1 | HEX | 02 | TCADLISC | Intent Scheduling Conflict |
| 1 | HEX | E1 | TCATDCLO | - CTYPE=LOCATE |
| 1 | HEX | E4 | TCATDBRW | - CTYPE=BROWSE |
| 1 | HEX | FC | TCATDCPT | - CTYPE=PUT |
| 1 | HEX | FD | TCATDCGT | - CTYPE=GET |
| 1 | HEX | FE | TCATDCPR | - CTYPE=PURGE |
| CONSTANTS The following refer to TCATSTR. | | | | |
| 1 | HEX | 00 | TCATSNML | normal response |
| 1 | HEX | 01 | TCATSENE | entry number error |

Table 558. (continued)

| Len | Type | Value | Name | Description |
|--|------|-------|----------|-----------------------------------|
| 1 | HEX | 02 | TCATSIDE | id error |
| 1 | HEX | 04 | TCATSIOE | input/output error |
| 1 | HEX | 08 | TCATSNOS | nospace error |
| 1 | HEX | 20 | TCATSINV | invalid request error |
| 1 | HEX | 80 | TCATSDUP | duplicate id error |
| THE FOLLOWING REFER TO TCATSCMD | | | | |
| 1 | HEX | 00 | TCATSNRM | NORMAL |
| 1 | HEX | C0 | TCATSHDR | SPECIAL HEADER. SPHDR. |
| CONSTANTS THE FOLLOWING BELONG TO THE BYTE TCADIRC1 | | | | |
| 1 | HEX | 00 | TCADIQNM | NORMAL RESPONSE |
| 1 | HEX | 0C | TCADIQSL | SELECTION ERROR |
| THE FOLLOWING BELONG TO THE BYTE TCADIRC2 | | | | |
| 1 | HEX | 01 | TCADIQBE | BEGIN DESTINATION |
| 1 | HEX | 02 | TCADIQRE | RESUME DESTINATION |
| 1 | HEX | 11 | TCADIQEN | END DESTINATION |
| 1 | HEX | 12 | TCADIQSU | SUSPEND DESTINATION |
| 1 | HEX | 13 | TCADIQAB | ABORT DESTINATION INBOUND |
| 1 | HEX | 14 | TCADIQAY | ABORT DESTINATION OUTBOUND |
| 1 | HEX | 15 | TCADIQCN | CURRENTLY NO DATA TO SEND |
| 1 | HEX | 21 | TCADIQIF | INVALID FUNCTION |
| 1 | HEX | 22 | TCADIQLF | RECORD TOO LONG |
| 1 | HEX | 23 | TCADIQFD | DATA SET FULL |
| 1 | HEX | 24 | TCADIQIK | INVALID RECORD KEY OR |
| 1 | HEX | 25 | TCADIQID | I/O ERROR ON OUTBOARD DISK |
| 1 | HEX | 26 | TCADIQIB | INVALID NUMERICAL RECORD |
| 1 | HEX | 28 | TCADIQIR | INSUFFICIENT RESOURCE |
| 1 | HEX | 29 | TCADIQND | DATA SET NOT FOUND |
| 1 | HEX | 2A | TCADIQTD | DATA SET ALREADY EXISTS |
| 1 | HEX | 2B | TCADIQCD | REQUEST CHANGE DIRECTION ERROR |
| 1 | HEX | 41 | TCADIQXD | DESTINATION DOES NOT EXIST |
| 1 | HEX | 42 | TCADIQBD | BUSY DATA SET |
| 1 | HEX | 43 | TCADIQXM | SELECT VALUE NOT SUPPORTED |

Table 558. (continued)

| Len | Type | Value | Name | Description |
|---|------|-------|----------|-----------------------------|
| 1 | HEX | 44 | TCADIQLD | DESTINATION NAME LENGTH |
| 1 | HEX | 45 | TCADIQIV | INVALID VOLUME |
| 1 | HEX | 46 | TCADIQLV | VOLUME NAME LENGTH ERROR |
| 1 | HEX | 47 | TCADIQTT | TRANSMIT DATASET ATERM |
| 1 | HEX | 48 | TCADIQAV | ACTIVE DESTINATION SELECTED |
| 1 | HEX | 60 | TCADIQTS | TEMPORARY STORAGE ERROR |
| 1 | HEX | F1 | TCADIQUF | UNEXPECTED SENSE CODE RECV |
| 1 | HEX | F2 | TCADIQUA | INVALID INPUT RECEIVED |
| 1 | HEX | F3 | TCADIQUI | UNSUPPORTED INPUT RECEIVED |
| THE FOLLOWING BELONG TO THE BYTE TCADIFL1 | | | | |
| 1 | HEX | 01 | TCADIFOA | TYPE=ADD |
| 1 | HEX | 02 | TCADIFOE | TYPE=ERASE |
| 1 | HEX | 03 | TCADIFOR | TYPE=REPLACE |
| 1 | HEX | 04 | TCADIFAB | TYPE=ABORT |
| 1 | HEX | 05 | TCADIFOQ | TYPE=QUERY |
| 1 | HEX | 06 | TCADIFEN | TYPE=END |
| 1 | HEX | 07 | TCADIFIR | TYPE=RECEIVE |
| 1 | HEX | 08 | TCADIFNT | TYPE=NOTE |
| 1 | HEX | 09 | TCADIFDT | TYPE=DETACH |
| 1 | HEX | 0A | TCADIFIB | TYPE=ATTACH |
| 1 | HEX | 0B | TCADIFOS | TYPE=SEND |
| 1 | HEX | 0C | TCADIFCK | TYPE=WAIT |
| 1 | HEX | 0D | TCADIFCA | CTYPE=ABORT |
| 1 | HEX | 00 | TCADIRLE | RELEASE LEVEL |

TCADY - Task Control Area - System Area

DESCRIPTIVE NAME = TASK CONTROL AREA - SYSTEM AREA
 FUNCTION = The DFHTCADY structure is repeated to provide the offsets when it is addressed separately.

Table 559.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 392 | DFHTCADY | |
| SYSTEM AREA | | | | |
| (0) | CHARACTER | 0 | DFHSYTCA | |

Table 559. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (0) | CHARACTER | 8 | TCACPROG | Current program name |
| TASK CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSKC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHKC TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHKC system overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1985, 2010 STATUS = 6.9.0 | | | | |
| (8) | CHARACTER | 4 | TCATXNUM | TXN MGR transaction num |
| (8) | BIT(8) | 1 | * | X'00' |
| (9) | CHARACTER | 3 | TCAKCTTA | TASK IDENTIFICATION NUM |
| (C) | CHARACTER | 8 | TCASPOOL | TCA subpool id |
| (14) | ADDRESS | 4 | * | Reserved |
| (18) | ADDRESS | 4 | TCARSTSK | RESUME TASK'S TCA ADDRESS |
| (1C) | ADDRESS | 4 | TCADWLBA | DEFERRED WORK LIST BEGIN ADDRESS |
| INTERVAL CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSIC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHIC TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHIC System Overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1984, 2014 STATUS = 6.9.0 | | | | |
| INTERVAL CONTROL SECTION | | | | |
| (20) | ADDRESS | 4 | TCAICEAD | INTERVAL CONTROL ELEMENT ADDRESS |
| (24) | ADDRESS | 4 | * | Reserved |
| PROGRAM CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSPC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHPC TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS Section used by PROGRAM CONTROL Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1983, 2012 STATUS = 6.9.0 | | | | |
| (28) | ADDRESS | 4 | TCAPCSA | Head of chain of PESAs used to stack ap info over a link |
| (2C) | ADDRESS | 4 | * | Reserved |
| (30) | CHARACTER | 16 | TCAPCTWA | PROGRAM CONTROL WORK AREA |
| (30) | ADDRESS | 8 | TCAPCHS | HLL Save Area |
| TCAPCDSA IS THE HEAD OF THE CHAIN OF DYNAMIC STORAGE USED BY ASSEMBLER APPLICATION PROGRAMS TO MAKE THEM REENTRANT. | | | | |

Table 559. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (38) | ADDRESS | 8 | TCAPCDSA | Dynamic Storage Hdr |
| (40) | ADDRESS | 4 | TCALEDT | Address of data to be added to the transaction dump |
| (44) | CHARACTER | 8 | TCAPCIPN | Name of invoking program after DPL from client |
| TRANSIENT DATA SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSTD NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHTD TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHTD system overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1984, 2014 STATUS = 6.9.0 TRANSIENT DATA SECTION | | | | |
| (4C) | ADDRESS | 4 | TCAIDAA | TD INPUT AREA |
| BASIC MAPPING SUPPORT | | | | |
| CONTROL BLOCK NAME = DFHTCSBM NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHBMS TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHBMS System Overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1993 STATUS = 6.9.0 | | | | |
| (50) | ADDRESS | 4 | TCAOSPWA | OUTPUT SERVICE PROCESSOR WORK AREA ADDRESS (BMS) |
| (54) | CHARACTER | 3 | * | Reserved |
| (57) | BIT(8) | 1 | TCADLII | DL/I INDICATOR |
| (57) | 1... | | TCADLISI | DL/I SCHEDULING INITIATED |
| (57) | .111 1111 | | * | Reserved |
| RECOVERY / RESTART SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSP NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHSP TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHSP SYSTEM OVERLAY OF THE DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1985, 2010 STATUS = 6.9.0 RECOVERY / RESTART SECTION | | | | |
| (58) | BIT(8) | 1 | TCAZLUWD | TASK'S LOGICAL UNIT OF WORK (LUW) DEFINITION |
| (58) | 1... | | TCAZAKPT | Activity keypoint |
| (58) | .111 1111 | | * | Reserved |
| (59) | BIT(8) | 1 | TCAZLUWT | TASK'S LUW STATUS |
| (59) | 1... | | TCAZRRD | A READ HAS OCCURRED IN THIS LUW |

Table 559. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (59) | .1.. | | TCAZRVRT | A WRITE HAS OCCURRED IN THIS LUW |
| (59) | ..1. | | TCAZINDT | Next SHUNT is 'in-doubt' |
| (59) | ...1 1... | | * | Reserved |
| (59) |1.. | | TCAZDLIC | DL/I-SYNCHRONOUS 4 COMMUNICATION ESTABLISHED |
| (59) |11 | | * | Reserved |
| (5A) | BIT(8) | 1 | TCABRPS | Rollback status |
| (5A) | 1... | | * | RESERVED |
| (5A) | .1.. | | TCATXBCK | TEXCI BACKOUT |
| (5A) | ..1. | | TCABRPSR | Backout-Reqd prog state |
| (5A) | ...1 1111 | | * | Reserved |
| (5B) | CHARACTER | 1 | * | Reserved |
| (5C) | ADDRESS | 4 | TCADWASV | SAVE ADDR OF DWE CHN. |
| (60) | CHARACTER | 4 | * | Reserved |
| (64) | CHARACTER | 4 | TCAORABC | ORIGINAL ABEND CODE |
| (64) | CHARACTER | 4 | TCADBABC | ABEND CODE OF APPLICATION. |
| (68) | BIT(8) | 1 | TCATRTO | TERMINAL READ TIME OUT VALUE |
| (69) | BIT(8) | 1 | TCAFLAGS | MISCELLANEOUS FLAGS |
| (69) | 1... | | * | Reserved |
| (69) | .1.. | | TCANOTRC | SUPPRESS TRACE FOR TASK |
| (69) | ..1. | | * | Reserved |
| (69) | ...1 | | TCASZUSE | FEPI Access in Task |
| (69) | 1... | | * | Reserved |
| (69) |1.. | | TCAUKCAL | MAKE CALL IN USER KEY |
| (69) |11 | | * | Reserved |
| (6A) | BIT(8) | 1 | TCASCS | SCREEN SIZE SELECTION ETC |
| (6A) | 1... | | TCAFASTL | FAST LINK to DFHMIRS |
| (6A) | .111 | | * | |
| (6A) | 1... | | TCASCSZ | ALTERNATE SCREEN SIZE |
| (6A) |1.. | | * | |
| (6A) |1. | | TCAPRTCM | BMS TEXT PRINTER COMPATIBILITY |
| (6A) |1 | | TCATCABT | DFHACP abending flag |
| (6B) | BIT(8) | 1 | TCAIRTC | INTER REGION RETURN CODE |
| (6C) | ADDRESS | 4 | TCARLB | Address of TMP lock block |

Table 559. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (70) | ADDRESS | 4 | TCAEMSSV | SAVE AREA FOR DFHEMS |
| (74) | CHARACTER | 3 | * | Reserved |
| (77) | BIT(8) | 1 | TCAEISFL | EXEC CICS I/F FLAG |
| (78) | ADDRESS | 4 | TCAEISA | EXEC CICS I/F STRUCT ADDR |
| (7C) | ADDRESS | 4 | TCACAAAD | LE/370 Anchor Address |
| (80) | ADDRESS | 4 | TCACEEPT | LE/370 Parameter List Address * |
| (84) | ADDRESS | 4 | TCAIIRE | III task return addr |
| (88) | ADDRESS | 8 | TCAREGPT | EXEC CICS regs |
| (90) | FULLWORD | 4 | TCAXTCB | XPTCB or SJTCB blk addr |
| (94) | ADDRESS | 4 | * | Reserved |
| (98) | CHARACTER | 4 | TCAKCTTI | Assigned transaction id |
| (9C) | ADDRESS | 4 | TCATCUCN | TCTTE USER CHAIN FIELD. |
| (A0) | ADDRESS | 4 | TCAXFS23 | XFSTG FOR TRANSFORMATION 2 AND 3 |
| (A4) | ADDRESS | 4 | TCARSBA | ADDRESS OF REMOTE SCHEDULING BLOCK |
| (A8) | CHARACTER | 4 | TCAKCOID | ID WHICH ORIGINATED TASK |
| (AC) | BIT(8) | 1 | TCADLIST | DLI STATUS INFORMATION |
| (AC) | 1... | | TCAUIBAQ | UIB ACQUIRED |
| (AC) | .111 | | * | Reserved |
| (AC) | 1... | | TCAEXDLI | EXEC DLI |
| (AC) |1.. | | * | Reserved |
| (AC) |1. | | TCAREMOT | REMOTE |
| (AC) |1 | | TCADBCTL | DBCTL |
| (AD) | CHARACTER | 2 | TCAACMSG | DFHACP MSG NUMBER |
| (AF) | BIT(8) | 1 | TCAAPFLG | AP DOMAIN FLAGS |
| (AF) | 1... | | TCARSREQ | RESUME REQUIRED |
| (AF) | .1.. | | TCAXMSOT | APXMI should invoke APXM |
| (AF) | ..1. | | TCAROUTE | Transaction route attach has been sent to a remote CICS system |
| (AF) | ...1 | | TCADSAUT | disable audit SPI if |
| (AF) | 1... | | TCATSUSP | DFHAPIN suspend |
| (AF) |111 | | * | Reserved |
| (B0) | CHARACTER | 3 | * | Reserved |

Table 559. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (B3) | BIT(8) | 1 | TCAAAM | APPLICATION ADDRESSING MODE NB BITS 1 - 6 OF BYTE TCAAAM MUST BE ZERO |
| (B3) | 1... | | TCAAAM31 | 31-BIT MODE |
| (B3) | .1.. | | TCAAAM64 | 64-BIT MODE |
| (B4) | ADDRESS | 4 | * | Reserved |
| (B8) | CHARACTER | 4 | TCACRABC | CURRENT ABEND CODE |
| (B8) | CHARACTER | 4 | TCAPCABC | CURRENT ABEND CODE |
| (BC) | CHARACTER | 3 | * | Reserved |
| (BF) | CHARACTER | 1 | TCAIACB | ABEND CONTROL BLOCK STATUS * |
| (C0) | ADDRESS | 4 | TCAPCACB | ABEND CONTROL BLOCK ADDRESS |
| (C4) | CHARACTER | 4 | TCASENSE | SENSE FIELDS |
| (C4) | CHARACTER | 2 | TCASS1 | SYSTEM SENSE |
| (C6) | CHARACTER | 2 | TCAUS1 | USER MSG NO. |
| (C8) | ADDRESS | 4 | TCATIEBA | TIE CHAIN FOR API ROUTER |
| (CC) | ADDRESS | 4 | TCADMTLA | ADDRESS OF CSD MANAGER TASK LOCAL STORAGE |
| (D0) | FULLWORD | 4 | TCATRRC | Transaction Routing RC |
| (D4) | CHARACTER | 3 | * | Reserved |
| (D7) | CHARACTER | 5 | TCAJVM | JVM information |
| (D7) | BIT(8) | 1 | TCACJVMF | DFHCJVM flags |
| (D7) | 1... | | * | Reserved |
| (D7) | .1.. | | * | Reserved |
| (D7) | ..1. | | TCAJVMXT | System.exit from JVM |
| (D7) | ...1 1111 | | * | Reserved |
| (D8) | CHARACTER | 4 | TCAJVMTK | Token for JVM instance |
| (DC) | ADDRESS | 4 | TCAPCXA | PROGRAM LOAD POINT ADDRESS |
| (E0) | CHARACTER | 8 | TCATRRSN | RESOURCE NAME |
| BASIC MAPPING SUPPORT FAST PATH FIELDS. | | | | |
| (E8) | CHARACTER | 8 | TCABMMSN | SUFFIXED NAME OF MOST RECENTLY LOADED BMS MAPSET |
| (F0) | ADDRESS | 4 | TCABMMSA | ADDRESS OF MOST RECENT BMS MAPSET |
| (F4) | CHARACTER | 1 | TCABMMW | WIDTH OF MOST RECENT BMS MAP |
| (F5) | CHARACTER | 1 | TCABMMH | HEIGHT OF MOST RECENT BMS MAP |

Table 559. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (F6) | CHARACTER | 1 | TCABMMC | COLUMN POSITION MOST RECENT BMS MAP |
| (F7) | CHARACTER | 1 | TCABMML | LINE POSITION MOST RECENT BMS MAP |
| LU6.2 INFORMATION | | | | |
| (F8) | ADDRESS | 4 | TCAALUCX | ADDRESS OF LU6.2 EXTENSION |
| (FC) | FULLWORD | 4 | TCATMRLP | TMP read lock list addr. |
| (100) | CHARACTER | 4 | TCAICREQ | REQID from an IC START |
| TASK CONTROL - TABLE MANAGER INTERFACE | | | | |
| (104) | BIT(8) | 1 | TCAALFLG | Flag byte used by DFHALP |
| (104) | 1... | | TCAALRES | A RESUME is required |
| (104) | .111 1111 | | * | Reserved |
| (105) | CHARACTER | 3 | * | Reserved |
| (108) | ADDRESS | 4 | TCADOMPM | USED as plist addr |
| (10C) | CHARACTER | 8 | TCATRIDQ | TRACE ID QUALIFIER |
| TRANSIENT DATA | | | | |
| CONTROL BLOCK NAME = DFHTC2TD NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHTD TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHTD system overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1984, 2014 STATUS = 6.9.0 TRANSIENT DATA - NEW 1.7 FIELDS | | | | |
| (114) | CHARACTER | 4 | TCADSTID | TRANSIENT DATA DESTID |
| SPECIAL FEATURES | | | | |
| (118) | ADDRESS | 4 | TCAPSDBA | BASE POINTER FOR TASK PDB CHAIN FOR MVS * |
| (11C) | CHARACTER | 2 | * | Reserved |
| Transaction Routing parameters (DFHAPRT->DFHZIS2) & ATI routing for PF starts | | | | |
| (11E) | BIT(8) | 1 | TCAAPRTF | Transaction Routing parameter flags |
| (11E) | 1... | | TCAPRIP | Priority is to be passed to the AOR |
| (11E) | .1.. | | TCASYSNP | Applid present |
| (11E) | ..1. | | TCARTST | Routable start |
| (11E) | ...1 | | TCATRMNP | Terminal netname present |
| (11E) | 1111 | | * | Reserved |
| (11F) | UNSIGNED | 1 | TCATRPRI | Priority value to pass to AOR |
| (120) | ADDRESS | 4 | TCADSBA | DBCTL SCHEDULING BLOCK ADDRESS * |

Table 559. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (124) | CHARACTER | 4 | TCADLUIB | USER INTERFACE BLOCK (UIB) * |
| (124) | ADDRESS | 4 | TCADLIBA | UIB ADDRESS |
| (128) | ADDRESS | 4 | TCAAPRET | return address for DETACH |
| (12C) | CHARACTER | 8 | TCAPLAN | DB2 plan in use if any |
| (134) | CHARACTER | 8 | TCATRMNE | Terminal netname |
| (13C) | CHARACTER | 4 | TCASUTOK | suspend/resume token for general AP use |
| (140) | ADDRESS | 8 | TCAEIUSA | A(EIUS). The user part of the EXEC CICS interface structure |
| (148) | CHARACTER | 8 | TCASYSNE | Applid of owning Terminal |
| CPI-C | | | | |
| (150) | ADDRESS | 4 | TCACPCCN | base pointer for CPC chain |
| (154) | ADDRESS | 4 | TCATRU24 | Head of TRUE save area |
| (158) | CHARACTER | 1 | TCAFCNOM | Copy of FCN OLDMODE |
| (159) | CHARACTER | 3 | * | Reserved |
| (15C) | ADDRESS | 4 | * | Reserved |
| FIELDS FOR USE BY DFHSRP (24 BYTES) | | | | |
| (160) | CHARACTER | 24 | TCASRDAT | Fields for SRP use only |
| (160) | CHARACTER | 8 | TCASRPGM | Name of abended program |
| (168) | CHARACTER | 8 | TCASRPCD | Kernel error code xxx/yyyy |
| (168) | CHARACTER | 3 | TCASYABD | xxx |
| (16B) | CHARACTER | 1 | * | / |
| (16C) | CHARACTER | 4 | TCATRABD | yyyy |
| (170) | FULLWORD | 4 | TCASROFF | Offset of abend in program |
| (170) | ADDRESS | 4 | TCAKEDAD | -> Kernel error data copy |
| (174) | BIT(8) | 1 | TCASRFLG | SRP flag byte |
| (174) | 1... | | TCASRDMP | System dump required |
| (174) | .1.. | | TCAEMSIC | EMS deliberate prog check |
| (174) | ..11 | | * | Reserved |
| (174) | 1... | | TCASRAP | AP0001 abend issued by DFHSRP |
| (174) |1.. | | TCACHKAD | EDF DELIBERATE ABEND |
| (174) |1. | | TCAFCNFO | FCN abend on FO TCB |
| (174) |1 | | TCACNCHK | Channel storage check in progress |
| (175) | UNSIGNED | 1 | TCASRLOC | Abend in application? |
| (176) | BIT(16) | 2 | TCASREXC | EXC trace point id |
| FIELDS FOR THE REMOTE SYSTEM AND TRANSACTION NAMES | | | | |
| (178) | CHARACTER | 4 | TCARMTRA | Remote Transaction name |
| (17C) | CHARACTER | 4 | TCARMSYS | Remote System name |

Table 559. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------|-----------|-----|------------|-------------------------------|
| FIELDS FOR COMMAND AUDIT | | | | |
| (180) | CHARACTER | 8 | TCAWUIID | USERID PASSED FROM WUI |
| END OF SYSTEM AREA | | | | |
| (188) | CHARACTER | 0 | TCAEND | TCA STORAGE AREA DISPLACEMENT |

ZRPL - CICS VTAM RPL extension

CONTROL BLOCK NAME = DFHTCLPS
 DESCRIPTIVE NAME = CICS TS VTAM RPL and CICS Extension
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 FUNCTION = CICS extension to the VTAM Request Parameter List for HPO (VTAM authorised path - SRB mode requests)
 The RPL is the parameter list used for VTAM request macros. A CICS extension, used mainly for requests made using HPO, is appended to it. The RPL and extension are always getmained together but the length of the extension does not affect RPLLEN (used with the VTAM API).
 LIFETIME = Receive Any RPLs are getmained during initialisation by DFHZRPL and are never freemained.
 RPLs for other VTAM requests have task lifetime and are getmained/freemained by ZGET/ZFRE
 STORAGE CLASS = Receive Any RPLs are in the RAP00L in subpool DFHAPD24.
 Other VTAM RPLs are in subpool ZCRPL
 LOCATION = The RAP00L is addressed by TCTVRVRA
 Other RPLs are addressed by TCTERPLA
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) = VTAM AMSI globals are set

CICS VTAM RPL Extension
 - to match the assembler dsect which is aligned on a full word boundary, this definition must start at the next full word after the end of the VTAM RPL extension.

Table 560.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------------|
| (0) | STRUCTURE | 36 | ZRPLEXTN | |
| (0) | ADDRESS | 4 | ZRPLCOMP | Completion address(on exit from SRB) |
| (0) | ADDRESS | 4 | ZRPLLINK | Exit link register save |
| (4) | ADDRESS | 4 | ZRPLTCTE | Actual TCTTE address |
| (8) | ADDRESS | 4 | ZRPLRETA | Return address from ZHPSR |

Table 560. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (C) | ADDRESS | 4 | ZRPLERXA | LERAD or SYNAD entry point |
| (10) | ADDRESS | 4 | ZRPLSCHN | SRB chain |
| (14) | ADDRESS | 4 | ZRPLRSAX | SRB reg save area address |
| (18) | ADDRESS | 4 | ZRPLHPXA | SRB RPL executor ep address |
| (1C) | ADDRESS | 4 | ZRPLWRK1 | SRB work field |
| (20) | BIT(8) | 1 | * | |
| (20) | 1... | | ZRPLZCL | Exit being called from ZDSP |
| (20) | .1.. | | ZRPLECB | ECB to be posted by ZDSP |
| (20) | ..1. | | ZRPLNHT | No HTA used with request |
| (20) | ...1 | | ZRPLLRQ | Long-term SRB |
| (20) | 1... | | ZRPLSRB | RPL executed in SRB mode |
| (20) |1.. | | ZRPLQIP | RPL on completion que for ZRLP |
| (20) |1. | | ZRPLNRC | Notify when on completion queue |
| (20) |1 | | ZRPLNRE | Caller handles No-TCT errs |
| (21) | BIT(8) | 1 | * | |
| (21) | 1... | | ZRPLERR | ZHPCH must call exit (ZSYX/ZLEX) |
| (22) | CHARACTER | 2 | * | Reserved |
| (24) | CHARACTER | 0 | * | Alignment |

TCPRA - Receive any control element

BI-LINGUAL Control Block

=====

DESCRIPTIVE NAME = CICS TS Receive Any Control Element

FUNCTION =

Receive Any Control Elements (RACE) are obtained at initialisation time by DFHZRPL.

Each element is a control block used when processing a Receive Any RPL. The RACE contains the ECB and a pointer to the RPL. RACEs are contained in a pool pointed to by the TCTVRVRA field of the terminal control table prefix.

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=====

Receive Any Pool

=====

Table 561.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------------|--------------------------------|
| (0) | STRUCTURE | 32 | DFHTCPRA | |
| (0) | CHARACTER | 4 | TCTVRAPS | Receive Any Pool start ! |
| (0) | UNSIGNED | 1 | TCTVRAB | Receive Any control byte ! |
| (0) | 1... | | TCTVRRS | Receive Specific required ! |
| (0) | .1.. | | TCTVRQP | Purge receive queue ! |
| (0) | ..1. | | TCTVRAG | TIOA GETMAIN required ! |
| (0) | ...1 | | TCTVLRP | Last RPL in pool flag ! |
| (0) | 1... | | TCTVRAI | RAIA GETMAIN required ! |
| (0) |1.. | | TCTVROL | Overlength data GETMAIN rqd. ! |
| (0) |1. | | TCTVRGM | RPL GETMAIN required ! |
| (0) |1 | | TCTVRAA | Receive Any not active ! |
| (1) | UNSIGNED | 1 | TCTVRAB2 | Receive Any control byte 2 ! |
| (1) | 1... | | TCTVWBC | Waiting for BID completion ! |
| (1) | .1.. | | TCTVCMR | Command response outstanding ! |
| (1) | ..1. | | TCTVRSN | Data from RECEIVE SPECIFIC NQ! |
| (1) | ...1 | | TCTVSRA | Stop issuing RECEIVE ANY ! |
| (1) | 1... | | TCTVIAP | Invalid TCTTE address passed ! |
| (1) |1.. | | TCTVSAS | Send asyn req outstanding |
| (1) |1. | | TCTVEXC | *exc* trace already writn |
| (1) |1 | | TCTVCFO | CLSDST force issued |
| (2) | HALFWORD | 2 | TCTVRAGN | Number of bytes for GETMAIN ! |
| (4) | ADDRESS | 4 | TCTVRAL | Receive Any RPL address ! |
| (8) | UNSIGNED | 4 | TCTVRAEB | Receive Any ECB |
| (8) | 1... | | TCTVRAEB_WAITING | ECB in waiting state |
| (8) | .1.. | | TCTVRAEB_POSTED | ECB in posted state |
| (8) | BIT(30) POS(3) | 4 | * | |
| (C) | ADDRESS | 4 | TCTVRAF1 | Reserved |
| (10) | ADDRESS | 4 | TCTVRAF2 | Reserved |
| (14) | ADDRESS | 4 | TCTVRAF3 | Reserved |

Table 561. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (18) | CHARACTER | 8 | TCTVRATI | TOD at time send issued |

TCRWE - Remote install work element

CONTROL BLOCK NAME = DFHTCRWE
 DESCRIPTIVE NAME = CICS/ESA Remote Install Work Element
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
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 (C) Copyright IBM Corp. 1990, 1995
 FUNCTION = Store remote install/remote delete data for use by
 module DFHZATS. The DSECT is used exclusively by
 DFHZTSP DFHCRS and DFHZATS.
 The WE contains:
 FIELD LENGTH
 =====
 Request type 1 byte
 ECB 1 byte
 Reserved 2 bytes
 Terminal ID 4 bytes
 Remote system ID 4 bytes
 TCSE address 4 bytes
 Netname 8 bytes
 Pointer to BPS 4 bytes
 New TCTTE address 4 bytes
 Token 8 bytes
 LIFETIME = Storage is obtained by a GETMAIN issued by the calling
 module (DFHZTSP or DFHCRS) and released by a FREEMAIN
 following completion or failure of the remote install or
 remote delete. In the event of the calling program
 ABENDING before completion of the remote install or
 delete storage is released by DFHZATS.
 STORAGE CLASS = Shared
 LOCATION = The address is placed in TCAFCAAA for retrieval by
 DFHZATS
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 MODULE TYPE = DSECT

 PLS DECLARATION OF THE REMOTE WORK ELEMENT

Table 562.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 56 | TCTRWE | |
| (0) | CHARACTER | 1 | RWETYPE | Request type |
| (1) | CHARACTER | 1 | RWEECB | ECB |
| (1) | 1... | | RWEIHA | Initiating program has ABENDED |
| (1) | .1.. | | RWEPOST | TCTTE built OK |
| (1) | ..1. | | RWESHA | Remote install prog. ABENDED |
| (1) | ...1 | | RWEDUP | Duplicate TCTTE found |
| (1) | 1... | | * | Reserved |
| (1) |1.. | | RWETOK | TCTTE has a token |

Table 562. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (1) |1. | | RWEBITM | RT bit map used |
| (1) |1 | | * | Reserved |
| (2) | BIT(8) | 1 | RWE_FLAG | Input flags |
| (2) | 1... | | RWERSE | Remote system entry |
| (2) | .1.. | | RWESTERM | Shipped terminal definition |
| (2) | ..1. | | RWE_VT | Virtual Terminal |
| (3) | CHARACTER | 1 | RWEPAD | Reserved |
| (4) | CHARACTER | 52 | RWEVAR | |
| (4) | CHARACTER | 4 | RWETERM | Terminal ID |
| (8) | CHARACTER | 4 | RWESID | Remote system ID |
| (C) | ADDRESS | 4 | RWESADDR | TCSE address |
| (10) | CHARACTER | 8 | RWENETN | Netname |
| (18) | ADDRESS | 4 | RWEBPS | Address of BPS |
| (1C) | ADDRESS | 4 | RWETCTAD | New TCTTE address |
| (20) | CHARACTER | 8 | RWETOKEN | Token |
| (28) | CHARACTER | 8 | RWECORID | Correlation Id of terminal |
| (30) | CHARACTER | 8 | RWENETOR | TOR Netname |

Constants

Table 563.

| Len | Type | Value | Name | Description |
|-----|------|-------|---------|-----------------------|
| 1 | HEX | 08 | RWEINST | Install requested |
| 1 | HEX | 04 | RWEDEL | Remote delete request |
| 1 | HEX | 02 | RWEMDEL | Mass delete request |
| 1 | HEX | 01 | RWEFDEL | Mass flag request |

TCTFX - Terminal control table prefix

CONTROL BLOCK NAME = DFHTCTFS
 DESCRIPTIVE NAME = CICS TS TERMINAL CONTROL TABLE PREFIX
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1986, 2008
 FUNCTION = The TCT Prefix is the anchor block for Terminal
 Control. It is used by most TC and ZC modules.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =

TCTVFRPA, TCTVFRMX, TCTVFRXC

Table 564.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------|-----------|-----|------------|--------------------------------|
| (0) | STRUCTURE | 904 | DFHTCTFX | TCT Prefix |
| Addresses of key areas | | | | |
| (0) | ADDRESS | 4 | TCTVWLA | Address of the wait list |
| (4) | ADDRESS | 4 | TCTVWLA1 | First non-VTAM wait list entry |
| (8) | ADDRESS | 4 | TCTVCSAA | Pointer to CSA address |
| (C) | ADDRESS | 4 | TCTVCSAD | CSA address saved by SIF1 |
| (10) | ADDRESS | 4 | TCTVADCB | A(non VTAM OPN/CLS list) |
| (14) | ADDRESS | 4 | TCTVTIHA | Address of term id hash list |
| (18) | ADDRESS | 4 | TCTVTATA | Address of term id addr table |
| (1C) | ADDRESS | 4 | TCTVTEBA | Address of first TCTTE |
| (20) | FULLWORD | 4 | TCTVDRSA | Dispatcher base reg. save |
| (24) | ADDRESS | 4 | TCTVDMTE | Address of dummy terminal |
| (28) | ADDRESS | 4 | TCTVRSAA | Address of reg. save stack |
| (2C) | FULLWORD | 4 | TCTVCNTE | Current NACP term entry addr. |
| (30) | CHARACTER | 8 | TCTVLVLR | CICS functions required |
| (38) | ADDRESS | 4 | TCTVMODL | Address of module list |
| (3C) | ADDRESS | 4 | TCTVSEBA | Address of first System Entry |
| (40) | CHARACTER | 4 | TCTVZQTI | Resource name for BPS trace |
| (44) | ADDRESS | 4 | TCTVATTB | Address of attach tables |
| (48) | CHARACTER | 4 | TCTVLVL | ASM time release level |
| (4C) | CHARACTER | 8 | TCTVLVLI | ASM time functions support |
| (54) | CHARACTER | 8 | TCTVLVLM | CICS functions supported |
| (5C) | CHARACTER | 8 | TCTVLVLB | RUN-TIME function support |
| (5C) | BIT(8) | 1 | TCTVLVL0 | Function support byte 0 |
| (5D) | BIT(8) | 1 | TCTVLVL1 | Function support byte 1 |
| (5D) | 1... | | * | 80 |
| (5D) | .1.. | | * | 40 |
| (5D) | ..1. | | * | 20 |
| (5D) | ...1 | | * | 10 |
| (5D) | 1... | | TCTVUSFD | 08 ACB USERFLD supported |
| (5D) |1.. | | * | 04 |
| (5D) |1. | | * | 02 |
| (5D) |1 | | TCTVLUNS | 01 Resource ID vector |
| (5E) | BIT(8) | 1 | TCTVLVL2 | Function support byte 2 |
| (5E) | 1... | | * | 80 |
| (5E) | .1.. | | * | 40 |

Table 564. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (5E) | ..1. | | * | 20 |
| (5E) | ...1 | | TCTVXRFS | 10 VTAM API is XRF capable |
| (5E) | 1... | | TCTVCLSS | 08 CLSDST sense codes supptd |
| (5E) |1.. | | TCTVSSON | 04 Sending SONCODE supported |
| (5E) |1. | | TCTVSLHO | 02 SETLOGON HOLD supported |
| (5E) |1 | | * | 01 |
| (5F) | BIT(8) | 1 | TCTVLVL3 | Function support byte 3 |
| (5F) | 1... | | TCTV31BA | 80 31-bit addr support |
| (5F) | .1.. | | TCTVQRN | 40 Queued response NOTFN |
| (5F) | ..1. | | * | 20 |
| (5F) | ...1 | | TCTVUVAR | 10 INQUIRE USERVAR supp. |
| (5F) | 1... | | * | 08 |
| (5F) |1.. | | * | 04 |
| (5F) |1. | | * | 02 |
| (5F) |1 | | * | 01 |
| (60) | BIT(8) | 1 | TCTVLVL4 | Function support byte 4 |
| (60) | 1... | | * | 80 |
| (60) | .1.. | | TCTVPLUS | 40 Per. Sess. terminals supported |
| (60) | ..1. | | * | 20 |
| (60) | ...1 | | * | 10 |
| (60) | 1... | | TCTVPLUT | 08 Per. Sess. APPC, LU61 & terminals supported |
| (60) |1.. | | * | 04 |
| (60) |1. | | * | 02 |
| (60) |1 | | * | 01 |
| (61) | BIT(8) | 1 | TCTVLVL5 | Function support byte 5 |
| (61) | 1... | | * | 80 |
| (61) | .1.. | | * | 40 |
| (61) | ..1. | | * | 20 |
| (61) | ...1 | | * | 10 |
| (61) | 1... | | * | 08 |
| (61) |1.. | | * | 04 |
| (61) |1. | | * | 02 |
| (61) |1 | | * | 01 |
| (62) | BIT(8) | 1 | TCTVLVL6 | Function support byte 6 |

Table 564. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------------|--|
| (62) | 1... | | * | 80 |
| (62) | .1.. | | * | 40 |
| (62) | ..1. | | * | 20 |
| (62) | ...1 | | * | 10 |
| (62) | 1... | | * | 08 |
| (62) |1.. | | * | 04 |
| (62) |1. | | * | 02 |
| (62) |1 | | * | 01 |
| (63) | BIT(8) | 1 | TCTVLVL7 | Function support byte 7 |
| (63) | 1... | | * | 80 |
| (63) | .1.. | | * | 40 |
| (63) | ..1. | | * | 20 |
| (63) | ...1 | | * | 10 |
| (63) | 1... | | * | 08 |
| (63) |1.. | | * | 04 |
| (63) |1. | | * | 02 |
| (63) |1 | | * | 01 |
| (64) | BIT(8) | 1 | TCTVPNTK | Print key value |
| (65) | BIT(8) | 1 | TCTVEODI | BSAM End of Device Ind |
| (66) | UNSIGNED | 2 | TCTVSKLN | Number of remote terminals |
| (68) | ADDRESS | 4 | TCTVSKAD | Address of 'REMOTE' index |
| (68) | ADDRESS | 4 | TCTVPOOL | 'Til TCRP. then anchor for chain of PIPELINE POOLS |
| (6C) | ADDRESS | 4 | TCTVMDAD | Address of model terminal entries |
| (70) | ADDRESS | 4 | TCTVMDND | End of model entries |
| (74) | ADDRESS | 4 | TCTVDSPA | Address of ZDSP DSSR plist |
| (78) | ADDRESS | 4 | TCTVSUT | Suspend token for DFHZNAC |
| (7C) | ADDRESS | 4 | TCTVVPLS | Saved VTAM parm list addr |
| (80) | ADDRESS | 4 | TCTV_APPC_BITMAP | APPC Session BITMAP ptr |
| (84) | ADDRESS | 4 | TCTV_MRO_BITMAP | MRO session name BITMAP |
| (88) | ADDRESS | 4 | TCTVADEF | Address of AUTODEF 'extension' |
| (8C) | HALFWORD | 2 | TCTVTCNT | Task count for ZRAC |
| (8E) | HALFWORD | 2 | TCTVNQCT | ENQ count for TCTI NAMESPACE |
| (90) | HALFWORD | 2 | TCTVNPRC | 'no primed' RPLs' count |
| This area (from TCTV_TRACE to TCTV_TRACE_LEN) is traced in some ZC level 1 trace formats | | | | |
| (92) | CHARACTER | 14 | TCTV_TRACE | TCT prefix trace area |
| (92) | BIT(8) | 1 | * | HPO & shutdown flags |

Table 564. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------|--|
| (92) | 1... | | TCTVHPOA | 80 HPO active in system |
| (92) | .1.. | | TCTVSLS | 40 DFHZSLS entered |
| (92) | ..1. | | TCTV_RA_STALL | 20 All RAs stuck |
| (92) | ...1 | | TCTVSLR | 10 Shutdown LR CNOS in prog |
| (92) | 1... | | TCTVSHM | 08 Shutdown message issued |
| (92) |1.. | | TCTVSLG | 04 SETLOGON quiesce issued |
| (92) |1. | | TCTVSHU | 02 DFHZSHU control flag |
| (92) |1 | | TCTVNATF | 01 No attaches this dispatch |
| (93) | BIT(8) | 1 | TCTVSDST | Shutdown stage Shutdown Quiesce codes ... Move in stages from one to another as stage complete X'00' No shutdown, Etc... |
| (94) | BIT(8) | 1 | TCTVSCSW | Start up & close down switch |
| (94) | 1... | | TCTVDC | 80 TPEND exit invoked |
| (94) | .1.. | | TCTVDO | 40 DYNAMIC OPEN invoked |
| (94) | ..1. | | TCTVVSG | 20 VTAM TCTTEs generated |
| (94) | ...1 | | TCTVOA | 10 ACB open |
| (94) | 1... | | TCTVVFQ | 08 VTAM is quiesced |
| (94) |1.. | | TCTVVTHA | 04 VTAM ABENDED |
| (94) |1. | | TCTVVTHQ | 02 Quick VTAM close |
| (94) |1 | | TCTVVTHO | 01 Orderly VTAM close |
| TCTVVTQS EQU TCTVVTHO+TCTVVTHQ+TCTVVTHA VTAM quiescing. | | | | |
| (95) | BIT(8) | 1 | TCTVRESP | SYS + resp level used byte |
| (95) | 1... | | TCTVFC | 80 FORCECLOSE requested |
| (95) | .1.. | | TCTVAF | 40 ACB close failed |
| (95) | ..1. | | TCTVCIQ | 20 CICS INIT'D ZC CLOSE |
| (95) | ...1 | | * | 10 |
| (95) | 1... | | TCTVFME | 08 Use FME outbound |
| (95) |1.. | | TCTVRRN | 04 Use RRN outbound |
| (95) |1. | | TCTVISC | 02 ISC modules loaded |
| (95) |1 | | TCTVBFQ | 01 Non VTAM quiesce |
| (96) | BIT(8) | 1 | TCTVSQUE | System service queue controls |
| (96) | 1... | | TCTVNAC | 80 NACP already scheduled |
| (96) | .1.. | | * | 40 |
| (96) | ..1. | | TCTVVAP | 20 VTAM authorised path |

Table 564. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------|---------------------------------|
| (96) | ...1 | | TCTVVRZ | 10 RPL for ZDSP from ZHPRX |
| (96) | 1... | | TCTVXNP | 08 New work for NACP |
| (96) |1.. | | TCTVNSU | 04 DFHZNAC suspended |
| (96) |1. | | TCTVNOP | 02 OPDLIM NOT REQ. |
| (96) |1 | | * | 01 |
| (97) | BIT(8) | 1 | TCTVAPPL | Length of APPLID |
| (98) | CHARACTER | 8 | TCTVAPPN | VTAM APPLID |
| TCTV_TRACE_LEN End of prefix trace area | | | | |
| (A0) | ADDRESS | 4 | TCTVLUN | Address of VTAM LU name |
| (A4) | ADDRESS | 4 | TCTVIRCH | Address of first IRC TCSE |
| (A4) | ADDRESS | 4 | TCTV_MRO_HEAD | Alternative name for TCTVIRCH |
| (A8) | ADDRESS | 4 | TCTVSLUT | Address of LDC lookup-table |
| (AC) | CHARACTER | 3 | TCTVNQTI | TASKID with TCTI NAMESPACE lock |
| (AF) | BIT(8) | 1 | * | XRF bit |
| (AF) | 1... | | TCTVXBC | 80 DFHTCBP completed |
| (AF) | .1.. | | TCTVXRT | 40 CEMT P SHUT TAKEOVER |
| (AF) | ..1. | | TCTVXTS | 20 Terminal sw scan begun |
| (AF) | ...1 | | * | 10 |
| (AF) | 1... | | * | 08 |
| (AF) |1.. | | * | 04 |
| (AF) |1. | | * | 02 |
| (AF) |1 | | * | 01 |
| (B0) | HALFWORD | 2 | TCTVXSBC | No. STANDBY BOUND sessions |
| (B2) | CHARACTER | 2 | TCTVCUID | Current/last XRF catch up ID. |
| (B4) | ADDRESS | 4 | TCTVMGRP | Address of first mode entry |
| 3270 command constant area | | | | |
| (B8) | CHARACTER | 0 | * | Alignment |
| (B8) | BIT(8) | 1 | TCTV32EA | Erase unprotected '6F' |
| (B9) | BIT(8) | 1 | TCTV32RB | Read buffer 'F2' |
| (BA) | BIT(16) | 2 | TCTV32PT | Print 'F1F8' |
| (BC) | BIT(16) | 2 | TCTV32P4 | Print model one 'F1D8' |
| (BE) | HALFWORD | 2 | TCTVSLCT | LDC look-up count |
| (C0) | ADDRESS | 4 | TCTVTRTA | Address of translate tables |
| OS Console Support area | | | | |
| (C4) | ADDRESS | 4 | TCTVSECB | System communication ECB |

Table 564. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------|-----------|-----|---------------|---|
| (C8) | ADDRESS | 4 | TCTVCSCL | Cmnd scheduler commun. list |
| (CC) | ADDRESS | 4 | TCTVWLSE | Wait list entry |
| (D0) | ADDRESS | 4 | TCTVCCE | First Console Control Element |
| (D4) | ADDRESS | 4 | TCTVCTCT | First Console TCTTE |
| (D8) | ADDRESS | 4 | TCTVCDME | Dummy ECB |
| (DC) | ADDRESS | 4 | TCTVCWA | Console Work Area |
| (E0) | CHARACTER | 8 | TCTVJBNM | CICS system jobname |
| OS Console flags | | | | |
| (E8) | BIT(8) | 1 | TCTVCONF | Console flag byte |
| (E8) | 1... | | * | 80 |
| (E8) | .1.. | | * | 40 |
| (E8) | ..1. | | TCTV_CCE_TASK | 20 ZCNA task loop reqd. |
| (E8) | ...1 | | TCTV_CCE_ATI | 10 ZCNA ATI loop reqd. |
| (E8) | 1... | | TCTVCFQ | 08 Quiesce is COMPLETE |
| (E8) |1.. | | TCTVCSQ | 04 Quiesce IN PROGRESS |
| (E8) |1. | | TCTVCNE | 02 DFHZCNC is ACTIVE |
| (E8) |1 | | TCTVCAC | 01 Console abnormal condition |
| (E9) | CHARACTER | 3 | * | Reserved |
| END OF COMMON SECTION | | | | |
| (EC) | FULLWORD | 4 | TCTVSDXT | TC Shutdown, Threshold Expiration Time |
| (F0) | ADDRESS | 4 | TCTVRVRA | Addr of 'RVCE ANY' RPL pool |
| (F4) | ADDRESS | 4 | TCTVLNIB | Address of NIB list (INC IRC) |
| (F8) | ADDRESS | 4 | TCTVCNIB | Fixed NIB for LOGON X |
| (FC) | ADDRESS | 4 | TCTVACBA | Address of VTAM ACB/EXLST |
| (100) | ADDRESS | 4 | TCTVCRPL | CLSDST RPL for LOGON X |
| (104) | ADDRESS | 4 | TCTVSLDC | System default LDC table |
| (108) | ADDRESS | 4 | TCTVSLSS | SETLOGON START save area |
| (108) | ADDRESS | 4 | TCTVASRR | Save area for ACTIVATE SCAN |
| (10C) | ADDRESS | 4 | TCTVTCTE | End of TCT |
| Chain pointers for TCP | | | | |
| (110) | CHARACTER | 0 | * | Double word alignment VTAM Activate process chain |
| (110) | FULLWORD | 4 | TCTVAA1 | First entry |

Table 564. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------|-----------|-----|----------------------|--|
| (114) | FULLWORD | 4 | TCTVAA2 | Last entry VTAM Activate queueing chain |
| (118) | FULLWORD | 4 | TCTVAA3 | First entry |
| (11C) | FULLWORD | 4 | TCTVAA4 | Last entry LOGGING/ERROR queue chains |
| (120) | ADDRESS | 4 | TCTV_LU61_HEAD | LU61 system chain |
| (124) | ADDRESS | 4 | TCTV_REMDEL_HEAD | RemDel system chain |
| (128) | FULLWORD | 4 | TCTCATWE | Console autoinst WE |
| (12C) | FULLWORD | 4 | TCTZGINE | DFHZGIN RPL ELEMENTS |
| (130) | FULLWORD | 4 | TCTVSRQ | System error Q for NACP First on queue |
| (134) | FULLWORD | 4 | TCTVSRQE | System error queue for NACP Last on queue |
| (138) | FULLWORD | 4 | TCTVPOAC | Previous TCTTE on Act. chain |
| (13C) | FULLWORD | 4 | TCTVRPLA | RPL QUICK-CELL chain anchor First on free queue |
| (140) | UNSIGNED | 1 | TCTV_ZBLX_ERR_OFFSET | error offset in SCIP |
| (141) | CHARACTER | 7 | * | Reserved |
| VTAM control area pointers | | | | |
| (148) | ADDRESS | 4 | TCTVMNIB | Address of model NIBS |
| (14C) | ADDRESS | 4 | TCTVRPL2 | Address of RPL for VTAM 3270 |
| (150) | ADDRESS | 4 | TCTVRPLS | Address of RPL for RESETSR |
| (154) | ADDRESS | 4 | TCTVXQOA | Anchor for XRF TRACKINQ Q'S |
| (158) | HALFWORD | 2 | TCTVRPLN | RPL length |
| (15A) | HALFWORD | 2 | TCTVDOC | Dynamic open count |
| Process control switches | | | | |
| (15C) | UNSIGNED | 1 | TCTVSDWT | TC Shutdown Wait from SIT TCSWAIT |
| (15D) | BIT(8) | 1 | * | TC Shutdown Flag Byte |
| (15D) | 1... | | TCTVSDUB | 80 Action from SIT TCSACTN On = UNBIND Off = NONE or FORCE |
| (15D) | .1.. | | TCTVSDTFO | 40 Action from SIT TCSACTN On = FORCE Off = NONE or UNBIND |
| (15D) | ..1. | | TCTVSDTX | 20 Threshold Expired On = TC Shutdown end time expired (sessions hung) Off = TC Shutdown end time not expire |

Table 564. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------------|--|
| (15D) | ...1 | | TCTVSDTD | 10 Threshold Disabled On = TC Shutdown threshold disabled (no msgs produced) Off = TC Shutdown threshold enabled (msgs produced) |
| (15D) | 1... | | TCTVSDTD6 | 08 Threshold Disabled for LU62 and LU61 On = TC Shutdown threshold disabled (no msgs produced) Off = TC Shutdown threshold enabled (msgs produced) |
| (15D) |1.. | | TCTVSDTI | 04 Treshold Initiated On = TS Shutdown initiated and end time calculated Off = TC Shutdown not initiated, and no end time |
| (15D) |1. | | TCTVRAPLF | 02 On = RAPOOL FORCE |
| (15D) |1 | | TCTV_RA_2118_ISSUED | 01 On if RA STALL |
| (15E) | HALFWORD | 2 | TCTVRMAX | 'RCVE ANY' max size |
| (160) | HALFWORD | 2 | TCTVRMIN | 'RCVE ANY' min size |
| (162) | CHARACTER | 2 | TCTVRASW | 'RCVE ANY' stat work area PL2 |
| (164) | CHARACTER | 2 | TCTVRAHC | 'RCVE ANY' high water mark PL2 |
| (166) | CHARACTER | 2 | TCTVOCC | OPNDST/CLSDST reqt limit PL2 |
| (168) | CHARACTER | 4 | TCTVRANT | No. times high water hit PL4 |
| (16C) | FULLWORD | 4 | TCTVAPCC | Act. process chain DOS CCB |
| (16C) | FULLWORD | 4 | TCTVAPCE | VTAM Act. process chain ECB |
| (170) | CHARACTER | 128 | TCTVXRPL | RPL initialising mask area |
| VIO trace | | | | |
| (1F0) | UNSIGNED | 1 | TCTVIOBL | Max L2 VIO bufflst entries |
| (1F1) | UNSIGNED | 1 | TCTVIOL1 | Max lev 1 VIO data length |
| (1F2) | HALFWORD | 2 | TCTVIOL2 | Max lev 2 VIO data length |
| ECB to prevent ZGRP running before ZSLS during startup | | | | |
| (1F4) | UNSIGNED | 4 | TCTV_ZSLS_ECB | Make ZGRP run after ZSLS |
| Addresses for SRB exits | | | | |
| (1F8) | FULLWORD | 4 | TCTVZHPR | Lock field for ZHPRX |
| SRB mode 'RCVE ANY' counts | | | | |
| (1FC) | CHARACTER | 2 | TCTVRAVC | Current active RA RPL count |
| (1FE) | CHARACTER | 2 | TCTVRAVL | Limit of active SRB mode RA |

Table 564. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| TCTVRARP is the anchor address for a chain of RPLs. | | | | |
| (200) | FULLWORD | 4 | TCTVRARP | 'RCVE ANY' RPL Q for ZHPRX |
| (204) | FULLWORD | 4 | TCTVRINC | 'RCVE ANY' RPL CDS counter |
| AUTOINSTALL data | | | | |
| (208) | FULLWORD | 4 | TCTVMXWE | Limit of concurrent requests |
| (20C) | FULLWORD | 4 | TCTVACWE | Number currently active |
| (210) | ADDRESS | 4 | TCTVANWE | Address of first WE ON chain |
| (214) | BIT(8) | 1 | TCTVADFG | Flag Byte |
| (214) | 1... | | TCTVADEN | 80 external ENA \| DIS indicator |
| (214) | .1.. | | TCTVADIN | 40 internal ENA \| DIS indicator |
| (214) | ..1. | | TCTVADDF | 20 delayed delete failed |
| (214) | ...1 | | TCTVNONO | 10 CLSDST PASS no notify |
| (214) | 1... | | TCTVAIRU | 08 TCTTE can be reused (AILDELAY \neq 0) |
| (214) |1.. | | TCTVSLHI | 04 SETLOGON HOLD done |
| (214) |1. | | TCTVAITR | 02 Trace Autoinstall |
| (215) | CHARACTER | 8 | TCTVAXIT | User program name |
| (21D) | BIT(8) | 1 | TCTVAICN | Console autoinstall |
| (21D) | 1... | | TCTVAICE | 80 external ENA \| DIS |
| (21D) | .1.. | | TCTVAICA | 40 external AUTO |
| (21D) | ..1. | | TCTVAICY | 20 external YES \| NO |
| AUTOINSTALL Statistics information | | | | |
| (21E) | HALFWORD | 2 | TCTVADSH | Number of times max value reached |
| (220) | FULLWORD | 4 | TCTVADRJ | Number of requests rejected |
| (224) | FULLWORD | 4 | TCTVADLO | Number of delete's |
| (228) | HALFWORD | 2 | TCTVADAT | Total number of requests attempted |
| (22A) | HALFWORD | 2 | TCTVADPK | Peak concurrent requests |
| (22C) | HALFWORD | 2 | TCTVADPX | Incidence of peak requests |
| Fully Qualified LU Name | | | | |
| (22E) | BIT(8) | 1 | TCTVQLUL | Length of fully qualified LU name |
| (22F) | CHARACTER | 17 | TCTVQLUN | Fully qualified LU name |
| RSA for entry to TCP | | | | |
| (240) | CHARACTER | 72 | TCTVKRSA | Reg save area KCP to TCP |
| RSA for VTAM exit calls | | | | |

Table 564. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------------------------|
| (288) | FULLWORD | 4 | TCTVEVRA | Save area VTAM return address |
| (28C) | CHARACTER | 12 | TCTVERSA | RSA for VTAM exits |
| (298) | FULLWORD | 4 | TCTVER14 | Register 14 |
| (29C) | FULLWORD | 4 | TCTVER15 | Register 15 |
| (2A0) | FULLWORD | 4 | TCTVER0 | Register 0 |
| (2A4) | FULLWORD | 4 | TCTVER1 | Register 1 |
| (2A8) | FULLWORD | 4 | TCTVER2 | Register 2 |
| (2AC) | FULLWORD | 4 | TCTVER3 | Register 3 |
| (2B0) | FULLWORD | 4 | TCTVER4 | Register 4 |
| (2B4) | FULLWORD | 4 | TCTVER5 | Register 5 |
| (2B8) | FULLWORD | 4 | TCTVER6 | Register 6 |
| (2BC) | FULLWORD | 4 | TCTVER7 | Register 7 |
| (2C0) | FULLWORD | 4 | TCTVER8 | Register 8 |
| (2C4) | FULLWORD | 4 | TCTVER9 | Register 9 |
| (2C8) | FULLWORD | 4 | TCTVER10 | Register 10 |
| (2CC) | FULLWORD | 4 | TCTVER11 | Register 11 |
| (2D0) | FULLWORD | 4 | TCTVER12 | Register 12 |
| (2D4) | CHARACTER | 8 | TCTVWK1 | |
| (2DC) | CHARACTER | 80 | TCTVERS2 | RSA for SYNAD exit |
| (2DC) | CHARACTER | 12 | TCTVER2H | RSA for SYNAD exit |
| (2E8) | FULLWORD | 4 | TCTVER2E | Register 14 |
| (2EC) | FULLWORD | 4 | TCTVER2F | Register 15 |
| (2F0) | FULLWORD | 4 | TCTVER20 | Register 0 |
| (2F4) | FULLWORD | 4 | TCTVER21 | Register 1 |
| (2F8) | FULLWORD | 4 | TCTVER22 | Register 2 |
| (2FC) | FULLWORD | 4 | TCTVER23 | Register 3 |
| (300) | FULLWORD | 4 | TCTVER24 | Register 4 |
| (304) | FULLWORD | 4 | TCTVER25 | Register 5 |
| (308) | FULLWORD | 4 | TCTVER26 | Register 6 |
| (30C) | FULLWORD | 4 | TCTVER27 | Register 7 |
| (310) | FULLWORD | 4 | TCTVER28 | Register 8 |
| (314) | FULLWORD | 4 | TCTVER29 | Register 9 |
| (318) | FULLWORD | 4 | TCTVER2A | Register 10 |
| (31C) | FULLWORD | 4 | TCTVER2B | Register 11 |
| (320) | FULLWORD | 4 | TCTVER2C | Register 12 |
| (324) | CHARACTER | 1 | TCTVERS2_FLAG | Flag byte for RSA |
| (324) | 1111 111. | | * | Reserved |
| (324) |1 | | TCTVERS2_IN_USE | This RSA is in use. |
| (325) | CHARACTER | 7 | * | Reserved |

Table 564. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------|-----------|-----|------------|--------------------------------|
| RSA stack for TCP calls | | | | |
| (32C) | ADDRESS | 4 | TCTVRSAP | RSA pointer initial value |
| (330) | CHARACTER | 0 | * | Word alignment |
| (330) | HALFWORD | 2 | TCTVVMOF | Offset of self in assembly |
| (332) | HALFWORD | 2 | TCTVSUFx | TCT suffix |
| (334) | CHARACTER | 4 | * | Double word alignment |
| (338) | FULLWORD | 4 | TCTVRSPC | TCP call save stack start |
| (338) | FULLWORD | 4 | TCTVRSBA | Start address for RSA stack |
| (338) | FULLWORD | 4 | TCTVRSID | Optional stack entry trace ID |
| (33C) | FULLWORD | 4 | TCTVRSRG | Start of stack of saved regs. |
| (33C) | FULLWORD | 4 | TCTVRS14 | Register 14 |
| (340) | FULLWORD | 4 | TCTVRS15 | Register 15 |
| (344) | FULLWORD | 4 | TCTVRS0 | Register 0 |
| (348) | FULLWORD | 4 | TCTVRS1 | Register 1 |
| (34C) | FULLWORD | 4 | TCTVRS2 | Register 2 |
| (350) | FULLWORD | 4 | TCTVRS3 | Register 3 |
| (354) | FULLWORD | 4 | TCTVRS4 | Register 4 |
| (358) | FULLWORD | 4 | TCTVRS5 | Register 5 |
| (35C) | FULLWORD | 4 | TCTVRS6 | Register 6 |
| (360) | FULLWORD | 4 | TCTVRS7 | Register 7 |
| (364) | FULLWORD | 4 | TCTVRS8 | Register 8 |
| (368) | FULLWORD | 4 | TCTVRS9 | Register 9 |
| (36C) | FULLWORD | 4 | TCTVRS10 | Register 10 |
| (370) | CHARACTER | 24 | * | Reserved space for RSA |
| (388) | CHARACTER | 0 | TCTVRSEA | RSA stack entry ending address |

TCTVRSZ EQU (TCTVRSEA-TCTVRSBA) size of one save area = 80

Table 565.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------|-----------|-----|------------|--|
| (338) | STRUCTURE | 812 | * | |
| (338) | CHARACTER | 320 | * | 4 save areas for TCP calls |
| TC task ECBS | | | | |
| (478) | ADDRESS | 4 | TCTVINIT | TC initialisation TCA Address (posted by TCRP) |
| (47C) | ADDRESS | 4 | TCTVSTAT | |
| (47C) | ADDRESS | 4 | TCTVCECB | TC restart completion ECB |
| (480) | ADDRESS | 4 | TCTVOECB | TC open for business ECB |
| (480) | BIT(8) | 1 | * | |
| (480) | 1... | | * | |

Table 565. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------|-----------|-----|------------|---------------------------------|
| (480) | .1.. | | TCTVOPST | TC open for business post bit * |
| (484) | BIT(8) | 1 | TCTVRSTC | TC restart return code |
| (485) | CHARACTER | 1 | TCTVSTYP | TC restart start-type |
| (486) | HALFWORD | 2 | TCTVXREN | Current XRF reconn. try-number |
| (488) | UNSIGNED | 1 | TCTVSAPL | APPLID length |
| (489) | CHARACTER | 8 | TCTVSAPN | VTAM APPLID |
| (491) | BIT(8) | 1 | * | |
| (491) | 1... | | TCTVLSY | 80 Local system entry exists |
| (491) | .1.. | | TCTVRCC | 40 Reading CICS Catalog |
| (491) | ..1. | | TCTVALT | 20 TCRP was an alternate |
| (491) | ...1 | | TCTVUALC | 10 TCTUA ANY\|BELOW |
| (491) | 1... | | TCTVALTT | 08 Alternate tracking |
| (491) |1.. | | * | |
| (491) |1. | | * | |
| (491) |1 | | TCTVUAKY | 01 indicates CICS key |
| (492) | HALFWORD | 2 | TCTVXPLC | Pending S/B logons count |
| (494) | ADDRESS | 4 | TCTVXPLE | Pending S/B logons ECB |
| XRF Terminal cleanup statistics | | | | |
| (498) | HALFWORD | 2 | TCTVX001 | CLEANUP ACTION=NONE |
| (49A) | HALFWORD | 2 | TCTVX002 | CLEANUP ACTION=CLEAR/SDT |
| (49C) | HALFWORD | 2 | TCTVX003 | CLEANUP ACTION=UNBIND |
| (49E) | HALFWORD | 2 | TCTVX004 | Reserved |
| (4A0) | CHARACTER | 2 | TCTVXSLM | Switch CMD pacing limit(PL2) |
| (4A2) | CHARACTER | 2 | * | Reserved - alignment |
| (4A4) | ADDRESS | 4 | TCTVXTSE | Track stream started ECB |
| ZC storage management | | | | |
| (4A8) | ADDRESS | 4 | TCTVSUBP | Address of SUBPOOL token |
| VTAM exit trace | | | | |
| (4AC) | ADDRESS | 4 | TCTVTRF | Address of NETNAME chain |
| (4B0) | ADDRESS | 4 | TCTVTRV | Variable S/POOL TOKEN pointer |
| (4B4) | ADDRESS | 4 | TCTVTRXA | Trace entry build area ptr. A |
| (4B8) | ADDRESS | 4 | TCTVTRXB | Trace entry build area ptr. B |
| (4BC) | ADDRESS | 4 | TCTVTRXC | Trace entry build area ptr. C |
| (4C0) | ADDRESS | 4 | TCTVTRXD | Trace entry build area ptr. D |

Table 565. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------|---|
| (4C4) | ADDRESS | 4 | TCTVTRXE | Trace entry build area ptr. E * |
| (4C8) | FULLWORD | 4 | TCTVTRC | Terminal exit trace count |
| (4CC) | FULLWORD | 4 | TCTVRLCT | OPNDLIM count |
| (4D0) | BIT(8) | 1 | * | Exit trace flags |
| (4D0) | 1... | | TCTVTRA | 80 - All exits traced |
| (4D0) | .1.. | | TCTVTRX | 40 - Non term. exits traced |
| (4D0) | ..1. | | * | 20 - reserved |
| (4D0) | ...1 | | * | 10 - reserved |
| (4D0) | 1... | | * | 08 - reserved |
| (4D0) |1.. | | * | 04 - reserved |
| (4D0) |1. | | * | 02 - reserved |
| (4D0) |1 | | * | 01 - reserved |
| (4D1) | CHARACTER | 3 | * | Word Alignment |
| Postponed autoinstall logon fields | | | | |
| (4D4) | ADDRESS | 4 | TCTVAPWE | Postponed Autoinstall work element anchor |
| (4D8) | FULLWORD | 4 | TCTVADQC | Postponed Autoinstall work current count |
| (4DC) | FULLWORD | 4 | TCTVADQT | Total number of postponed logons |
| (4E0) | HALFWORD | 2 | TCTVADQK | Peak concurrent postponed logons |
| (4E2) | HALFWORD | 2 | TCTVADQX | Incidence of postponed peak logons |
| Schedule Restart Delete fields | | | | |
| (4E4) | UNSIGNED | 4 | TCTVAECB | Schedule restart delete ECB |
| (4E8) | FULLWORD | 4 | TCTVASDC | Schedule restart delete count |
| Early ZC SUBPOOL TOKENS for Subpools added before TCRP | | | | |
| (4EC) | CHARACTER | 8 | TCTVTOKR | RAIA subpool token |
| Additional BITMAPs | | | | |
| (4F4) | CHARACTER | 4 | * | Reserved |
| (4F8) | ADDRESS | 4 | TCTV_MRO2_BITMAP | 2nd MRO name set |
| (4FC) | ADDRESS | 4 | TCTV_APPC2_BITMAP | 2nd LU62 name set |
| RPL completion queue anchor. | | | | |
| (500) | FULLWORD | 4 | TCTVRPLQ | Q of RPLs for DSP from ZHPRX |
| (504) | FULLWORD | 4 | TCTVRPLC | Q of RPLs for DSP CDS counter |
| Persistent Sessions fields | | | | |
| (508) | BIT(8) | 1 | TCTVPRB1 | Flags for Per. Sess. use |

Table 565. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------------|-----------|-----|------------------------------|--|
| (508) | 1... | | TCTV_PRSS_AVAILABLE | VTAM support available for persistent sessions |
| (508) | .1.. | | TCTV_PRSS_SUBSET | VTAM 3.4.0 is in use |
| (508) | ..1. | | TCTV_PRSS_PRED_ TAKEOVER | Predatory takeover |
| (508) | ...1 | | TCTV_PRSS_PRED_ VICTIM | Current takeover victim |
| (508) | 1... | | TCTV_PRSS_VTAM_ABEND | VTAM abend occurred |
| (508) |1.. | | TCTV_PSTYPE_OFF | PSTYPE=NOPS specified |
| (508) |1. | | TCTV_PSTYPE_MNPS | PSTYPE=MNPS = on PSTYPE=SNPS = off |
| (509) | UNSIGNED | 1 | TCTVPRB2 | Byte 2 of Per. Sess flags |
| (509) | 1... | | TCTV_ZGRP_FAILED | SI11 notify SIJ1 of fail |
| (509) | .1.. | | TCTV_RA_DONE | RA initiation done |
| (50A) | UNSIGNED | 1 | TCTVPRB3 | Byte 3 of Per. Sess flags |
| (50B) | UNSIGNED | 1 | TCTVPRB4 | Byte 4 of Per. Sess flags |
| Persistent sessions related fields | | | | |
| (50C) | FULLWORD | 4 | TCTV_PRSS_CHUNK | Per. Sess. NIBLIST size |
| (510) | FULLWORD | 4 | TCTV_PRSS_INQUIRE_ THRESHOLD | NIBs for CO TCB |
| (514) | FULLWORD | 4 | TCTV_PRSS_UNBIND_ THRESHOLD | NIBS FOR ZGUB CO |
| (518) | BIT(64) | 8 | TCTV_ZCNIBLST_TOKEN | Subpool token - Per. Sess. |
| (520) | FULLWORD | 4 | TCTV_ZGRP_FIN_ECB | ZGRP finished |
| (524) | FULLWORD | 4 | TCTV_PSDI | PSDI value in seconds |
| (528) | ADDRESS | 4 | TCTV_PRSS_RPL_POOL_ PTR | RPL Pool for Per. Sess. |
| (52C) | ADDRESS | 4 | TCTV_PRSS_UNBIND_ RPLS_PTR | RPL pool within above |
| (530) | ADDRESS | 4 | TCTV_FIRST_NIBLIST_ PTR | First NIBLIST in chain |
| (534) | ADDRESS | 4 | TCTV_PRSS_LNKTABLE_ PTR | Per. Sessions LINK table |
| Persistent sessions statistics fields | | | | |
| (538) | FULLWORD | 4 | TCTV_PRSS_NIB_COUNT | Per. Sessions NIB cnt |
| (53C) | FULLWORD | 4 | TCTV_PRSS_INQUIRE_ COUNT | Per. Session INQUIRES issued. |
| (540) | FULLWORD | 4 | TCTV_PRSS_OPNDST_ COUNT | Per. Sessions OPNDSTed |
| (544) | FULLWORD | 4 | TCTV_PRSS_UNBIND_ COUNT | Per. Sessions unbound |
| (548) | FULLWORD | 4 | TCTV_PRSS_ERROR_COUNT | Per. Sessions clsd ext |
| (54C) | ADDRESS | 4 | TCTV_NIB_EXLST_PTR | TCTV3600 pointer |
| RA Stall dispatcher count | | | | |
| (550) | FULLWORD | 4 | TCTV_RA_STALL_COUNT | TCP dsps with stall |
| Entry Point addresses | | | | |
| (554) | ADDRESS | 4 | TCTV_ZGTI | DFHZGTI entry point |
| (558) | ADDRESS | 4 | TCTV_ZGTA | DFHZGTA entry point |
| (55C) | ADDRESS | 4 | TCTV_ZGCH | DFHZGCH entry point |

Table 565. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------------|---------------------------|
| (560) | ADDRESS | 4 | TCTV_ZGIN | DFHZGIN entry point |
| (564) | ADDRESS | 4 | TCTV_ZCN2 | DFHZCN2 entry point |
| (568) | ADDRESS | 4 | * | DFHZGxx entry point |
| More session name bitmap addresses | | | | |
| (56C) | ADDRESS | 4 | TCTV_IS_BITMAP1 | IS sessions bitmap 1 |
| (570) | ADDRESS | 4 | TCTV_IS_BITMAP2 | IS sessions bitmap 2 |
| ZLGX work area | | | | |
| (574) | CHARACTER | 8 | TCTV_ZLGX_SLUNAME | SLU/member name |
| (57C) | ADDRESS | 4 | TCTV_ZLGX_TOKEN | Nibsrch token |
| Saved UDSS03 for ZLGX/ZSCX | | | | |
| (580) | CHARACTER | 8 | TCTV_SAVE_GRNAME | Saved GR name |
| More session name bitmap addresses | | | | |
| (588) | ADDRESS | 4 | TCTV_RT_BITMAP | Remote Terminal names |
| (58C) | ADDRESS | 4 | TCTV_VIRTTERM_BITMAP | CICS Client term names |
| (590) | ADDRESS | 4 | TCTV_BRIDGE_BITMAP | Local BR facilities |
| (594) | ADDRESS | 4 | TCTV_CONS_BITMAP | Console names |
| (598) | ADDRESS | 4 | TCTV_ZC_ENQ_POOL_TOKEN | ZC ENQ Pool Token |
| (59C) | ADDRESS | 4 | TCTV_BRIDGE2_BITMAP | Shared BR facilities |
| (5A0) | BIT(8) | 1 | TCTV_GRQL | Fully qual. GR name lngth |
| (5A1) | CHARACTER | 17 | TCTV_GRQN | Fully qualified GR name |
| (5B2) | CHARACTER | 8 | TCTV_GENRNAME | Generic resource name |
| (5BA) | BIT(8) | 1 | TCTV_GRSTATUS | Generic resource status |
| (5BB) | CHARACTER | 1 | * | Reserved |
| (5BC) | ADDRESS | 4 | TCTV_ZGXA | DFHZGXA entry point |
| (5C0) | ADDRESS | 4 | TCTV_ZGPR | DFHZGPR entry point |
| Terminal Timeout (CESC) Static Storage Area | | | | |
| (5C4) | CHARACTER | 8 | TCTV_CESC_TIME | Time at which CESC runs |
| (5CC) | UNSIGNED | 1 | TCTV_CESC_FUNCTION | Func code passed to CESC |
| (5CD) | BIT(8) | 1 | TCTV_CESC_FLAGS | CESC flags |
| (5CD) | 1... | | TCTV_CESC_SCHEDULED | CESC is scheduled |
| (5CD) | .111 1111 | | * | Reserved |
| (5CE) | UNSIGNED | 2 | * | Reserved |
| Entry point addresses for ZC domain subroutines | | | | |
| (5D0) | ADDRESS | 4 | * | DFHZGxx entry point |
| (5D4) | ADDRESS | 4 | TCTV_ZGRP | DFHZGRP entry point |
| (5D8) | ADDRESS | 4 | TCTV_ZGSL | DFHZGSL entry point |
| (5DC) | ADDRESS | 4 | TCTV_ZGUB | DFHZGUB entry point |
| (5E0) | ADDRESS | 4 | TCTV_ZGCC | DFHZGCC entry point |
| (5E4) | ADDRESS | 4 | TCTV_ZGPC | DFHZGPC entry point |
| (5E8) | ADDRESS | 4 | TCTV_ZGDA | DFHZGDA entry point |

Table 565. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------------|---|
| (5EC) | ADDRESS | 4 | TCTV_ZGCN | DFHZGCN entry point |
| (5F0) | ADDRESS | 4 | TCTV_ZGCA | DFHZGCA entry point |
| (5F4) | ADDRESS | 4 | TCTV_ZGAI | DFHZGAI entry point |
| VTAM Statistics. | | | | |
| (5F8) | FULLWORD | 4 | TCTLUNUM | Current no of LUs |
| (5FC) | FULLWORD | 4 | TCTLUHWM | HWM no of LUs |
| Prefix fields for Remote delete timeout mechanism. | | | | |
| (600) | FULLWORD | 4 | TCTV_IDLE_COUNT | Total reuse count |
| (604) | CHARACTER | 8 | TCTV_MAXIMUM_IDLETIME | Max skeleton idle time |
| (60C) | CHARACTER | 8 | TCTV_TOTAL_IDLETIME | Max total idle time |
| (614) | FULLWORD | 4 | TCTV_REMDINT | Shipped delete interval |
| (618) | FULLWORD | 4 | TCTV_REMDIDLE | Shipped delete idle time |
| (61C) | FULLWORD | 4 | TCTV_SKELETONS_BUILT | # of skeletons built |
| (620) | FULLWORD | 4 | TCTV_SKELETONS_CURRENT | # of skeletons installed |
| (624) | FULLWORD | 4 | TCTV_SKELETONS_DELETED | # deleted |
| (628) | FULLWORD | 4 | TCTV_FLAG_DELETES | # times CRMF called |
| (62C) | FULLWORD | 4 | TCTV_REMDELS_IN | Remote deletes in |
| (630) | FULLWORD | 4 | TCTV_REMDELS_OUT | Remote deletes out |
| (634) | FULLWORD | 4 | TCTV_REMDEL_DELETES | Remote deletes out |
| PS signon retention storage | | | | |
| (638) | CHARACTER | 8 | TCTV_PSTIM | Time of system failure |
| (640) | CHARACTER | 8 | TCTV_PSTOKEN | Saved timer token |
| (648) | BIT(8) | 1 | TCTV_PSSIGN_FLGS | PS signon retention flags |
| (648) | 1... | | TCTV_CATLG_ON_SHUTDOWN | Catalog on shutdown when PSDI = 0 |
| (648) | .1.. | | TCTV_CATLG_NOT_NEEDED | Don't catalog on shutdown when PSDI > 0 |
| (649) | CHARACTER | 3 | * | Reserved |
| Further DFHZLGX work areas | | | | |
| (64C) | FULLWORD | 4 | TCTV_ZLGX_TNADDR_LENGTH | Used during autoinstall |
| (650) | ADDRESS | 4 | TCTV_ZLGX_CV64_PTR | Used during autoinstall |
| (654) | CHARACTER | 8 | TCTV_ZLGX_WORK1 | For CVD of TNADDR |
| (65C) | CHARACTER | 8 | TCTV_ZLGX_WORK2 | For EDMK of TNADDR |
| (664) | CHARACTER | 0 | TCTPFXLN | Length of TCT PREFIX |

Constants

Table 566.

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|-------------------------------|
| 1 | HEX | 70 | TCTVLMPE | LMPEO + BUFLST + USERRH flags |

Table 566. (continued)

| Len | Type | Value | Name | Description |
|-------------------------------------|---------|-------|--------------------------|--|
| 1 | HEX | 00 | TCTVSDNO | No shutdown in progress |
| 1 | HEX | 01 | TCTVSDOP | Operator terminal Quiesce |
| 1 | HEX | 02 | TCTVSDAI | ATI operator terminal quiesce |
| 1 | HEX | 03 | TCTVSDIS | Inter system quiesce |
| 1 | HEX | 04 | TCTVSDMT | Master terminal quiesce |
| 1 | HEX | 05 | TCTVSDFN | Final quiesce all terminals |
| 1 | HEX | 40 | TCTVECBC | ECB posted complete |
| 1 | HEX | 80 | TCTVCCBC | CCB posted complete |
| 1 | DECIMAL | 4 | TCTVRSAN | Number of save area stacks |
| 1 | HEX | 40 | TCTVCPST | TC restart complete post bit |
| 1 | DECIMAL | 11 | TCTV_RPL_NUMBER | Number of RPLs in Pers. Sessions pool CESC Function Codes... |
| 1 | DECIMAL | 1 | TCTV_CESC_TERM_TIMEOUT | |
| | | | | Terminal |
| 1 | DECIMAL | 2 | TCTV_CESC_XRF_TIMEOUT | |
| | | | | XRF |
| 1 | DECIMAL | 3 | TCTV_CESC_ENABLE_TIMEOUT | |
| | | | | Enable |
| Generic resource status codes | | | | |
| 1 | HEX | 80 | TCTV_GR_REGD | |
| Registered as VTAM generic resource | | | | |
| 1 | HEX | 40 | TCTV_GR_REGERR | |
| Attempt to register failed | | | | |
| 1 | HEX | 20 | TCTV_GR_NOTAVAIL | |
| Function not supported | | | | |
| 1 | HEX | 08 | TCTV_GR_DEREGD | |
| Successfully deregistered from VTAM | | | | |
| 1 | HEX | 04 | TCTV_GR_DEREGERR | |
| Attempt to deregister failed | | | | |
| 1 | HEX | 02 | TCTV_GR_NOTAPPL | |
| Facility not required | | | | |
| 1 | HEX | 00 | TCTV_GR_NOTREG | |

TCTLE - Terminal control table line entry

CONTROL BLOCK NAME = DFHTCTL5
 DESCRIPTIVE NAME = CICS TS Terminal Control Table Line Entry.
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
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FUNCTION = May be used by the Master Terminal module DFHEIQMT
instead of DFHTCTLE.

LIFETIME =

STORAGE CLASS =

LOCATION =

INNER CONTROL BLOCKS =

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

DATA AREAS =

CONTROL BLOCKS =

GLOBAL VARIABLES (Macro pass) =

Table 567.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 16 | DFHTCTLE | |
| (0) | CHARACTER | 4 | TCTLEECB | event control block |
| (4) | CHARACTER | 2 | TCTLETOP | type of operation |
| (6) | UNSIGNED | 2 | TCTLEIOL | input / output data length |
| (8) | ADDRESS | 4 | TCTLEDCB | data control block address |
| (8) | ADDRESS | 4 | TCTLEDTF | D T F address |
| (C) | ADDRESS | 4 | TCTLEIOA | input / output area address |
| (10) | CHARACTER | 0 | * | BSAM OVERLAY |
| (10) | ADDRESS | 4 | TCTLEIOB | input/output block address |
| (14) | ADDRESS | 4 | TCTLESID | BSAM input DCB address |
| (18) | ADDRESS | 4 | TCTLESOD | BSAM output DCB address |
| (10) | CHARACTER | 0 | * | GAM OVERLAY |
| (10) | CHARACTER | 1 | TCTLEEGC | length error or read error code |
| (11) | CHARACTER | 1 | * | |
| (12) | CHARACTER | 2 | TCTLEGRC | residual count if length error |
| (14) | UNSIGNED | 4 | TCTLELGC | input / output data length |
| (18) | CHARACTER | 4 | * | |
| (1C) | UNSIGNED | 1 | TCTLEDGC | index to DEB table addr ptr |
| (1D) | CHARACTER | 1 | TCTLEGLR | lock option request |
| (1E) | CHARACTER | 2 | * | |
| (10) | CHARACTER | 0 | * | TCAM OVERLAY |
| (10) | CHARACTER | 4 | * | |
| (14) | ADDRESS | 4 | TCTLEOQ | output TCTLE address |
| (18) | CHARACTER | 1 | TCTLEFL | TCAM flags |
| (18) | 1... | | TCTLEFL1 | POOL=YES specified |
| (18) | .1.. | | TCTLESNA | TCAM SNA |
| (18) | ..1. | | TCTLEFL3 | reserved |
| (18) | ...1 | | TCTLEFL4 | reserved |

Table 567. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (18) | 1... | | TCTLEFL5 | deact queue |
| (19) | CHARACTER | 1 | * | |
| (10) | CHARACTER | 0 | * | BTAM OVERLAY |
| (10) | CHARACTER | 1 | TCTLESM1 | remote status message byte one |
| (11) | CHARACTER | 1 | TCTLESM2 | remote status message byte two |
| (12) | UNSIGNED | 2 | TCTLETRC | residual count |
| (14) | CHARACTER | 1 | TCTLECC | command code |
| (15) | CHARACTER | 3 | TCTLETLA | terminal list address |
| (18) | CHARACTER | 1 | TCTLESF | status flags |
| (19) | CHARACTER | 1 | TCTLERLN | relative line number |
| (1A) | CHARACTER | 1 | TCTLERSP | response to addressing |
| (1B) | CHARACTER | 1 | TCTLELRC | response to VRC / LRC |
| (1C) | CHARACTER | 1 | TCTLETPO | TP - OP code |
| (1D) | CHARACTER | 1 | TCTLEES | error status |
| (1E) | CHARACTER | 2 | TCTLECSW | CSW status |
| (20) | ADDRESS | 4 | TCTLEALP | current addressing list pointer |
| (24) | CHARACTER | 3 | * | reserved |
| (27) | CHARACTER | 1 | TCTLELRL | local terminal index |
| (28) | CHARACTER | 2 | * | reserved |
| (2A) | UNSIGNED | 2 | TCTLEOL | output length |
| (2C) | CHARACTER | 4 | TCTLEOA | ouput area |
| (30) | BIT(8) | 1 | TCTLESI | line status indicator |
| (30) | 1... | | TCTLESEP | error pending indicator |
| (30) | .1.. | | TCTLESAK | dial line acknowledgement |
| (30) | ..1. | | TCTLESPO | line perm out of service |
| (30) | ...1 | | TCTLESIR | interruptable read initiated |
| (30) | 1... | | TCTLESLC | switched line connected |
| (30) |1.. | | TCTLESTR | terminal read initiated |
| (30) |1. | | TCTLES LI | line initiated |
| (30) |1 | | TCTLESOS | line out of service |
| (31) | BIT(8) | 1 | TCTLEMI | multiple indicator byte |
| (31) | 1... | | TCTLELPI | last line in pool indicator |
| (31) | .1.. | | TCTLEMWL | wrap list indicator |
| (31) | ..1. | | TCTLETCM | access method is TCAM |
| (31) | ...1 | | TCTLEMFP | first pool line indicator |
| (31) | 1... | | TCTLEMET | error task initiated indicator |
| (31) |1.. | | TCTLEATA | telecommunication access method |

Table 567. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---------------------------------|
| (31) |1. | | TCTLEAGA | local line |
| (31) |1 | | TCTLEASA | sequential access method |
| (32) | UNSIGNED | 2 | TCTLEAL | input data area length |
| (34) | ADDRESS | 4 | TCTLEREA | input area address retention |
| (38) | CHARACTER | 4 | TCTLENP | number of polls issued |
| (3C) | UNSIGNED | 4 | TCTLEBC | bypass control counter |
| (40) | ADDRESS | 4 | TCTLEPLA | polling list address |
| (40) | BIT(8) | 1 | TCTLELF | line features |
| (40) | 1... | | TCTLEFLO | read lock |
| (40) | .1.. | | TCTLEFWL | wrap list feature |
| (40) | ..1. | | TCTLEFSC | station control feature |
| (40) | ...1 | | TCTLEFCK | checking feature |
| (40) | 1... | | TCTLEFBR | buffer receive feature |
| (40) |1.. | | TCTLEFAP | auto poll feature |
| (40) |1. | | TCTLEFAC | auto call feature |
| (40) |1 | | TCTLEFAA | auto answer feature |
| (44) | ADDRESS | 4 | TCTLETEA | active term table entry address |
| (48) | BIT(8) | 1 | * | |
| (48) | 1... | | * | |
| (48) | .1.. | | TCTLEPUI | purging data request indicator |
| (48) | ..1. | | TCTLEDP2 | term already connected purge |
| (48) | ...1 | | TCTLEDP1 | term out of service purge |
| TCTLEDP1+TCTLEDP2 = TCTLEDP3 ... term in nopoll status purge | | | | |
| (48) | 1111 | | * | |
| (49) | BIT(8) | 1 | TCTLECL | Line Class |
| (49) | 1... | | TCTLELS | line scan indicator |
| (49) | .11. | | * | |
| (49) | ...1 | | TCTLECBS | bisynchronous |
| (49) | 1111 | | * | |
| (4A) | CHARACTER | 2 | TCTLELE | number of transmission errors |
| (4C) | ADDRESS | 4 | TCTLEECA | line error chain address |
| (50) | UNSIGNED | 1 | TCTLELEC | line error count |
| (51) | CHARACTER | 3 | TCTLEPP | previous polling list pointer |
| (54) | ADDRESS | 4 | TCTLEPA | terminal pool address |
| (54) | ADDRESS | 4 | TCTLEEA | Line Entry ending address |
| (58) | ADDRESS | 4 | TCTLEETE | error terminal entry pointer |
| (5C) | CHARACTER | 8 | TCTLEBAA | bi-sync auxiliary area |

Table 567. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------|
| (64) | CHARACTER | 2 | TCTLEBRA | bi-sync response I/O area |
| (66) | CHARACTER | 1 | TCTLEBTO | last bi-sync type of operation |
| (67) | BIT(8) | 1 | TCTLEBEI | bi-sync event indicators |
| (68) | BIT(8) | 1 | TCTLESBI | BSC line status |
| (69) | BIT(8) | 1 | TCTLEIBS | index byte savearea |
| (6A) | BIT(8) | 1 | TCTLERPS | rotational poll savearea |
| (6B) | BIT(8) | 1 | * | indicator byte |
| (6B) | 11.. | | * | |
| (6B) | ..1. | | TCTLEMLU | line in use mask |
| (6B) | ...1 1111 | | * | reserved |
| (6C) | UNSIGNED | 2 | TCTLESWL | 3270 segment size |
| (6E) | CHARACTER | 2 | * | reserved |

TCTTE - TCT terminal entry

Table 568.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|-------------------------------|
| (0) | STRUCTURE | 313 | DFHTCTTE | Dummy Section |
| TERMINAL DATA CONTROL INFORMATION This area (from TCTE_TRACE_1 to TCTE_TRACE_1_LEN) is traced | | | | |
| (0) | CHARACTER | 24 | TCTE_TRACE_1 | TCTTE trace area 1 |
| (0) | CHARACTER | 4 | TCTTETI | Terminal name |
| TERMINAL TYPE CODES | | | | |
| (4) | CHARACTER | 1 | TCTTETT | Terminal Type - see constants |
| (5) | CHARACTER | 1 | TCTTETM | Terminal model number |
| (6) | BIT(8) | 1 | * | Reserved |
| TERMINAL STATUS CODES | | | | |
| (7) | CHARACTER | 1 | TCTTETS | Terminal status |
| (7) | 1... | | TCTTEATP | Dummy TCTTE for APT |
| (7) | ..1. | | TCTTESRO | READ only |
| (7) | ..1. | | TCTTESPO | Permanent OUT OF SERVICE |
| (7) | ...1 | | TCTTESQC | Terminal QUIESCING |
| (7) | 1... | | TCTTESNP | RECEIVE only |
| (7) |1.. | | TCTTESAT | AUTO TRANSACTION initiate |
| (7) |1. | | TCTTESTA | Terminal ATTENDED |
| (7) |1 | | TCTTESOS | OUT OF SERVICE |
| OPERATION DATA | | | | |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (8) | ADDRESS | 4 | TCTTESC | Address of first TIOA for any one task |
| (C) | ADDRESS | 4 | TCTTEDA | Address of TIOA |
| (10) | ADDRESS | 4 | TCTTECA | Address of TCA using this terminal, else 0 if no TCA is currently available |
| (14) | CHARACTER | 4 | TCTE_TRANNUM | Trannum of transaction running with this term facility |
| TCTE_TRACE_1_LEN End of TCTTE trace area 1 | | | | |
| (18) | ADDRESS | 4 | TCTTECIA | Address of USER AREA |
| (1C) | BIT(8) | 1 | TCTTECIL | Length of USER AREA |
| (1D) | BIT(8) | 1 | * | Storage allocation |
| (1D) | 1... | | TCTTEPCR | PASSBOOK present on read |
| (1D) | 1... | | TCTTERMC | WRITE resend message |
| (1D) | .1.. | | TCTTEPCW | PASSBOOK present on WRITE |
| (1D) | .1.. | | TCTTERMS | Re-send message scheduled |
| (1D) | ..1. | | TCTTERMI | Re-send message control |
| (1D) | ..1. | | TCTTERMT | Re-send message transparent |
| (1D) | ...1 | | TCTTERMQ | Re-send message queued |
| (1D) | ...1 | | TCTTEOD | End of DATASET |
| (1D) | 1... | | TCTEMOPU | Unattended mode |
| (1D) |1.. | | TCTTEOFC | End of file |
| (1D) |1. | | TCTRO2 | WRITE break occurred |
| (1D) |1 | | TCTRO1 | READ attention occurred |
| (1E) | CHARACTER | 1 | * | Reserved |
| (1F) | BIT(8) | 1 | * | Reserved |
| (20) | ADDRESS | 4 | TCTTERVT | Address |
| (20) | FULLWORD | 4 | TCTTEDES | TCAM destination name |
| (24) | CHARACTER | 1 | TCTTERC | (Packed decimal) |
| (24) | CHARACTER | 1 | TCTTETCM | TCAM OPTCD flag |
| OPERATOR DATA CONTROL INFORMATION | | | | |
| (25) | CHARACTER | 3 | TCTTEOI | Operator identification |
| (28) | CHARACTER | 3 | TCTTENLI | National Language in use |
| (2B) | UNSIGNED | 1 | TCTTEOP | Operator priority |
| VTAM FMH BUILD AREA | | | | |
| (2C) | CHARACTER | 2 | TCTEFMH1 | FMH area for 3600 DEVICES |
| (2C) | BIT(8) | 1 | TCTEVTC | Type code name definition |
| (2C) | 1111 | | TCTEVTCT | Logical device code |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (2C) | 1... | | * | |
| (2C) |1.. | | TCTEOFP | OUTPUT format PARM present |
| (2C) |1. | | TCTEIFP | INPUT format PARM present |
| (2C) |1 | | TCTEFPP | FORMS parameter present type code STRG ALLOC |
| (2D) | BIT(8) | 1 | * | |
| (2D) | BIT(8) | 1 | TCTEVLDC | Logical device code |
| DATA STREAM TYPE | | | | |
| (2E) | BIT(8) | 1 | TCTETDST | DATA STREAM type byte |
| (2E) | 1... | | TCTESCSB | SCS basic DATASTREAM indicator (GRAPHICS + NL) |
| (2E) | .1.. | | * | |
| (2E) | ..1. | | * | |
| (2E) | ...1 | | * | |
| (2E) | 1... | | TCTEAIDP | AID present in TCTTE |
| (2E) |1.. | | TCTEASC7 | ASCII-7 indicator |
| (2E) |1. | | TCTEASC8 | ASCII-8 indicator |
| (2E) |1 | | TCTETTSI | 3270 DATA STREAM indicator |
| SESSION CHARACTERISTICS CONTINUED | | | | |
| (2F) | CHARACTER | 1 | TCTEILUC | LUC SESSION indicator |
| (2F) | BIT(8) | 1 | TCTESEST | TCTTE SESSION status |
| (2F) | 1... | | TCTESLGI | 1=CICS SIMLOGON OK (INTLOG) 0=CICS SIMLOG not allowed (NO INTLOG) |
| (2F) | .1.. | | TCTESLGT | Remember INTLOG value |
| (2F) | ..1. | | TCTEACT | This is an APPC terminal |
| (2F) | ...1 | | TCTESOPR | Operative |
| (2F) | 1... | | TCTELUC | This is an LUC expression |
| (2F) |1.. | | TCTEFPX | FAST PATH XFORMER in use |
| (2F) |1. | | TCTEFCTK | FC Token allowed |
| (2F) |1 | | TCTE_CLONE | APPC clone |
| TERMINAL DEPENDENT OVERLAY AREA The following field is overlaid by: TCTE3270 : 3270 Definitions TCTE2980 : 2980 Definitions TCTE3600 : 3600 Binary Synchronous Definitions TCTE0S : OS Console Support | | | | |
| (30) | CHARACTER | 12 | TCTTETDO | |
| 3270 DEFINITIONS Terminal Dependent Overlay | | | | |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|----------------|-----|------------|----------------------------|
| (30) | CHARACTER | 12 | TCTE3270 | 3270 definitions |
| (30) | HALFWORD | 2 | TCTTECAD | CURSOR address of BINARY |
| (32) | BIT(8) | 1 | TCTTEAID | ATTENTION identifier |
| (33) | BIT(8) | 1 | TCTTEFIB | Terminal feature flag byte |
| (33) | 1... | | TCTTEFSP | SELECTOR PEN |
| (33) | .1.. | | TCTTELPR | LOCAL PRINT function |
| (33) | ..1. | | TCTTEFDK | DUAL case keyboard |
| (33) | ...1 | | TCTTEFTU | UPPER case TRANSLATE |
| (33) | 1... | | TCTTEFCV | COPY valid |
| (33) |1.. | | TCTTEFAA | AUDIBLE ALARM |
| (33) |1. | | TCTTEFP7 | Print eligible printer |
| (33) |1 | | TCTTEFPA | Model 3 printer adapter |
| (34) | CHARACTER | 8 | TCTTELUN | LUNAME in CLSDST PASS |
| (34) | UNSIGNED | 1 | TCTEDMYE | dummy overlay - error cde |
| (35) | CHARACTER | 5 | TCTEDMMN | dummy overlay - mod name |
| (3A) | UNSIGNED | 1 | TCTEDMGC | dummy overlay - getmn rc |
| (3B) | CHARACTER | 1 | * | dummy overlay - reserved |
| 2980 DEFINITIONS Terminal Dependent Overlay | | | | |
| (30) | CHARACTER | 5 | TCTE2980 | 2980 definitions |
| (30) | BIT(8) | 1 | * | Reserved |
| (31) | BIT(8) | 1 | * | Reserved |
| (32) | BIT(8) | 1 | TCTTESID | 2980 station ID |
| (33) | BIT(8) | 1 | TCTTETAB | 2980 TAB factor |
| (34) | BIT(8) | 1 | TCTTETID | 2980 Model 4 TELLER ID |
| 3600 BINARY SYNCHRONOUS DEFINITIONS Terminal Dependent Overlay | | | | |
| (30) | CHARACTER | 12 | TCTE3600 | 3600 definitions |
| (30) | CHARACTER | 8 | * | Reserved |
| (38) | BIT(8) | 1 | TCTTEDLM | End of input delimiter |
| (39) | CHARACTER | 3 | * | |
| OS CONSOLE SUPPORT Terminal Dependent Overlay | | | | |
| (30) | CHARACTER | 12 | TCTEOS | OS definitions |
| (30) | ADDRESS | 4 | TCTTECCE | Console control element |
| (30) | 1... | | TCTTEPL | Error console |
| (30) | BIT(31) POS(2) | 4 | * | Reserved |
| (34) | FULLWORD | 4 | TCTTEMID | message identification |
| (38) | FULLWORD | 4 | TCTTECNI | Console identification |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------|--|
| VTAM DEFINITIONS | | | | |
| (3C) | CHARACTER | 0 | TCTTEVDA | Area |
| (3C) | CHARACTER | 4 | TCTESIDI | Data |
| (40) | CHARACTER | 4 | TCTESIDO | Data |
| (44) | CHARACTER | 3 | TCTTECRE | Extension |
| NOTE: X'80' is restricted because of arithmetic manipulations in COBOL | | | | |
| (44) | BIT(8) | 1 | TCTEUSE1 | Byte storage allocation |
| (44) | 1... | | * | restricted due to COBOL arith |
| (44) | .1.. | | TCTEFMH | FMH received test mask |
| (44) | ..1. | | TCTEEOC | EOC, OC received test mask |
| (44) | ...1 | | TCTEASE | SESSION Error notified |
| (44) | 1... | | TCTESIG | SIGNAL received test mask |
| (44) |1.. | | TCTEUFRT | Free the TCTTE(EB received) |
| (44) |1. | | TCTEUCOM | User should SYNC POINT now |
| (44) |1 | | TCTERCDI | REQCD condition |
| (45) | BIT(8) | 1 | * | |
| (46) | BIT(8) | 1 | TCTETXTF | 3270 TEXT feature flag byte |
| (46) | 1... | | TCTE327E | 3270 Extended range |
| (46) | .1.. | | TCTEAPTX | APL TEXT feature |
| (46) | ..1. | | TCTETXKB | TEXT keyboard |
| (46) | ...1 | | TCTEAPKB | APL keyboard |
| (46) | 1... | | TCTETXPR | 3288 TEXTPRINT |
| (46) |1.. | | TCTETXT6 | KATAKANA |
| (46) |1. | | TCTETXT7 | Reserved |
| (46) |1 | | TCTETXT8 | Reserved |
| 3270 SIZE DEFINITIONS | | | | |
| (47) | BIT(8) | 1 | TCTE32SF | 3270 size flags |
| (47) | 1... | | TCTEWA | Alternate size can be used |
| (47) | .1.. | | TCTEALW | Alternate size is in use |
| (47) | ..1. | | TCTELEWA | Alternate size used last |
| (47) | ...1 | | TCTEAWN | EW/EWA needed next |
| (47) | 1... | | * | 3270 - Reserved |
| (47) |1.. | | TCTTE_ROUTABLE_START | Routable START |
| The following 2 BIT definitions are for TRANSACTION ROUTING use | | | | |
| (47) |1. | | TCTECRTF | Caller is running the first transaction of a ROUTING SESSION |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------|-----------|-----|------------|---|
| (47) |1 | | TCTECERT | Caller is running an EXPLICIT ROUTING SESSION |
| (48) | HALFWORD | 2 | TCTEDSCZ | 3270 default screen size |
| (4A) | UNSIGNED | 1 | TCTEDSCL | 3270 default size rows |
| (4B) | UNSIGNED | 1 | TCTEDSCC | 3270 default size columns |
| (4C) | HALFWORD | 2 | TCTEASCZ | 3270 alternate screen size |
| (4E) | UNSIGNED | 1 | TCTEASCL | 3270 alternate size rows |
| (4F) | UNSIGNED | 1 | TCTEASCC | 3270 alternate size columns |
| 3270 EXTENDED FEATURES | | | | |
| (50) | BIT(8) | 1 | TCTE32EF | 3270 extended features |
| (50) | 1... | | TCTTEEDS | EXT DATA STREAM supported |
| (50) | .1.. | | TCTTECOL | COLOUR supported |
| (50) | ..1. | | TCTTEPSS | PSS supported |
| (50) | ...1 | | TCTTEHIL | HIGHLIGHT supported |
| (50) | 1... | | TCTTEVAL | VALIDATION supported |
| (50) |1.. | | TCTTEPRN | PARTITIONS supported |
| (50) |1. | | TCTTEMSR | MSR CONTROL supported |
| (51) | BIT(8) | 1 | TCTE32E2 | 3270 extended features #2 |
| (51) | 1... | | TCTTEFRL | Field OUTLINING supported |
| (51) | .1.. | | TCTTEMIX | MIXED field supported |
| (51) | ..1. | | TCTTEBTR | Background transparency |
| (51) | ...1 11.. | | * | Reserved |
| (51) |1. | | TCTTERMP | Reply mode structured field in query reply |
| (51) |1 | | TCTTESA | Set Attribute supported. |
| (52) | BIT(8) | 1 | TCTE32E3 | 3270 extended features |
| (52) | 1... | | TCTTEQYA | QUERY always |
| (52) | .1.. | | TCTTEQYC | QUERY COLD-STARTS only |
| (52) | ..1. | | TCTTEQYN | QUERY next LOGON |
| (52) | ...1 | | TCTTEQYP | QUERY pending |
| (52) | 1111 | | * | |
| Extended User INFORMATION field | | | | |
| (53) | BIT(8) | 1 | TCTEUSE2 | Byte storage allocation |
| (53) | 1... | | TCTEABP | ABEND is pending |
| (53) | .1.. | | TCTEUERR | 0889 SENSE REC'D mask |
| (53) | ..1. | | TCTEUCFM | User should CONFIRM now |
| (53) | ...1 | | TCTEUSRB | User should ROLL BACK now |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (53) | 1... | | TCTESRBR | ROLLBACK rec'd from other side |
| (53) |1.. | | TCTEUNUL | No User data ID received |
| (53) |1. | | TCTEUSMD | User flag in SEND mode |
| (53) |1 | | TCTEURCV | User flag in RECEIVE mode must issue a RECEIVE |
| (54) | CHARACTER | 4 | TCTTEUSE | End of User area |
| SYSTEM AREA STARTS HERE GENERAL INFORMATION | | | | |
| (54) | HALFWORD | 2 | TCTTETEL | Table entry length |
| (56) | HALFWORD | 2 | TCTTETEN | Terminal entry number |
| (58) | ADDRESS | 4 | TCTEDIBA | Data interchange block address |
| (5C) | ADDRESS | 4 | TCTESNEX | Addr of Signon Extension |
| (60) | CHARACTER | 11 | TCTESCUR | Security level |
| (60) | CHARACTER | 4 | * | |
| (60) | UNSIGNED | 2 | TCTECSG1 | CGCSGID-1 |
| (62) | UNSIGNED | 2 | TCTECSG2 | CGCSGID-2 |
| (64) | BIT(8) | 1 | TCTESCFI | Security flag byte |
| (64) | 1... | | TCTEGNXT | GNTRAN next transid |
| (64) | .1.. | | * | Reserved |
| (64) | ..1. | | TCTETOBF | Timeout BID failed |
| (64) | ...1 | | TCTESCFM | Preset signon error field |
| (64) | 1... | | TCTESCST | Timeout SIGN-OFF is allowed |
| (64) |1.. | | TCTESCLG | SIGNOFF = LOGOFF |
| (64) |1. | | TCTESTAR | Trans Access Revoked |
| (64) |1 | | TCTESCTO | Timeout signoff required |
| (65) | CHARACTER | 4 | TCTEELGM | A(EXTRACTED LOGON DATA) |
| (69) | BIT(8) | 1 | * | |
| (69) | 1... | | TCTEMROS | Shippable definition |
| (69) | .1.. | | TCTEMROP | Ship done to someone |
| (69) | ..1. | | TCTTETMC | TMP action taken for TCTE |
| (69) | ...1 | | TCTESKSH | Save on restart dataset that definition shipped |
| (69) | 1... | | TCTENTA | Notify received. |
| (69) |1.. | | TCTEIRFR | TEDA->TIOA is free for reuse |
| (69) |1. | | TCTERMDL | Remdel scheduled |
| (69) |1 | | TCTTETSC | TMP action taken for TCSE |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|--|
| (6A) | BIT(8) | 1 | TCTEANDX | SNA-ASCII direction indicator |
| (6A) | 1111 1... | | * | Reserved |
| (6A) | 1.. | | TCTES7TX | S/7 no RETRANSLATE indicator |
| (6A) |1. | | TCTEASCO | Output (EBCDIC to ASCII) |
| (6A) |1 | | TCTEASCI | Input (ASCII to EBCDIC) |
| (6B) | BIT(8) | 1 | TCTEUCTB | Index for translate table |
| (6C) | ADDRESS | 4 | TCTENIBA | Address of NIB descriptor |
| (6C) | ADDRESS | 4 | TCTTERLA | Address of RELAY LINK TCTTE, if this TCTTE is a SURROGATE. |
| (6C) | ADDRESS | 4 | TCTTETA | The physical address and terminal device for the write MACRO instruction |
| (6C) | BIT(8) | 1 | TCTTEGU | Relative line number |
| (70) | ADDRESS | 4 | TCTTESKA | Address of SKELETON TCTTE, if this TCTTE is a SURROGATE. |
| (70) | ADDRESS | 4 | TCTERPLA | RPL address |
| (70) | ADDRESS | 4 | TCTTELEA | LINE ENTRY address |
| (74) | ADDRESS | 4 | TCTTERST | Addr of tran restart Extn |
| (78) | ADDRESS | 4 | TCTTETEA | Address of BMS extension |
| (7C) | CHARACTER | 4 | TCTTETC | Terminal transaction code |
| (80) | ADDRESS | 4 | TCTTEEILR | A(EIP'S last held TIOA) |
| (84) | ADDRESS | 4 | TCTEEIEX | A(EXEC terminal CB ETCB) |
| (84) | ADDRESS | 4 | TCTTESUA | Address of SURROGATE TCTTE if this TCTTE's a RELAY LINK |
| (88) | ADDRESS | 4 | TCTTEEIA | Exec interface PARM addr |
| (8C) | ADDRESS | 4 | TCTTECTK | Channel Token |
| (90) | BIT(8) | 1 | TCTTECHN | Channel properties |
| (90) | 1... | | TCTECHAN | Other end of MRO link supports channels |
| (90) | .1.. | | TCTEEWLM | supports EWLM correlators |
| (90) | ..1. | | TCTE_CHAN_SENT_FMH | DFHAPCR has sent FMHs |
| (90) | ...1 | | TCTE_IPIC_CHAN_ WAITING | Chan to be received |
| (90) | 1... | | TCTEICRX | supports ICRX's |
| (90) | 1.. | | TCTEODRP | supports Origin Data prop |
| (90) |1. | | TCTEXCHAN | Other end of MRO link supports transaction channel |
| (90) |1 | | * | Reserved |
| (91) | BIT(8) | 1 | TCTTESYP | System properties |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|--|
| (91) | 1... | | TCTESTIX | Start supports ICRX |
| (91) | .111 1111 | | * | Reserved |
| (92) | CHARACTER | 2 | * | Reserved |
| (94) | ADDRESS | 4 | TCTE_IPIC_SESSION_ TOKEN | IPIC Session token |
| (98) | ADDRESS | 4 | TCTTEUCN | ISC User ownership chain |
| (9C) | ADDRESS | 4 | TCTTEIST | ISC INTERSYSTEM table address |
| (A0) | BIT(8) | 1 | TCTTEEDF | EDF debug mode |
| (A1) | CHARACTER | 1 | TCTEMRST | MRO/LU6.1 Apl State-cur |
| (A2) | CHARACTER | 1 | TCTEMRSV | MRO/LU6.1 Apl State-prev |
| (A3) | CHARACTER | 1 | * | |
| (A3) | 1111 | | TCTEMRSX | MRO/LU6.1 Indicators |
| (A3) | 1... | | TCTENNQI | IMS Session Indicator |
| (A3) | .111 | | * | Reserved |
| (A3) | 1111 | | TCTTEDII2 | DYNAMIC INSTALL flags |
| (A3) | 111. | | * | Reserved |
| (A3) |1 | | TCTEDAB | Autoinstall delete abend |
| (A4) | BIT(8) | 1 | TCTTEDII | DYNAMIC INSTALL indicators. * |
| (A4) | 1... | | TCTTEDAP | Pending DYNAMIC ADD |
| (A4) | .1.. | | TCTTEDDP | Requires deleting |
| (A4) | ..1. | | * | Reserved |
| (A4) | ...1 | | * | Reserved |
| (A4) | 1... | | * | Reserved |
| (A4) |1.. | | * | Reserved |
| (A4) |1. | | TCTPNDAC | Pending AUTOCONNECT |
| (A4) |1 | | TCTETRAN | Transient terminal |
| (A5) | BIT(8) | 1 | * | DYNAMIC INSTALL indicatorS-2 * |
| (A5) | 1... | | TCTEDEL P | AUTOINSTALL ZACT has issued INITIATE |
| (A5) | .1.. | | TCTEDELQ | AUTOINSTALL delete after a restart |
| (A5) | ..1. | | TCTELUSM | Special LUS 1st session |
| (A5) | ...1 | | TCTENDEL | AUTOINSTALL do not delete |
| (A5) | 1... | | TCTEXDEL | on if ZCLX or ZNSP run and action=simlogon |
| (A5) |1.. | | TCTECLG | CLSDST & LOGON in progress |
| (A5) |1. | | TCTEPSN | Awaiting CLSDST PASS notification |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|----------------------------|--|
| (A5) |1 | | TCTEDZIP | CATD delete in progress |
| (A6) | CHARACTER | 4 | TCTEXTOK | ZXQO token |
| (AA) | HALFWORD | 2 | TCTEEIDL | Length of residual data |
| (AC) | HALFWORD | 2 | TCTTECCU | Physical hardware address |
| (AE) | CHARACTER | 1 | TCTESONS | SON code for SCIP |
| Terminal read timeout VALUE | | | | |
| (AF) | BIT(8) | 1 | TCTTEDPO | Sense0831 count |
| (B0) | BIT(8) | 1 | TCTTESCV | Storage violation count |
| This byte is used by surrogates to record the state of the relay link | | | | |
| (B1) | CHARACTER | 1 | TCTE_RELAY_LINK_ STATUS | |
| (B1) | 1... | | TCTE_IPIC_RELAY_LINK | Relay link is IPIC |
| (B1) | .1.. | | TCTE_IPIC_IS7_SENT | IS7 sent over IPIC link |
| (B1) | ..1. | | TCTE_IPIC_IS7_RECEIVED | IS7 received on IPIC link |
| (B1) | ...1 | | * | reserved bit 3 |
| (B1) | 1... | | * | reserved bit 4 |
| (B1) |1.. | | TCTE_RECOV_STATUS_DEFERRED | No recovery status yet |
| (B1) |1. | | TCTE_RELAY_LINK_ ACTIVE | Relay link is active |
| (B1) |1 | | TCTE_RELAY_LINK_ ASSIGNED | Relay link is assigned |
| (B2) | UNSIGNED | 2 | TCTETRTO | Read Timeout Value |
| The following field is overlaid by: TCTTEZ1 : NON-VTAM status fields TCTTEZ2 : PIPELINE statistics TCTTEZ3 : Session Specific fields for Function Shipping | | | | |
| (B4) | CHARACTER | 8 | TCTTEZ0 | |
| NON - VTAM Status fields | | | | |
| (B4) | CHARACTER | 8 | TCTTEZ1 | NON-VTAM status fields |
| (B4) | FULLWORD | 4 | TCTTEBC | Bypass control counter |
| (B8) | HALFWORD | 2 | TCTTELPL | (Terminal type is CARD READER or LINE PRINTER) |
| (BA) | BIT(8) | 1 | TCTTEPRC | Event (terminal type if SYSTEM/7 support |
| (BB) | UNSIGNED | 1 | * | NON-VTAM Reserved |
| PIPELINE Statistics | | | | |
| (B4) | CHARACTER | 8 | TCTTEZ2 | PIPELINE statistics |
| (B4) | HALFWORD | 2 | TCTETCNT | Total throw-away count |
| (B6) | HALFWORD | 2 | TCTESCNT | Number of times (consecutive throw-away count) |
| (B8) | HALFWORD | 2 | TCTECCNT | Current throw-away count |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------|---|
| (BA) | HALFWORD | 2 | TCTEMCNT | Maximum throw-away count |
| Session Specific fields used for Function Shipping | | | | |
| (B4) | CHARACTER | 4 | TCTTEZ3 | Session only fields |
| (B4) | CHARACTER | 4 | TCTESERV | Current mirror transid |
| TERMINAL STATISTICS | | | | |
| (BC) | FULLWORD | 4 | TCTTENI | From this terminal (BINARY) |
| (C0) | FULLWORD | 4 | TCTTEN0 | To this terminal (BINARY) |
| (C4) | CHARACTER | 2 | TCTEDVSC | VTAM short on storage (SOS) |
| (C4) | CHARACTER | 2 | TCTTETE | Number of transmission errors or IRC disconnect requests (BINARY) |
| OPERATOR STATISTICS | | | | |
| (C6) | CHARACTER | 4 | TCTTEOT | Number of transactions |
| (CA) | CHARACTER | 2 | TCTTEOE | Number of transaction errors |
| General Bits | | | | |
| (CC) | BIT(8) | 1 | * | |
| (CC) | 1... | | * | Reserved |
| (CC) | .1.. | | TCTTEPEP | DFHPEP is executing |
| (CC) | ..1. | | TCTECLRQ | CLSDST on INSERV req |
| (CC) | ...1 | | TCTEPABP | Purge abend pending |
| (CC) | 1... | | TCTETABP | Timeout abend pending |
| (CC) |1.. | | TCTE_CONFDATA_YES | Suppress user data |
| (CC) |1. | | TCTEDIBS | DIB is inactive |
| (CC) |1 | | TCTTEGWI | A GET WAIT has been issued * |
| TERMINAL CONTROL INDICATORS | | | | |
| (CD) | BIT(8) | 1 | TCTTETC1 | Byte name definition |
| (CD) | 1... | | TCTTECLT | Last terminal in group |
| (CD) | .1.. | | TCTTECPF | Compatible terminal |
| (CD) | ..1. | | TCTTECUI | Control unit OUT OF SERVICE |
| (CD) | ...1 | | TCTTEPOS | Control unit PERMANENTLY OUT OF SERVICE |
| (CD) | 1... | | TCTTESUS | Task is suspended by ZC |
| (CD) |1.. | | TCTTECTC | Terminal connected |
| (CD) |1. | | TCTTECRS | Skip terminal read |
| (CD) |1 | | TCTTECSF | Skip flag status indicator |
| (CE) | BIT(8) | 1 | TCTTEIO | Internal operation req byte |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------|-----------|-----|------------|--|
| OPERATION STATUS | | | | |
| (CE) | 1... .. | | TCTTEONR | NEGATIVE response |
| (CE) | .1.. .. | | TCTTEOAO | AUTO output message |
| (CE) | ..1. | | TCTTEOAT | AUTO output transaction |
| (CE) | ...1 | | TCTTECG | Conditional GETMAIN for read attention |
| (CE) | 1... | | TCTTEOGA | GRAPHIC attention indicator |
| (CE) | 1... | | TCTTERPI | READ pending |
| (CE) |1.. | | TCTTEOIC | TIME control transaction |
| (CE) |1. | | TCTTEOTI | TASK to be initiated |
| (CE) |1 | | TCTTEXAC | Transparent transaction |
| (CE) |1 | | TCTTESCW | SEGMENTED write |
| (CF) | BIT(8) | 1 | TCTTEIO2 | Byte 2 name definition |
| (CF) | 1... .. | | TCTTECAI | Permanent transaction code |
| (CF) | .1.. .. | | * | |
| (CF) | ..1. | | * | |
| (CF) | ...1 | | * | reserved |
| (CF) | 1... | | TCTERORT | Initiate restart task |
| (CF) |1.. | | TCTERORN | Notify terminal |
| (CF) |1. | | TCTEROCs | Restart for CICS LOGON |
| (CF) |1 | | TCTEROS | Restart to SIMLOGON |
| ACCESS METHOD FLAGS | | | | |
| (D0) | BIT(8) | 1 | TCTEAMIB | Access method flags |
| OPERATION REQUESTS | | | | |
| (D1) | BIT(8) | 1 | TCTTEOS | External operation request |
| (D1) | 1... .. | | TCTTEOER | Erase |
| (D1) | .1.. .. | | TCTTEOSS | Save terminal storage |
| (D1) | ..1. | | TCTTEOLA | Line addressing request |
| (D1) | ...1 | | TCTTEORR | Read |
| (D1) | 1... | | TCTTEODR | Disconnect |
| (D1) |1.. | | TCTTEOSR | Wait |
| (D1) |1. | | TCTTECVS | Converse |
| (D1) |1 | | TCTTEOWR | Write |
| OPERATION MODIFIERS | | | | |
| (D2) | BIT(8) | 1 | TCTTECS | External control request |
| (D2) | 1... .. | | TCTTERBI | Read buffer |
| (D2) | .1.. .. | | TCTTEEUI | Erase all unprotected |
| (D2) | ..1. | | TCTTEOWL | Write lock |
| (D2) | ...1 | | TCTTEORL | Read lock |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (D2) | 1... | | TCTTECYI | Copy |
| (D2) |1.. | | TCTTERPR | |
| (D2) |1. | | TCTTETRM | Transparent mode |
| (D2) |1. | | TCTTENTR | No translate |
| (D2) |1 | | TCTTEPBM | PSEUDO-BINARY mode |
| (D2) |1 | | TCTTETRY | BISYNCH transparency |
| (D3) | BIT(8) | 1 | TCTTEOC | Byte 2 storage allocation |
| (D3) | 1... | | TCTEDRR | Write with DEF RESP requested * |
| (D3) | .1.. | | TCTTETWW | TCAM write WORK flag |
| (D3) | ..1. | | TCTRA2 | Write BREAK analysis request |
| (D3) | ...1 | | TCTRA1 | Read ATTN analysis request |
| (D3) | 1... | | TCTTECBW | COMMON BUFFER request |
| (D3) |1.. | | TCTTEPBK | PASSBOOK request |
| (D3) |1. | | TCTTEOFR | END OF FILE request |
| (D3) |1 | | TCTTEWCI | Control char supplied |
| (D4) | BIT(8) | 1 | TCTEOCB | Byte 3 storage allocation |
| (D4) | 1... | | TCTEFRC | Write with FORCE=YES |
| (D4) | .1.. | | TCTEWSR | Wait until SIGNAL received |
| (D4) | ..1. | | TCTELMP | LDC mnemonic present |
| (D4) | ...1 | | TCTEFPD | FMH provided with data |
| (D4) | 1... | | TCTELST | LAST write from task |
| (D4) |1.. | | TCTEORAS | IMMED option |
| (D4) |1. | | TCTEORSY | DELAY option |
| (D5) | BIT(8) | 1 | TCTEIKPC | Byte 4 storage allocation |
| (D5) | 1... | | * | Reserved |
| (D5) | .1.. | | * | Reserved |
| (D5) | ..1. | | TCTESFU | SPP ISSUE TC free at USR SP |
| (D5) | ...1 | | TCTESFR | SPP ISSUE TC free if RSTRT |
| (D5) | 1... | | * | |
| (D5) |1.. | | TCTEPH1 | SYNCPOINT PHASE 1 done |
| (D5) |1. | | TCTEPH2 | SYNCPOINT PHASE 2 done |
| (D6) | BIT(8) | 1 | TCTEOC3 | Byte 5 storage allocation |
| (D6) | 1... | | TCTENEC | Write with CCOMPL=NO |
| (D6) | .1.. | | * | |
| (D6) | ..1. | | TCTEHDA | User handles all conditions |
| (D6) | ..1. | | TCTTECND | COND request |
| (D6) | ..1. | | TCTECND | COND request |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (D6) | ...1 | | TCTTEOWS | Write structured field |
| (D6) | 1... | | TCTTETTO | TRANSP TIOA obtained |
| (D6) |1.. | | TCTEDWP | Defer requested |
| (D6) |1.. | | TCTTEDWR | Defer requested |
| (D6) |1. | | TCTTEINV | Invite requested |
| (D6) |1 | | TCTEDRD | Defer load |
| (D7) | BIT(8) | 1 | TCTEOC4 | Byte 6 storage allocation |
| (D7) | 1... | | * | |
| (D7) | .1.. | | * | |
| (D7) | ..1. | | * | |
| (D7) | ...1 | | * | |
| (D7) | 1... | | * | |
| (D7) |1.. | | TCTEBYPQ | Byp quiesce for PASS |
| (D7) |1. | | TCTENOA | NOABEND requested |
| (D7) |1 | | TCTEINN | TERMERR flag byte |
| (D8) | BIT(8) | 1 | TCTETSU | TCTTE terminal sharing use |
| (D8) | 1... | | TCTESUR | Used as a SURROGATE |
| (D8) | .1.. | | TCTERLX | Used as a RELAY LINK on transaction side |
| (D8) | ..1. | | TCTERLT | Used as a RELAY LINK on terminal side |
| (D8) | ...1 | | TCTETRT | Used as terminal for remote transaction |
| (D8) | 1... | | TCTEMDL | Is a model TCTTE |
| (D8) |1.. | | TCTERTNT | TCTTE nominated transaction to be routed |
| (D8) |1. | | TCTERTE | Running routing transaction (CRTE) |
| (D8) |1 | | TCTEERT | Running under an explicit |
| (D9) | BIT(8) | 1 | TCTEERAF | 3270 Error MSG flags ROUTING SESSION |
| (D9) | 1... | | TCTEERAL | Error MSGS on last line |
| (D9) | .1.. | | TCTEERAI | Intensify 3270 error MSGS |
| (D9) | ..1. | | TCTEPROP | Propagate abend towards TOR |
| (DA) | BIT(8) | 1 | TCTEERAH | 3270 Error MSG HIGHLIGHT ATTR |
| (DB) | BIT(8) | 1 | TCTEERAC | 3270 Error MSG COLOR ATTR |
| (DC) | CHARACTER | 4 | TCTESYID | SYSID of transaction owning system |
| (E0) | BIT(8) | 1 | TCTETSU2 | Terminal sharing usage |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|--|
| (E0) | 1... | | TCTESPRR | SYNC POINT must be sent to terminal owning system |
| (E0) | .1.. | | TCTERTEC | ROUTING SESSION cancelled if this is a surrogate: |
| (E0) | ..1. | | TCTTEMBI | model owns BIND-IMAGE |
| (E0) | ...1 | | TCTTEMND | model owns NIB-DESCRIPTOR |
| (E0) | 1... | | TCTERTBC | Back-end CRTE cancel |
| (E0) |1.. | | TCTETECH | Supports channels |
| (E0) |1. | | TCTEIPCT | IPIC CRTE from TOR |
| (E0) |1 | | TCTEIPCA | IPIC CRTE into AOR |
| (E1) | BIT(8) | 1 | TCTETSU3 | General bits |
| (E1) | 1... | | TCTTEUIP | Limited update-in-place |
| (E1) | .1.. | | TCTECDSY | SAVED TCTECDSV if on |
| (E1) | ..1. | | TCTEUCTR | Translate TRANID to U/C |
| (E1) | ...1 | | TCTE_STORAGE_FREEZE | Indicates when all terminal storage should be retained |
| (E1) | 1... | | TCTTESRE | scheduled RESETSR |
| (E1) |1.. | | TCTELXS | Logon crossed simlog |
| (E1) |1. | | TCTEOPSE | TCTTEOI value set by SET TERM OPERID |
| (E1) |1 | | TCTEDTR | Dyn Router requires abend notification |
| (E2) | UNSIGNED | 2 | TCTTERTK | RTT entry key |
| (E4) | UNSIGNED | 1 | TCTTEEN | POLL list entry number |
| (E5) | CHARACTER | 1 | TCTTETP | Terminal priority |
| (E6) | BIT(8) | 1 | * | Trace bits |
| (E6) | 1... | | TCTETRXX | Exit trace active |
| (E6) | .1.. | | TCTETRXX | Standard or special trace OFF = STAN, ON = SPECIAL |
| (E6) | ..11 1111 | | * | Trace - Reserved |
| (E7) | UNSIGNED | 1 | TCTENLS | National Lang. Supp. code |
| (E8) | ADDRESS | 4 | TCTECELX | Address of CEL parmlist passed from CICS to CEL at Run Unit Init |
| (EC) | CHARACTER | 8 | TCTTE_START_DATA_ID | Start data id |
| (EC) | ADDRESS | 4 | TCTTE_START_DATA_ ADDRESS | Data on session |
| (F0) | BIT(8) | 1 | TCTTE_START_DATA_ FLAGS | Start flags |
| (F0) | 1... | | TCTTE_START_DATA_ HEADER | Header in data |
| (F0) | .1.. | | TCTTE_START_DATA | Just data |
| (F0) | ..11 1111 | | * | Reserved |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------|---------------------------|
| (F1) | CHARACTER | 3 | * | Reserved |
| (F4) | HALFWORD | 2 | TCTTE_START_DATA_LEN | Start data length |
| (F6) | CHARACTER | 1 | * | Reserved |
| (F7) | BIT(8) | 1 | TCTE_RZ | Requeststream flags |
| (F7) | 1... | | TCTERZS | Requeststream session |
| (F7) | .1.. | | TCTERZJS | Requeststream join sess |
| (F7) | ..1. | | TCTE_RZ_INVITE_DONE | APTC issued invite |
| (F8) | ADDRESS | 4 | TCTE_USER_TOKEN | Notify user token |
| (F8) | ADDRESS | 4 | TCTE_RQSBLKA | Addr of Requeststream Blk |
| (FC) | CHARACTER | 4 | * | Not used - available |
| The following field is overlayed by: TCTTEX1 : Bisynchronous Data TCTETCM1 : TCAM Area | | | | |
| (100) | CHARACTER | 12 | TCTTEX0 | SNA System Area |
| BISYNCHRONOUS DATA | | | | |
| (100) | CHARACTER | 12 | TCTTEX1 | BISYNCH data |
| (100) | CHARACTER | 4 | TCTTEBSB | BISYNCH data begin addr |
| (100) | HALFWORD | 2 | TCTTEBDL | BISYNCH data area length |
| (102) | BIT(8) | 1 | * | Reserved |
| (103) | BIT(8) | 1 | * | Reserved |
| (104) | ADDRESS | 4 | * | Reserved |
| (108) | ADDRESS | 4 | TCTTEBIA | Blocked input record addr |
| (10C) | CHARACTER | 0 | TCTTEBEA | Address |
| TCAM AREA (0S) | | | | |
| (100) | CHARACTER | 12 | TCTETCM1 | TCAM area |
| (100) | HALFWORD | 2 | TCTTETML | Minimum length TIOA TCAM |
| (102) | BIT(8) | 1 | * | Reserved |
| (103) | BIT(8) | 1 | * | Reserved |
| (104) | CHARACTER | 8 | TCTTETQN | TCAM QUEUE name |
| (10C) | CHARACTER | 20 | * | Reserved |
| (120) | CHARACTER | 0 | TCTEGET6 | Length for OS CONSOLE |
| TERMINAL - DEPENDENT EXTENSION OVERLAY AREA The following field is overlayed by: TCTTEY1 : 2980 Control Extension TCTTEY2 : 3270 Display Data TCTTEY3 : 3735 Extension Area TCTTEY5 : 3600 Binary Synchronous Extension Area | | | | |
| (120) | CHARACTER | 25 | TCTTETDE | Term Dep Ext Overlay area |
| 2980 CONTROL EXTENSION Terminal dependent extension overlay area | | | | |
| (120) | CHARACTER | 2 | TCTTEY1 | 2980 control ext. |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---------------------------|
| (120) | BIT(8) | 1 | TCTTEFLG | 2980 control flags |
| (120) | 1... | | * | |
| (120) | .1.. | | TCTTEWKF | Work factor |
| (120) | ..1. | | * | |
| (120) | ...1 | | * | Reserved |
| (120) | 1... | | TCTTESEG | SEGMENTED write |
| (120) |1.. | | TCTTEPBI | PASSBOOK inserted on POLL |
| (120) |1. | | TCTTEAAI | Station address in use |
| (120) |1 | | TCTTEXLT | Data translate |
| (121) | BIT(8) | 1 | TCTTETTV | VECTOR |
| 3270 DISPLAY DATA Terminal dependent extension overlay area | | | | |
| (120) | CHARACTER | 25 | TCTTEY2 | 3270 display area |
| (120) | ADDRESS | 4 | * | Reserved |
| (124) | HALFWORD | 2 | * | Reserved |
| (126) | BIT(8) | 1 | TCTTEDOC | Byte 1 Storage Allocation |
| (127) | BIT(8) | 1 | * | Reserved |
| (128) | BIT(8) | 1 | TCTTEDOS | Byte 2 storage allocation |
| (128) | 1... | | TCTTEDBI | Device BUSY |
| (128) | .1.. | | * | Reserved |
| (128) | ..1. | | * | Reserved |
| (128) | ...1 | | * | Reserved |
| (128) | 1... | | TCTTERKI | Keyboard |
| (128) |1.. | | * | Reserved |
| (128) |1. | | TCTTEIRF | INTERVENTION required |
| (128) |1 | | * | Reserved |
| 3270 SEGMENTED WRITE AREA | | | | |
| (129) | BIT(8) | 1 | * | Reserved |
| (12A) | CHARACTER | 2 | * | Reserved |
| (12C) | CHARACTER | 4 | * | Reserved |
| 3270 COMPATIBILITY AREA | | | | |
| (130) | CHARACTER | 1 | * | Reserved |
| (131) | CHARACTER | 1 | * | Reserved |
| (132) | CHARACTER | 1 | * | Reserved |
| (133) | CHARACTER | 1 | * | Reserved |
| (134) | BIT(8) | 1 | * | Reserved |
| (135) | BIT(8) | 1 | * | Reserved |
| (136) | HALFWORD | 2 | * | Reserved |
| (138) | BIT(8) | 1 | * | Reserved |

Table 568. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|------------------------|
| 3735 EXTENSION AREA Terminal dependent extension overlay area | | | | |
| (120) | CHARACTER | 4 | TCTTEY3 | 3735 extension area |
| (120) | CHARACTER | 1 | * | Reserved |
| (121) | CHARACTER | 3 | TCTTEDMP | Data retention area |
| 3600 BINARY SYNCHRONOUS EXTENSION AREA Terminal dependent extension overlay area | | | | |
| (120) | CHARACTER | 15 | TCTTEY5 | 3600 extension area |
| (120) | FULLWORD | 4 | * | Reserved |
| (124) | ADDRESS | 4 | * | Reserved |
| (128) | ADDRESS | 4 | * | Reserved |
| (12C) | HALFWORD | 2 | * | Reserved |
| (12E) | BIT(8) | 1 | TCTTEMFL | 3600 BSC control flags |
| (12E) | 1... | | TCTTEMWR | Write pending |
| (12E) | .1.. | | TCTTEMTD | Output segment built |
| (12E) | ..1. | | TCTTEMSG | SEGMENTED write |

SNA SYSTEM AREA

Table 569.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--|
| (100) | STRUCTURE | 416 | * | AREAS |
| (100) | CHARACTER | 4 | TCTEVTSA | VTAM system area start |
| (100) | HALFWORD | 2 | TCTESOAL | Terminal data length |
| (102) | HALFWORD | 2 | TCTEGRS | Size of queued GETMAIN request |
| This area (from TCTE_TRACE_3 to TCTE_TRACE_3_LEN) is traced | | | | |
| (104) | CHARACTER | 44 | TCTE_TRACE_3 | TCTTE trace area 3 |
| SENSE DATA | | | | |
| (104) | CHARACTER | 8 | TCTEVSSS | System sense and status area |
| (104) | CHARACTER | 4 | TCTEVSDA | Sense area |
| (104) | BIT(8) | 1 | TCTESS1 | Definition modifier system sense codes |
| (105) | BIT(8) | 1 | TCTESS2 | Definition |
| (106) | BIT(8) | 1 | TCTEUS1 | User sense byte 1 |
| (107) | BIT(8) | 1 | TCTEUS2 | User sense byte 2 |
| (108) | CHARACTER | 4 | TCTEVNSS | Node sense and status area * |
| (108) | BIT(8) | 1 | TCTENSS1 | Node system sense byte 1 |
| (109) | BIT(8) | 1 | TCTENSS2 | Node system sense byte 2 |
| (10A) | BIT(8) | 1 | TCTENUS1 | Node User sense byte 1 |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------------|---|
| (10B) | BIT(8) | 1 | TCTENUS2 | Node User sense byte 2 |
| (10C) | ADDRESS | 4 | TCTESLNK | ISC system OWNERSHIP CHAIN * |
| (10C) | ADDRESS | 4 | TCTENEXT | Address next TCTTE(session) * |
| (10C) | ADDRESS | 4 | TCTE_NEXT_APPC_SURROG | Next PS APPC surrog |
| (110) | CHARACTER | 4 | TCTETRND | ISC transaction ID |
| (114) | BIT(8) | 1 | TCTE_SENSE_RC | Reason for 084C0000 |
| (115) | BIT(8) | 1 | TCTESPS | ISC SYNC POINT flags |
| (115) | 1... | | TCTESPSH | ISC SHUNT received |
| (115) | .1.. | | TCTESPAB | ISC ISSUE ABEND received |
| (115) | ..1. | | TCTESPER | ISC ISSUE ERROR received |
| (115) | ...1 | | TCTESPRB | ISC SYNC ROLLBACK received * |
| (115) | 1... | | TCTESPSS | ISC SYNC PT request sent |
| (115) |1.. | | TCTESPID | ISC IN DOUBT indicator |
| (115) |1. | | TCTESPSR | received |
| (115) |1 | | TCTESPPR | ISC PREPARE received |
| (116) | BIT(8) | 1 | TCTESPSA | ADDITIONAL SYNC PT flags |
| (116) | 1... | | * | |
| (116) | .1.. | | TCTESPRP | Sent PREPARE |
| (116) | ..1. | | TCTESPRC | Sent 'PREPARE INVITE' |
| (116) | ...1 | | TCTESPRL | Sent 'PREPARE REQUEST EB' |
| (116) | 1... | | TCTERPRC | Received 'PREPARE INVITE' |
| (116) |1.. | | TCTERPRL | Received 'PREPARE REQUEST EB' |
| SYNCH POINT status - not PROTOCOL FLAGS, but AUW LIFETIME | | | | |
| (117) | BIT(8) | 1 | TCTESPST | SYNC point status |
| (117) | 1... | | * | |
| (117) | .1.. | | * | |
| (117) | ..1. | | * | |
| (117) | ...1 | | * | |
| (117) | 1... | | * | |
| (117) |1.. | | * | |
| (117) |1. | | * | |
| (117) |1 | | TCTESPUN | Session is known to not have done PROTECTED ACTIONS |
| (118) | BIT(8) | 1 | TCTESARB | |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (118) | 1... | | * | Reserved |
| (118) | .1.. | | * | Reserved |
| (118) | ..1. | | * | Reserved |
| (118) | ...1 | | * | Reserved |
| (118) | 1... | | * | Reserved |
| The next flag only used if TCSEAR0I is on (new rules) | | | | |
| (118) |1.. | | TCTESARR | State after Rollback flag On = go to Receive Off = go to Send |
| (118) |1. | | * | Reserved |
| (118) |1 | | * | Reserved |
| (119) | BIT(8) | 1 | * | Reserved |
| (11A) | BIT(8) | 1 | * | Reserved |
| (11A) | 1... | | TCTESABC | ABORT completely |
| (11A) | .1.. | | TCTESABR | ABORT received |
| (11A) | ..1. | | TCTESABS | ABORT sent |
| (11A) | ...1 | | TCTESABP | ABORT pending |
| (11A) | 1... | | * | |
| (11A) |1.. | | * | |
| (11A) |1. | | TCTEEMX | ERP MSG expected |
| (11A) |1 | | TCTESER | Error processing state |
| (11B) | CHARACTER | 1 | TCTEATPN | Attached process memory |
| (11C) | ADDRESS | 4 | TCTEMII | MESSAGE INSERT information address |
| The BIT definitions in the following field match the BIT assignments in BYTES 16 and 17 of the LU6 BIND IMAGE | | | | |
| (120) | CHARACTER | 2 | TCTEARC | Information |
| (120) | BIT(8) | 1 | TCTEARC1 | Arch Info 1 X'80' and X'40' Reserved |
| (120) | 1... | | * | |
| (120) | .1.. | | * | |
| (120) | ..1. | | TCTESYSM | System message model |
| (120) | ...1 | | TCTESCHM | SCHEDULER model |
| (120) | 1... | | TCTEQM | QUEUE model |
| (120) |1.. | | TCTELFM | LINEAR FILE model |
| (120) |1. | | TCTEDL1M | DL/1 model |
| (120) |1 | | TCTEFDM | FILE DEFINITION model |
| (121) | BIT(8) | 1 | TCTEARC2 | Arch Info 2 |
| (121) | 1... | | TCTEOPCM | OPERATOR CONTROL model Other bits reserved |
| (122) | BIT(8) | 1 | TCTEISC1 | ISC flags |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--------------------------------------|
| (122) | 1... | | TCTE1RY | CICS is PRIMARY |
| (122) | .1.. | | TCTE2RY | CICS is SECONDARY |
| (122) | ..1. | | TCTEDYN | PRI/SEC is DYNAMIC |
| (122) | ...1 | | * | |
| (122) | 1... | | TCTEWIN | LUC CONTENTION WINNER |
| (122) |1.. | | TCTELSE | LUC CONTENTION LOSER |
| (122) |1. | | * | |
| (122) |1 | | TCTEBCL | BINDING as CONTENTION LOSER |
| (123) | BIT(8) | 1 | TCTENEPS | NEPCLASS static definition |
| (124) | CHARACTER | 2 | TCTESQNS | sequence number BUCKETS |
| (124) | HALFWORD | 2 | TCTESQIP | PHYSICAL INBOUND sequence number |
| (126) | HALFWORD | 2 | TCTESQOP | PHYSICAL OUTBOUND sequence number |
| (128) | HALFWORD | 2 | TCTESQIL | LOGICAL INBOUND sequence number |
| (12A) | HALFWORD | 2 | TCTESQOL | LOGICAL OUTBOUND sequence |
| (12C) | HALFWORD | 2 | TCTESQR1 | OUR BB SEQ no sent |
| (12E) | HALFWORD | 2 | TCTESQR2 | HIS BB SEQ no sent |
| TCTE_TRACE_3_LEN End of TCTTE trace area 3 | | | | |
| ATTACH REQUIRED FIELDS | | | | |
| TASK REQUEST COLLECTOR (1) | | | | |
| (130) | BIT(8) | 1 | TCTETRC1 | Byte 2 storage allocation |
| TASK REQUEST COLLECTOR (2) | | | | |
| (131) | BIT(8) | 1 | TCTETRC2 | Byte 3 Storage Allocation |
| (131) | 1... | | * | |
| (131) | .1.. | | * | |
| (131) | ..1. | | * | |
| (131) | ...1 | | TCTEOCC | OUTBOUND chain control |
| (131) | 1... | | * | |
| (131) |1.. | | TCTEMI | Message INTEGRITY(POSITIVE response) |
| (131) |1. | | * | |
| (131) |1 | | TCTEOWO | ONE WRITE ONLY indicator |
| (132) | BIT(8) | 1 | TCTESUP1 | Required features (1) |
| (133) | BIT(8) | 1 | TCTESUP2 | Required features (2) |
| (134) | BIT(8) | 1 | TCTENSP1 | Unsupported features (1) |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (135) | BIT(8) | 1 | TCTENSP2 | Unsupported features (2) |
| (136) | CHARACTER | 5 | TCTEJINF | GROUP next 5 bytes together KCP uses TCTEJINF for copy from PCT |
| JOURNALLING & I/O definition (NOTE - CONCATENATION with following 2 fields by TCTEJINF) | | | | |
| (136) | BIT(8) | 1 | TCTEJSA | JOURNALLING and I/O def |
| (136) | 1... | | TCTEFHA | All FMH'S to APPLN program |
| (136) | 1... | | TCTEEXNO | EXTRACT=NO |
| (136) | .1.. | | TCTEFHE | EODS FMH'S to APPLN program |
| (136) | .1.. | | TCTEEXAT | EXTRACT=ATTACH |
| (136) | ..1. | | TCTEAIO | ASYNCHRONOUS I/O |
| (136) | ...1 | | TCTESIO | SYNCHRONOUS I/O |
| (136) | 1... | | TCTEFHD | DFHDIP to process FMH |
| (136) |1.. | | TCTELrq | Transaction requires logical record |
| (136) |1. | | TCTEIMJ | Automatic message JOURNALLING on INPUT |
| (136) |1 | | TCTEOMJ | Automatic message JOURNALLING on OUTPUT |
| (137) | BIT(8) | 1 | TCTEXTOP | EXTRACT options |
| (138) | BIT(8) | 1 | TCTEOPT2 | EXTRA options |
| (138) | 1... | | TCTESRAQ | RAQ=YES specified |
| (138) | .1.. | | TCTETUCT | UC translate required |
| (138) | ..1. | | * | |
| (138) | ...1 | | * | |
| (138) | 1... | | * | |
| (138) |1.. | | * | |
| (138) |1. | | * | |
| (138) |1 | | * | |
| (139) | BIT(8) | 1 | TCTEJID | JOURNALLING JOURNAL ID |
| (13A) | BIT(8) | 1 | TCTENEPc | Node error program class ID |
| end of COPIED FIELDS from PCT | | | | |
| (13B) | BIT(8) | 1 | * | |
| (13B) | 1... | | TCTENBD | NIB disabled - ZCLS cleanup needed |
| (13B) | .1.. | | TCTECRQ | Real CLSDST reqd |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------|--|
| (13C) | CHARACTER | 4 | TCTEIRET | Access method RETCODE |
| (140) | CHARACTER | 8 | TCTENET | Applid of TOR |
| (140) | CHARACTER | 8 | TCTE_TITOKEN | token for remote delete |
| Communications Recovery Services storage | | | | |
| (148) | CHARACTER | 38 | CR_STORAGE | |
| Access method independent Communications Recovery Services storage | | | | |
| (148) | CHARACTER | 20 | CR_COMMON_STG | |
| Access method dependent Communications Recovery Services storage | | | | |
| (15C) | CHARACTER | 12 | CR_OVERLAY_STG1 | |
| (15C) | CHARACTER | 2 | * | |
| (15E) | CHARACTER | 9 | * | |
| (167) | CHARACTER | 1 | * | Round up to next halfword |
| (168) | CHARACTER | 6 | CR_OVERLAY_STG2 | |
| (16E) | CHARACTER | 2 | * | reserved |
| (170) | CHARACTER | 19 | TCTE_TNADDR | TN3270 client address |
| (170) | CHARACTER | 16 | TCTE_IPV6_TPADDR | IPv6 TP address |
| (170) | CHARACTER | 4 | TCTE_TPADDR | IPv4 TP address |
| (174) | CHARACTER | 12 | * | Rest of IPv6 addr |
| (180) | UNSIGNED | 2 | TCTE_PORT | port |
| (182) | UNSIGNED | 1 | TCTE_TPADDR_TYPE | IP address type |
| (183) | CHARACTER | 13 | TCTE_RES_SNA1 | Reserved |
| Overlays for Access Methods start here - extend above here Keep in step with DFHTCTZE and the LARGE definition in DFHXS1DS and DFHXS1PS | | | | |
| (190) | CHARACTER | 4 | TCTEACSA | Access method SPECIFIC OVERLAY part of SNA system area |
| VTAM SYSTEM AREA | | | | |
| (190) | ADDRESS | 4 | TCTEFMSA | Address of area to be freed |
| (194) | ADDRESS | 4 | TCTEASRA | ASYNCH TCP RESUME address |
| (198) | ADDRESS | 4 | TCTEHACP | ACTIVATE chain address |
| (19C) | FULLWORD | 4 | TCTECID | VTAM communications ID |
| (1A0) | ADDRESS | 4 | TCTEVSSC | SYST SERVICE chain address |
| (1A4) | HALFWORD | 2 | TCTELDCI | LDC index into lookup tbl |
| (1A6) | BIT(8) | 1 | TCTEPRUS | PRIMARY RU SIZE |
| (1A7) | BIT(8) | 1 | TCTESRUS | SECONDARY RU SIZE |
| (1A8) | HALFWORD | 2 | TCTESQOS | number |
| (1AA) | HALFWORD | 2 | TCTESQRP | Turnaround count field |
| (1AC) | HALFWORD | 2 | TCTESQSC | number |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------------|----------------------------|
| (1AE) | HALFWORD | 2 | TCTESQER | ERROR SEQUENCE number |
| (1B0) | HALFWORD | 2 | TCTEOAL | Maximum allowable output |
| (1B2) | HALFWORD | 2 | TCTECHMX | Maximum chain size |
| (1B4) | HALFWORD | 2 | TCTERUSZ | Maximum RU size |
| (1B6) | HALFWORD | 2 | TCTELROF | Offset of next logical REC |
| (1B8) | ADDRESS | 4 | TCTELRTA | Deblocking |
| (1BC) | ADDRESS | 4 | TCTELLDC | Local available LDC table |
| (1C0) | FULLWORD | 4 | TCTEEIDA | EXIT ID TRACE area |
| (1C0) | BIT(8) | 1 | TCTEEID0 | EXIT ID capture area |
| (1C1) | BIT(8) | 1 | TCTEEID1 | EXIT ID 1 |
| (1C2) | BIT(8) | 1 | TCTEEID2 | EXIT ID 2 |
| (1C3) | CHARACTER | 1 | TCTEMDID | MODULE identifier |
| (1C3) | BIT(8) | 1 | TCTEEID3 | EXIT ID 3 |
| (1C4) | CHARACTER | 4 | TCTECDSV | A(TEDA) if change directio |
| (1C4) | FULLWORD | 4 | TCTERCSV | Error save area |
| This area (from TCTE_TRACE_5 to TCTE_TRACE_5_LEN) is traced | | | | |
| (1C8) | CHARACTER | 57 | TCTE_TRACE_5 | TCTTE trace area 5 |
| INTERNAL ERROR CODE AREA | | | | |
| (1C8) | BIT(64) | 8 | TCTE_ZNAC_ERRCODE | BDY for CDS |
| (1C8) | BIT(16) | 2 | TCTEERI5 | Internal error code 5 |
| (1C8) | BIT(8) | 1 | TCTEVRC5 | Internal error code 5 |
| (1C9) | BIT(8) | 1 | TCTEMID5 | Prog ID for error code 5 |
| (1CA) | BIT(16) | 2 | TCTEERI6 | Internal error code 6 |
| (1CA) | BIT(8) | 1 | TCTEVRC6 | Internal error code 6 |
| (1CB) | BIT(8) | 1 | TCTEMID6 | Prog ID for error code 6 |
| (1CC) | BIT(16) | 2 | TCTEERI7 | Internal error code 7 |
| (1CC) | BIT(8) | 1 | TCTEVRC7 | Internal error code 7 |
| (1CD) | BIT(8) | 1 | TCTEMID7 | Prog ID for error code 7 |
| (1CE) | BIT(16) | 2 | TCTEERI8 | Internal error code 8 |
| (1CE) | BIT(8) | 1 | TCTEVRC8 | Internal error code 8 |
| (1CF) | BIT(8) | 1 | TCTEMID8 | Prog ID for error code 8 |
| The following two internal error code slots are for use by the DFHZERRM TYPE=OVERFLOW_1 macro call only. These slots are used as an 'overflow' when the standard four internal slots all used up. | | | | |
| (1D0) | BIT(16) | 2 | TCTEERI9 | Internal error 9 |
| (1D0) | BIT(8) | 1 | TCTEVRC9 | Internal error 9 |
| (1D1) | BIT(8) | 1 | TCTEMID9 | Prog ID for error 9 |
| (1D2) | BIT(16) | 2 | TCTEERIA | Internal error 10 (A) |
| (1D2) | BIT(8) | 1 | TCTEVRCA | Internal error 10 (A) |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------|-----------|-----|-------------------|---|
| (1D3) | BIT(8) | 1 | TCTEMIDA | Prog ID for error 10 |
| (1D4) | ADDRESS | 4 | TCTEAWEA | AWE address |
| (1D4) | ADDRESS | 4 | TCTE_CTINDATA_PTR | Pointer to CTIN data |
| ACTIVATE CHAIN REQUESTS | | | | |
| (1D8) | CHARACTER | 4 | TCTEACR | Activate request bytes |
| (1D8) | BIT(8) | 1 | TCTEACR1 | Byte 1 storage allocation |
| (1D8) | 1... | | TCTECGR | GETMAIN |
| (1D8) | .1.. | | TCTECFR | FREEMAIN |
| (1D8) | ..1. | | TCTECAT | ATTACH |
| (1D8) | ...1 | | TCTECRC | ASYNCH return of control |
| (1D8) | 1... | | TCTECRR | RESUME |
| (1D8) |1.. | | TCTERCS | RECEIVE SPECIFIC |
| (1D8) |1. | | * | Reserved |
| (1D8) |1 | | * | Reserved |
| (1D9) | BIT(8) | 1 | TCTEACR2 | Byte 2 storage allocation |
| (1D9) | 1... | | TCTECSS | SEND SYNC data flow |
| (1D9) | .1.. | | TCTECSA | SEND ASYNCH commands |
| (1D9) | ..1. | | TCTECSC | SESSIONC |
| (1D9) | ...1 | | TCTECSR | SEND response |
| (1D9) | 1... | | TCTECSR | RESETSR |
| (1D9) |1.. | | TCTEBYP | Delay ACTIVATE SCAN of TCTTE |
| (1D9) |1. | | TCTECXA | EXIT added |
| (1D9) |1 | | TCTECDT | DETACH |
| (1DA) | BIT(8) | 1 | TCTEACR3 | Byte 3 Storage Allocation |
| (1DA) | 1... | | TCTECOR | OPNDST |
| (1DA) | .1.. | | TCTECCT | CLSDST |
| (1DA) | ..1. | | TCTECTI | Automatic task initiate |
| (1DA) | ...1 | | TCTECSL | SIMLOGON |
| (1DA) | 1... | | TCTECRY | RESYNCH |
| (1DA) |1.. | | TCTECEA | NACP |
| (1DA) |1. | | TCTEDEL | AUTOINSTALL activate scan primed for delete |
| (1DA) |1 | | TCTECKR | Send response to command |
| (1DB) | BIT(8) | 1 | TCTEACR4 | Byte 4 Storage Allocation |
| (1DB) | 1... | | TCTETRA | TRACE ENTRY required |
| (1DB) | .1.. | | TCTESDL | SEND SYNC LUTYPE 6.2 |
| (1DB) | ..1. | | TCTERVL | RECEIVE SPEC LUTYPE 6.2 |
| (1DB) | ...1 | | TCTEXRC | XRF Session state analys. |
| (1DB) | 1111 | | * | ZACT reserved |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|----------------------------------|
| (1DC) | BIT(8) | 1 | TCTERIND | Internal error indicators |
| (1DC) | 1... | | TCTERFB | VTAM FEEDBACK available |
| (1DC) | .1.. | | TCTERLS | SEND required after LUS |
| (1DC) | ..1. | | TCTERLR | RECEIVE required after LUS |
| (1DC) | ...1 | | TCTESRV | REMEMBER user RECEIVE flag |
| (1DC) | 1... | | TCTECDH | HARD SIGNAL RCD received |
| (1DC) |1.. | | * | reserved |
| (1DC) |1. | | TCTERDS | RECEIVE req'd after dvend |
| (1DC) |1 | | TCTERDR | SEND required after dvend |
| (1DD) | BIT(8) | 1 | TCTEVPAC | V-PACING constant |
| (1DE) | BIT(8) | 1 | * | reserved |
| (1DF) | BIT(8) | 1 | TCTEVIR1 | Byte 1 storage allocation |
| PACING AND RU COUNT BYTES VTAM INTERNAL REQUESTS for ZSDS ROUTINE | | | | |
| (1DF) | 1... | | TCTECHS | CHASE |
| (1DF) | .1.. | | TCTECNCL | CANCEL |
| (1DF) | ..1. | | TCTEQCM | QUIESCE complete |
| (1DF) | ...1 | | TCTECBD | BID |
| (1DF) | 1... | | TCTELUS | Logical unit status |
| (1DF) |1.. | | TCTESXC | SEND COMMAND EXCEPTION |
| (1DF) |1. | | TCTERTR | RTR |
| (1DF) |1 | | TCTETBIS | BIS SEND REQUEST |
| (1E0) | BIT(8) | 1 | TCTEVIR2 | Byte 2 storage allocation |
| (1E0) | 1... | | TCTECLR | CLEAR |
| (1E0) | .1.. | | TCTESDT | Start data traffic |
| (1E0) | ..1. | | TCTESTSN | SET AND TEST sequence number |
| (1E0) | ...1 | | TCTESNU | SEND zero data length |
| (1E0) | 1... | | TCTEDR2 | DR2 requested |
| (1E0) |1.. | | TCTESAB | STAND ALONE BB required for 3270 |
| (1E0) |1. | | TCTEBSS | BEGIN BRACKET request |
| (1E0) |1 | | TCTEES | END BRACKET request |
| (1E1) | BIT(8) | 1 | TCTEVIR3 | Byte 3 Storage Allocation |
| (1E1) | 1... | | TCTERSP | RECEIVE SPECIFIC |
| (1E1) | .1.. | | TCTEWDA | SEND DATA |
| (1E1) | ..1. | | TCTESCM | SEND COMMAND |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------|-----------|-----|------------|----------------------------------|
| (1E1) | ...1 | | TCTEORSP | SEND RESP type 0=+ VE 1=-VE |
| (1E1) | 1... | | TCTEDCA | Change to CA mode |
| (1E1) |1.. | | TCTERAT | Read attention |
| (1E1) |1. | | TCTECWT | CTYPE wait request |
| (1E1) |1 | | TCTESXD | SEND DATA EXCEPTION |
| (1E2) | BIT(8) | 1 | TCTEVIR4 | Byte 4 storage allocation |
| (1E2) | 1... | | TCTECRP | GETMAIN - RPL |
| (1E2) | .1.. | | TCTECTA | GETMAIN - TIOA |
| (1E2) | ..1. | | TCTECRAS | GETMAIN - RECEIVE ANY |
| (1E2) | ...1 | | TCTEGNB | GETMAIN - NIB/BIND |
| (1E2) | 1... | | TCTEGBF | GETMAIN - BUFFLST |
| (1E2) |1.. | | TCTEGLC | GETMAIN - LUC control blocks |
| (1E3) | BIT(8) | 1 | TCTEVIR5 | Byte 5 storage allocation |
| (1E3) | 1... | | TCTERPL | FREEMAIN - RPL |
| (1E3) | .1.. | | TCTECF A | FREEMAIN - all |
| (1E3) | ..1. | | TCTECF S | FREEMAIN - specific |
| (1E3) | ...1 | | TCTEFNB | FREEMAIN - NIB/BIND |
| (1E3) | 1... | | TCTEFBF | FREEMAIN - BUFFLST |
| (1E3) |1.. | | TCTEFLC | FREEMAIN - LUC control blocks |
| (1E3) |1. | | TCTEFNL | FREEMAIN - EXTR'D LOGON data |
| (1E3) |1 | | TCTEFRS | FREEMAIN - RPL specific |
| (1E4) | BIT(8) | 1 | TCTEVIR6 | Byte 6 storage allocation |
| (1E4) | 1... | | TCTECTS | Use symbol name for CLSDST |
| (1E4) | .1.. | | TCTECVI | IMMEDIATE availability |
| (1E4) | ..1. | | TCTECVD | DEFERRED availability |
| (1E4) | ...1 | | TCTEPAS | CLSDST pass |
| (1E4) | 1... | | TCTECVR | BID rejected |
| (1E4) |1.. | | TCTEBWD | BIDDING with data |
| (1E4) |1. | | TCTEPRT | RTR SEND pending |
| (1E4) |1 | | TCTESWT | XRF SWITCH required |
| (1E5) | BIT(8) | 1 | TCTERSRR | Byte 7 storage allocation |
| (1E5) | 11.. | | TCTERCMO | CONTINUE mode |
| (1E5) | ..11 1... | | * | |
| (1E5) |1.. | | TCTERUB | Reject RU until BB |
| (1E5) |11 | | TCTERMOD | RECEIVE mode |
| SYSTEM SERVICE QUEUE FLAG | | | | |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-----------|-----|------------|-------------------------------|
| (1E6) | BIT(8) | 1 | TCTEISSQ | Byte storage allocation |
| (1E6) | 1... | | TCTESNQ | System error queue |
| (1E6) | .1.. | | * | Reserved |
| (1E6) | ..1. | | * | Reserved |
| (1E6) | ...1 | | TCTEOPQ | On Activate Process Queue |
| (1E6) | 1... | | * | |
| (1E6) |1.. | | * | |
| (1E6) |1. | | * | |
| (1E6) |1 | | * | |
| EMW REQUEST AND STATUS FLAGS | | | | |
| (1E7) | BIT(8) | 1 | TCTEEMF | Byte Storage Allocation |
| (1E7) | 1... | | TCTEPUR | PURGE request |
| (1E7) | .1.. | | TCTESEM | SEND MESSAGE request |
| (1E7) | ..1. | | TCTESNR | SEND NEGATIVE response |
| (1E7) | ...1 | | * | |
| (1E7) | 1... | | * | |
| (1E7) |1.. | | * | |
| (1E7) |1. | | TCTEEMW | Error message writer active |
| (1E7) |1 | | * | |
| RECEIVE flags | | | | |
| (1E8) | BIT(8) | 1 | * | Byte storage allocation |
| (1E8) | 1... | | TCTERVR | RECEIVE a response |
| (1E8) | .1.. | | TCTERVD | RECEIVE data |
| (1E8) | ..1. | | TCTERBP | BID PURGE in progress |
| (1E8) | ...1 | | TCTERRU | RECEIVE and PURGE ONE RU |
| (1E8) | 1... | | TCTEXSC | SDT after clear required |
| (1E8) |1.. | | TCTEXPU | XRF RECEIVE PURGE |
| (1E8) |1. | | TCTEQRQ | QRI-type response is queued * |
| (1E8) |1 | | TCTENRQ | NORMAL response is queued |
| (1E9) | BIT(8) | 1 | TCTEIXRP | XRF Flags |
| (1E9) | 1... | | TCTEXNR | XRF Term not Recovered |
| (1E9) | .1.. | | TCTEXRM | XRF Recovery Msg reqd |
| (1E9) | ..1. | | TCTEXRT | XRF Recovery Tranact reqd |
| (1E9) | ...1 | | TCTEXPT | XRF Purge task |
| (1E9) | 1111 | | TCTEXCC | Cleanup Action flags |
| (1E9) | 1... | | TCTEXNO | Cleanup Action is NONE |
| (1E9) |1.. | | TCTEXEB | Cleanup Action is SEND-EB |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-------------------------------|
| (1E9) |1. | | TCTEXCL | Cleanup Action is CLEAR/SDT * |
| (1E9) |1 | | TCTEXUB | Cleanup Action is UNBIND |
| ASYNCH REQUEST FLAGS for use BY ZSDA /ZSAX only | | | | |
| (1EA) | BIT(8) | 1 | * | ASYNCHRONOUS request byte |
| (1EA) | 1... | | * | |
| (1EA) | .1.. | | * | |
| (1EA) | ..1. | | TCTERSH | Request SHUTDOWN |
| (1EA) | ...1 | | TCTEESG | E-SIGNAL |
| (1EA) | 1... | | TCTETSBI | SBI SEND request |
| (1EA) |1.. | | TCTERLSQ | RELEASE QUIESCE |
| (1EA) |1. | | TCTEQEOC | QUIESCE at end of chain |
| (1EA) |1 | | TCTERSD | Request SHUTDOWN |
| (1EB) | BIT(8) | 1 | TCTELTEC | LOSTERM Error code |
| LRP REQUEST AND STATUS FLAGS | | | | |
| (1EC) | BIT(8) | 1 | TCTELRPF | Byte Storage Allocation |
| (1EC) | 1... | | TCTELRP | Logical REC PRESENTATION |
| (1EC) | .1.. | | TCTELRD | Deblock in progress |
| (1EC) | ..1. | | TCTELRN | No delimiter in input unit |
| (1EC) | ...1 | | * | |
| (1EC) | 1... | | TCTELRC | SAVE flag for EOC indicator |
| (1EC) |1.. | | TCTELRZ | SAVE flag for EODS indicator |
| VTAM PROCESS STATUS OPERATION IN PROGRESS | | | | |
| (1ED) | BIT(8) | 1 | TCTEVTPS | Byte storage allocation |
| (1ED) | 1... | | TCTECIP | COMMAND in progress |
| (1ED) | .1.. | | TCTEDIP | DATA in progress |
| (1ED) | ..1. | | TCTEAIP | ATI BID in progress |
| (1ED) | ...1 | | TCTENIP | NACP in progress |
| (1ED) | 1... | | TCTERSI | RESYNCH/RECOVERY in progress |
| (1ED) |1.. | | TCTECAP | CHAIN ASSEMBLY in progress |
| (1ED) |1. | | TCTERNW | INPUT JOURNAL required flag |
| (1ED) |1 | | TCTECCV | 1=TASK VIA AVAIL, 0=VIA INPUT |
| (1EE) | BIT(8) | 1 | TCTEVOP2 | Byte 2 Storage Allocation |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------|-----------|-----|------------|-------------------------------------|
| (1EE) | 1... | | TCTEDRQ | Data required after STAND ALONE FMH |
| (1EE) | .1.. | | * | Reserved |
| (1EE) | ..1. | | TCTEQE2 | RESP + to REQ2 outstanding |
| (1EE) | ...1 | | TCTENND | No normal data flow allowed |
| (1EE) | 1... | | TCTERAQ | READ-AHEAD QUEUEING required |
| (1EE) |1.. | | TCTERAD | READ-AHEAD DATA available |
| (1EE) |1. | | TCTERAP | READ-AHEAD PURGE required |
| (1EE) |1 | | TCTERVVP | RECEIVE PURGE required |
| NODE SESSION STATUS | | | | |
| (1EF) | BIT(8) | 1 | TCTEVTSS | Node session status one byte |
| (1EF) | 111. | | TCTENIS | Node is now is session |
| (1EF) | 1... | | TCTELOS | LOGGED on |
| (1EF) | .1.. | | TCTEOPD | OPNDST |
| (1EF) | ..1. | | TCTENSD | Start data traffic sent |
| (1EF) | ...1 | | TCTESLP | SIMLOGON in progress |
| (1EF) | 1... | | TCTEREO | RESPONSE outstanding |
| (1EF) |1.. | | * | Reserved |
| (1EF) |1. | | TCTESHP | SHUTDOWN sent by CICS |
| (1EF) |1 | | TCTERELR | RELEASE request received |
| (1F0) | BIT(8) | 1 | TCTEVTSS2 | Node session status byte 2 |
| (1F0) | 1... | | TCTENQS | Node QUIESCED by CICS |
| (1F0) | .1.. | | TCTEHQS | CICS QUIESCED by node |
| (1F0) | ..1. | | TCTECSM | Mode (CS=X'20' CA= 'X'20') |
| (1F0) | ...1 | | TCTEOLD | OVERLENGTH data |
| (1F0) | 1... | | TCTEBPE | BRACKET PROTOCOL required |
| (1F0) |1.. | | TCTEERS | EMERGENCY restart |
| (1F0) |1. | | TCTEPSA | PREVIOUS SESSION ABEND |
| (1F0) |1 | | TCTERPR | RESYNCHRONIZATION required |
| SESSION CHARACTERISTICS | | | | |
| (1F1) | BIT(8) | 1 | TCTEVISL | Byte storage allocation |
| (1F1) | 1... | | TCTEERL | Eligible to be released |
| (1F1) | .1.. | | TCTIQSL | SIMLOGON to be queued |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------|-----------|-----|------------|---|
| (1F1) | ..1. | | TCTEDRI | Eligible to be disconnected |
| (1F1) | ...1 | | TCTEXCA | Current session is XRF-capable * |
| (1F1) | 1... | | TCTEXCM | EXC. RESP. Commands valid |
| (1F1) |1.. | | TCTEXRE | Take-over must reconnect by switch or BIND as appropriate * |
| (1F1) |1. | | TCTEXCS | Last OPNDST was OPTCD=BACKUP * |
| (1F1) |1 | | TCTECAR | Chain assembly requested by terminal |
| PENDING EVENT STATUS | | | | |
| (1F2) | BIT(8) | 1 | TCTEVIPS | Byte storage allocation |
| (1F2) | 1... | | TCTEORRN | Pending RRN response |
| (1F2) | .1.. | | TCTEOFME | Pending FME response |
| (1F2) | ..1. | | TCTEBNS | BIND TIME security undefined |
| (1F2) | ...1 | | TCTEPRA | Awaiting POSITIVE response |
| (1F2) | 1... | | TCTEOEXM | Response (0=+ VE & -VE 1=-VE) |
| (1F2) |1.. | | * | Reserved |
| (1F2) |1. | | TCTEQRI | QRI type response |
| (1F2) |1 | | TCTEDEF | DEFINITE response send in progress (was TCTEDRS) |
| (1F3) | BIT(8) | 1 | TCTEVIP2 | Byte 2 storage allocation |
| (1F3) | 1... | | TCTEWGS | Task Awaiting for INBOUND SIGNAL |
| (1F3) | .1.. | | TCTELGX | LOGON EXIT in progress |
| (1F3) | ..1. | | * | Reserved |
| (1F3) | ...1 | | TCTECDS | CHANGE DIRECTION sent |
| (1F3) | 1... | | TCTECMT | RESPOND POSITIVE to SPR |
| (1F3) |1.. | | TCTESQA | Start task REQ no active request |
| (1F3) |1. | | TCTESEO | EXCEPTION response outstanding |
| (1F3) |1 | | TCTECDV | CHANGE DIRECTION save TIOA |
| BRACKET PROTOCOL STATUS | | | | |
| (1F4) | BIT(8) | 1 | TCTEVBPS | Byte Storage Allocation |
| (1F4) | 1... | | TCTEINB | In BRACKET state |
| (1F4) | .1.. | | TCTEBBP | BEGIN BRACKET pending |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-----------|-----|------------|---------------------------------|
| (1F4) | ..1. | | TCTEEEB | BB EB sent state |
| (1F4) | ...1 | | TCTEBBS | BEGIN BRACKET sent |
| (1F4) | 1... | | TCTEEBS | END BRACKET sent |
| (1F4) |1.. | | TCTEBBR | BEGIN BRACKET received |
| (1F4) |1. | | TCTEBBA | BEGIN BRACKET receive |
| (1F4) |1 | | TCTEBTB | BETWEEN BRACKETS |
| EXTENDED BRACKET STATE FLAGS | | | | |
| (1F5) | BIT(8) | 1 | * | |
| (1F5) | 1... | | TCTERTP | RTR pending state |
| (1F5) | .1.. | | TCTEBRT | BID TO BE RETRIED indicator |
| (1F5) | ..1. | | TCTEBRP | BIDDING in progress |
| (1F5) | ...1 | | TCTEBRS | REBID if necessary |
| (1F5) | 1... | | TCTETBR | TERMINATE BRACKET |
| (1F5) |1.. | | TCTEEBM | END BRACKET memory flag |
| (1F5) |1. | | TCTEEBR | EB received |
| (1F5) |1 | | TCTEBEB | BB EB received state |
| ZRAC flag byte | | | | |
| (1F6) | BIT(8) | 1 | * | |
| (1F6) | 1... | | TCTERNU | NULL RU / LUS 6 received |
| (1F6) | .1.. | | TCTERCM | Command received |
| (1F6) | ..1. | | TCTERDT | Data received |
| (1F6) | ...1 | | TCTERRS | Response received |
| (1F6) | 1... | | TCTEBSC | BIND security complete |
| (1F6) |1.. | | TCTERAЕ | ZRAC to EXECUTE |
| (1F6) |1. | | TCTERAN | ZRAC possibly to RUN |
| (1F6) |1 | | TCOTESKI | ZRAC to SKIP |
| TRANSMISSION PROTOCOL STATUS | | | | |
| (1F7) | BIT(8) | 1 | TCTEVTP | Byte storage allocation |
| (1F7) | 1... | | TCOTESMP | SEND mode pending |
| (1F7) | .1.. | | TCTEPRC | Processing chain state |
| (1F7) | ..1. | | TCOTESMA | SEND mode assumed |
| (1F7) | ...1 | | TCOTESMD | SEND mode |
| (1F7) | 1... | | TCTEECN | OUTBOUND processing chain state |
| (1F7) |1.. | | TCTEABD | ABNORMAL END condition |
| (1F7) |1. | | TCTERMD | RECEIVE mode |
| (1F7) |1 | | TCTECPG | CHAIN PURGED indicator |
| CLSDEST STATUS | | | | |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|----------------------------|
| (1F8) | BIT(8) | 1 | TCTECLST | CLSDEST status byte |
| (1F8) | 1... | | TCTESBIS | SBI sent |
| (1F8) | .1.. | | TCTEMTO | TERM issued SHUTDOWN |
| (1F8) | ..1. | | TCTEBISI | BIS SEND in progress |
| (1F8) | ...1 | | TCTEFBIS | First BIS was sent by us |
| (1F8) | 1... | | * | |
| (1F8) |1.. | | TCTESBIR | SBI received |
| (1F8) |1. | | TCTEBISS | BIS sent |
| (1F8) |1 | | TCTEBISR | BIS received |
| SEND RESPONSE TO COMMAND REQUEST | | | | |
| (1F9) | BIT(8) | 1 | * | |
| (1F9) | 1... | | TCTEKNE | SEND NEGATIVE response |
| (1F9) | .1.. | | TCTEKSD | SEND SDT response |
| (1F9) | ..1. | | TCTEKBD | SEND BIND response |
| (1F9) | ...1 | | TCTEKCA | SEND SMD response CA mode |
| (1F9) | 1... | | TCTEKST | SEND STSN response |
| (1F9) |1.. | | TCTESUS | Suspend activate scan |
| (1F9) |1. | | TCTERMIC | response to MIC sent |
| LUTYPE6.2 State Machines | | | | |
| (1FA) | BIT(8) | 1 | TCTEUSRS | CONVERSATION state machine |
| (1FB) | BIT(8) | 1 | TCTEBKTS | BRACKET state machine |
| (1FC) | BIT(8) | 1 | TCTECNTS | CONTENTION state machine |
| (1FD) | BIT(8) | 1 | TCTECHSS | CHAIN state machine |
| (1FE) | BIT(8) | 1 | TCTEACC | ACC FIELDS required |
| (1FE) | 1... | | TCTEACC1 | ACC field 1 required |
| (1FE) | .1.. | | TCTEACC2 | ACC field 2 required |
| (1FE) | ..1. | | TCTEACC3 | ACC field 3 required |
| (1FE) | ...1 | | TCTEACC4 | ACC field 4 required |
| (1FE) | 1... | | TCTEACC5 | ACC field 5 required |
| (1FE) |1.. | | TCTEACC6 | ACC field 6 required |
| (1FE) |1. | | TCTEACC7 | ACC field 7 required |
| (1FE) |1 | | TCTEACC8 | ACC field 8 required |
| The following byte is in the SAME format as the BIND RU | | | | |
| (1FF) | CHARACTER | 1 | TCTESSPL | SPL, LU_SVC byte DEF |
| (1FF) | 1... | | * | |
| (1FF) | .1.. | | TCTESP2 | --- all |
| (1FF) | ..1. | | TCTESP1 | --- commit |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------------|------------------------------|
| (1FF) | ...1 | | TCTERS1 | --- restart supported |
| (1FF) | 1... | | * | SECONDARY REINIT |
| (1FF) |1.. | | * | PRIMARY REINIT |
| (1FF) |1. | | TCTEPAR | PARALLEL SESSION |
| (1FF) |1 | | TCTECNO | CNOS supported |
| (200) | BIT(8) | 1 | TCTEL62A | LUTYPE 6.2 MISCELLANY |
| (200) | 1... | | TCTESBB | CURR BB SEQ NO = OURS |
| (200) | .1.. | | TCTENIT | We Init'd session |
| (200) | ..1. | | TCTEESR | ext. sec. recvd in BIND |
| (200) | ...1 | | TCTENOB | No BB for this allocate |
| (200) | 1... | | * | |
| (200) |1.. | | * | |
| (200) |1. | | TCTE_LR | Limited Resource |
| (200) |1 | | * | |
| TCTE_TRACE_5_LEN End of TCTE trace area 5 | | | | |
| The next byte is used to save pending User SYNCPT INFO | | | | |
| (201) | BIT(8) | 1 | TCTEUSRV | TCTEUSRS pending info |
| (202) | UNSIGNED | 1 | TCTE_ZBAN_RESPONSE | Response for ZNAC msg |
| (203) | UNSIGNED | 1 | TCTE_ZBAN_REASON | Reason for ZNAC msg |
| (204) | ADDRESS | 4 | TCTTEMOD | -> Mode-entry |
| (204) | ADDRESS | 4 | TCTE_PREV_APPC_SURROG | Next PS APPC surrog |
| (208) | ADDRESS | 4 | TCTE_ACQUIRE_DATA | Acquire userdata |
| (20C) | ADDRESS | 4 | TCTEBIMG | -> BIND-image |
| (210) | BIT(8) | 1 | * | Reserved |
| XRF Flags | | | | |
| (211) | BIT(8) | 1 | * | |
| (211) | 1... | | TCTEXON | No tracking |
| (211) | .1.. | | TCTEXOD | Cleanup : Send END BRACKET * |
| (211) | ..1. | | TCTEXOC | Cleanup : Issue CLEAR cmd |
| (211) | ...1 | | TCTEXOR | Cleanup : UNBIND session |
| (211) | 1... | | TCTEXOT | Unconditional UNBIND |
| (211) |1.. | | TCTEXNN | RecovNotify = None |
| (211) |1. | | TCTEXNM | RecovNotify = Message |
| (211) |1 | | TCTEXNT | RecovNotify = Transaction |
| XRF Flags, gathered up from other areas | | | | |
| (212) | BIT(8) | 1 | * | Misc XRF Bits |
| (212) | 1... | | TCTEXNG | NETNAME removed from TMP |
| (212) | .1.. | | TCTEXSB | OPNDST is to be STANDBY |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-----------|-----|-----------------------|--|
| (212) | ..1. | | TCTEXSW | XRF Analyse R(Switch) |
| (212) | ...1 | | TCTEXNC | XRF ZNAC Recovery Process |
| (212) | 1... | | * | Reserved |
| (212) |1.. | | * | Reserved |
| (212) |1. | | TCTEXS1 | Takeover signon flag OFF = NOFORCE, ON = FORCE |
| (212) |1 | | TCTEXRO | XRF - Override XRF capable if set to 1 it stops the XRF vector being created subsequent to the logon exit. |
| TC TE ACQUIRE OPTIONS | | | | |
| (213) | BIT(8) | 1 | TC TE_ACQUIRE_OPTIONS | Acquire options |
| (213) | 1... | | TC TE_SIMLOG_RQD | SIMLOGON reques |
| (213) | .1.. | | TC TE_QALL_RQD | QALL option |
| (213) | ..1. | | TC TE_QSESSLIM_RQD | QSESSLIM option |
| (213) | ...1 | | TC TE_QNOTENAB_RQD | QNOTENAB OPTION |
| (213) | 1... | | TC TE_RELREQ_RQD | RELREQ option |
| (213) |111 | | * | Reserved |
| SESSION FUNCTIONS DEFINITION | | | | |
| (214) | FULLWORD | 4 | * | Ensure alignment |
| (214) | BIT(8) | 1 | TCTETSPB | Terminal session pool byte |
| (214) | 1... | | TCTEXSL | Standby LOGON pending |
| (214) | .1.. | | TCTESPLI | Pool/session leader |
| (214) | ..1. | | TCTETPSI | Session terminal indicator |
| (214) | ...1 | | TC TE_CLE | CLSDST cleanup ended |
| (214) | 1... | | TC TEPTI | Pool terminal indicator |
| (214) |1.. | | TC TEXSN | Standby session counted |
| (215) | BIT(8) | 1 | * | |
| (215) | 1... | | TC TEPTBI | Indicator |
| (215) | .1.. | | TC TEPRQ | PROGRAM request indicator |
| (215) | ..1. | | TC TEOWCI | ON WRITE COMPLETEDIND. |
| (215) | ...1 | | TCTENCD | CD NOT REQUIRED |
| (215) | 1... | | TC TE_ZCNIBISC | Nib gotten from ZCNIBISC |
| (215) |1.. | | TCTERLM | Resume after LUSTAT |
| (215) |1. | | TC TE_REM_EOD | Remember no EOD sup't |
| (215) |1 | | TC TE_REM_FRI | Remember No FMH req'd |
| (216) | BIT(8) | 1 | TCTESFFB | Session feature flag byte |
| (216) | 1... | | TC TECSNI | CSSN feature indicator |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (216) | .1.. | | TCTEFUP | Pass FMH to User |
| (216) | ..1. | | TCTESNS | SIMLOGON INVALID indicator |
| (216) | ...1 | | TCTELIRI | LUSTATUS sent after IR |
| (216) | 1... | | TCTEVTSI | VTAM supported 3270 indicator |
| (216) |1.. | | TCTECPMI | 3270 COMPATIBILITY mode IND |
| (216) |1. | | TCTEGMMI | GOOD MORNING message required |
| (216) |1 | | TCTERYCF | RECOVERY requires CLSDST |
| (217) | BIT(8) | 1 | * | Session function definition |
| (217) | 1... | | TCTECSRI | COLD START request indicator |
| (217) | .1.. | | TCTEEOD | No EOD support indicator |
| (217) | ..1. | | TCTENOCI | No output chain support IND |
| (217) | ...1 | | TCTENASI | No ATI support terminal |
| (217) | 1... | | TCTENFRI | No FMH required indicator |
| (217) |1.. | | TCTENFSI | No FMH support terminal |
| (217) |1. | | TCTESEB | END BRACKET on every write |
| (217) |1 | | TCTESDA | CONTINUE ANY on every write |
| (218) | BIT(8) | 1 | TCTESD2 | Byte Storage Allocation |
| (218) | 1... | | TCTESDBP | HALF-DUPLEX FLIP-FLOP |
| (218) | .1.. | | TCTESDEM | EMW - type session |
| (218) | ..1. | | TCTESDLD | LDC - type session |
| (218) | ...1 | | TCTENQCI | No QEC supported on output |
| (218) | 1... | | TCTESDED | SEND EB with DEFINITE response required |
| (218) |1.. | | TCTESDIS | INBOUND SIGNAL supported |
| (218) |1. | | TCTESBDI | LONG TYPE1 FMH supported |
| (218) |1 | | TCTETRC | Trace ACTIVATE SCAN |
| (219) | BIT(8) | 1 | TCTESD3 | Byte Storage Allocation |
| (219) | 1... | | TCTES2EB | SECONDARY can SEND EB |
| (219) | .1.. | | TCTESRPI | SENDER ERP RESPONSIBILITY |
| (219) | ..1. | | TCTESBIF | SBI/BIS supported |
| (219) | ...1 | | TCTEFNSP | SPR supported |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (219) | 1... | | TCTEFNPR | PREPARE supported |
| (219) |1.. | | TCTEFLUS | LUSTAT SENDING supported |
| (219) |1. | | TCTEFST | FAST PATH session |
| (219) |1 | | TCTENCK | BB, EB supported |
| (21A) | CHARACTER | 2 | TCTEINSH | |
| (21A) | BIT(8) | 1 | TCTESD4 | Byte Storage Allocation |
| (21A) | 1... | | TCTENDT | No SDT supported |
| (21A) | .1.. | | TCTENSH | No SHUTD support |
| (21A) | ..1. | | TCTEQRS | QRI response supported |
| (21A) | ...1 | | TCTECDX | SEND CD with RQE |
| (21A) | 1... | | TCTEBID | NULL RU with BB = BID |
| (21A) |1.. | | TCTESDN | SIGNAL will drive NACP |
| (21A) |1. | | TCTEESC | Enforce HARD SIGNAL RCD |
| (21A) |1 | | TCTECON | Contention logical unit |
| (21B) | BIT(8) | 1 | TCTESD5 | Byte Storage Allocation |
| (21B) | 1... | | TCTERIB | RESET state is INB |
| (21B) | .1.. | | TCTEPSS | PRIMARY SEND state at session initiation |
| (21B) | ..1. | | TCTEL06 | NULL RU = LUSTAT 0006 |
| (21B) | ...1 | | TCTESQI | QRI supported |
| (21B) | 1... | | TCTEL07 | LUSTAT 0007 not THR ZNAC |
| (21B) |1.. | | * | |
| (21B) |11 | | TCTESTL | SECONDARY RECEIVE STACK where B'00' = 1-Level where B'01' = 2-Level where B'10' is Reserved where B'11' = 3-level |
| (21C) | BIT(8) | 1 | * | byte storage allocation |
| (21C) | 1... | | TCTEEBX | EB DEFINITE if OUTSTAND REQ |
| (21C) | .1.. | | TCTERIR | CICS responsible for reinitiation |
| (21C) | ..1. | | TCTERIN | CICS may not Reinitiate |
| (21C) | ...1 | | TCTESTR | Do not send RTR |
| (21C) | 1... | | TCTERIS | Re-initiate pending |
| (21C) |1.. | | TCTENBK | Bracket(No) |
| (21D) | BIT(8) | 1 | TCTELSB | LU-type subsetting flags B * |
| (21D) | 1... | | TCTELS25 | LU-type subsetting bit 25 |
| (21D) | .1.. | | TCTELS26 | LU-type subsetting bit 26 |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------------------|---------------------------------------|
| (21D) | ..1. | | TCTELS27 | LU-type subsetting bit 27 |
| (21D) | ...1 | | TCTELS28 | LU-type subsetting bit 28 |
| (21D) | 1... | | TCTELS29 | LU-type subsetting bit 29 |
| (21D) |1.. | | TCTELS30 | LU-type subsetting bit 30 |
| (21D) |1. | | TCTELS31 | LU-type subsetting bit 31 |
| (21D) |1 | | TCTELS32 | LU-type subsetting bit 32 |
| (21E) | BIT(8) | 1 | TCTEACT | In transmission |
| (21F) | BIT(8) | 1 | TCTECLIM | Transmission |
| (220) | ADDRESS | 4 | TCTESPPA | Session pool address |
| (220) | ADDRESS | 4 | TCTETPPA | Terminal pool address |
| VTAM 3270 CONTROL INFORMATION | | | | |
| (224) | BIT(8) | 1 | * | Byte storage allocation |
| (224) | 1... | | TCTEEXI | EXCEPTIONAL input received |
| (224) | .1.. | | TCTEXIP | EXCEPTIONAL input program in progress |
| (224) | ..1. | | TCTEPRP | PRINT command in progress |
| (224) | ...1 | | TCTEINT | INTERVENTION required |
| (224) | 1... | | TCTERRT | RESTORE read with TEXT |
| (224) |1.. | | TCTERRI | RESTORE read indicator |
| (224) |1. | | TCTECPY | PRINTTO=(X, COPY) |
| (224) |1 | | TCTECPA | ALTPRT=(X, COPY) |
| MISCELLANEOUS control information. | | | | |
| (225) | BIT(8) | 1 | * | |
| (225) | 1... | | TCTEHOR | Handling own errors |
| (225) | .1.. | | TCTEWPD | BMS input passthrough |
| (225) | ..1. | | TCTERED | EDS FMH received |
| (225) | ...1 | | TCTEF12 | Awaiting receipt of FMH 12 |
| (225) | 1... | | TCTEDLG | LOGON with OPNDST active |
| (225) |1.. | | TCTETIA | Send buffer is a TIOA |
| (225) |1. | | TCTEBIR | BIND received |
| (225) |1 | | TCTEUBR | UNBIND received |
| Persistent Sessions State machine - see constants for values | | | | |
| (226) | BIT(8) | 1 | TCTE_PRSS | Persistent Sessions State |
| Generic resource flags | | | | |
| (227) | BIT(8) | 1 | TCTE_GR_FLAGS | Generic Resource flags |
| (227) | 1... | | TCTE_GR_LOGGEDON_BY_MEMBERNAME | terminal used member name to log on |

Table 569. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------|----------------------------------|
| Correlation ID The correlation ID for non-LUC terminals is as follows The correlation ID for LUC terminals is contained in the LUC extension | | | | |
| (228) | CHARACTER | 8 | TCTECORR | Correlation ID |
| TCTTENNM is used during deletion of an autoinstalled terminal to hold the Terminal Netname. The field is set in DFHBSTZV prior to Freemaining the NIB, and used in DFHBSSUB during Statistics collection. | | | | |
| (228) | CHARACTER | 8 | TCTTENNM | Netname Copy |
| (230) | CHARACTER | 8 | TCTTETIM | STCK logon time |
| (238) | ADDRESS | 4 | TCTEBFLA | VTAM buffer list address |
| (23C) | ADDRESS | 4 | TCTE_PRSS_CV29_PTR | Last PRSS flows etc |
| (240) | ADDRESS | 4 | TCTELUCX | A(TCTTE LUC Extension) |
| (240) | CHARACTER | 0 | TCTEPIPE | PIPELINE overlay |
| (244) | CHARACTER | 0 | TCTESESS | Session overlay |
| VTAM 3270 SYSTEM AREA EXISTS only for VTAM 3270 and 3270 COMPATIBILITY mode | | | | |
| (244) | CHARACTER | 4 | TCTEPTO | PRINTTO name |
| (248) | CHARACTER | 4 | TCTEAPT | ALTPRT name |
| (24C) | ADDRESS | 4 | TCTEFRM | Source-terminal address for copy |
| PRINTER and Alternate Printer Netnames for VTAM 3270 | | | | |
| (250) | CHARACTER | 8 | TCTEPNET | Printer Netname |
| (258) | CHARACTER | 8 | TCTEANET | Alternate Printer Netname |
| Length of ZC Terminals | | | | |
| (260) | CHARACTER | 64 | * | Reserved |
| (2A0) | CHARACTER | 0 | TCTEGET1 | Length for ZC terminals |
| (2A0) | CHARACTER | 0 | TCTEGET2 | Length for ZC terminals |

 Overlay part of the TCTTE with the three session types.
 NB. This code is shared assembler code and matches
 corresponding assembler DSECTS.

Table 570.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------------------------------|-----|------------|-------------|
| (148) | STRUCTURE | 31 | CR_COMMON | |
| (148) | STRUCTURE IsA(RMC_ SHARED) | 31 | * | |
| (148) | STRUCTURE IsA(RMC_ COMMON) | 20 | * | |

Table 570. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---|-----|-------------------------|------------------------------------|
| (148) | STRUCTURE IsA(DFHCRESL_ STATE) | 10 | * | |
| This is the token returned by ADD_LINK, and represents &rm..s link state. It is supplied to &rm..on subsequent calls. ----- | | | | |
| (148) | BIT(32) | 4 | CR_CURRENT_LINK | |
| This field is used to keep &rm..s token for a link which we have deleted but not forgotten (ie. the conversation has gone out of bracket, but the implicit forget flow has not been received yet). In addition to this field, there is a flag to indicate that we have set FORGET(NO) in response to PERFORM_COMMIT, and are therefore obliged to inform &rm..that he can forget the link status on the next inbound flow (or that he must remember the link status if the session is lost). Also, there is a flag to indicate that the session is a 'dummy', in the sense that a DFHRMLNM ADD_LINK has not been issued for the session. This happens for MRO sessions which are used to perform bind processing (DFHCRR). Bind sessions do not need recovery manager actions, and do not participate in syncpoint (even in failure situations). There can be many concurrent bind sessions at start of day, and if we were to issue ADD_LINKs for all of them, then RM could be swamped. ----- | | | | |
| (14C) | BIT(32) | 4 | CR_PENDING_LINK | |
| (150) | 1... | | CR_FORGET_NEEDED | |
| (150) | .1.. | | CR_DUMMY_LINK | |
| (150) | ..11 1111 | | * | |
| The PENDING mechanism for adding/setting links is managed by a new piece of state, CR_PEND_RECOVERY_STATUS, associated with the session. ----- | | | | |
| (151) | UNSIGNED | 1 | CR_PEND_RECOVERY_STATUS | |
| (152) | STRUCTURE IsA(RMC_ COMMON_ LOGNAME) | 9 | * | |
| (152) | CHARACTER | 9 | CR_LOGNAME | |
| (152) | UNSIGNED | 1 | CR_LOGNAME_LEN | |
| (153) | CHARACTER | 8 | CR_LOGNAME_DATA | |
| (15B) | STRUCTURE IsA(REMEMBERED_ STATE) | 1 | * | |
| (15B) | 1... | | CR_2PC_SESS_FAIL | sess fail sending Prepare \| SPR |

Table 570. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---|-----|-----------------------|--|
| (15B) | .1.. | | CR_SHUNT_RECEIVED | |
| (15B) | ..1. | | CR_ABORT_RECEIVED | |
| (15B) | ...1 | | CR_ABORT_FORBIDDEN | |
| (15C) | STRUCTURE IsA(RMC_ SHARED_ IRC61) | 9 | * | |
| (15C) | STRUCTURE IsA(SEQUENCE_ NUMBERS) | 9 | * | |
| (15C) | CHARACTER | 8 | CR_SEQ_NOS | |
| (15C) | CHARACTER | 4 | CR_BACKOUT_SEQ_NOS | |
| (15C) | HALFWORD | 2 | CR_BACKOUT_SEQ_INPUT | |
| (15E) | HALFWORD | 2 | CR_BACKOUT_SEQ_OUTPUT | |
| (160) | CHARACTER | 4 | CR_COMMIT_SEQ_NOS | |
| (160) | HALFWORD | 2 | CR_COMMIT_SEQ_INPUT | |
| (162) | HALFWORD | 2 | CR_COMMIT_SEQ_OUTPUT | |
| (164) | 11.. | | CR_UOW_DISPOSITION | NOTE - MUST be 1st 2 bits of byte for ASM |
| (165) | STRUCTURE IsA(RMC_ SHARED_ IRC62) | 2 | * | |
| (165) | STRUCTURE IsA(RESYNC_ TYPE) | 1 | * | |
| (165) | 11.. | | CR_RESYNC_TYPE | What resync type is partner? |
| (166) | STRUCTURE IsA(RECOVERY_ PROTOCOL) | 1 | * | |
| (166) | 1... | | CR_PROTOCOL | |

Table 571.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--|-----|---------------------|----------------------------|
| (168) | STRUCTURE | 1 | CR_LU62 | |
| (168) | STRUCTURE IsA(RMC_ LU62_ SPECIFIC) | 1 | * | |
| (168) | STRUCTURE IsA(PA_ RELIABILITY) | 1 | * | |
| (168) | 1... | | CR_RELIABILITY_VOTE | Determined by inbound. rqc |

Table 572.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--|-----|----------------------------------|-------------|
| (168) | STRUCTURE | 2 | CR_LU61 | |
| (168) | STRUCTURE IsA(RMC_ LU61_ SPECIFIC) | 2 | * | |
| (168) | STRUCTURE IsA(LU61_ SYNCPPOINT_ CONTROL) | 1 | * | |
| (168) | 1... | | CR_LU61_INBOUND_ PREPARE | |
| (168) | .1.. | | CR_LU61_INBOUND_SPR | |
| (169) | STRUCTURE IsA(LU61_ RESYNC_ CONTROL) | 1 | * | |
| (169) | 1... | | CR_LU61_RESYNC_ REQUIRED | |
| (169) | .1.. | | CR_LU61_PARTNER_COLD | |
| (169) | ..1. | | CR_LU61_RESYNC_DONE | |
| (169) | ...1 | | CR_LU61_SECOND_STSN_ EXPECTED | |

Table 573.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--|-----|-------------------------|--|
| (168) | STRUCTURE | 6 | CR_IRC | |
| (168) | STRUCTURE IsA(RMC_ IRC_ SPECIFIC) | 6 | * | |
| (168) | STRUCTURE IsA(IRC_ BIND_ STATE) | 1 | * | |
| (168) | 111. | | CR_BIND_LEG_NUM | Which conversation leg is it? NOTE- leg num must be first 3 bits of byte |
| (168) | ...1 | | CR_BIND_LOGGING | Is bind logging done yet? |
| (169) | STRUCTURE IsA(IRC_ CONV_ CORRELATOR) | 5 | * | |
| (169) | UNSIGNED | 1 | CR_CONV_CORRELATOR_ LEN | |
| (16A) | CHARACTER | 4 | CR_CONV_CORRELATOR | |

PIPELINE POOL ENTRIES (TCTEPTI) OVERLAY

Table 574.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (240) | STRUCTURE | 12 | * | Pipeline specific data |
| (240) | ADDRESS | 4 | TCTEPLCH | Pipeline pool chain if leader * and 3650 pipeline Session |
| (244) | CHARACTER | 0 | TCTEGET9 | Length of pipeline term |
| (244) | CHARACTER | 8 | TCTEPLID | Poolid if pool-entry leader * |
| (244) | ADDRESS | 4 | TCTEPLLP | -> Pool-entry leader |
| (248) | FULLWORD | 4 | TCTEPLI | pool entry id for catlog |
| (24C) | CHARACTER | 0 | TCTEGET8 | L(pipeline pool chain) |
| (24C) | CHARACTER | 0 | TCTEGET7 | Length for pipeline pool |

Session Overlay Area (non-pipeline)

Table 575.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (244) | STRUCTURE | 4 | * | session data |
| (244) | ADDRESS | 4 | TCTEPREV | Previous TCTTE |
| (248) | CHARACTER | 0 | TCTEGET3 | Length for LUC Session |

IRC Overlay area

Table 576.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (190) | STRUCTURE | 176 | * | OVERLAY access method-specific IRC Overlay area |
| (190) | CHARACTER | 3 | TCTESRHI | INBOUND request header |
| (190) | CHARACTER | 1 | TCTESRI1 | 1st byte |
| (190) | 1... .. | | TCTESRSP | =1 for RESPONSE =0 for REQUEST |
| (190) | .1.. .. | | TCTESDFC | =1 for data flow control header |
| (190) | ..1. | | * | |
| (190) | ...1 | | * | |
| (190) | 1... | | TCTESFI | Format IND. =1 if FMH present |
| (190) |1.. | | TCTESSDI | =1 when sense data present |
| (191) | CHARACTER | 1 | TCTESRI2 | 2nd byte |
| (191) | 1... .. | | TCTESDR1 | DEFINITE response 1 |
| (191) | .1.. .. | | * | |
| (191) | ..1. | | TCTESDR2 | DEFINITE response 2 |
| (191) | ...1 | | TCTESERI | EXCEPTION response |
| (191) | ...1 | | TCTESRTI | 0= for + VE response, 1= for -VE |
| (192) | CHARACTER | 1 | TCTESRI3 | M-M BRACKET byte |

Table 576. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|--------------------------------|
| (192) | 1... | | TCTESBBI | BEGIN BRACKET indicator |
| (192) | .1.. | | TCTESEBI | END BRACKET indicator |
| (192) | ..1. | | TCTESCDI | CHANGE DIRECTION indicator |
| (193) | CHARACTER | 3 | TCTESRHO | OUTBOUND request header |
| (193) | CHARACTER | 1 | TCTESRO1 | 1st byte. Bits as TCTESRI1 |
| (194) | CHARACTER | 1 | TCTESRO2 | 2ND byte. Bits as TCTESRI2 |
| (195) | CHARACTER | 1 | TCTESRO3 | 3RD byte. Bits as TCTESRI3 |
| (196) | HALFWORD | 2 | * | Reserved |
| (198) | BIT(8) | 1 | TCTESRQ | IRC request flags |
| (198) | 1... | | TCTESQWR | WRITE request |
| (198) | .1.. | | TCTESQSY | WAIT request |
| (198) | ..1. | | TCTESQRD | READ request |
| (198) | ...1 | | * | |
| (198) | 1... | | * | |
| (198) |1.. | | TCTESQSG | Segmented data |
| (198) |1. | | TCTESQAT | ATTACH |
| (198) |1 | | TCTESQWP | WRITE pending |
| (199) | BIT(8) | 1 | * | Misc. IRC flags |
| (199) | 1... | | TCTE_USE_MRO_BITMAP | Session name in BITMAP |
| (19A) | BIT(8) | 1 | TCTESBRS | BRACKET status byte |
| (19B) | BIT(8) | 1 | * | Reserved |
| (19C) | CHARACTER | 4 | * | Reserved monitoring field |
| (1A0) | FULLWORD | 4 | TCTETHNO | THREAD NO. for IRC SVC |
| (1A4) | FULLWORD | 4 | TCTETHID | THREAD ID for IRC SVC |
| (1A8) | ADDRESS | 4 | TCTESCCB | Address of SCCB for THREAD |
| (1AC) | CHARACTER | 4 | TCTEIRDA | data for switch |
| (1AC) | ADDRESS | 4 | TCTEIRRA | Address of RH |
| (1B0) | FULLWORD | 4 | TCTEIRRL | Length of RH |
| (1B4) | ADDRESS | 4 | TCTEIRTA | Address of LU6.2 FMH |
| (1B8) | FULLWORD | 4 | TCTEIRTL | Length of LU6.2 FMH |
| (1BC) | ADDRESS | 4 | TCTEIRFA | Address of FMH |
| (1C0) | FULLWORD | 4 | TCTEIRFL | Length of FMH |
| (1C4) | FULLWORD | 4 | TCTEIRTT | OTHER-system LEVEL-indicator * |
| (1C8) | CHARACTER | 4 | TCTEIRFS | Flags bytes |
| (1C8) | BIT(8) | 1 | TCTEIRF1 | Flag byte one |
| (1C8) | 1... | | TCTEIRGI | GET DATA ALREADY issued |

Table 576. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------|-------------------------------------|
| (1C8) | .1.. | | TCTEIRSR | SESSION RECOVERY performed |
| (1C8) | ..1. | | TCTEIRWL | Have issued write last |
| (1C8) | ...1 | | TCTEIRJL | JUST allocated |
| (1C8) | 1... | | TCTEIRCO | Control on other side |
| (1C8) |1.. | | TCTEIRDP | Data to be processed |
| (1C8) |1. | | TCTEIRUT | Tell IOR to use TIOA |
| (1C8) |1 | | TCTEIRAO | AVAIL outstanding |
| (1C9) | BIT(8) | 1 | TCTEIRF2 | Flag byte two |
| (1C9) | 1... | | TCTEIRCD | CD on this side |
| (1C9) | .1.. | | TCTEIRXM | CROSS-MEMORY in use |
| (1C9) | ..1. | | TCTEIRAA | CRNP ATTACH SEC check failed * |
| (1C9) | ...1 | | TCTEIRDL | WRITE LAST issued but EB deferred * |
| (1C9) | 1... | | TCTERRSS | Transactional EXCI suppt |
| (1C9) |1.. | | TCTETXBK | TEXCI BACKOUT IF ABEND |
| (1CA) | CHARACTER | 2 | * | Reserved |
| (1CC) | ADDRESS | 4 | TCTEURAD | MVS UR address |
| (1D0) | BIT(8) | 1 | TCTEIRST | BIN status |
| (1D0) | 1... | | * | Reserved |
| (1D0) | .1.. | | TCTEIRBN | EXCI session |
| (1D0) | ..1. | | * | RESERVED for TRANS. EXCI |
| (1D0) | ...1 | | TCTE_UR_INIT_NEEDED | UR client INIT needed |
| (1D0) | 1... | | TCTE_UR_BIND_NEEDED | UR client BIND needed |
| (1D1) | CHARACTER | 3 | * | for alignment |
| (1D4) | FULLWORD | 4 | TCTEICRA | ICRX address |
| (1D8) | ADDRESS | 2 | TCTEICRL | ICRX length |
| (1DA) | CHARACTER | 57 | * | Reserved |
| (213) | CHARACTER | 0 | TCTEGET4 | Length for IRC Conv. |
| LUWID, in the FORM of LL00ID (for possible WT0) | | | | |
| (213) | CHARACTER | 1 | * | Reserved |
| (214) | HALFWORD | 2 | TCTESLWN | LTH of LUW ID + 4 |
| (216) | HALFWORD | 2 | TCTESL00 | ZEROS |
| (218) | CHARACTER | 35 | TCTESLWD | LUWID |
| (23B) | CHARACTER | 5 | TCTEDLAB | DL/I ABEND code |
| (240) | CHARACTER | 0 | TCTEGET5 | Length for IRC Batch |

DESCRIPTIVE NAME = Terminal Control Table System Entry
PRODUCT-SENSITIVE PROGRAMMING INTERFACE.
The following fields form part of the Product-Sensitive
Programming Interface
TCSACCM TCSELUC TCSESID TCSESKA TCSESUR TCSETYPE

Table 577.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------|---|
| (0) | STRUCTURE | 336 | DFHTCTSE | |
| (0) | CHARACTER | 8 | * | |
| AID CHAIN HEADER FIELDS | | | | |
| (8) | ADDRESS | 4 | TCSEDAID | Pointer to dummy AID |
| <p>The following fields form part of a dummy AID which acts as the anchor for this TCTSE's AID chain. The only fields which actually exist in this dummy AID are the forward and backward chain pointers. The dummy AID forward pointer points to the first AID on the chain. The dummy AID backward pointer points to the last AID on the chain. The first AID's backward pointer points to the dummy AID. The last AID's forward pointer points to the dummy AID. If the chain is empty, the dummy AID forward and backward pointers both point to the dummy AID itself. Field TCSEDAID points to the notional start of the dummy AID.</p> | | | | |
| (C) | ADDRESS | 4 | TCSESUSF | FORWARD AID chain. |
| (10) | ADDRESS | 4 | TCSESUSB | BACKWARDS AID chain |
| END OF AID CHAIN HEADER FIELDS | | | | |
| (14) | CHARACTER | 1 | TCSETYPE | INTERPRETATION of later fields VTAM or M-M LINKS for a region which must be reached via another (IE by DAISY-CHAINING). |
| (15) | CHARACTER | 1 | TCSEILUC | LUC flag byte |
| (15) | BIT(8) | 1 | TCSEFLGS | LUC status |
| (15) | 1... | | TCSELUC | This is a LUC system |
| (15) | .1.. | | TCSELU6 | This is a LU6 system |
| (15) | ..1. | | TCSEMRO | This is a MRO system |
| (15) | ...1 | | TCSESNG | Feature=SINGLE |
| (15) | 1... | | TCSESHU | SHUTDOWN in progress |
| (15) |1.. | | TCSEXLA | XLNaction parameter. On=Force |
| (15) |1. | | TCSESUR | Surrogate |
| (15) |1 | | TCSECNS | CHANGE_NO_SESS supported |
| (16) | HALFWORD | 2 | TCSELEN | Entry length |
| (18) | CHARACTER | 8 | TCSESID | System NETWORK name |
| (20) | CHARACTER | 8 | TCSE_SECURITYNAME | Catlg'd SECURITYNAME |
| (28) | CHARACTER | 8 | TCSEMM | Shared database conversations * |
| (28) | ADDRESS | 4 | TCSESES1 | LUC only - 1st session |
| (28) | ADDRESS | 4 | TCSEVC1 | VTAM - Primary sessions |
| (2C) | ADDRESS | 4 | TCSEMODE | LUC only - mode ENTRY |

Table 577. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------------------|--|
| (2C) | ADDRESS | 4 | TCSEVC2 | VTAM - Secondary sessions |
| Access Method VALUES SAME as for TCTTE field TCTEAMID | | | | |
| (30) | BIT(8) | 1 | TCSACCM | Access Method flags |
| (31) | BIT(8) | 1 | TCSEDSP | DATA-STREAM |
| (32) | BIT(8) | 1 | TCSEDBA | De-blocking algorithm |
| (33) | BIT(8) | 1 | TCSEL_AI | APPC autoinstall flags |
| (33) | 1... | | TCSETRAN | Transient system |
| (33) | .1.. | | TCSE_CLONE | Cloned system |
| (33) | ..1. | | TCSE_CATLG_NO | AI not catalogued |
| (33) | ...1 | | TCSE_IMPLICIT_DELETE | AI delete |
| (33) | 1... | | TCSE_DELETE_AT_ RESTART | AI delete after EMER |
| (33) |1.. | | TCSE_DELETE_SCHEDULED | AI DFHIC CATD sched |
| (33) |1. | | TCSE_DELETE_STARTED | AI DFHZATD started |
| (33) |1 | | TCSE_DELETE_AND_LOGON | AI BIND during delete |
| (34) | ADDRESS | 4 | TCSE_TFUS_PTR | -> Secure Extension |
| (38) | CHARACTER | 12 | * | Reserved |
| SYSTEM ENTRY - VTAM SPECIFIC CURRENT STATISTICS | | | | |
| (44) | UNSIGNED | 2 | TCSEALL | Number of AID'S in CHAIN |
| (46) | HALFWORD | 2 | TCSESALL | Number of non-specific AID |
| (48) | HALFWORD | 2 | TCSEBID | Number of BIDS in progress |
| (4A) | HALFWORD | 2 | TCSE2RY | Secondaries currently used |
| (4C) | UNSIGNED | 2 | TCSERTK | RTT entry number. |
| HIGH WATER MARKS | | | | |
| (4E) | HALFWORD | 2 | TCSESTAM | Maximum number of allocates outstanding |
| (50) | HALFWORD | 2 | TCSE2HWM | Secondaries used |
| (52) | HALFWORD | 2 | TCSEBHWM | Maximum number of BIDS |
| ACCUMULATORS | | | | |
| (54) | FULLWORD | 4 | TCSES2 | ATT'S SAT. by secondaries |
| (58) | FULLWORD | 4 | TCSES1 | ATT'S SAT. by primaries |
| (5C) | FULLWORD | 4 | TCSESBID | Number of BIDS sent |
| ISC LINK STATISTICS | | | | |
| (60) | FULLWORD | 4 | TCSESTAS | Number of allocates for LINK |
| (64) | FULLWORD | 4 | TCSESTAQ | Number of allocates QUEUED |
| (68) | FULLWORD | 4 | TCSESTAF | Allocates failing - LINK SHUT |
| (6C) | FULLWORD | 4 | TCSESTAO | Allocates failing - OTHER |
| (70) | FULLWORD | 4 | TCSESTFC | Number of FC requests |

Table 577. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------|-----------|-----|---------------------------|--|
| (74) | FULLWORD | 4 | TCSESTIC | Number of IC requests |
| (78) | FULLWORD | 4 | TCSESTD | Number of TD requests |
| (7C) | FULLWORD | 4 | TCSESTTS | Number of TS requests |
| (80) | FULLWORD | 4 | TCSESTD | Number of DL/1 requests |
| (84) | FULLWORD | 4 | TCSESTTC | Number of TERM SHR REQS |
| (88) | HALFWORD | 2 | TCSEMXQT | Allocate queue time |
| (8A) | HALFWORD | 2 | TCSEQPCT | MAXQTIME queue purge count * |
| (8C) | HALFWORD | 2 | TCSEMQPC | MAXQTIME alloc.s purged |
| (8E) | CHARACTER | 2 | * | Reserved |
| (90) | FULLWORD | 4 | TCSEZQRJ | XZIQUE rejects |
| (94) | HALFWORD | 2 | TCSEZQPU | XZIQUE purge conn count |
| (96) | HALFWORD | 2 | TCSEZQPC | XZIQUE allocs.s purged |
| Generic Resource Flags | | | | |
| (98) | BIT(8) | 1 | TCSEI_GR | Generic Resource Flags |
| (98) | 1... | | TCSE_GR | Both sides GR registered |
| (98) | .1.. | | TCSE_GRNAME_CONN | 1 = TCSESID is GR name TCSEX62N membername 0 = TCSESID membername TCSEX62N is GR name |
| (98) | ..1. | | TCSE_USE_OUR_MEMBER_ NAME | Partner used our member name |
| (98) | ...1 | | TCSE_MSG179_ISSUED | ZC0179 Msg Issued |
| (98) | 1... | | TCSE_CATLG_DONE | Defined connection with affinity is catalogued |
| (98) |1.. | | TCSE_MSG177_ISSUED | Msg ZC0177 issued |
| (98) |1. | | TCSE_RUN_ZGCH | Affinity has to be ended |
| (99) | BIT(8) | 1 | TCSE_MISC | Miscellaneous |
| (99) | 1... | | TCSESSRE | Shunt received since restart |
| (99) | .1.. | | TCSE_SD_HANG_REPORTED | on if ZC2352 written |
| (99) | ..1. | | TCSEUDU | Use default user |
| (99) | ...1 | | TCSE_CNOS_SHUT | CNOS shutdown processed |
| (99) | 1... | | TCSE_CNOS2 | CNOS inst 2 processed |
| (99) |1.. | | TCSE_CHECK_IPIC_AIDS | Check for IPIC AIDs |
| (9A) | HALFWORD | 2 | TCSE1RY | Primaries currently used |
| (9C) | HALFWORD | 2 | TCSE1HWM | Peak number of Primaries used |
| (9E) | HALFWORD | 2 | TCSEARC8 | Allocates after RC8 XZIQUE |
| (A0) | ADDRESS | 4 | TCSENEXT | Address of next TCTSE |
| (A4) | CHARACTER | 5 | * | |
| (A4) | UNSIGNED | 2 | TCSENQCT | ENQ count for task |

Table 577. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------------------------|--|
| (A6) | CHARACTER | 3 | TCSENQTI | Task id of ENQ holder |
| (A9) | BIT(8) | 1 | TCSEDII | DYNAMIC INSTALL inds |
| (A9) | 1... | | TCSEDAP | DYNAMIC ADD pending |
| (A9) | .1.. | | TCSEDDP | DYNAMIC DELETE pending |
| (A9) | ..1. | | TCSEPNAC | Pending AUTOCONNECT |
| (A9) | ...1 | | * | Reserved |
| (A9) | 1... | | TCSEORIS | Indirect System not ready |
| (A9) |1.. | | TCSEPNOS | Pending ¬INSERVICE |
| (A9) |1. | | TCSEPNLG | Pending CREATESESS |
| (A9) |1 | | TCSEPNAA | Pending AUTOCONNECT ALL |
| (AA) | CHARACTER | 2 | TCSEINUC | (Packed) Indirect system count |
| (AC) | ADDRESS | 4 | TCSE_REMDEL_CHAIN | Address next REMDEL system |
| (AC) | ADDRESS | 4 | TCSESKA | Skeleton address |
| (B0) | UNSIGNED | 2 | TCSESRTK | Saved RTT entry number e.g. for APPC terminals |
| (B2) | BIT(8) | 1 | TCSEDII2 | DYNAMIC INSTALL inds |
| (B2) | 1... | | TCSERDLR | Remote delete required |
| (B2) | .1.. | | TCSETMC | TMP action taken for TCTS |
| (B2) | ..1. | | TCSEMROP | SHIP done to this system |
| (B2) | ...1 | | TCSEMROG | We got shipped remotes |
| (B2) | 1... | | TCSECRRD | Remote reset done |
| (B2) |1.. | | TCSECRSR | DFHCRS running |
| (B2) |1. | | TCSEUIP | Ltd. XRF update-in-place |
| (B2) |1 | | TCSEACT | Remote APPC defined as |
| (B3) | CHARACTER | 1 | TCSEDII3 | |
| (B3) | 1... | | TCSECSRE | Contact with partner since restart |
| (B3) | .1.. | | TCSERC8 | RC8 from XZIQUE |
| (B3) | ..1. | | TCSEQLIM | Queue limit set? |
| (B3) | ...1 | | TCSEQTIM | Max queue time set |
| The following indicate revised rules for LU6.2 Sync-Pointing Next flag says whether revised rules for Conversation Correlators and State-after-Rollback are used | | | | |
| (B3) | 1... | | TCSEAROI | On = FQCC is supported |
| Off = FQCC is not supported | | | | |
| (B3) |1.. | | TCSECRTE | CRTE activity flag |
| (B3) |1. | | TCSEPGIP | Purge in progress |
| (B3) |1 | | TCSE_SYSTEM_SUPPORTS_TIMEOUT | timeout supported |

Table 577. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---|-----|-------------------------|---|
| (B4) | HALFWORD | 2 | TCSEALIM | CEDA allocate queue limit |
| (B6) | HALFWORD | 2 | TCSEACNT | Queued Allocates processed |
| (B8) | CHARACTER | 8 | TCSEAQTS | Time alloc Queue began |
| (C0) | CHARACTER | 4 | TCSETAQ | Number of allocates queued |
| (C4) | CHARACTER | 4 | TCSEALRJ | QLIMIT alloc.s rejected |
| (C8) | FULLWORD | 4 | TCSESTPC | Number of PC requests |
| (CC) | CHARACTER | 2 | TCSE_SUPPORTS_ FUNCTION | Function string |
| (CC) | BIT(8) | 1 | TCSE_SUPPORTS_FLG1 | Flag1 |
| (CC) | 1... | | TCSE_ROUTABLE_START | Routable START |
| (CC) | .1.. | | TCSE_REQUESTSTREAMS | Requeststreams |
| (CD) | BIT(8) | 1 | TCSE_SUPPORTS_FLG2 | Flag2 |
| (CE) | CHARACTER | 2 | TCSE_RESERVED | Reserved |
| (D0) | CHARACTER | 8 | TCSE_LINK_CHAN_SENT | LINK CHANNEL bytes sent |
| (D8) | CHARACTER | 8 | TCSE_LINK_CHAN_RCVD | LINK CHANNEL bytes rcvd |
| (E0) | CHARACTER | 8 | TCSE_STRT_CHAN_SENT | START CHANNEL bytes sent |
| (E8) | CHARACTER | 8 | TCSE_STRT_CHAN_RCVD | START CHANNEL bytes rcvd |
| (F0) | CHARACTER | 8 | TCSE_TSHR_CHAN_SENT | Number of bytes of terminal sharing channels sent |
| (F8) | CHARACTER | 8 | TCSE_TSHR_CHAN_RCVD | Number of bytes of terminal sharing channels rcvd |
| (100) | FULLWORD | 4 | TCSE_LINK_CHAN | Number of LINK CHANNEL |
| (104) | FULLWORD | 4 | TCSE_STRT_CHAN | Number of START CHANNEL |
| (108) | FULLWORD | 4 | TCSE_TSHR_CHAN | Number of terminal sharing channel requests |
| (10C) | FULLWORD | 4 | TCSE_RSVD2 | Reserved |
| (110) | OBJECT | 64 | TCSE_RESSIG | Resource Signature |
| (110) | CHARACTER | 64 | DFHAMSIG_INSTANCE | Resource Signature |
| (110) | STRUCTURE IsA(DFHAMSIG_ DEFINE_ SIGNATURE) | 38 | DEFINE_SIGNATURE | Resource Signature |
| (110) | CHARACTER | 8 | DEFINE_SOURCE | GROUP resource installed from |
| (118) | CHARACTER | 8 | DEFINE_TIME | Time resource defined |
| (120) | CHARACTER | 8 | CHANGE_TIME | Change/create time |
| (128) | CHARACTER | 8 | CHANGE_USERID | Change userid |
| (130) | UNSIGNED | 2 | CHANGE_AGENT | Change agent |
| (132) | CHARACTER | 4 | AGENT_LEVEL | CICS level of change agent |

Table 577. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--|-----|-------------------|-----------------------|
| (136) | STRUCTURE IsA(DFHAMSIG_ INSTALL_ SIGNATURE) | 18 | INSTALL_SIGNATURE | Resource Signature |
| (136) | CHARACTER | 8 | INSTALL_TIME | Install/create time |
| (13E) | CHARACTER | 8 | INSTALL_USERID | Install userid |
| (146) | UNSIGNED | 2 | INSTALL_AGENT | Install agent |
| (148) | CHARACTER | 8 | * | Resource Signature |
| (150) | CHARACTER | 0 | TCSECOMN | End of common part |
| (150) | CHARACTER | 0 | TCSEGET1 | Length for ZC Install |

SYSTEM ENTRY - LU 6.1 and LU6.2

Table 578.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|--|
| (150) | STRUCTURE | 92 | * | |
| (150) | CHARACTER | 8 | * | Reserved |
| (158) | CHARACTER | 8 | TCSEX62N | XRF specific name or |
| (158) | CHARACTER | 8 | TCSEX61N | GR name or member name |
| (160) | BIT(8) | 1 | * | |
| (160) | 1... | | TCSEPSF | PSH flag bytes supported |
| (160) | .1.. | | TCSEWRS | No sessions bound. Scan for resync at next contact * |
| (160) | ..1. | | TCSEXLD | EXCHANGE LOGNAME done |
| (160) | ...1 | | TCSEPRA | Presumed Abort support |
| (160) | 1... | | TCSE_LR | Limited Resource |
| (160) |1.. | | TCSEANB | ACQ but No Bound sessions |
| (160) |1. | | TCSE_PRSS_RECOV | Per. Sess. Recovery rqd |
| (160) |1 | | TCSE_XLN_COLD | Hot/Cold XLN failure |
| (161) | UNSIGNED | 1 | TCSE_VTAM_MISC | Miscellaneous flag |
| (161) | 1... | | TCSE_ALIAS_IN_USE | VTAM Aliasing |
| (161) | .1.. | | TCSE_DIFF_NETWORK | Alias from diff netid |
| (161) | ..1. | | TCSE_POSS_INVAL_ALIAS | May need deleting |
| (162) | BIT(8) | 1 | * | LU6.2 Security flag |
| (162) | 1... | | TCSEPNA | Partner SPM not active |
| (162) | .1.. | | TCSE_PRSS_REC_ACT | Track pers. resources |
| (162) | ..1. | | TCSE_PRSS_REL_CONN | Release connection |
| (162) | ...1 | | TCSE_CLPEND | XLNaction race control |
| (162) | 1... | | TCSEFBN | Sessions already bound |
| (162) |1.. | | TCSEBTCH | Batched Resync support |

Table 578. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------------------------|--|
| (162) |1. | | TCSECAL | CONNECT=ALL |
| (162) |1 | | TCSEBSY | BINDSECURITY keyword used |
| <div>LU 6.2 Security bits indicating what ATTACH_SECURITY we support and the partner supports. The mapping from the ATTACH_SEC keyword on the CEDA DEFINE CONNECTION or TERMINAL panel is:</div> <div>:XMP<div><div>ATTACH_SEC</div><div>Bind Indicators</div><div>-----\|-----\|-----\|-----\|</div><div>LOCAL \| 0 \| 0 \| 0 \|</div><div>VERIFY \| 1 \| 0 \| 0 \|</div><div>IDENTIFY \| 1 \| 1 \| 0 \|</div><div>PERSISTENT \| 1 \| 0 \| 1 \|</div><div>MIXED \| 1 \| 1 \| 1 \|</div></div><div>:EXMP</div></div> | | | | |
| (163) | BIT(8) | 1 | TCSE_ATTACH_SEC | LU6.2 Security Flags |
| (163) | 1... | | TCSE_MY_UP | Local UP setting |
| (163) | .1.. | | TCSE_MY_AV | Local AV setting |
| (163) | ..1. | | TCSE_MY_PV | Local PV setting |
| (163) | ...1 | | TCSE_HIS_UP | Remote UP setting |
| (163) | 1... | | TCSE_HIS_AV | Remote AV setting |
| (163) |1.. | | TCSE_HIS_PV | Remote PV setting |
| (163) |11 | | * | Reserved |
| <div>The Userid Table area TCSEUTA is an internal control block within the TCSE. It contains a pointer to the Local Userid Table (LUIT) associated with the connection, the 4 character SYSID and some flags defining the state of the LUIT.</div> | | | | |
| (164) | CHARACTER | 12 | TCSEUTA | Userid Table Area |
| (164) | ADDRESS | 4 | TCSELUIT | Ptr to Local Userid Table. Copy of LOCAL_USERID_TABLE_AREA |
| (168) | CHARACTER | 4 | TCSESYSI | SYSID |
| (16C) | BIT(8) | 1 | TCSELFGL | LUIT Global Flags |
| (16C) | 1... | | TCSETOIP | Time Out In Progress flag |
| (16C) | .111 1111 | | * | Reserved |
| (16D) | CHARACTER | 3 | * | Reserved for ZCUT |
| OTHER TCSE FIELDS..... | | | | |
| (170) | BIT(8) | 1 | TCSE_PRSS_FLAGS | Persistent Sessions flags |
| (170) | 1... | | TCSE_REL_REQD | Connection in shutdown |
| (170) | .1.. | | TCSE_PRSS_PS_REQD | State record not found |
| (170) | ..1. | | TCSE_LR_CATLGED | LR bit set in global cat |
| (170) | ...1 | | TCSE_PRSS_OPNDST_RESTORE_FAILED | |
| (170) | 1... | | TCSE_PRSS_WAS_SHUTTING | Unbind all |
| (170) |111 | | * | Reserved |
| (171) | BIT(24) | 3 | * | Reserved for alignment |

Table 578. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------|---------------------------------------|
| (174) | UNSIGNED | 4 | TCSE_PRA | Persistent Resource count |
| (178) | CHARACTER | 8 | TCSE_AL_CREATE_TIME | Autoinstall GMT time |
| (180) | ADDRESS | 4 | TCSE_DISTINGUISHED_NAME_PTR | Unique name |
| (184) | CHARACTER | 8 | TCSE_TITOKEN | token for remote delete |
| (18C) | HALFWORD | 2 | TCSE_APPC_CONV | Active conversations |
| (18E) | BIT(8) | 1 | TCSEI_CC_FLAG | CICS client flag byte |
| (18E) | 1... | | TCSECCIN | CCIN has been run |
| (18E) | .111 1111 | | * | Reserved |
| (18F) | UNSIGNED | 1 | TCSEXLNC | XLN retry counter |
| (190) | ADDRESS | 4 | TCSE_CCINDATA_PTR | PTR CICS client data |
| (194) | ADDRESS | 4 | TCSE_LU61_CHAIN | Next LU61 system |
| (198) | BIT(8) | 1 | TCSE_CQP_FLAGS | Flags for Connection Quiesce protocol |
| (198) | 1... | | TCSE_CQP_SUPPORTED | CQP supported |
| (198) | .1.. | | TCSE_ENDAFFIN_REQD | CQP requested ENDAFFIN |
| (198) | ..1. | | TCSE_CQPI_COMPLETE | Inbound CQP complete |
| (198) | ...1 | | TCSE_CQPO_ATTACHED | Outbound CQP attached |
| (198) | 1... | | TCSE_CQP_COMPLETE | CQP has completed |
| (198) |1.. | | TCSE_CQP_FAILED | CQP has failed |
| (198) |11 | | * | reserved |
| (199) | CHARACTER | 3 | * | reserved for alignment |
| (19C) | CHARACTER | 8 | TCSE_NETID | Network identifier |
| (1A4) | CHARACTER | 8 | TCSE_REAL_NETNAME | NQN netname |
| (1AC) | CHARACTER | 0 | TCSEGET6 | Length of LU6.1 tcse |
| (1AC) | CHARACTER | 0 | TCSEGET4 | Length for ZC Install |

SYSTEM ENTRY - M-M SPECIFIC

Table 579.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (150) | STRUCTURE | 4 | * | |
| (150) | HALFWORD | 2 | TCSESECN | No of secondaries sessions * |
| (152) | HALFWORD | 2 | TCSEPRMN | No of primaries sessions |

Table 580.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (150) | STRUCTURE | 20 | * | |
| (150) | CHARACTER | 4 | * | Leave room for previous two * |
| (154) | ADDRESS | 4 | TCSEIRCH | Chain of IRC system entries * |

Table 580. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|---|
| (154) | ADDRESS | 4 | TCSE_MRO_CHAIN | Alternative name for IRCH |
| (158) | BIT(8) | 1 | TCSEIRCF | Flags |
| (158) | 1... | | * | Reserved |
| (158) | .1.. | | TCSEIRNC | Not connected |
| (158) | ..1. | | TCSEIRMD | PRI/SEC MISMATCH DIAGNOSED * |
| (158) | ...1 | | TCSEIDEF | Defined to IRC |
| (158) | 1... | | TCSEIRXM | Cross Memory acceptable |
| (158) |1.. | | TCSEIRSF | FIRST ATTACH OK |
| (158) |1. | | TCSEINBT | EXCI connection |
| (158) |1 | | TCSEIAID | We need USERSEC=IDENTIFY |
| (159) | BIT(8) | 1 | TCSEIRF2 | Flags |
| (159) | 1... | | TCSEIRXU | Cross Memory in use |
| (159) | .1.. | | TCSEIRIC | Outbound connects initiated * for this sys since connections last severed |
| (159) | ..1. | | TCSEIRXC | XCF connection |
| (159) | ...1 | | TCSEIRCQ | CONNECT work element already queued |
| (15A) | CHARACTER | 8 | TCSESTOD | Latest CONNECT timestamp |
| (162) | CHARACTER | 2 | * | Reserved |
| (164) | CHARACTER | 0 | TCSEGET3 | Length for ZC Install |

SYSTEM ENTRY - INDIRECT ROUTE

Table 581.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (150) | STRUCTURE | 8 | * | |
| (150) | ADDRESS | 4 | TCSEINDA | Address of another system entry, on route to remote region. |
| (154) | CHARACTER | 4 | TCSEINDN | Name of other system * |
| (158) | CHARACTER | 0 | TCSEGET2 | Length for ZC Install |

DESCRIPTIVE NAME = Terminal Control Table Mode Group Entry

Table 582.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 138 | DFHTCTME | |
| (0) | CHARACTER | 8 | * | |
| (8) | CHARACTER | 8 | TCMEMODE | Mode group name |
| (10) | ADDRESS | 4 | TCMENXT | Address of next mode group in this system |

Table 582. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------|----------|-----|------------|---|
| (14) | ADDRESS | 4 | TCMESESA | Address of 1st session in this group |
| (18) | ADDRESS | 4 | TCMESYSA | Address of system entry |
| (1C) | HALFWORD | 2 | TCMELEN | Length of this mode entry |
| SYSTEM STATISTICS | | | | |
| (1E) | HALFWORD | 2 | TCMELMAX | LOCAL_MAX_ALLOWED |
| (20) | HALFWORD | 2 | TCMEMCON | MINIMUM number of contention WINNERS acceptable for this mode group |
| (22) | HALFWORD | 2 | TCMEMAXS | MAX_SESSION_COUNT |
| CURRENT STATISTICS | | | | |
| (24) | HALFWORD | 2 | TCMECONW | Currently CNOS negotiated contention WINNERS |
| (26) | HALFWORD | 2 | TCMECONL | Currently CNOS negotiated contention LOSERS |
| (28) | ADDRESS | 4 | TCMELST | Address of last session in this group |
| (2C) | HALFWORD | 2 | TCMEZQPC | XZIQUE alloc.s purged |
| (2E) | HALFWORD | 2 | TCMEBID | Number of BIDS in progress |
| (30) | HALFWORD | 2 | TCME2RY | LUC contention WINNERS count |
| (32) | HALFWORD | 2 | TCMEBND | Currently bound sessions |
| (34) | HALFWORD | 2 | TCME1RY | Current no of losers in use |
| HIGH WATER MARKS | | | | |
| (36) | HALFWORD | 2 | TCMESTAM | Maximum number of allocates outstanding |
| (38) | HALFWORD | 2 | TCME2HWM | LUC MAX No. WINNERS |
| (3A) | HALFWORD | 2 | TCMEBHWM | Maximum number of BIDS |
| (3C) | UNSIGNED | 2 | TCMERTK | RTT entry number |
| (3E) | HALFWORD | 2 | TCME1HWM | Peak contention losers |
| ACCUMULATORS | | | | |
| (40) | FULLWORD | 4 | TCMES2 | LUC ATTS SAT by WINNERS |
| (44) | FULLWORD | 4 | TCMES1 | LUC ATTS SAT by LOSERS |
| (48) | FULLWORD | 4 | TCMESBID | Number of BIDS sent |
| ISC LINK STATISTICS | | | | |
| (4C) | FULLWORD | 4 | TCMESTAS | Number of allocates for LINK |
| (50) | FULLWORD | 4 | TCMESTAQ | Number of allocates QUEUED |
| (54) | FULLWORD | 4 | TCMESTAF | Allocates failing - LINK SHUT |
| (58) | FULLWORD | 4 | TCMESTAO | Allocates failing - OTHER |

Table 582. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (5C) | FULLWORD | 4 | TCMESTAG | Generic allocs satisfied |
| (60) | FULLWORD | 4 | TCMESTAP | Specific allocs satisfied |
| (64) | BIT(8) | 1 | TCMEICOM | Comms failure flags |
| (64) | 1... | | TCMENWF | Network Failure |
| (64) | .111 1111 | | * | RESERVED |
| (65) | BIT(8) | 1 | TCMEDII | DYNAMIC INSTALL indicators |
| (65) | 1... | | TCMEDAP | DYNAMIC ADD pending |
| (65) | .1.. | | TCMEDDP | DYNAMIC DELETE pending |
| (65) | ..1. | | TCMEPNAC | Pending AUTOCONNECT |
| (65) | ...1 1... | | * | TCME - Reserved |
| (65) |1.. | | TCMEPNOS | Pending ¬IN SERVICE |
| (65) |1. | | TCMEPNLG | Pending CREATESESS. |
| (65) |1 | | TCMEPNAA | Pending AUTOCONNECT all |
| (66) | BIT(8) | 1 | TCMEDII2 | DYNAMIC INSTALL indicators |
| (66) | 1... | | * | RESERVED |
| (66) | .1.. | | TCMEUIP | Update in place |
| (66) | ..11 1111 | | * | RESERVED |
| (67) | CHARACTER | 1 | * | TCME - Reserved |
| (68) | HALFWORD | 2 | TCMEPMAX | Potential LOCAL_MAX_ALLOW |
| (6A) | HALFWORD | 2 | TCMEPMCO | Potential MAX CON_WINNERS |
| (6C) | ADDRESS | 4 | TCMEDPGR | Address of MACRO version |
| (70) | BIT(8) | 1 | TCMEIFG1 | Flags - 1 |
| (70) | 1... | | TCMELSM | LU SERVICES MANAGER TCTME |
| (70) | .1.. | | TCMETDY | TCPLR TIDYUP to run? |
| (70) | ..1. | | TCMECON | CONNECT= AUTO |
| (70) | ...1 | | TCMECNO | initial CNOS sent |
| (70) | 1... | | TCMEBCL | CICS to BIND CON_LOSERS |
| (70) |1.. | | TCMEPCN | Postponed CNOS needed |
| (70) |1. | | TCMEOUT | Mode group OUT OF SERVICE |
| (70) |1 | | TCMECLO | Mode group TEMP. CLOSED |
| (71) | BIT(8) | 1 | TCMEIFG2 | Flags - 2 |
| (71) | 1... | | TCMETRM | Performing TERMINATION |
| (71) | .1.. | | TCMEACT | ACTIVATE SCAN flag |

Table 582. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---|
| (71) | ..1. | | TCMESHU | SHUTDOWN in progress |
| (71) | ...1 | | TCMEINT | Initial CNOS x'chge done |
| (71) | 1... | | TCMEERR | Permanent Error in mode group |
| (71) |1.. | | TCMER12 | RC12 issued by XZIQUE |
| (71) |1. | | TCME_LOCK_DENIED | Busy on CNOS target sys |
| (71) |1 | | TCMEPGIP | Purge in progress |
| (72) | HALFWORD | 2 | TCMEACNT | Queued Allocates processed |
| (74) | HALFWORD | 2 | TCMEAR12 | Allocates after RC12 |
| (76) | HALFWORD | 2 | TCMEQPCT | XZIQUE purge mode count |
| (78) | CHARACTER | 8 | TCMEAQTS | Time alloc Queue began |
| (80) | ADDRESS | 4 | TCME_LOCK_TOKEN | LM token for CNOS lock |
| (84) | HALFWORD | 2 | TCME_ORD_COUNT | Outstanding remote deactivation count |
| (86) | HALFWORD | 2 | TCME_WTL_COUNT | Expected unbinds for Winner-To-Loser switch |
| (88) | HALFWORD | 2 | TCME_LTW_COUNT | Expected unbinds for Loser-To-Winner switch |
| (8A) | CHARACTER | 0 | TCMEGET | Length for ZC Install |

DESCRIPTIVE NAME = TCTTE BMS Extension

Table 583.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 52 | TCTTETTE | TCTTE BMS Extension |
| (0) | UNSIGNED | 1 | TCTTEELN | Entry length (includes PARTITION Extension for BTAM) |
| (1) | BIT(8) | 1 | * | Reserved |
| (2) | CHARACTER | 3 | TCTTEOCL | Operator class code |
| (5) | BIT(16) | 2 | TCTTETFS | Terminal features |
| (5) | BIT(8) | 1 | TCTTEFMB | BMS flag bytes |
| (5) | 1... | | TCTTEOBO | OBOPID specified |
| (5) | .1.. | | TCTTETFV | VERTICAL format feature |
| (5) | ..1. | | TCTTETFH | FORM FEED feature |
| (5) | ...1 | | TCTTENRA | DON'T route with LIST = ALL |
| (5) | 1... | | TCTTENR | NEVER route to this terminal |
| (5) |1.. | | TCTTEFMP | User FMH PARAMS supported |
| (5) |1. | | TCTTEOBF | OUTBOARD FORMATTING support data |

Table 583. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (5) |1 | | TCTTETFM | 2780 MULTI-RECORD feature |
| (6) | BIT(8) | 1 | * | |
| (6) | 1... | | TCTTELDC | BMS LDC device |
| (6) | .1.. | | * | |
| (6) | ..1. | | * | |
| (6) | ...1 | | * | |
| (6) | 1... | | * | |
| (6) |1.. | | * | |
| (6) |1. | | * | |
| (6) |1 | | TCTTETFF | HORIZONTAL format feature |
| (7) | UNSIGNED | 1 | TCTTEPGL | 3270 default PAGE size ROWS * |
| (8) | UNSIGNED | 1 | TCTTEPGC | 3270 default PAGE size COLS * |
| (9) | UNSIGNED | 1 | TCTEAPGL | 3270 alternate PAGE size ROWS * |
| (A) | UNSIGNED | 1 | TCTEAPGC | 3270 alternate PAGE size COLS * |
| (B) | BIT(8) | 1 | TCTTEPGB | Terminal Paging Status |
| (B) | 1... | | TCTTEPGP | TRMSTAT=PAGE |
| (B) | .1.. | | TCTTEPGR | TRMSTAT TEMP INVERTED |
| (B) | ..1. | | TCTTEPGD | DISPLAY status |
| (B) | ...1 | | TCTTEPGI | DISPLAY status task |
| (B) | 1... | | TCTTEPGG | CONVERSATIONAL pages |
| (B) |1.. | | TCTTEPGO | Some MCB has EODPURG=OPER |
| (B) |1. | | TCTTEPG3 | Terminal is 3270 |
| (B) |1 | | TCTTEPGA | PURGE BMS PAGE after ATNI |
| (C) | CHARACTER | 3 | * | Reserved BMS Extension |
| (F) | CHARACTER | 1 | TCTTEDDS | DEVICE DEPENDENCE suffix |
| (10) | CHARACTER | 1 | TCTTEMSS | MAP SET suffix |
| (11) | CHARACTER | 1 | TCTTEAMS | ALTERNATE MAP SET suffix |
| (12) | HALFWORD | 2 | TCTTEBFS | Buffer suffix |
| (14) | ADDRESS | 4 | TCTTEPSA | System SPOOLING EXTN.address * |
| (18) | ADDRESS | 4 | TCTTETPA | (DFHTCTPE) address |
| (1C) | ADDRESS | 4 | TCTTEXHN | -> TCTTE if dynamic entry * |

Table 583. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (20) | ADDRESS | 4 | TCTTEPGM | Addr of first message CB |
| (24) | CHARACTER | 8 | TCTTEBMN | Name of last mapset |
| (2C) | CHARACTER | 7 | TCTTEMAP | Name of last map |
| (33) | CHARACTER | 1 | * | Reserved |
| (34) | CHARACTER | 0 | TCTTEEXE | End of extension |

DESCRIPTIVE NAME = TCTTE Special Features Extension

Table 584.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (0) | STRUCTURE | 28 | TCTTEPSE | |
| (0) | UNSIGNED | 1 | TCTTEQLN | Extension length |
| (1) | BIT(8) | 1 | TCTTEQSL | Printer RSL |
| (2) | CHARACTER | 2 | TCTTEQPT | Printer type, X'32XX' |
| (4) | CHARACTER | 8 | TCTTEQST | Spooling target printer |
| (4) | CHARACTER | 8 | TCTTEQSD | Spooling printer dest.ID * |
| (C) | CHARACTER | 4 | TCTTEQF | Spooling forms ID |
| (10) | ADDRESS | 4 | TCTTEQAP | Spooling control block address * |
| (14) | HALFWORD | 2 | TCTTEQLC | Spooling line-up counter |
| (16) | CHARACTER | 1 | TCTTEQCL | Spooling device class |
| (17) | BIT(8) | 1 | * | Spooling flag byte |
| (17) | 1... | | TCTTEQPM | No printed messages * |
| (18) | CHARACTER | 4 | * | Reserved * |
| (1C) | CHARACTER | 0 | TCTTEPXE | End of SYS.SPOOLING EXTN. |

DESCRIPTIVE NAME = TCTTE LUTYPE6.2 Extension

Table 585.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------|------------------------|
| (0) | STRUCTURE | 236 | TCTTELUC | Start of LUC Extension |
| This area (from TCTE_LUCX_TRACE to TCTE_LUCX_TRACE_LEN) is traced in some ZC level 1 trace formats | | | | |
| (0) | CHARACTER | 64 | TCTE_LUCX_TRACE | LUCX trace area |
| (0) | CHARACTER | 1 | * | |
| (0) | UNSIGNED | 1 | TCTTELUL | Length of extension |
| (1) | CHARACTER | 3 | TCTESTAT | LU 6.2 state bytes |
| (1) | BIT(8) | 1 | TCTELUC1 | Flag byte 1 |
| (1) | 1... | | TCTEPLL | PARTIAL LL count set |
| (1) | .1.. | | TCTECEBS | CEB to be sent |
| (1) | ..1. | | TCTECEBR | CEB received |
| (1) | ...1 | | TCTECCDS | CD to be sent |

Table 585. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (1) | 1... | | TCTECCDR | CD received |
| (1) |1.. | | TCTECDR2 | DR2 to be sent |
| (1) |1. | | TCTECDR1 | DR1 to be sent |
| (1) |1 | | TCTESDR | Remember DR1 RQD |
| (2) | BIT(8) | 1 | TCTELUC2 | Flag Byte 2 |
| (2) | 1... | | TCTEFMS | FMH to be sent |
| (2) | .1.. | | TCTEFMR | FMH received |
| (2) | ..1. | | TCTEDEX | -ER* received |
| (2) | ...1 | | TCTERCR | -ZLSX given return code |
| (2) | 1... | | TCTEBUF | buffer type RECEIVE |
| (2) |1.. | | TCTERCL | ZRVL recalled by ZRLX |
| (2) |1. | | TCTELLK | LL set by caller |
| (2) |1 | | TCTEIMP | IMPLICIT SEND |
| (3) | BIT(8) | 1 | TCTELUC3 | Flag Byte 3 |
| (3) | 1... | | TCTELUN | LUSTAT for NULL RU |
| (3) | .1.. | | TCTUAXFI | TCTUA XFRMD from TOR |
| (3) | ..1. | | TCTELIC | Resp to LUSTAT CEB, RQD2 o/s |
| (3) | ...1 | | TCTERES | Response to be sent |
| (3) | 1... | | TCTEAHB | ATT FMH generated |
| (3) |1.. | | TCTERQD2 | SEND with RQD2 |
| (3) |1. | | TCTERQD1 | SEND with RQD1 |
| (3) |1 | | TCTERQE | SEND with ER1 |
| (4) | ADDRESS | 4 | * | reserved (was TCTEURDA) |
| (8) | ADDRESS | 4 | * | reserved (was TCTEPURD) |
| (C) | ADDRESS | 4 | * | reserved (was TCTEHURD) |
| (10) | CHARACTER | 1 | TCTESPL | CONV SYNCPOINT level |
| (11) | CHARACTER | 1 | TCTECVT | Conversation type |
| (11) | 1... | | * | |
| (11) | .1.. | | * | |
| (11) | ..1. | | * | |
| (11) | ...1 | | * | |
| (11) | 1... | | * | |
| (11) |1.. | | * | |
| (11) |1. | | * | |
| (11) |1 | | TCTEMAPD | "MAPPED" |
| (12) | UNSIGNED | 1 | TCTEPLLC | PARTIAL LL count |
| (13) | UNSIGNED | 1 | TCTECCL | CONV. CORRELATOR length |

Table 585. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------|--------------------------------|
| (14) | CHARACTER | 8 | TCTECC | Conversation CORRELATOR |
| (1C) | ADDRESS | 4 | TCTESBA | SEND buffer address |
| (20) | FULLWORD | 4 | TCTESBL | SEND buffer length |
| (24) | ADDRESS | 4 | TCTESBDA | next slot in SEND buffer |
| (28) | FULLWORD | 4 | TCTESBDL | DATE length in SEND BFR |
| (2C) | ADDRESS | 4 | TCTERBA | RECEIVE buffer address |
| (30) | FULLWORD | 4 | TCTERBL | RECEIVE buffer length |
| (34) | ADDRESS | 4 | TCTERDA | Next slot in RECV buffer |
| (38) | FULLWORD | 4 | TCTERBDL | Data length in RECV buffer |
| (3C) | HALFWORD | 2 | TCTELLC | LL count |
| (3E) | HALFWORD | 2 | TCTENLLC | New LL count |
| (3E) | UNSIGNED | 1 | TCTESED | Length of RCVD seed |
| (3F) | UNSIGNED | 1 | TCTELEN | Len of RCVD TRANSFRMD PWD |
| TCTE_LUCX_TRACE_LEN End of LUCX trace area | | | | |
| (40) | ADDRESS | 4 | TCTEAPBF | APPL buffer address |
| (44) | FULLWORD | 4 | TCTEAPBL | APPL buffer length |
| (48) | CHARACTER | 8 | TCTERENC | BIND password seed RCVD in bnd |
| (48) | FULLWORD | 4 | TCTEMAXL | User MAX data required |
| (4C) | FULLWORD | 4 | TCTEDATL | Length of data received |
| (50) | ADDRESS | 4 | TCTEFMHA | Address of FMH received |
| (54) | HALFWORD | 2 | TCTELLCT | LL required |
| (56) | BIT(8) | 1 | TCTECUSR | Conversation use flags |
| (56) | 1111 11.. | | * | Reserved |
| (56) |1. | | TCTECPIC | conversation is CPIC |
| (56) |1 | | TCTENCPC | conversation is not CPIC |
| (57) | CHARACTER | 1 | * | Miscellaneous bits |
| (57) | 1... | | TCTEIIR | Interested in responses |
| (57) | .1.. | | TCTE_PRSS_MATCHED | TCTTE matched to NIB |
| (57) | ..1. | | TCTE_PRSS_REJ_ATTACH | Reject attach flag |
| (57) | ...1 | | TCTE_PRSS_REM_SCHED | Remote schedule flag |
| (57) | 1... | | TCTENRI | Not Receive Immediate |
| (57) |1.. | | TCTE_FLOW_FORGET | Forget flow required |
| (57) |11 | | * | reserved |
| (58) | ADDRESS | 4 | TCTERCSA | RECEIVE SET address |
| (5C) | ADDRESS | 4 | TCTELHNP | -> TCTTE |
| (60) | CHARACTER | 1 | TCTESIL | SESSION INSTANCE length |
| (61) | CHARACTER | 8 | TCTESII | SESSION INST identifier |
| (69) | CHARACTER | 3 | TCTESECA | Reserved |

Table 585. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|--|
| (6C) | ADDRESS | 4 | * | Reserved |
| (70) | CHARACTER | 8 | TCTETPWA | BIND security work area |
| (78) | CHARACTER | 1 | TCTESONC | CLSDST SON code |
| (79) | CHARACTER | 2 | TCTESSNS | System sense code |
| (7B) | CHARACTER | 2 | TCTEUSNS | User sense code |
| (7D) | CHARACTER | 1 | TCTETLD | ETL Deferred Data Flag |
| (7D) | 1... | | TCTETLDD | ETL is deferring the data |
| (7D) | .111 1111 | | * | unused |
| (7E) | HALFWORD | 2 | TCTE_BID_SEQ | Persistent Sessions BB seqno. save area |
| (80) | CHARACTER | 32 | TCTEBLST | Buffer list |
| (A0) | CHARACTER | 8 | TCTEPENC | Primary encrypted seed |
| (A8) | FULLWORD | 4 | TCTEPClk | Previous TOD clock bits for LU62 bind |
| (AC) | ADDRESS | 4 | TCTERPLB | Second RPL |
| (B0) | FULLWORD | 4 | TCTEMINL | Minimum ll to receive |
| (B4) | BIT(8) | 1 | TCTEVOP3 | Operation in progress |
| (B4) | 1... | | TCTERIP | Receive in progress |
| (B5) | BIT(8) | 1 | TCTERPBS | LU62 RPL_B state machine |
| (B6) | BIT(8) | 1 | TCTE_BID_STATUS | Persistent Sessions status for LU62 recovery |
| (B7) | BIT(8) | 1 | TCTE_RESP_STATUS | Persistent sessions status recovery |
| (B8) | CHARACTER | 8 | TCTESEED | BIND PASSWORD seed sent in bnd |
| (C0) | CHARACTER | 8 | TCTERSED | BIND PASSWORD seed RCVD in bnd |
| (C8) | ADDRESS | 4 | TCTERERA | LU62 RPL_in_error address |
| (CC) | ADDRESS | 4 | TCTERBLA | Logical LU62 rcv buf addr |
| (D0) | UNSIGNED | 4 | TCTERBLL | Logical LU62 rcv buf len |
| (D4) | ADDRESS | 4 | TCTECPA | CPC address |
| (D8) | CHARACTER | 4 | TCTERSFR | RELAY SESSION failed reason code |
| (DC) | CHARACTER | 8 | TCTE_MY_ATT_SEQ | Local attach sequence num |
| (E4) | CHARACTER | 8 | TCTE_HIS_ATT_SEQ | Partner attach seq num |
| (EC) | CHARACTER | 0 | TCTTELCE | End of LUC extension |

DESCRIPTIVE NAME = TCTTE NIB Descriptor Extension

Table 586.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-------------------------|
| (0) | STRUCTURE | 116 | TCTENIB | Start of NIB DESCRIPTOR |
| This area (from TCTE_NIBD_TRACE to TCTE_NIBD_TRACE_LEN) is traced in some ZC level 1 trace formats | | | | |

Table 586. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------|---|
| (0) | CHARACTER | 20 | TCTE_NIBD_TRACE | NIBD trace area |
| (0) | CHARACTER | 3 | * | ALIGN length field |
| (3) | UNSIGNED | 1 | TCTENLEX | Length of DESCRIPTOR |
| (4) | ADDRESS | 4 | TCTENPTR | Address of NIB |
| (8) | ADDRESS | 4 | TCTENUSA | User area |
| (C) | CHARACTER | 8 | TCTENNAM | Symbolic node name |
| TCTE_NIBD_TRACE_LEN End of NIBD trace area | | | | |
| (14) | CHARACTER | 8 | TCTENLOG | LOGMODE |
| (1C) | UNSIGNED | 1 | * | Reserved |
| (1D) | UNSIGNED | 1 | TCTENIBN | NIB model INDEX number |
| (1E) | UNSIGNED | 1 | TCTENBDR | BIND routine type number |
| (1F) | UNSIGNED | 1 | TCTENDVP | Device address copied from NIB |
| (20) | ADDRESS | 4 | TCTENBDS | A(SAVED BIND AREA) |
| (24) | FULLWORD | 4 | TCTENBDL | LENGTH OF THE BIND SESSION PARAMETERS SAVED BY SCIP |
| (28) | CHARACTER | 4 | TCTEKSS | Command sense codes |
| (28) | CHARACTER | 1 | TCTEKSS1 | System sense 1 |
| (29) | CHARACTER | 1 | TCTEKSS2 | System sense 2 |
| (2A) | CHARACTER | 1 | TCTEKUS1 | User sense 1 |
| (2B) | CHARACTER | 1 | TCTEKUS2 | User sense 2 |
| (2C) | CHARACTER | 6 | TCTESTNR | Number (STSN) indicators BUILD/RECEIVE area |
| (2C) | CHARACTER | 1 | TCTESTRI | FLOW |
| (2D) | CHARACTER | 1 | TCTESTAC | STSN actions |
| The values of the STSN response codes set in the TCTTE must equal the values for the corresponding codes in the VTAM RPL, since the TCTTE fields are set by copying the corresponding field from the RPL. | | | | |
| (2D) | CHARACTER | 1 | TCTESTRP | STSN response byte storage * |
| (2E) | HALFWORD | 2 | TCTESTIB | Number |
| (30) | HALFWORD | 2 | TCTESTOP | Number |
| (32) | HALFWORD | 2 | TCTESQCI | COMPLEMENTARY version of MY INBOUND FLOW'S logical SEQ. number |
| (34) | HALFWORD | 2 | TCTESQCO | COMPLIMENTARY version of MY OUTBOUND FLOW'S logical SEQ. number |
| (36) | HALFWORD | 2 | TCTESQCM | Command sequence number |
| (38) | CHARACTER | 8 | TCTENRBD | ECHOED BYTES of BIND response invalid |

Table 586. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------------|------------------------------------|
| (40) | BIT(8) | 1 | * | |
| (40) | 1... | | TCTEPSES | And its value |
| (40) | .1.. | | TCTENBLE | NEG BIND specified |
| (40) | ..1. | | TCTENBLR | NEGOTIABLE response required |
| (40) | ...1 | | TCTETNNB | TRY not NEG BIND |
| (40) | 1... | | TCTE_ALIAS_IN_USE | VTAM Alias found |
| (40) |1.. | | TCTE_DIFF_NETWORK | Alias from diff network |
| (40) |1. | | TCTE_POSS_INVAL_ALIAS | May need deleting |
| (41) | BIT(8) | 1 | TCTEERPV | Error processing REASONCODE |
| (42) | CHARACTER | 16 | TCTESQP | Session QUALIFIER PAIR |
| (42) | CHARACTER | 1 | TCTESQPL | Length of SQP field |
| (43) | BIT(8) | 1 | * | SQP field ID - X'01' |
| <p>The format of the SESSION QUALIFIER PAIR IS: \|L\|PSQ\|L\|SSQ\| where L is a one byte length The lengths of both TCTEPSQ and TCTESSQ are from 0 to 8, therefore the position of TCTESSQL is calculated as the Address of TCTEPSQ + the CONTENTS of TCTESQPL. When CICS is the PRIMARY SESSION then the LENGTH of the PSQ IS 4, when it is the SECONDARY SESSION then the LENGTH of the SSQ is 4 IE. The CICS SESSION NAME always has a LENGTH of 4 while the OTHER SESSION NAME will have a LENGTH of 0 to 8.</p> | | | | |
| (44) | CHARACTER | 1 | TCTEPSQS | Start of PSQ |
| (52) | BIT(8) | 1 | * | Length of PASSWORD (X'00') |
| (53) | BIT(8) | 1 | * | |
| (53) | 1... | | TCTNNTMC | TMP action taken for TCNT |
| (54) | ADDRESS | 4 | TCTENNCH | -> Next in NETNAME chain |
| (58) | CHARACTER | 8 | TCTE_LOGON_LOGMODE | LOGMODE name from VTAM LOGON exit. |
| (60) | CHARACTER | 8 | TCTE_NETID | NQN NETID if Alias pres. |
| (68) | CHARACTER | 8 | TCTE_REAL_NETNAME | NQN NETNAME if Alias pres. |
| (70) | FULLWORD | 4 | TCTENIBE | End of NIB DESCRIPTOR |

Table 587.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (0) | STRUCTURE | * | TCTEPSQR | PSQ record based on TCTEPSQS |
| (0) | BIT(8) | 1 | TCTEPSQL | Length of PSQ |
| (1) | CHARACTER | * | TCTEPSQ | PSQ (Max 8 chars) |

Table 588.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | * | TCTESSQR | SSQ record Based on TCTEPSQ + value of PSQ |
| (0) | BIT(8) | 1 | TCTESSQL | Length of SSQ |
| (1) | CHARACTER | * | TCTESSQ | SSQ (Max 8 chars) |

DESCRIPTIVE NAME = TCTTE Dummy Work Element
This DSECT describes a WORK ELEMENT which is GETMAINED in order to hold information regarding unknown LOGONS.
Because the Error may occur many times before ZNAC can process each WE, the WE'S are CHAINED together off the DUMMY TCTTE(VIA field TCTTECIA).
Each element is used to hold a qualified name identifying the unknown LU(NETNAME.2NDARY_SESSION_QUALIFIER), and other sundry data items.

Table 589.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | * | TCTEDMWE | Logon work element |
| (0) | ADDRESS | 4 | TCTEDMCH | Chain field to next WE |
| (4) | BIT(8) | 1 | TCTEDMER | Error type byte 1 |
| (4) | 1... | | TCTEDMCL | CLSDST failed - logon exit |
| (4) | .1.. | | TCTEDMRA | Receive any error - ZRAC |
| (4) | ..1. | | * | Reserved |
| (4) | ...1 | | TCTEDMLG | VTAM detected logic error |
| (4) | 1... | | TCTEDMSM | Issue storage message |
| (4) |1.. | | TCTEDMSL | Negative resp to BIND fail |
| (4) |1. | | TCTEVTMQ | VTAM Quiescing |
| (4) |1 | | TCTEVTMP | VTAM Predatory takeover |
| (5) | BIT(8) | 1 | TCTEDME2 | Error type byte 2 |
| (5) | 1... | | TCTEDMPD | TCTTE Delete pending |
| (5) | .1.. | | TCTEDMAX | AUTOINSTALL max reached |
| (5) | ..1. | | TCTEDMGF | O/S getmain failed |
| (5) | ...1 | | TCTEDMUL | Unknown LU LOGON |
| (5) | 1... | | TCTEDMAI | Autoinstall inactive |
| (5) |1.. | | TCTEDMIT | Invalid LOGON token |
| (5) |1. | | TCTEDMRY | Terminal recovery in prog |
| (5) |1 | | * | Reserved |
| (6) | CHARACTER | 17 | TCTEDMQN | Qualified network name |
| (6) | CHARACTER | 8 | TCTEDMNN | NETNAME |
| (E) | CHARACTER | 1 | TCTEDMDT | '.' SEPARATOR |
| (F) | CHARACTER | 8 | TCTEDMSQ | 2NDARY SESSION QUALIFIER |
| (17) | CHARACTER | 4 | TCTEDMID | Termid |
| (1B) | CHARACTER | 1 | TCTEDMMI | Module instance ID |

Table 589. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|-------------------------|
| (1C) | ADDRESS | 4 | TCTEDMBD | Address of saved BIND |
| (20) | FULLWORD | 4 | TCTEDMBL | Length of saved BIND |
| (24) | UNSIGNED | 4 | TCTEDMSN | Sense data |
| (24) | UNSIGNED | 1 | TCTEDMS1 | System sense byte 1 |
| (25) | UNSIGNED | 1 | TCTEDMS2 | System sense byte 2 |
| (26) | UNSIGNED | 1 | TCTEDMU1 | User sense byte 1 |
| (27) | UNSIGNED | 1 | TCTEDMU2 | User sense byte 2 |
| (28) | CHARACTER | 8 | TCTE_DUMMY_NETID | For DFHZC2411 |
| (30) | CHARACTER | 8 | TCTE_DUMMY_REAL_ NETNAME | For DFHZC2411 |
| (38) | FULLWORD | 4 | TCTE_DUMMY_TNADDR_ LENGTH | For DFHZC2411 |
| (3C) | CHARACTER | * | TCTE_DUMMY_TNADDR | For DFHZC2411 (256 max) |

DESCRIPTIVE NAME = Terminal Control Table Skeleton Entry

The TCT skeleton represents a terminal that is attached to another CICS address space and may interact with this CICS address space via the terminal sharing facility.

The two fields which form the key in the table management index 'TCTN', identify the TCTSE by which this CICS will access the terminal-owning address space and the name that the terminal has in its own address space.

The skeleton also exists in the 'TCTE' table management index

The skeleton is used by the Transaction Routing (some times called Terminal Shipping) component to hold definition information between INSTALL, and task-attach. The skeleton contains only the names unique to the entry, the other parameters are in a "model" referenced by the skeleton.

Models are shareable between skeletons.

The skeleton resides on the 'application' system, there must be a matching normal terminal entry on the 'terminal' system.

When a transaction is to be run, a 'surrogate' TCTTE is created in task-attach and made visible to the transaction program in the usual way.

A reference to the surrogate is placed in the skeleton while one exists.

LIFETIME = Created by ZC INSTALL: destroyed by ZC DELETE.

See DFHZCQ00.

Table 590.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 64 | DFHTCTSK | |
| (0) | CHARACTER | 4 | TCTSKID | Terminal identifier (local). |
| (4) | CHARACTER | 1 | TCTSKTT | Fits under TCTTETT, and contains TCTTESKE. |
| (5) | CHARACTER | 1 | * | |
| (5) | 1... | | TCTSKSIF | System Entry is inflight |
| (5) | .1.. | | TCTSKAIP | Aids in progress |
| (5) | ..1. | | TCTSKNDL | Don't delete me |
| (5) | ...1 | | TCTSKSHI | Definition shipped in |
| (5) | 1... | | TCTSKSAN | TCTSKSYS holds a name |

Table 590. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|--|
| (5) | 1.. | | TCTSKINF | Skeleton is inflight |
| (5) |1. | | TCTSKPSH | Definition is shippable |
| (5) |1 | | TCTSKSHO | Definition shipped out |
| (6) | CHARACTER | 1 | * | |
| (6) | 1... | | TCTSKDDP | Delete started |
| (6) | .1.. | | TCTSK_VIRTUAL_ TERMINAL | CICS Client skel |
| (6) | ..1. | | TCTSK_VT_BITMAP_USED | CICS assigned name |
| (6) | ...1 | | TCTSK_RT_BITMAP_USED | CICS assigned RT name |
| (6) | 1... | | TCTSKNDF | TCTSKNET was defaulted |
| (6) | 1.. | | TCTSK_VT_SO_CAPABLE | signon support for this virtual terminal |
| (6) |1. | | TCTSKIIPC | Used by IPIC connection |
| (6) |1 | | * | Reserved |
| (7) | UNSIGNED | 1 | * | Reserved. |
| (8) | ADDRESS | 4 | TCTSKSYS | Owning system's TCTSE. or name |
| (C) | CHARACTER | 4 | TCTSKHID | Terminal ID in own rection. |
| (10) | ADDRESS | 4 | TCTSKMDE | Address of model TCTTE |
| (14) | ADDRESS | 4 | TCTSKSRE | Address of surrogate TCTTE |
| (18) | CHARACTER | 8 | TCTSKNET | Netname of TOR |
| (20) | CHARACTER | 8 | TCTSK_TITOKEN | token for remote delete |
| (28) | CHARACTER | 8 | TCTSK_TASK_DETACH_ TIME | timestamp |
| (30) | CHARACTER | 8 | TCTSK_TERMINAL_ NETNAME | NETNAME of terminal |
| (38) | CHARACTER | 8 | TCTSK_TOR_GRNAME | GR name of TOR |

DESCRIPTIVE NAME = Terminal Control Table Transaction

Restart Extension

If a transaction is defined to be eligible for restart, copies of the TCTUA and the first TIOA have to be kept in case the transaction is restarted.

When a transaction is defined as restartable, a transaction restart extension is getmained and hung off the TCITE (TCTTERST) Copies of the TCTUA and the initial TIOA are taken. The extension consists of addresses of the copies, followed by the copied data itself. If no TCTUA or TIOA exists the relevant address is zero. If neither the TCTUA nor TIOA exists, no extension is getmained.

LIFETIME = Created by DFHZSUP at transaction start, deleted by DFHZISP when a transaction ends and is not restarting.

Any change to this structure must be reflected in DFHTCTZE A

Table 591.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (0) | STRUCTURE | 24 | DFHTCTRS | |
| (0) | CHARACTER | 24 | TCTRSFIX | Fixed part of extn |
| (0) | CHARACTER | 8 | TCTRSEYE | Eyecatcher |
| (8) | FULLWORD | 4 | TCTRSLEN | Length of restart data |

Table 591. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (C) | ADDRESS | 4 | TCTRSTUA | Address of TCTUA copy |
| (10) | ADDRESS | 4 | TCTRSFMH | Address of FMH5 copy |
| (14) | ADDRESS | 4 | TCTRSTIO | Address of TIOA copy |
| (18) | CHARACTER | 0 | TCTRSCOP | Start of copy area |

=====

CCIN data which is hung from the TCTSE
pointed to by TCSE_CCINDATA_PTR

=====

Table 592.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|-------------|
| (0) | STRUCTURE | 68 | TCSE_CCINDATA | |
| (0) | FULLWORD | 4 | TCSE_DATA_LENGTH | |
| (4) | CHARACTER | 12 | TCSE_HEADER_BLOCK | |
| (4) | FULLWORD | 4 | TCSE_HEADER_LENGTH | |
| (8) | UNSIGNED | 1 | TCSE_GROUP | |
| (9) | UNSIGNED | 1 | TCSE_FUNCTION | |
| (A) | UNSIGNED | 1 | TCSE_VERSION | |
| (B) | UNSIGNED | 1 | TCSE_RESPONSE | |
| (C) | UNSIGNED | 2 | TCSE_REASON | |
| (E) | UNSIGNED | 2 | TCSE_NUM_PARMS | |
| (10) | CHARACTER | 13 | TCSE_APPLID_PARM | |
| (10) | FULLWORD | 4 | TCSE_APPLID_LENGTH | |
| (14) | UNSIGNED | 1 | TCSE_APPLID_PARM_TYPE | |
| (15) | CHARACTER | 8 | TCSE_APPLID | |
| (1D) | CHARACTER | 3 | * | |
| (20) | CHARACTER | 15 | TCSE_CODEPAGE_PARM | |
| (20) | FULLWORD | 4 | TCSE_CODEPAGE_LENGTH | |
| (24) | UNSIGNED | 1 | TCSE_CODEPAGE_PARM_ TYPE | |
| (25) | CHARACTER | 10 | TCSE_CODEPAGE | |
| (2F) | CHARACTER | 1 | * | |
| (30) | CHARACTER | 8 | TCSE_CAPABILITIES_ PARM | |
| (30) | FULLWORD | 4 | TCSE_CAPABILITIES_ LENGTH | |
| (34) | UNSIGNED | 1 | TCSE_CAPABILITIES_ PARM_TYPE | |
| (35) | BIT(8) | 1 | TCSE_ENVIRON | |
| (35) | 1111 11.. | | * | |
| (35) |1. | | TCSE_EBCDIC | |
| (35) |1 | | TCSE_BIGENDIAN | |

Table 592. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|-------------|
| (36) | BIT(16) | 2 | TCSE_CLIENT_ CAPABILITIES | |
| (36) | BIT(8) | 1 | * | |
| (36) | 1... | | TCSE_EXIT_PROCESSING | |
| (36) | .1.. | | TCSE_TRANSLATE_ CAPABLE | |
| (36) | ..1. | | TCSE_DELETE_ENTRIES | |
| (36) | ...1 | | TCSE_TCTUA_COMMAREA | |
| (36) | 1111 | | * | |
| (37) | BIT(8) | 1 | * | |
| (38) | CHARACTER | 10 | TCSE_SECURITY_PARM | |
| (38) | FULLWORD | 4 | TCSE_SECURITY_LENGTH | |
| (3C) | UNSIGNED | 1 | TCSE_SECURITY_PARM_ TYPE | |
| (3D) | UNSIGNED | 1 | TCSE_ECIATTACH_USERID | |
| (3E) | UNSIGNED | 1 | TCSE_ECIATTACH_ PASSWORD | |
| (3F) | UNSIGNED | 1 | TCSE_EPIATTACH_USERID | |
| (40) | UNSIGNED | 1 | TCSE_EPIATTACH_ PASSWORD | |
| (41) | UNSIGNED | 1 | TCSE_CTINATTACH_REQS | |
| (42) | HALFWORD | 2 | TCSE_CTIN_INSTALL_ COUNT | |

=====

CTIN data which is hung from the virtual terminal surrogate TCTE
pointed to by TCTE_CTINDATA_PTR.

=====

Table 593.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|----------------------|
| (0) | STRUCTURE | 19 | TCTE_CTINDATA | |
| (0) | CHARACTER | 8 | TCTE_CODEPAGE_TOKEN | |
| (8) | CHARACTER | 10 | TCTE_CODEPAGE | |
| (12) | BIT(8) | 1 | TCTE_VT_INDICATOR | |
| (12) | 1... | | TCTE_VT_UNINSTALL | VT being uninstalled |
| (12) | .111 1111 | | * | reserved |

Constants

Table 594.

| Len | Type | Value | Name | Description |
|--------------------------------------|------|-------|----------|-------------|
| TERMINAL TYPE CODES TCTTETT FIELD | | | | |
| 1 | HEX | 01 | TCTTET77 | 7770 |
| 1 | HEX | 02 | TCTTES7 | System 7 |
| 1 | HEX | 08 | TCTTECON | Console |

Table 594. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|--|
| 1 | HEX | 12 | TCTTETSD | SEQUENTIAL DISK |
| 1 | HEX | 14 | TCTTETMT | MAGNETIC TAPE |
| 1 | HEX | 18 | TCTTETCR | CARD READER/LINE printer |
| 1 | HEX | 19 | TCTTETSY | SPOOLING system printer |
| 1 | HEX | 1A | TCTTETIN | SPOOLING INTERNAL READER |
| 1 | HEX | 20 | TCTTETHC | HARD COPY TERMINALS |
| 1 | HEX | 21 | TCTTETWX | Model 33/35 TWX |
| 1 | HEX | 22 | TCTTETLX | TELETYPEWRITER |
| 1 | HEX | 24 | TCTTET50 | 1050 |
| 1 | HEX | 28 | TCTTET40 | 2740 |
| 1 | HEX | 2A | TCTTET4C | 2741 CORRESPONDENCE |
| 1 | HEX | 2B | TCTTET4E | 2741 EBCDIC |
| 1 | HEX | 40 | TCTTETVO | VIDEO TERMINALS |
| 1 | HEX | 41 | TCTTET6L | 2260 local |
| 1 | HEX | 48 | TCTTET6R | 2260 remote |
| 1 | HEX | 4A | TCTTET53 | 1053 |
| 1 | HEX | 4C | TCTTET65 | 2265 |
| 1 | HEX | 50 | TCTTETAM | TCAM |
| 1 | HEX | 80 | TCTTETBI | BI-SYNCHRONOUS |
| 1 | HEX | 82 | TCTTET70 | 2770 |
| 1 | HEX | 84 | TCTTET80 | 2780 |
| 1 | HEX | 85 | TCTTE378 | 3780 |
| 1 | HEX | 86 | TCTTE298 | 2980 |
| 1 | HEX | 88 | TCTTET35 | 3735 |
| 1 | HEX | 89 | TCTTET74 | 3740 |
| 1 | HEX | 8A | TCTTET36 | 3600 BISYNCH |
| 1 | HEX | 91 | TCTTET37 | 3277 remote BTAM and REMOTE/LOCAL VTAM |
| 1 | HEX | 92 | TCTTET75 | 3275 remote |
| 1 | HEX | 93 | TCTTET84 | BTAM 3284 remote AND VTAM 3270P all |
| 1 | HEX | 94 | TCTTET86 | BTAM 3286 remote |
| 1 | HEX | 99 | TCTTETL7 | 3277 local BTAM |
| 1 | HEX | 9B | TCTTETL4 | BTAM 3284 local |
| 1 | HEX | 9C | TCTTETL6 | BTAM 3286 local |
| 1 | HEX | A0 | TCTTETPD | BISYNCH - PROGRAMMABLE |
| 1 | HEX | A1 | TCTTES3 | System/3 |
| 1 | HEX | A4 | TCTTE370 | System/370 |

Table 594. (continued)

| Len | Type | Value | Name | Description |
|---------------------|------|-------|----------|--|
| 1 | HEX | A6 | TCTTES7B | System/7 with BSCA |
| 1 | HEX | A6 | TCTTEPUB | PROGRAMMABLE device |
| 1 | HEX | A5 | TCTTE113 | Reserved- PROGRAMMABLE DEVICE |
| 1 | HEX | B0 | TCTESDLC | SDLC device class |
| 1 | HEX | B1 | TCTE3601 | 3601 |
| 1 | HEX | B2 | TCTE3614 | 3614 |
| 1 | HEX | B4 | TCTE3790 | 3790 |
| 1 | HEX | B5 | TCTE90UP | 3790 USERPROGRAM |
| 1 | HEX | B6 | TCTE90PR | 3790 SCS printer |
| 1 | HEX | B8 | TCTE50PL | 3650 PIPELINE |
| 1 | HEX | B9 | TCTE53HC | 3653 HOST CONVERSATIONAL |
| 1 | HEX | BA | TCTE70HC | 3650 ATTACHED 3270 H.C. |
| 1 | HEX | BB | TCTE50UP | 3650 USERPROGRAM |
| 1 | HEX | BD | TCTETCLU | CONTENTION logical unit |
| 1 | HEX | BE | TCTETILU | INTERACTIVE logical unit |
| 1 | HEX | BF | TCTETBLU | Batch logical unit |
| 1 | HEX | C0 | TCTELU6 | LUTYPE 6 |
| 1 | HEX | C1 | TCTELU4 | LUTYPE 4 |
| 1 | HEX | D0 | TCTTEISL | System entry |
| 1 | HEX | D1 | TCTTEISC | MRO Conversation |
| 1 | HEX | D2 | TCTTEMGP | LUC mode group entry |
| 1 | HEX | D3 | TCTTELUS | LUC session |
| 1 | HEX | DF | TCTT3750 | 1750/3750 switching system |
| 1 | HEX | E2 | TCTTESKE | Skeleton entry |
| 1 | HEX | E3 | TCTTECWE | Evanescent console |
| 1 | HEX | E4 | TCTTEAWE | Evanescent terms * |
| ACCESS METHOD FLAGS | | | | |
| 1 | HEX | 00 | TCTELCL | local TERMINATOR-TCSE only |
| 1 | HEX | 80 | TCTEVTAM | Access Method - VTAM |
| 1 | HEX | 40 | TCTEBTAM | Access Method - BTAM |
| 1 | HEX | 20 | TCTEBSAM | Access Method - BSAM |
| 1 | HEX | 10 | TCTETCAM | Access Method - TCAM |
| 1 | HEX | 08 | TCTEGAM | Access Method - GAM |
| 1 | HEX | 02 | TCTEISMM | Access Method - ISMM |
| 1 | HEX | 01 | TCTETMSN | Access Method - TCAM SNA (bit testing only) |
| 1 | HEX | 11 | TCTETCSN | Access Method - TCAM SNA (byte tesing only) |

Table 594. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-------|------------------------------|------------------------------|
| VTAM BUILD AREA CONSTANTS | | | | |
| 1 | HEX | 10 | TCTENMA | No MSG avail and no LDC * |
| 1 | HEX | 20 | TCTEALM | ALARM |
| 1 | HEX | 40 | TCTEFOD | Formatted data |
| 1 | HEX | 80 | TCTESYM | System message generic MSK * |
| 1 | HEX | 90 | TCTEABI | Abnormal initiation |
| 1 | HEX | A0 | TCTEABT | Abnormal termination |
| 1 | HEX | C0 | TCTEIFM | Information message |
| 1 | HEX | D0 | TCTERPM | Retry PROTOCOL MSG |
| 1 | HEX | 04 | TCTE_TPADDR_IPV4 | IPv4 |
| 1 | HEX | 06 | TCTE_TPADDR_IPV6 | IPv6 |
| | | | | |
| 1 | DECIMAL | 0 | CR_PEND_RECOVERY_IGNORE | |
| 1 | DECIMAL | 1 | CR_PEND_RECOVERY_NECESSARY | |
| 1 | DECIMAL | 2 | CR_PEND_RECOVERY_UNNECESSARY | |
| 0 | BIT | 00 | CR_UOW_COLD | |
| 0 | BIT | 01 | CR_UOW_COMMITTED | |
| 0 | BIT | 10 | CR_UOW_BACKED_OUT | |
| 0 | BIT | 11 | CR_UOW_INDOUBT | |
| 0 | BIT | 11 | CR_UOW_DISPOSITION_MASK | |
| 0 | BIT | 0 | PRESUMED_ABORT | |
| 0 | BIT | 1 | PRESUMED_NOHING | |
| 0 | BIT | 00 | CR_RESYNC_UNKNOWN | we cold started |
| 0 | BIT | 01 | CR_RESYNC_OLD | partner pre-5.1 |
| 0 | BIT | 10 | CR_RESYNC_NEW | partner 5.1+ |
| 0 | BIT | 11 | CR_RESYNC_MASK | field mask |
| 0 | BIT | 000 | CR_1ST_LEG | |
| 0 | BIT | 001 | CR_2ND_LEG | |
| 0 | BIT | 010 | CR_3RD_LEG | |
| 0 | BIT | 0 | UNRELIABLE | |
| 0 | BIT | 1 | RELIABLE | |
| ?DFHZCHM TYPE(DECLARE) Values of TCTECHSS | | | | |
| 1 | DECIMAL | 1 | TCTE_BETWEEN_CHAINS_SEND | |
| 1 | DECIMAL | 2 | TCTE_IN_CHAIN_SEND | |
| 1 | DECIMAL | 3 | TCTE_AWAITING_RESPONSE_SEND | |

Table 594. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-------|---------------------------------------|-------------|
| 1 | DECIMAL | 4 | TCTE_PENDING_RESPONSE_SEND | |
| 1 | DECIMAL | 5 | TCTE_NEGATIVE_RESPONSE_RECEIVED | |
| 1 | DECIMAL | 6 | TCTE_BETWEEN_CHAINS_RECEIVE | |
| 1 | DECIMAL | 7 | TCTE_IN_CHAIN_RECEIVE | |
| 1 | DECIMAL | 8 | TCTE_PENDING_RESPONSE_RECEIVE | |
| 1 | DECIMAL | 9 | TCTE_AWAITING_RESPONSE_RECEIVE | |
| 1 | DECIMAL | 10 | TCTE_NEGATIVE_RESPONSE_SEND | |
| ?DFHZBSM TYPE(DECLARE) Values of TCTEBKTS | | | | |
| 1 | DECIMAL | 1 | TCTE_BETWEEN_BRACKETS | |
| 1 | DECIMAL | 2 | TCTE_IN_BRACKET | |
| 1 | DECIMAL | 3 | TCTE_IN_BRACKET_TERM_SEND | |
| 1 | DECIMAL | 4 | TCTE_IN_BRACKET_TERM_RECEIVE | |
| ?DFHZCNM TYPE(DECLARE) Values of TCTECNTS | | | | |
| 1 | DECIMAL | 1 | TCTE_NOT_BOUND | |
| 1 | DECIMAL | 2 | TCTE_NOT_BOUND_CON_WIN | |
| 1 | DECIMAL | 3 | TCTE_NOT_BOUND_CON_LOSE | |
| 1 | DECIMAL | 4 | TCTE_BOUND_CON_WIN | |
| 1 | DECIMAL | 5 | TCTE_BOUND_CON_WIN_ALLOCATED | |
| 1 | DECIMAL | 6 | TCTE_BOUND_CON_WIN_RTR_SENT | |
| 1 | DECIMAL | 7 | TCTE_BOUND_CON_WIN_RTR_PEND | |
| 1 | DECIMAL | 8 | TCTE_BOUND_CON_LOSE | |
| 1 | DECIMAL | 9 | TCTE_BOUND_CON_LOSE_ALLOCATED | |
| 1 | DECIMAL | 10 | TCTE_BOUND_CON_LOSE_BIDDING | |
| 1 | DECIMAL | 11 | TCTE_BOUND_CON_LOSE_BB_CROSSING | |
| 1 | DECIMAL | 12 | TCTE_BOUND_CON_LOSE_RTR_PEND | |
| 1 | DECIMAL | 13 | TCTE_BOUND_CON_LOSE_REBID_PEND | |
| 1 | DECIMAL | 14 | TCTE_BOUND_CON_LOSE_AWAITING_ACTIVITY | |

Table 594. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-------|-------------------------------------|-------------|
| 1 | DECIMAL | 15 | TCTE_BOUND_CON_WIN_ BID_ACCEPTED | |
| ?DFHZCRM TYPE(DECLARE) Values of TCTERPBS | | | | |
| 1 | DECIMAL | 1 | TCTE_INACTIVE | |
| 1 | DECIMAL | 2 | TCTE_INCOMP_REC_WAIT | |
| 1 | DECIMAL | 3 | TCTE_COMP_REC_WAIT | |
| 1 | DECIMAL | 4 | TCTE_INCOMP_REC_IMM | |
| 1 | DECIMAL | 5 | TCTE_COMP_REC_IMM | |
| 1 | DECIMAL | 6 | TCTE_PROCESSED | |
| 1 | DECIMAL | 7 | TCTE_READ_AHEAD | |
| 1 | DECIMAL | 8 | TCTE_RESETSR | |
| ?DFHZUSRM TYPE(DECLARE) Values of TCTEUSRS | | | | |
| 1 | DECIMAL | 1 | TCTE_NOT_ALLOCATED | |
| 1 | DECIMAL | 2 | TCTE_ALLOCATE_IN_ PROGRESS | |
| 1 | DECIMAL | 3 | TCTE_ALLOCATED_SEND | |
| 1 | DECIMAL | 4 | TCTE_ALLOCATED_ RECEIVE_PENDING | |
| 1 | DECIMAL | 5 | TCTE_ALLOCATED_RECEIVE | |
| 1 | DECIMAL | 6 | TCTE_FREE_PENDING_SEND | |
| 1 | DECIMAL | 7 | TCTE_FREE_REQUIRED | |
| 1 | DECIMAL | 8 | TCTE_IN_SYNCPT_SENDER_ ONE_PHASE | |
| 1 | DECIMAL | 9 | TCTE_IN_SYNCPT_RCVER_ ONE_PHASE | |
| 1 | DECIMAL | 10 | TCTE_IN_SYNCPT_SENDER_ TWO_PHASE | |
| 1 | DECIMAL | 11 | TCTE_IN_SYNCPT_RCVER_ TWO_PHASE | |
| 1 | DECIMAL | 12 | TCTE_IN_SYNCPT_ BACKOUT_SENDER | |
| 1 | DECIMAL | 13 | TCTE_IN_SYNCPT_ BACKOUT_RECEIVER | |
| 1 | DECIMAL | 14 | TCTE_ALLOCATED_ CONFIRM_SENDER | |
| 1 | DECIMAL | 15 | TCTE_ALLOCATED_ CONFIRM_RECEIVER | |
| Persistent Sessions State Constants for TCTE_PRSS | | | | |
| 1 | HEX | 00 | TCTE_NO_PRSS_RECOVERY | |
| 1 | HEX | 01 | TCTE_NIB_MATCHED | |
| 1 | HEX | 02 | TCTE_OPNDST_RESTORE_ COMPLETED | |
| 1 | HEX | 20 | TCTE_ZXRC_CLEANUP | |

Table 594. (continued)

| Len | Type | Value | Name | Description |
|--|-----------|-------|--------------------------------|------------------------|
| 1 | HEX | 21 | TCTE_ZXRC_ISSUE_ RECOVERY_MSG | |
| 1 | HEX | 30 | TCTE_ZXPS_CLEANUP | |
| 1 | HEX | 31 | TCTE_ZXPS_DEALLOCATE_ ABEND | |
| 1 | HEX | 32 | TCTE_ZXPS_SEND_IN_ PROGRESS | |
| 1 | HEX | 33 | TCTE_ZXPS_ISSUE_ RECOVERY_MSG | |
| 1 | HEX | 34 | TCTE_ZXPS_RECEIVE_IN_ PROGRESS | |
| 1 | HEX | 41 | TCTE_ZGDA_FMH7_SEND | |
| 1 | HEX | 42 | TCTE_ZGDA_FMH7_COMP | |
| 1 | HEX | 43 | TCTE_ZGDA_FMH7_REC | |
| 1 | HEX | 44 | TCTE_ZGDA_FMH7_REC_EOC | |
| 1 | HEX | 45 | TCTE_ZGDA_RESP | |
| 1 | HEX | FF | TCTE_PRSS_CLSDST_ SCHEDULED | |
| 1 | HEX | FF | TCTE_CLSDST_SCHEDULED | |
| Used in 3735 Mode Control byte TCTTEMCI | | | | |
| 1 | HEX | 00 | TCTTEMCI0 | Initialization image |
| Used in 3740 Mode Control byte TCTTENCI | | | | |
| 1 | HEX | 00 | TCTTENCI0 | Initialization image |
| Used in IRC bracket status byte TCTESBRS | | | | |
| 1 | HEX | 00 | TCTESOB | OUT OF BRACKET |
| 1 | HEX | 80 | TCTESIB | IN BRACKET |
| 1 | HEX | 40 | TCTESBBR | BEGIN BRACKET received |
| 1 | HEX | 10 | TCTESBBS | BEGIN BRACKET sent |
| 1 | HEX | 08 | TCTESEBS | END BRACKET sent |
| 1 | HEX | 04 | TCTESEBR | END BRACKET received |
| SYSTEM TABLE ENTRY DEFINITIONS | | | | |
| Used in TCSETYPE | | | | |
| 1 | CHARACTER | S | TCSETSYS | Full system entry |
| 1 | CHARACTER | L | TCSETLOC | Local region, no links |
| 1 | CHARACTER | I | TCSETIND | INDIRECT System Entry |
| Used in TCSEDSP (DATA-STREAM) | | | | |
| 1 | HEX | 40 | TCSEDSLM | LMS |
| 1 | HEX | 30 | TCSEDSST | Structured field |
| 1 | HEX | 20 | TCSEDS32 | 3270 |
| 1 | HEX | 10 | TCSEDS32 | SCS |
| 1 | HEX | 00 | TCSEDSUS | User |
| Used in TCSEDBA (DE-blocking algorithm) | | | | |

Table 594. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-------|-----------------------------|-------------------------|
| 1 | HEX | 04 | TCSEDBUS | User defined |
| 1 | HEX | 01 | TCSEDBVB | Variable length blocked |
| VTAM INTERNAL REQUESTS for ZSDS ROUTINE Used in TCTERCMO :- | | | | |
| 1 | HEX | 40 | TCTERCSM | CONTINUE SPECIFIC mode |
| 1 | HEX | C0 | TCTERCA | CONTINUE ANY mode |
| Used in TCTERMOD :- | | | | |
| 1 | HEX | 00 | TCTERSYN | Reset RTYPE DFSYN |
| 1 | HEX | 01 | TCTERRSP | Reset RTYPE RESP |
| 1 | HEX | 03 | TCTERASY | Reset RTYPE DFASY |
| LUC Constants TCTE_BID_STATUS constants used in DFHZXPS :- | | | | |
| 1 | HEX | 01 | TCTE_SEND_POSITIVE_RESPONSE | |
| 1 | HEX | 02 | TCTE_SEND_NEGATIVE_RESPONSE | |
| 1 | HEX | 03 | TCTE_SEND_RTR | |
| 1 | HEX | 04 | TCTE_SENT_RTR | |
| 1 | HEX | 05 | TCTE_SEND_LUSTAT_EB | |
| 1 | HEX | 06 | TCTE_AWAITING_BB_RESPONSE | |
| 1 | HEX | 07 | TCTE_SENT_POSITIVE_RESPONSE | |
| 1 | HEX | 08 | TCTE_0814_RECEIVED | |
| 1 | HEX | 09 | TCTE_0813_RECEIVED | |
| 1 | HEX | 0A | TCTE_SEND_RECOVERY_MESSAGE | |
| 1 | HEX | 0D | TCTE_SEND_LUSTAT_BB_EB | |
| TCTE_RESP_STATUS constants used in DFHZXPS | | | | |
| 1 | HEX | 01 | TCTE_DR1_OUTSTANDING | |
| 1 | HEX | 02 | TCTE_DR1_EXPECTED | |
| NIB Descriptor Constants Used in TCTESTAC :- | | | | |
| 1 | HEX | 00 | TCTEACIG | STSN ACTION - IGNORE |
| 1 | HEX | 01 | TCTEACSE | STSN ACTION - SET |
| 1 | HEX | 02 | TCTEACIV | STSN ACTION - INVALID |
| 1 | HEX | 03 | TCTEACST | STSN ACTION - STSN |
| 1 | DECIMAL | 0 | TCTESPL0 | --- NONE |
| 1 | DECIMAL | 1 | TCTESPL1 | --- COMMIT |
| 1 | DECIMAL | 2 | TCTESPL2 | --- all |
| 1 | HEX | 00 | TCTEUNMP | "UNMAPPED" |
| 1 | HEX | FF | TCTECV0 | CONV. type not set |

Table 594. (continued)

| Len | Type | Value | Name | Description |
|---|---------|-------|----------|------------------------------|
| Used in TCTESTRP :- | | | | |
| 1 | HEX | 20 | TCTERPRR | STSN response - RESET * |
| 1 | HEX | 08 | TCTERPTP | STSN response + ve RPLOPOS * |
| 1 | HEX | 04 | TCTERPTN | STSN response -ve RPLONEG * |
| 1 | HEX | 02 | TCTERPIV | STSN response inv RPLOINV * |
| Length of a Skeleton Entry | | | | |
| 4 | DECIMAL | 64 | TCTSKDSP | |
| Length of a fixed part of restart extension | | | | |
| 4 | DECIMAL | 24 | TCTRSFLN | |

TCTWA - TCT transaction work area

DESCRIPTIVE NAME = CICS TS TCT Transaction Work Area
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04

(C) Copyright IBM Corp. 1985, 1994
 FUNCTION = This DSECT defines the Transaction Work Area for the
 Terminal Control Transaction itself. This transaction
 responds to requests for terminal services.

Table 595.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHTCTWA | TWA address is in TCATWAAD |
| (0) | DBL WORD | 8 | TCTWA (0) | Start of TC TWA |
| (0) | ADDRESS | 4 | TCSPTA | Read terminal entry address |
| (4) | CHARACTER | 1 | TCPIND | Polling indicator |
| (5) | CHARACTER | 3 | TCERRSA | Terminal error code save area |
| (8) | ADDRESS | 4 | TCTXTPA | Terminal pool address |
| (C) | BITSTRING | 1 | TCTXLPAF (0) | Line in pool avail flag byte |
| (C) | 1... | | TCTXLPAV | "X'80" Line in pool avail (3170L) |
| (C) | ADDRESS | 4 | TCTXLPA | 1st line in pool pointer save |
| (10) | ADDRESS | 4 | TCTRNTA | Translate table address |
| (14) | ADDRESS | 4 | TCL3PTSV | Local 3270 poll terminal save |
| (18) | ADDRESS | 4 | TCTSPRA | Specific poll return address |
| (1C) | ADDRESS | 4 | TCTWLA | Active wait list address |
| (20) | BITSTRING | 1 | TWASDCF | Single drop control flag |
| (21) | BITSTRING | 1 | (3) | Reserved |
| (24) | FULLWORD | 4 | TWATDRSV | TCP dispatcher return save |

Table 595. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---------------------------------------|
| (28) | FULLWORD | 4 | TWACTIOE | 2260 TIOA end save area |
| (2C) | FULLWORD | 4 | TWACFWD1 | Full word work area |
| (30) | FULLWORD | 4 | TWACFWD2 | Full word work area |
| (34) | FULLWORD | 4 | TWACFWD3 | Full word work area |
| (38) | FULLWORD | 4 | TWACFWD4 | Full word work area |
| (3C) | BITSTRING | 1 | TWATEPF | Timer completion |
| (3C) | .1.. | | TWATEPI | "X'40'" Timer posted flag |
| (3C) | ..1. | | TWALSEI | "X'20'" Local line scan indicator |
| (3D) | BITSTRING | 1 | TWACFLAG | Compatibility control flags |
| (3D) |1 | | TWACDSCI | "X'01'" DAT scan complete indicator |
| (3D) |1. | | TWACWSI | "X'02'" Wrapped screen indicator |
| (3D) |1.. | | TWACSLI | "X'04'" Shortline indicator |
| (3D) | 1... | | TWACSSFI | "X'08'" SMI character found indicator |
| (3D) | ...1 | | TWACWSIT | "X'10'" Wrap screen pseudo ind tab |
| (3E) | HALFWORD | 2 | TWAC2260 | Number of chars/line for 2260 |
| (40) | HALFWORD | 2 | TWAC3270 | Number of chars/line for 3270 |
| (42) | HALFWORD | 2 | TWAFDLBA | First display LN begin address |
| (44) | HALFWORD | 2 | TWALDLBA | Last display line begin address |
| (46) | HALFWORD | 2 | TWAIBDL | Increment between display lines |
| (48) | HALFWORD | 2 | TWACNBEO | Number if bytes for erase |
| (48) | 11.. | | TWACAL | "*-TWAC2260" Compatible area length |
| (4A) | HALFWORD | 2 | TWACBAP | Current buffer address position |
| (4C) | HALFWORD | 2 | TWACLSA | Current line start address |
| (4E) | CHARACTER | 256 | TCTTT | Input data length T & T table |
| (50) | DBL WORD | 8 | RCLOCK | Time of day clock |
| (58) | FULLWORD | 4 | OCLOCK | Word to save internal clock |
| (5C) | FULLWORD | 4 | MSGNTNM (0) | |
| (5C) | ADDRESS | 1 | | |
| (5D) | ADDRESS | 1 | | GENERATE LENGTH |
| (5E) | BITSTRING | 1 | | OPTION BYTE |
| (5F) | BITSTRING | 1 | | RESERVED |

Table 595. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---------------------------------|
| (60) | CHARACTER | 10 | | |
| (6A) | CHARACTER | 8 | NETNAME2 | |
| (72) | CHARACTER | 3 | | |
| (75) | CHARACTER | 35 | JOBNAME2 | |
| (75) | 1..1 1... | | MSGE0001 | "*" |
| (75) | 1..1 1... | | MSGNTNME | "*" |
| ----- | | | | |
| (150) | FULLWORD | 4 | TWAXRPL (0) | |
| (150) | BITSTRING | 1 | | V*1 request byte |
| (151) | BITSTRING | 1 | | V*2 request byte modifier |
| (152) | BITSTRING | 1 | | V*3 MVS System indicator |
| (153) | BITSTRING | 1 | | V*4 response byte |
| (154) | BITSTRING | 1 | | V*5 XRF |
| (155) | BITSTRING | 1 | | V*6 TAKEOVR |
| (156) | CHARACTER | 1 | | V*7 SURVEILLANCE |
| (157) | CHARACTER | 1 | | V*8 signon status |
| (158) | CHARACTER | 8 | (0) | generic applid |
| (158) | CHARACTER | 8 | (0) | 'time' xx ECB posted |
| (158) | CHARACTER | 8 | (0) | program name |
| (158) | CHARACTER | 4 | | - domain id |
| (15C) | CHARACTER | 4 | | - reserved |
| (160) | CHARACTER | 8 | (0) | specific applid |
| (160) | CHARACTER | 4 | | - error id |
| (164) | FULLWORD | 4 | | - global data address |
| (168) | FULLWORD | 4 | (0) | ADI |
| (168) | CHARACTER | 4 | | - MVS id. |
| (16C) | FULLWORD | 4 | (0) | JESDI |
| (16C) | CHARACTER | 4 | | - JES subsystem id. |
| (170) | FULLWORD | 4 | (0) | PDI |
| (170) | FULLWORD | 4 | | Lower clock difference |
| (174) | FULLWORD | 4 | | Upper clock difference |
| (178) | CHARACTER | 8 | | XCF Sysplex name |
| (180) | CHARACTER | 8 | | MVS System name |
| (188) | CHARACTER | 4 | | MVS instance token |
| (188) | | 0 | TCTWALEN | "*-TCTWA" TCP'S TWA Length |
| (0) | FULLWORD | 4 | TCRAFDA | First data record address |
| (0) |1. | | TCRAAREC | "X'02" Re-entered ind. constant |

TCTWE - VTAM Autoinstall work element

Bilingual Control block

=====

CONTROL BLOCK NAME = DFHTCTWE

DESCRIPTIVE NAME = CICS TS (VTAM) AUTOINSTALL WORK EMENT

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FUNCTION = Provide mapping for autoinstall work element components.

The DSECT is used solely within the ZCP DOMAIN.

There are as many WE's as there are autoinstall requests in progress.

The WE is used to store the CINIT_RU or BIND so that the logon may be attempted by DFHZATA.

If the WE contains a TCTTE address then this is a Postponed autoinstall work element (PWE), created by DFHZLGX when there is a LOGON for a TCTTE which is currently being deleted.

If the WE has TCTTECWE set then it is a Autoinstall Work Element used to autoinstall a console and to sign-off or sign-on a known console automatically.

LIFETIME = The WE is created by a GETMAIN issued by DFHZLGX (LOGON-EXIT) or DFHZSCX (SCIP exit) or DFHZCNA (Console Input) when an unknown terminal or console or APPC device attempts to LOGON or BIND or an unknown console issues an MVS MODIFY. It is also created if a known console needs to be signed-off or signed-on automatically. It is also created for a known terminal subject to certain restrictions. The WE is freed by DFHZNCA after DFHZNEP is driven for the OPNDST contition TWAEC=TCSOPSIN or prior to DFHZNEP being driven for a CLSDST contition TWAEC=TCZCLSIN.

The WE is freed by DFHZATA when the request has been processed.

STORAGE CLASS = USER(OS - SUBPOOL 1)

LOCATION = For unknown terminals, each WE is chained off the previous one and the first one is anchored from TCTVANWE in the TCT prefix. After the TCTTE is built by DFHZATA for autoinstall-eligible devices, the WE address is saved in TCTEAWEA. For known terminals, DFHZLGX updates TCTEAWEA.

INNER CONTROL BLOCKS = NONE

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = NONE
MODULE TYPE = DSECT

EXTERNAL REFERENCES = NONE

DATA AREAS = NONE

CONTROL BLOCKS = NONE

GLOBAL VARIABLES (MACRO PASS) = NONE

PN= REASON REL YYMMDD HDXIII : REMARKS

AUTOINSTALL WORK - ELEMENT DSECT

Table 596.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|--|
| (0) | STRUCTURE | * | DFHTCTWE | Autoinstall work element ! |
| (0) | ADDRESS | 4 | TCTWECHN | - AWE chain field ! |
| (4) | ADDRESS | 4 | TCTWE_VTAM_BIND | - address of VTAM read only bind |
| (8) | UNSIGNED | 1 | TCTWETYP | - Data type ID ! |
| (9) | UNSIGNED | 3 | TCTWELEN | - Length of this block ! |
| (C) | ADDRESS | 4 | TCTWETEA | - TCTTE ptr if PWE. ! |
| (10) | CHARACTER | 8 | TCTWE_TEMPLATE_ NETNAME | - NETNAME of GR template |
| (18) | CHARACTER | 8 | TCTWE_NETNAME | - NETNAME for CICS use. Possible alias |
| (20) | CHARACTER | 8 | TCTWE_NETID | - Network ID |
| (28) | CHARACTER | 8 | TCTWE_REAL_NETNAME | - NETNAME from NRINPLU |
| (30) | CHARACTER | 4 | TCTWECID | - VTAM CID ! |
| (34) | UNSIGNED | 2 | TCTWE_RPLSEQNO | - for opnsec ! |
| (36) | UNSIGNED | 1 | * | - flag byte 1 ! |
| (36) | 1... | | TCTWE_BIND_CLONING | - On if APPC bind input ! |
| (36) | .1.. | | TCTWE_GR | - On if both sides are GR registered |
| (36) | ..1. | | TCTWE_GRNAME_CONN | - On if this GR conn is known by its GR name. Off if this is a GR known by its |
| (36) | ...1 | | TCTWE_USE_OUR_MEMBER_NAME | - On if partner knows us partner knows GR name |

Table 596. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|------------------------------------|
| (36) | 1... | | TCTWE_DIFF_NETWORK | - Exit found alias from |
| (36) |1.. | | TCTWE_INSTALL_UDSS04 | - inst Netname from udss04 in bind |
| (37) | UNSIGNED | 1 | * | - flag byte 1 ! |
| (38) | HALFWORD | 2 | TCTWE_TNADDR_LENGTH | - length of tnaddr in AWE |
| (3A) | HALFWORD | 2 | TCTWECLN | - length of CINIT_RU or ! |
| (3A) | HALFWORD | 2 | TCTWE_BIND_LENGTH | - length of APPC BIND ! |
| (3C) | CHARACTER | * | TCTWECRU | - CINIT_RU or ! |
| (3C) | CHARACTER | * | TCTWE_BIND | - APPC BIND ! |

Table 597.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|---------------------------|
| (0) | STRUCTURE | * | TCTWE_TNADDR_S | TNADDR string after CINIT |
| (0) | CHARACTER | 1 | * | |
| (1) | CHARACTER | * | TCTWE_TNADDR | IP addr, port, hostname |

```

=====
Autoinstall Work Element - Console Overlay
=====

```

Table 598.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|-----------------------|
| (30) | STRUCTURE | * | TCTCWE | Console work element |
| (30) | HALFWORD | 2 | TCTCWE_DATA1 | - Length of input |
| (32) | UNSIGNED | 1 | TCTCWE_FLG | - Flag byte |
| (32) | 1... | | TCTCWE_EXT | - Ext cons support |
| (32) | .1.. | | TCTCWE_SEC | - Userid present |
| (32) | ..1. | | TCTCWE_SGN | - Sign-Off/Sign-On |
| (32) | ...1 1111 | | * | Reserved |
| (33) | CHARACTER | 1 | * | Reserved |
| (34) | CHARACTER | 8 | TCTCWE_CART | - Saved CIBXCART |
| (3C) | CHARACTER | 4 | TCTCWE_CNID | - CIBXCNID \| CIBXOCID |
| (40) | CHARACTER | 8 | TCTCWE_CNNM | - Saved CIBXCNNM |
| (40) | CHARACTER | 1 | TCTCWE_CONID | - Saved CIBCONID |
| (41) | CHARACTER | 7 | * | Reserved |
| (48) | CHARACTER | 10 | TCTCWE_USERID | - Userid signed on |
| (52) | HALFWORD | 2 | TCTCWE_USERID_LEN | - length of userid |
| (54) | CHARACTER | 4 | TCTCWE_TERMID | - Termid for signon |
| (58) | ADDRESS | 4 | TCTCWE_CHAIN | - Active WE chain |
| (5C) | CHARACTER | * | TCTCWE_DATA | - Input from console |

TCX - TCA extension for LU6.2

CONTROL BLOCK NAME = DFHTCXDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS TCA Extension For LU6.2
FUNCTION =
This DSECT defines the Process Initialization Parameters (PIP)
and Transaction Program Name (TPN) used by EXEC CICS
CONNECT PROCESS and EXTRACT PROCESS for passing additional data
on LU6.2 attaches.

Table 599.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (0) | STRUCTURE | 0 | DFHTCXDS | , |
| (0) | FULLWORD | 4 | | STGE ACNTG CONTROL DATA |
| (4) | ADDRESS | 4 | | STGE ACNTG CHAIN ADDRESS |
| (8) | HALFWORD | 2 | TCAXPIPL | PIP LENGTH |
| (A) | CHARACTER | 1 | TCAXTPNL | TPN LENGTH |
| (B) | CHARACTER | 64 | TCAXTPN (0) | TPN |
| (0) | FULLWORD | 4 | TCAXPIP (0) | PIP DATA |
| (0) | CHARACTER | 8 | TCAXMODN (0) | MODENAME |
| (0) |11 | | TCAXGETL | "TCAXTPN-TCAXPIPL" PREFIX LENGTH FOR GETMAIN |

TDCI - Transient data control intervals

NAME OF MATCHING PL/S MODULE = NONE
DESCRIPTIVE NAME = Transient Data Control Intervals
CICS/ESA AP Domain
Licensed Materials - Property of IBM
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FUNCTION =
Copybook DFHTDCI provides dsect DFHTDCI which describes
1. the TD control record for Control Interval 0
2. the queue control record for Control Interval m where m > 0
3. the record definition field; i.e. the VSAM RDF
4. the control interval definition field; i.e. the VSAM CIDF
Each control interval on the intrapartition data set is managed according to VSAM rules; i.e. the format is
1. n records where n >= 1; the first record is either the TD control record or a queue control record
2. free space
3. n record definition fields
4. the control interval definition field
LIFETIME =
The lifetime of the control blocks is essentially that of the intrapartition data set.
STORAGE CLASS =

Not applicable.
LOCATION =
Not applicable.
INNER CONTROL BLOCKS =
There are no inner control blocks.
NOTES :
DEPENDENCIES =
S/370
RESTRICTIONS =
There are no restrictions.
MODULE TYPE =
Control block definition.

Table 600.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------|---|
| (0) | STRUCTURE | 0 | DFHTDCI | TD-VSAM CONTROL INT'VAL MAP |
| (0) | .... .... |  | TDFSTCI | "1*" MAP OF FIRST CI OF DATA SET |
| (0) | CHARACTER | 10 | TDID | ID TO BE CHECKED WHEN RESTARTING. |
| (A) | HALFWORD | 2 | TDNUMCI | NUMBER OF CIS USED TO SIZE CI BIT MAP. |
| (C) | | 4 | TDDATED | DATE INFO FROM CSAJYDP |
| (10) | FULLWORD | 4 | TDRESRV (3) | RESERVED |
| (10) | .... .... |  | TDCHREC | "1*" |
| (0) | CHARACTER | 4 | TDCHDI | CHAIN RECORD DESTID |
| (4) | FULLWORD | 4 | TDCHFC | CHAIN RECORD FORWARD CHAIN |
| (8) | CHARACTER | 8 | TDCHCLK | CHAIN RECORD CONTROL INTERVAL GENERATION ID |
| (8) | ...1 | | TDCHL | "1*-TDCHREC" CHAIN RECORD LENGTH |
| DATA RECORDS AND FREE SPACE . . . | | | | |
| (10) | CHARACTER | 3 | TDRDF (0) | RECORD DEFINITION FIELD |
| (10) | BITSTRING | 1 | TDCF | CONTROL FIELD (FLAG BYTE) |
| FLAG BYTE VALUES: | | | | |
| (10) | .... .... |  | TDRSINGL | "X'00" RDF GIVES LENGTH OF SINGLE RECORD. |
| (11) | CHARACTER | 2 | TDLENREC | LENGTH OF RECORD |
| (11) |11 | | TDRDFLN | "1*-TDRDF" LENGTH OF RDF |
| (13) | CHARACTER | 4 | TDCIDF (0) | CI DEFINITION FIELD |
| (13) | CHARACTER | 2 | TDOUS | OFFSET OF UNUSED SPACE |

Table 600. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (15) | CHARACTER | 2 | TDLUS | LENGTH OF UNUSED SPACE (L'CI-L'(CIDF+RDFS)-TDOUS)) |
| (15) |1.. | | TDCIDFLN | "*-TDCIDF" LENGTH OF CIDF |
| (15) | ...1 .111 | | TDCIEND | "*1" END OF CI |

DUGS - Dump domain global statistics

CONTROL BLOCK NAME = DFHTDGDS
NAME OF MATCHING PL/AS CONTROL BLOCK = DFHTDGPS
DESCRIPTIVE NAME = CICS TS Dump Domain Global Statistics
(Transaction dumps)
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FUNCTION = A record containing Dump Domain Global Statistics
This DSECT describes the global transaction dump statistics produced by the Dump Domain. A single instance of the data is produced by the Dump Domain.
Additional copies may be created by the statistics domain, statistics utility programs or user programs.
The data consists of a header plus a block of statistics for the Dump domain.
LIFETIME = Created when the Dump Domain is initialised and exists for the lifetime of the domain manager.
STORAGE CLASS = varies
LOCATION = User is passed a pointer to the storage
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = In Dump Domain
GLOBAL VARIABLES (Macro pass) = None

Table 601.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------------|
| (0) | STRUCTURE | 0 | DFHTDGDS | Transaction Dump Global Stats |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | TDGLEN | Length of data area |
| (0) | .1.1 .111 | | TDGIDE | "87" Global system dump stats id mask |
| (2) | ADDRESS | 2 | TDGID | Dump Domain global stats id |
| (2) |1 | | TDGVERS | "X'01" Stats version number mask |

Table 601. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|----------------------------------|
| (4) | CHARACTER | 1 | TDGDVERS | Dump domain global stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | TRANS_DUMP_TAKEN | No. of transaction dumps taken |
| (C) | FULLWORD | 4 | TRANS_DUMP_SUPP | No. of transaction dumps supprsd |
| (C) | ...1 | | TDGEND | "*" |
| (C) | ...1 | | TDGCLEN | "*-DFHTDGDS" Length of DSECT |

TDIA - Transient data input area

DESCRIPTIVE NAME = Transient Data Input Area
 CICS/ESA AP Domain
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FUNCTION =
 Copybook DFHTDIPS provides structure DFHTDIA.
 DFHTDIA describes the format of Transient Data Input Areas (TDIAs) as used by CICS, each TDIA consists of a header, the description of which follows, and application defined data.

LIFETIME =
 TDIAs are allocated to hold data passed from Transient Data for
 EXEC CICS READQ TD QUEUE(...) SET(...)
 TDIAs (if allocated) are freed, at latest, at task termination.
 No more than one TDIA is allocated to a task.

STORAGE CLASS =
 TDIAs are allocated from either the USER24 or the USER31 task subpool.

LOCATION =
 The TDIA is addressed from TCZIDAA in the TCA.

INNER CONTROL BLOCKS =
 There are no inner control blocks.

NOTES :
 DEPENDENCIES =
 S/370

RESTRICTIONS =
 There are no restrictions.

MODULE TYPE =
 Control block definition.

Table 602.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---------------------------|
| (0) | STRUCTURE | * | DFHTDIA | Transient Data Input Area |
| (0) | CHARACTER | 16 | TDIA_PREFIX | - prefix |
| (0) | HALFWORD | 2 | TDIA_LENGTH | - length |
| (2) | CHARACTER | 1 | TDIA_ARROW | - value - '>' |
| (3) | CHARACTER | 3 | TDIA_DFH | - value - 'DFH' |

Table 602. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------|
| (6) | CHARACTER | 2 | TDIA_DOMID | - value - 'TD' |
| (8) | CHARACTER | 8 | TDIA_BLOCK | - value - 'TDIA ' |
| (10) | CHARACTER | * | TDIA_DATA | - application data |

TDOA - Transient data output area

DESCRIPTIVE NAME = CICS/MVS AP Domain
 Transient Data Output Area
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 (C) Copyright IBM Corp. 1984, 1992
 FUNCTION =
 Copybook DFHTDOPS provides structure DFHTDOA.
 DFHTDOA describes the format of Transient Data
 Output Areas (TDOAs) as used by CICS. Each TDOA
 consists of a header, the description of which
 follows, and application defined data.
 LIFETIME =
 TDOAs may be allocated to hold data passed to
 Transient Data for
 DFHTD TYPE=PUT,DESTID=...
 however this is not essential.
 TDOAs (if allocated) are freed, at latest, at
 task termination.
 STORAGE CLASS =
 TDOAs are allocated from CLASS=TRANSDATA storage,
 i.e. from task local AMODE(24) storage.
 LOCATION =
 Application defined.
 INNER CONTROL BLOCKS =
 There are no inner control blocks.
 NOTES :
 DEPENDENCIES =
 S/370
 RESTRICTIONS =
 There are no restrictions.
 MODULE TYPE =
 Control block definition.

Table 603.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | * | DFHTDOA | Transient Data Output Area |
| (0) | CHARACTER | 8 | TDOAPFX1 | - storage accounting prefix |
| (0) | BIT(8) | 1 | TDOASCI | - class |
| (1) | BIT(8) | 1 | TDOASFI | - format |
| (2) | HALFWORD | 2 | TDOASAL | - length |
| (4) | ADDRESS | 4 | TDOASCA | - chain |
| (8) | CHARACTER | 4 | TDOAPFX2 | - variable record prefix |
| (8) | HALFWORD | 2 | TDOAVRL | - LL |
| (A) | HALFWORD | 2 | TDOAVBB | - BB |
| (C) | CHARACTER | * | TDOADBA | - data, length in TDOAVRL |

DUTD - Dump domain transaction dump statistics

CONTROL BLOCK NAME = DFHTDRDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHTDRPS
 DESCRIPTIVE NAME = CICS TS Dump Domain Transaction Dump Stats
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 (C) Copyright IBM Corp. 1987, 1991
 FUNCTION = A record containing Dump Domain Transaction Dump Stats
 (By dumpcode)
 This DSECT describes the statistics produced by the Dump
 Domain for each transaction dumpcode. There will be one
 instance of the data for each dumpcode for which statistics
 were requested.
 The data consists of a header plus a block of statistics
 for the Dump domain.
 LIFETIME = Created when the Dump Domain is initialised and
 exists for the lifetime of the Dump Domain.
 STORAGE CLASS =
 LOCATION = User is passed a pointer to the storage
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = In Dump Domain
 GLOBAL VARIABLES (Macro pass) = None

Table 604.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 0 | DFHTDRDS | Dump domain transaction dump stats |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | TDRLEN | Length of data area |
| (0) | .1.1 .1.1 | | TDRIDE | "85" Transaction dump stats id mask |
| (2) | ADDRESS | 2 | TDRID | transaction dump stats id |
| (2) |1 | | TDRVERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | TDRDVERS | Domain data format version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 4 | TDRCODE | Dumpcode |
| (C) | FULLWORD | 4 | TDRSTKN | # of system dumps taken |
| (10) | FULLWORD | 4 | TDRSSUPR | # of system dumps suppressed |
| (14) | FULLWORD | 4 | TDRTTKN | # of transaction dumps taken |
| (18) | FULLWORD | 4 | TDRTSUPR | # of transaction dumps suppressed |

Table 604. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------|
| (18) | ...1 11.. | | TDREND | "*" |
| (18) | ...1 11.. | | TDRLEN | "*-TDRLEN" Length |

TDST - Transient data static storage

DESCRIPTIVE NAME = Transient Data Static Storage.

%PRODUCT AP Domain

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5655-Y04

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FUNCTION =

Copybook DFHTDPS provides structure DFHTDST.

DFHTDST describes Transient Data Static Storage

(TDST), only one TDST is allocated.

LIFETIME =

The lifetime of the control block is essentially that of CICS.

STORAGE CLASS =

The control block is located in storage allocated from the DFHTDG31 subpool.

LOCATION =

The TDST is located from the CSA.

INNER CONTROL BLOCKS =

There are no inner control blocks.

NOTES :

DEPENDENCIES =

S/370

RESTRICTIONS =

There are no restrictions.

MODULE TYPE =

Control block definition.

TRANSIENT DATA STATIC STORAGE

Table 605.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|----------------------------|
| (0) | STRUCTURE | 216 | DFHTDST | |
| (0) | CHARACTER | 16 | TDST_PREFIX | prefix |
| (0) | HALFWORD | 2 | TDST_LENGTH | - length |
| (2) | CHARACTER | 1 | TDST_ARROW | - value - '>' |
| (3) | CHARACTER | 3 | TDST_DFH | - value - 'DFH' |
| (6) | CHARACTER | 2 | TDST_DOMID | - value - 'TD' |
| (8) | CHARACTER | 8 | TDST_BLOCK | - value - 'TDST ' |
| (10) | CHARACTER | 16 | TDST_ENTRIES | entry points |
| (10) | ADDRESS | 4 | TDST_TDANA | - TDA - extrapartition ... |
| (14) | ADDRESS | 4 | TDST_TDBNA | - TDB - intrapartition |
| (18) | ADDRESS | 4 | TDST_TDRM | - TD recovery manager |
| (1C) | ADDRESS | 4 | TDST_EXITLIST | - TD exitlist R30208A |
| (20) | CHARACTER | 64 | TDST_ETOKENS | subpool tokens |
| (20) | CHARACTER | 8 | TDST_G31 | - general use - AMODE 31 |

Table 605. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|---|
| (28) | CHARACTER | 8 | TDST_SDS | - real SDSCI - AMODE 24 - 4 DCTE types - AMODE 31 |
| (30) | CHARACTER | 8 | TDST_EXTRA_DCTE_STG_SUBPOOL | |
| (38) | CHARACTER | 8 | TDST_INTRA_DCTE_STG_SUBPOOL | |
| (40) | CHARACTER | 8 | TDST_INDIR_DCTE_STG_SUBPOOL | |
| (48) | CHARACTER | 8 | TDST_REMOTE_DCTE_STG_SUBPOOL | |
| (50) | CHARACTER | 8 | TDST_IOB | - specific use - I/O buffers |
| (58) | CHARACTER | 8 | TDST_WCB | - specific use - MWCB pool |
| (60) | CHARACTER | 16 | TDST_GENBLKS | general control blocks |
| (60) | ADDRESS | 4 | TDST_MBCA_P | - A(buffer common area) |
| (64) | ADDRESS | 4 | TDST_MRCA_P | - A(string common area) |
| (68) | ADDRESS | 4 | * | - reserved |
| (6C) | ADDRESS | 4 | * | - reserved |
| (70) | CHARACTER | 16 | TDST_SPEBLKS | specific control blocks |
| (70) | ADDRESS | 4 | TDST_CXRF_P | - A(DCTE for CXRF) |
| (74) | ADDRESS | 4 | * | - reserved |
| (78) | ADDRESS | 4 | * | - reserved |
| (7C) | ADDRESS | 4 | * | - reserved |
| (80) | CHARACTER | 4 | TDST_STATUS | TD status |
| (80) | CHARACTER | 1 | TDSTFLG0 | - DCT contains ... |
| (80) | 1... | | TDSTNTRA | - intrapartition |
| (80) | .1.. | | TDSTLREC | - logical recovery |
| (80) | ..1. | | TDSTPREC | - physical recovery |
| (80) | ...1 | | * | - reserved |
| (80) | 1... | | TDSTXTRA | - extrapartition |
| (80) |1.. | | TDSTOPIN | - OPEN=INITIAL |
| (80) |1. | | TDSTNDIR | - indirect |
| (80) |1 | | TDSTUSER | - entries that need Add_User * |
| (81) | CHARACTER | 1 | TDSTFLG1 | - TD start up is ... |
| (81) | 1... | | TDSTCOLD | - cold |
| (81) | .1.. | | TDSTWARM | - warm |
| (81) | ..1. | | TDSTEMER | - emergency |
| (81) | ...1 | | TDSTINOP | - DFHINTRA opened |
| (81) | 1... | | TDST_CLOSED_FOR_REC | TD closed, warm keypointing |
| (81) |1.. | | TDST_COLD_IN_PROGRESS | cold start in progress |
| (81) |1. | | TDST_CLEAR_INTRA_QUEUES | DCT=EMPTY reqd |

Table 605. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------------------|---------------------------------------|
| (81) |1 | | TDFULLMSG | - TD0245 issued ? |
| (82) | CHARACTER | 1 | TDSTFLG2 | |
| (82) | 1111 111. | | * | - reserved |
| (82) |1 | | TD0247MSG | - TD0247 issued ? |
| (83) | CHARACTER | 1 | TDSTFLG3 | - reserved |
| (83) | BIT(8) | 1 | * | - reserved |
| (84) | CHARACTER | 16 | TDST_TD_INIT | TD initialization |
| (84) | CHARACTER | 4 | TDST_ECB | - ECB |
| (84) | 1... | | TDST_DCT_INST | - All DCTs installed |
| (84) | .1.. | | TDST_POST | - (CICS) wait/post bit |
| (84) | BIT(22) POS(3) | 3 | * | |
| (87) | CHARACTER | 1 | TDST_RESP | - return code |
| (87) | 1... | | TDST_RESP_DISASTER | - disaster |
| (87) | .1.. | | TDST_RESP_INVALID | - invalid |
| (87) | ..1. | | TDST_RESP_EXCEPTION | - exception |
| (87) | ...1 1111 | | * | - reserved |
| (88) | CHARACTER | 12 | TDST_SRC | - suspended request chain |
| (88) | ADDRESS | 4 | TDST_TCA_P | - A(owning TCA) or 0 |
| (8C) | ADDRESS | 4 | TDST_MWCB_P | - A(first MWCB) or 0 |
| (90) | CHARACTER | 4 | * | - remove info PLX msg |
| (94) | CHARACTER | 44 | TDST_RECOVERY_DATA | Data associated with RM |
| (94) | CHARACTER | 8 | TDST_TDUA_STG_SUBPOOL | Stg subpool token |
| (9C) | CHARACTER | 8 | TDST_TDQUB_STG_SUBPOOL | Stg subpool token |
| (A4) | CHARACTER | 8 | TDST_TDCUB_STG_SUBPOOL | Stg subpool token |
| (AC) | CHARACTER | 8 | * | TDUA chain head |
| (AC) | ADDRESS | 4 | TDST_TDUA_FIRST | First TDUA |
| (B0) | ADDRESS | 4 | TDST_TDUA_LAST | Last TDUA |
| (B4) | ADDRESS | 4 | TDST_NQ_POOL_TOKEN | NQ pool token |
| (B8) | CHARACTER | 8 | TDST_LAST_CLEAR_TIME | Last time DCT=xx, EMPTY was specified |
| (C0) | CHARACTER | 4 | TDST_LM_TOKEN | Lock manager token |
| (C4) | CHARACTER | 4 | TDST_DIRECTORY_TOKEN | Dir Manager token |
| (C8) | FULLWORD | 4 | TDST_DCTE_INDIRECTS | Indirect DCTEs count |
| (CC) | ADDRESS | 4 | TDST_QR_TCB | Address QR TCB |
| (D0) | CHARACTER | 4 | TDST_INTRA_LM_TOKEN | INTRA LM token |
| (D8) | CHARACTER | 0 | * | |

TDUE - Transient data EXEC Parameter List

CONTROL BLOCK NAME = DFHTDUEC
DESCRIPTIVE NAME = CICS TS EXEC argument list for Transient
Data user exits.

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Although provided in a general library, DFHTDUEC is not
to be used as a general programming interface. Refer to
product documentation to determine intended usage.

The following fields are part of the Product-sensitive
Programming Interface.

TD_ADDR0
TD_ADDR1
TD_ADDR2
TD_ADDR3
TD_ADDR4
TD_ADDR5
TD_ADDR6
TD_ADDR7
TD_GROUP
TD_FUNCT
TD_BITS1
TD_EIDOPT5
TD_EIDOPT6
TD_EIDOPT7
TD_QUEUE
TD_WRITEQ_QUEUE
TD_READQ_QUEUE
TD_DELETEQ_QUEUE
TD_READQ_SET
TD_READQ_INT0
TD_WRITEQ_FROM
TD_LENGTH
TD_WRITEQ_LENGTH
TD_READQ_LENGTH
TD_SYSID
TD_WRITEQ_SYSID
TD_READQ_SYSID
TD_DELETEQ_SYSID

All equates for values of EIBRCODE, EIBRESP and EIBRESP2
form part of the General-purpose Programming Interface.
All remaining fields used in defining the Exec Parameter
List are product sensitive and may vary between CICS
releases.

FUNCTION =

To define the EXEC parameter list for Transient Data
requests, for use by global user exit programs at exit
points XTDEREQ and XTDEREQC.

On entry to the XTDEREQ and XTDEREQC User Exits, the EXEC
parameter list is pointed to by UEPCPLPS.

The EXEC parameter list for Transient Data consists of
eight addresses.

The eight addresses are defined by TD_ADDR0 to TD_ADDR7.
This DSECT defines these addresses and the areas that
they point to.

On entry to the XTDEREQ and XTDEREQC User Exits, the copy
of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP
is pointed to by UEPRESP and the copy of EIBRESP2 is
pointed to by UEPRESP2.

This DSECT also contains equates for values of EIBRCODE,
EIBRESP and EIBRESP2 used by Transient Data.

LIFETIME = Lifetime of the TD command request

STORAGE CLASS = As the storage being mapped is the translated
source in the user's application program, the

storage may be either above or below the line.
LOCATION = (1) EXEC Parameter List is addressed by UEPCPLPS.
(2) Fields copied from the EIB are addressed by
UEPRCODE, UEPRESP and UEPRESP2.
(3) The token for use in communicating between
XTDEREQ and XTDEREQC is addressed by UEPTDTOK.

INNER CONTROL BLOCKS =
TD_ADDR_LIST declares the EXEC addresses.
TD_EID defines the EID pointed to by TD_ADDR0.

NOTES :
DEPENDENCIES = S/370 ESA
RESTRICTIONS = None
MODULE TYPE = Control Block definition

EXTERNAL REFERENCES =
None.
DATA AREAS =
None.
CONTROL BLOCKS =
None.
GLOBAL VARIABLES (Macro pass) =
None.

The command parameter list is a list of addresses which reference the argument values for this EXEC CICS command. The addresses are only valid if the argument is applicable to this command.
For example, address 1 is of the TD QUEUE name for all TD commands, whereas the address 2 is of the FROM data area on WRITEQ commands, the SET address or INTO data area for READQ commands, and is not valid for DELETEQ commands.
The existence bits in the EID component (TD_BITS1) specify those addresses that are valid, and the flagword bits (TD_EIDOPT5 - TD_EIDOPT7) specify the keywords that were given in the EXEC CICS TD command.
Therefore, you can deduce the useage of each address by testing these bits in conjunction with the command function(TD_FUNCT).

Table 606.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--------------------------|
| (0) | STRUCTURE | 32 | TD_ADDR_LIST | TD_ADDR_LIST consists of |
| (0) | ADDRESS | 4 | TD_ADDR0 | the EID |
| (4) | ADDRESS | 4 | TD_ADDR1 | QUEUE name |
| (8) | ADDRESS | 4 | TD_ADDR2 | FROM data area (WRITEQ) |
| INTO data area (READQ) SET address (READQ) | | | | |
| (C) | ADDRESS | 4 | TD_ADDR3 | LENGTH value |
| (10) | ADDRESS | 4 | TD_ADDR4 | Reserved |
| (14) | ADDRESS | 4 | TD_ADDR5 | Reserved |
| (18) | ADDRESS | 4 | TD_ADDR6 | Reserved |
| (1C) | ADDRESS | 4 | TD_ADDR7 | SYSID |

TD_EID (addressed by TD_ADDR0) gives the command function, and contains the existence and flagword bits.
Note: Equates for TD_GROUP, TD_FUNCT, EIBRCODE, EIBRESP and EIBRESP2 values are defined at the end of this data structure.

Table 607.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------|------------------|
| (0) | STRUCTURE | 8 | TD_EID | |
| (0) | CHARACTER | 1 | TD_GROUP | '08'X for TD |
| (1) | CHARACTER | 1 | TD_FUNCT | '02'X for WRITEQ |
| '04'X for READQ '06'X for DELETEQ ----- The existence bits (TD_BITS1) specify the parameters that are valid for this command. For example, TD_EXIST7 set on indicates that TD_ADDR7 is valid, meaning that it addresses a SYSID value. TD_ADDR0 is always valid and has no existence bit. TD_EXIST3 may be modified by a user exit program invoked for a READQ command with the SET option. TD_EXIST7 may be modified by a user exit program invoked for any TD request. None of the other bits may be modified. ----- | | | | |
| (2) | BIT(8) | 1 | TD_BITS1 | |
| (2) | 1... | | TD_EXIST1 | |
| (2) | 1... | | TD_QUEUE_V | |
| (2) | 1... | | TD_WRITEQ_QUEUE_V | |
| (2) | 1... | | TD_READQ_QUEUE_V | |
| (2) | 1... | | TD_DELETEQ_QUEUE_V | |
| (2) | .1.. | | TD_EXIST2 | |
| (2) | .1.. | | TD_WRITEQ_FROM_V | |
| (2) | .1.. | | TD_READQ_SET_INTO_V | |
| (2) | ..1. | | TD_EXIST3 | |
| (2) | ..1. | | TD_LENGTH_V | |
| (2) | ..1. | | TD_WRITEQ_LENGTH_V | |
| (2) | ..1. | | TD_READQ_LENGTH_V | |
| (2) | ...1 11.. | | * | Reserved |
| (2) |1. | | TD_EXIST7 | |
| (2) |1. | | TD_SYSID_V | |
| (2) |1. | | TD_WRITEQ_SYSID_V | |
| (2) |1. | | TD_READQ_SYSID_V | |
| (2) |1. | | TD_DELETEQ_SYSID_V | |
| (2) |1 | | * | Reserved |
| (3) | BIT(16) | 2 | * | Reserved |
| ----- The next 3 bytes (TD_EIDOPT5 - TD_EIDOPT7) are the flagword bits. A user exit program at XTDEREQ can set the TD_READQ_NOSUSPEND_X bit for all READQ requests, and may test (but may NOT modify) the TD_READQ_SET_X bit for all READQ requests. These bits have no meaning for WRITEQ or DELETEQ commands. ----- | | | | |

Table 607. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|----------------------|
| (5) | BIT(8) | 1 | TD_EIDOPT5 | |
| (5) | 1111 111. | | * | Reserved |
| (5) |1 | | TD_READQ_SET_X | SET specified. |
| (6) | BIT(8) | 1 | TD_EIDOPT6 | |
| (6) | BIT(8) | 1 | * | Reserved |
| (7) | BIT(8) | 1 | TD_EIDOPT7 | |
| (7) | 11.. | | * | Reserved |
| (7) | ..1. | | TD_READQ_NOSUSPEND_X | NOSUSPEND specified. |
| (7) | ...1 1111 | | * | Reserved |

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by TD_ADDR1 - TD_ADDR7 in TD_ADDR_LIST.

Table 608.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|----------------|
| (0) | STRUCTURE | 8 | TD_DATA1 | |
| (0) | CHARACTER | 8 | TD_QUEUE | the QUEUE name |
| (0) | CHARACTER | 8 | TD_WRITEQ_QUEUE | |
| (0) | CHARACTER | 8 | TD_READQ_QUEUE | |
| (0) | CHARACTER | 8 | TD_DELETEQ_QUEUE | |

Table 609.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-----------------|
| (0) | STRUCTURE | 4 | TD_DATA2 | |
| (0) | ADDRESS | 4 | TD_READQ_SET | the SET address |
| (0) | CHARACTER | * | TD_READQ_INT0 | the INTO area |
| (0) | CHARACTER | * | TD_WRITEQ_FROM | the FROM area |

Table 610.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-----------------|
| (0) | STRUCTURE | 2 | TD_DATA3 | |
| (0) | HALFWORD | 2 | TD_LENGTH | the data LENGTH |
| (0) | HALFWORD | 2 | TD_WRITEQ_LENGTH | |
| (0) | HALFWORD | 2 | TD_READQ_LENGTH | |

Table 611.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|----------------|
| (0) | STRUCTURE | 4 | TD_DATA7 | |
| (0) | CHARACTER | 4 | TD_SYSID | the SYSID name |
| (0) | CHARACTER | 4 | TD_WRITEQ_SYSID | |

Table 611. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-------------|
| (0) | CHARACTER | 4 | TD_READQ_SYSID | |
| (0) | CHARACTER | 4 | TD_DELETEQ_SYSID | |

Constants

Table 612.

| Len | Type | Value | Name | Description |
|--|---------|-------|-----------------------|-------------|
| Equate for TD_GROUP. All Transient Data requests have group code '08' | | | | |
| 1 | HEX | 08 | TD_TRANDATA_GROUP | |
| Equates for TD_FUNCT values. | | | | |
| 1 | HEX | 02 | TD_WRITEQ | Writeq |
| 1 | HEX | 04 | TD_READQ | Readq |
| 1 | HEX | 06 | TD_DELETEQ | Deleteq |
| Start of General Use Programming Interface. Equates for EIBRCODE values used by Transient Data. | | | | |
| 1 | HEX | 00 | TD_OK_EIBRCODE | |
| 1 | HEX | 01 | TD_QZERO_EIBRCODE | |
| 1 | HEX | 02 | TD_QIDERR_EIBRCODE | |
| 1 | HEX | 04 | TD_IOERR_EIBRCODE | |
| 1 | HEX | 08 | TD_NOTOPEN_EIBRCODE | |
| 1 | HEX | 10 | TD_NOSPACE_EIBRCODE | |
| 1 | HEX | C0 | TD_QBUSY_EIBRCODE | |
| 1 | HEX | D0 | TD_SYSIDERR_EIBRCODE | |
| 1 | HEX | D1 | TD_ISCINVREQ_EIBRCODE | |
| 1 | HEX | D6 | TD_NOTAUTH_EIBRCODE | |
| 1 | HEX | D7 | TD_DISABLED_EIBRCODE | |
| 1 | HEX | E0 | TD_INVREQ_EIBRCODE | |
| 1 | HEX | E1 | TD LENGERR_EIBRCODE | |
| Equates for EIBRESP values used by Transient Data. | | | | |
| 1 | DECIMAL | 0 | TD_OK_EIBRESP | |
| 1 | DECIMAL | 23 | TD_QZERO_EIBRESP | |
| 1 | DECIMAL | 44 | TD_QIDERR_EIBRESP | |
| 1 | DECIMAL | 17 | TD_IOERR_EIBRESP | |
| 1 | DECIMAL | 19 | TD_NOTOPEN_EIBRESP | |
| 1 | DECIMAL | 18 | TD_NOSPACE_EIBRESP | |
| 1 | DECIMAL | 25 | TD_QBUSY_EIBRESP | |
| 1 | DECIMAL | 53 | TD_SYSIDERR_EIBRESP | |
| 1 | DECIMAL | 54 | TD_ISCINVREQ_EIBRESP | |

Table 613. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|-----------------------------------|
| (C) | HALFWORD | 2 | TEPCECIL | Length of the TCTUA |
| Action byte. Initially set to the default actions. User can change these default actions. | | | | |
| (E) | BITSTRING | 1 | TEPCAAC | User actions |
| (E) | 1... .. | | LINEOS | "X'80" Line out of service |
| (E) | .1.. .. | | NONPRGT | "X'40" Non purgable task |
| (E) | ..1. | | TERMOS | "X'20" Terminal out of service |
| (E) | ...1 | | ABENDT | "X'10" Abend transaction |
| (E) | 1... | | ABORTWR | "X'08" Abort write |
| (E) |1.. | | RELTIOA | "X'04" Release TIOA |
| (E) |1. | | SIGNOFF | "X'02" Sign off terminal |
| Useful information. The fields below may be of use to the TEP or TET. All of the following fields are read only. | | | | |
| (F) | CHARACTER | 4 | TEPCATID | Terminal ID |
| (14) | FULLWORD | 4 | TEPCATDB | Current time of day binary |
| (14) | ...1 1... | | TEPCADLN | "*-TEPCALDS" Length of this DSECT |

TIE - Task interface element

CONTROL BLOCK NAME = DFHTIEPS

DESCRIPTIVE NAME = CICS TS Task Interface Element

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FUNCTION =

PLX Structure of the TIE, which represents the intersection of a CICS task (TCA) with a named External Resource Manager represented by a Task Related User Exit (TRUE). An enabled TRUE is represented by an User Exit Program Block (EPB). The TIE holds all the task lifetime information which is passed between a CICS task and a named External Resource Manager.

The TIE belongs to the external resource manager module DFHERM. There can be many TIEs per CICS task. TIEs are chained off the TCA.

LIFETIME =

A TIE is acquired the first time a TRUE is invoked by a CICS task. There is one TIE for each TRUE a task invokes. All TIEs for a task are freed by DFHERM at end of task.

STORAGE CLASS =

TIEs are getmained from a dedicated subpool for each TRUE. Appended to the end of the TIE, is the Task Local Work Area for the TRUE, whose size is specified when the TRUE is enabled. Hence TIEs for different TRUES are different sizes. A TIE subpool is located above the line only if the TRUE is ENABLED specifying LINKEDITMODE, and the TRUE has been linkedited amode(31), meaning that the TRUE is always invoked in amode(31).

LOCATION =

The head of the TIE chain is TCATIEBA in the system TCA. Within a TIE is TIECHNA which points to the next TIE on

the chain for the task.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

Table 614.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 128 | DFHTIEDS | |
| (0) | CHARACTER | 16 | TIE_PREFIX | Standard Prefix |
| (0) | HALFWORD | 2 | TIE_LEN | Length (inc. work area) |
| (2) | CHARACTER | 14 | TIE_EYE | Eyecatcher |
| (2) | CHARACTER | 6 | TIE_EYE1 | '>TIE--' |
| (8) | CHARACTER | 8 | TIE_EYE2 | Resource Manager name |
| (10) | ADDRESS | 4 | TIECHNA | Addr next TIE on TCA chain |
| (14) | ADDRESS | 4 | TIEUTCA | Addr of our TCA (user TCA) |
| (18) | ADDRESS | 4 | TIETRUEP | Addr of current UEPAR plist for TRUE - for dump's use |
| (1C) | ADDRESS | 4 | TIESECBLK | Addr user security block |
| (20) | BIT(8) | 1 | TIESECFLG | Security flags |
| (20) | 1... | | TIENOSEC | Security inactive |
| (20) | .1.. | | * | Reserved |
| (20) | ..1. | | TIESEC | Security active for system |
| (20) | ...1 1111 | | * | Reserved |
| (21) | BIT(8) | 1 | TIEEISFG | EIS settings for the TRUE |
| (21) | 1... | | TIEVALID | TIEEISFG settings are valid |
| (21) | .1.. | | TIEDAT31 | True has DATALOCATION(ANY) |
| (21) | ..1. | | TIECEDFY | True has CEDF(YES) |
| (21) | ...1 | | TIECICS | True has tdatakey(CICS) |
| (21) | 1111 | | * | Reserved |
| (22) | BIT(8) | 1 | TIETRACE | Trace flags for TRUE |
| (22) | 1... | | TIETRLV1 | RMI level 1 trace active |
| (22) | .1.. | | TIETRLV2 | RMI level 2 trace active |
| (22) | ..11 1111 | | * | Reserved |
| (23) | BIT(8) | 1 | * | Reserved |
| (24) | UNSIGNED | 4 | TIEPBTK | WLM PB token |
| (28) | FULLWORD | 4 | TIERCNT | TRUE recursion count |

Table 614. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (2C) | ADDRESS | 4 | TIEEPAD | Addr of EIP transfer vector |
| Recovery Section of TIE. These fields are shared between DFHERM and DFHERMSP which is the RMI syncpoint processor called by Recovery Manager Domain | | | | |
| (30) | CHARACTER | 68 | TIERECOV | Recovery section of TIE |
| (30) | CHARACTER | 8 | TIERTKN | Current UOW id |
| (38) | CHARACTER | 27 | TIE62UOW | Network wide (LU 6.2) UOWID |
| (53) | CHARACTER | 1 | * | filler to word align |
| (54) | CHARACTER | 8 | TIEEPN | Resource Manager name |
| (5C) | CHARACTER | 8 | TIERMQUA | Resource manager qualifier |
| (64) | BIT(32) | 4 | TIELTOK | Link token returned by RM |
| (68) | ADDRESS | 4 | TIEEPBA | Addr of EPB for this TRUE |
| (6C) | BIT(8) | 1 | TIEFOOTP | Footprints for RM Dom calls |
| (6C) | 1... | | TIEADDLK | RMLN ADD_LINK issued |
| (6C) | .1.. | | TIERNEC | Recovery(necessary) set |
| (6C) | ..1. | | TIESINGU | Single_updater(yes) set |
| (6C) | ...1 | | TIESETTK | Set work token issued |
| (6C) | 1... | | TIESETHR | Set heurism(yes) issued |
| (6C) |1.. | | TIESETLI | SET_LINK LINK_ID issued |
| (6C) |1. | | TIETRABD | True has abended |
| (6C) |1 | | TIENOLNK | Add_link too late |
| (6D) | BIT(8) | 1 | TIESYNCP | TRUE's syncpoint parms |
| (6D) | 1... | | TIESUPDR | TRUE understands single.. updater protocol |
| (6D) | .1.. | | TIEREADO | TRUE understands read-only protocol |
| (6D) | ..11 1111 | | * | Reserved |
| (6E) | BIT(16) | 2 | * | Reserved |
| TIEFLAGS is the target of UEPFLAGS during RMI execution. It is initialised from the TRUE's interest profile in the EPB (EPBFLAGS). The first byte of TIEFLAGS is reserved for CICS/VS 1.5 compatibility. | | | | |
| (70) | BIT(32) | 4 | TIEFLAGS | TRUE interest profile |
| (70) | BIT(8) | 1 | TIEFLAG0 | Byte 0 |
| (71) | BIT(8) | 1 | TIEFLAG1 | Byte 1 |
| (72) | BIT(8) | 1 | TIEFLAG2 | Byte 2 |
| (72) | 111. | | * | |
| (72) | ...1 | | TIEMFEDF | Interest in EDF |
| (72) | 1... | | * | |
| (72) |1.. | | TIEMCTER | Interest in shutdown |
| (72) |1. | | * | |

Table 614. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (72) |1 | | TIEMTASK | Interest in task start/end |
| (73) | BIT(8) | 1 | TIEFLAG3 | Byte 3 |
| (73) | 111. | | * | |
| (73) | ...1 | | TIEMSYNC | Interest in Syncpoint |
| (73) | 1... | | TIEMRORM | Avoid unshunting |
| (73) |1.. | | TIEMAPPL | Interest in API calls |
| (73) |1. | | TIEMSPI | Interest in SPI calls |
| (73) |1 | | * | |
| End of Recovery Section | | | | |
| (74) | HALFWORD | 2 | TIEGAL | Global work area length |
| (76) | HALFWORD | 2 | TIETAL | Task Local work area length |
| (78) | ADDRESS | 4 | TIEFREE | Free TIE forward chain |
| NOTE: The offset of TIELWAA must not be changed. | | | | |
| (7C) | ADDRESS | 4 | TIELWAA | Address of LWA |
| End of the task Interface Element | | | | |
| (80) | CHARACTER | 0 | TIEENDA | End of TIE |
| Start of TRUE's Task Local Work Area (if one exists) | | | | |
| (80) | CHARACTER | 0 | TIELWA | Start of TRUE's work area - must be doubleword aligned. |

Constants

Table 615.

| Len | Type | Value | Name | Description |
|------------------------------|------|-------|--------------------------|--------------------------------------|
| RMI Trace points DFHERMSP | | | | |
| 2 | HEX | 2500 | ERMSP_ENTRY | ERMSP entry |
| 2 | HEX | 2501 | ERMSP_EXIT | ERMSP exit |
| 2 | HEX | 2502 | ERMSP_INV_FORMAT | Invalid format |
| 2 | HEX | 2503 | ERMSP_INV_RMRO_FUNCTION | |
| | | | | Invalid rmro function |
| 2 | HEX | 2504 | ERMSP_INV_RMLK_FUNCTION | |
| | | | | Invalid rmlk function |
| 2 | HEX | 2505 | ERMSP_RECOVERY | Recovery routine entered |
| 2 | HEX | 2506 | ERMSP_RMWTI_SET_FAIL | SET WORK_TOKEN from ERMSP has failed |
| 2 | HEX | 2507 | ERMSP_RMUWM_INQ_UOW_FAIL | |
| | | | | INQ UOW from ERMSP has failed |
| 2 | HEX | 2508 | ERMSP_XMAT_ATTACH_FAIL | |

Table 615. (continued)

| Len | Type | Value | Name | Description |
|---------|------|-------|--------------------------|--|
| | | | | attach from ERMSP has failed |
| 2 | HEX | 2509 | ERMSP_RMI_BEFORE | ERMSP is about to call the RMI |
| 2 | HEX | 2510 | ERMSP_RMI_AFTER | Control has returned to ERMSP from the RMI |
| DFHERM | | | | |
| 2 | HEX | 2520 | ERM_ENTRY | entry trace |
| 2 | HEX | 2521 | ERM_EXIT | exit trace |
| 2 | HEX | 2522 | ERM_ABOUT_TO_CALL_TRUE | |
| | | | | Passing control to the true |
| 2 | HEX | 2523 | ERM_RETURN_FROM_TRUE | Receiving control back from the TRUE |
| 2 | HEX | 2524 | ERM_RM_NOT_AVAILABLE | TRUE disabled |
| 2 | HEX | 2525 | ERM_ADD_LINK_FAIL | ADD LINK from ERM has failed |
| 2 | HEX | 2526 | ERM_SET_LINK_FAIL | SET LINK from ERM has failed |
| 2 | HEX | 2527 | ERM_RMWTI_SET_FAIL | SET WORK_TOKEN from ERM has failed |
| 2 | HEX | 2528 | ERM_RMUWI_INQ_FAIL | INQ UOW ID from ERM has failed |
| 2 | HEX | 2529 | ERM_SET_UOW_FAIL | SET UOW from from ERM has failed |
| 2 | HEX | 2530 | ERM_PGEX_ERROR_BEFORE | |
| | | | | PGEX error before calling TRUE |
| 2 | HEX | 2531 | ERM_PGEX_ERROR_AFTER | PGEX error after calling TRUE |
| 2 | HEX | 2532 | ERM_PGEX_ERROR_RECOV | PGEX error during recovery processing |
| 2 | HEX | 2533 | ERM_RECOVERY_ENTERED | ERM's recovery routine invoked |
| 2 | HEX | 2534 | ERM_CHAIR_MODIFIED | XPCHAIR exit in DFHERM modified handle address |
| 2 | HEX | 2535 | ERM_CHANGE_MODE_FAILED | |
| DFHRMSY | | | | |
| 2 | HEX | 2540 | RMSY_ENTRY | RMSY entry |
| 2 | HEX | 2541 | RMSY_EXIT | RMSY exit |
| 2 | HEX | 2542 | RMSY_XMIQM_INQ_TRAN_FAIL | |
| | | | | XMIQM from RMSY failed |
| 2 | HEX | 2543 | RMSY_RMUWM_INQ_UOW_FAIL | |
| | | | | RMUWM inq uow from RMSY has failed |

Table 615. (continued)

| Len | Type | Value | Name | Description |
|----------|------|-------|---------------------------------|--|
| 2 | HEX | 2544 | RMSY_RMDMM_INQ_STARTUP_FAIL | |
| | | | | RMDM call from RMSY has failed |
| 2 | HEX | 2545 | RMSY_UNEXPECTED_RMLN_REASON | |
| | | | | RMSY received an unexpected reason for an exception response from rmln initiate_rec. |
| 2 | HEX | 2546 | RMSY_BAD_RMLN_RESPONSE | |
| | | | | RMSY received serious error from rmln call |
| 2 | HEX | 2547 | RMSY_RMLN_TERMINATE_FAIL | |
| | | | | Terminate recovery issued by RMSY has failed |
| 2 | HEX | 2548 | RMSY_RMI_BEFORE | RMSY is about to call the RMI |
| 2 | HEX | 2549 | RMSY_RMI_AFTER | Control has returned to RMSY from the RMI |
| DFHERMRS | | | | |
| 2 | HEX | 2560 | ERMRS_ENTRY | ERMRS entry |
| 2 | HEX | 2561 | ERMRS_EXIT | ERMRS exit |
| 2 | HEX | 2562 | ERMRS_INV_EIP_FUNCTION | |
| | | | | ERMRS called for wrong EIP function |
| 2 | HEX | 2563 | ERMRS_INV_FUNCTION | Invalid eiei function |
| 2 | HEX | 2564 | ERMRS_RMLN_START_LINK_FAIL | |
| | | | | RMLN start link browse from ERMRS failed |
| 2 | HEX | 2565 | ERMRS_RMLN_GET_NEXT_LINK_FAIL | |
| | | | | RMLN getnext_link from ERMRS failed |
| 2 | HEX | 2566 | ERMRS_RMLN_END_LINK_BROWSE_FAIL | |
| | | | | RMLN end link browse from ERMRS failed |
| 2 | HEX | 2567 | ERMRS_RECOVERY | Recovery routine entered |
| 2 | HEX | 2568 | ERMRS_RMUWM_INQ_UOW_FAIL | |
| | | | | INQ UOW from ERMRS has failed |
| 2 | HEX | 2569 | ERMRS_UNEXPECTED_RMLN_REASON | |

Table 615. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|----------------------------|---|
| | | | | ERMRS received an unexpected reason for an exception response from rmln initiate_rec. |
| 2 | HEX | 2570 | ERMRS_BAD_RMLN_ RESPONSE | |
| | | | | ERMRS received serious error from rmln initiate rec. |
| 2 | HEX | 2571 | ERMRS_RMLN_TERMINATE_ FAIL | |
| | | | | RMLN terminate recovery from ERMRS failed |
| 2 | HEX | 2572 | ERMRS_RMLN_SET_MARK_ FAIL | |
| | | | | RMLN set mark from ERMRS failed |
| 2 | HEX | 2573 | ERMRS_XMAT_ATTACH_FAIL | |
| | | | | attach from ERMRS has failed |

TIOA - Terminal input/output area

DESCRIPTIVE NAME = CICS TS TERMINAL INPUT/OUTPUT AREA
DUAL LANGUAGE DSECT

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FUNCTION = DEFINES THE TERMINAL INPUT/OUTPUT AREA

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = NONE

REGISTER CONVENTIONS = NOT APPLICABLE

PATCH LABEL = NOT APPLICABLE

MODULE TYPE = DSECT

MODULE SIZE = NOT APPLICABLE

ATTRIBUTES = NOT APPLICABLE

ENTRY POINT = NOT APPLICABLE

PURPOSE = DEFINE THE TERMINAL INPUT/OUTPUT AREA

LINKAGE = NOT APPLICABLE

INPUT = NOT APPLICABLE

OUTPUT = NOT APPLICABLE

EXIT-NORMAL = NOT APPLICABLE

EXIT-ERROR = NOT APPLICABLE

EXTERNAL REFERENCES = NOT APPLICABLE

CONTROL BLOCKS = NOT APPLICABLE

TABLES = NOT APPLICABLE

MACROS = NONE

The following fields are for customer use:-

TIOATDL TIOAWCI TIOACLCR

TIOALAC TIOADBA

Table 616.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------------|
| (0) | STRUCTURE | 12 | DFHTIOA | DUMMY SECTION - TERMINAL I/O AREA |

Table 616. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | CHARACTER | 8 | TIOASAA | STORAGE ACCOUNTING AREA |
| (0) | CHARACTER | 2 | * | STORAGE CLASS - TERMINAL |
| (2) | UNSIGNED | 2 | TIOASAL | STORAGE ACCOUNTING AREA LENGTH |
| (4) | ADDRESS | 4 | TIOASCA | CHAIN ADDRESS OF NEXT TERMINAL STORAGE ENTRY FOR THIS TASK |
| (8) | HALFWORD | 2 | TIOATDL | TERMINAL DATA LENGTH |
| (A) | BIT(8) | 1 | TIOAWCI | WRITE CONTROL INDICATOR |
| (B) | CHARACTER | 1 | TIOACLCR | WCC OR CCC CHARACTER |
| (B) | BIT(8) | 1 | TIOALAC | LINE ADDRESS CONTROL |
| (C) | CHARACTER | 0 | TIOADBA | TERMINAL DATA BEGIN ADDRESS |

TMELD - Table Manager Read Lock Block

CONTROL BLOCK NAME = DFHTMELD

NAME OF MATCHING PLS CONTROL BLOCK = LBSEG,LBLOCK SLOT (in DFHTMPPS)

DESCRIPTIVE NAME = CICS TS - Table Management Read Lock Block.

FUNCTION =

The table management read lock block consists of a set of read locks and a count of locks assigned, on primary directory entries. Each time a task uses a locate function, a read lock on the primary directory entry, corresponding to the table entry found, is created by the locate function. A directory entry which has a read lock(s) can not be modified until the lock(s) is(are) released. Read locks are released at task termination or on specific request.

LIFETIME =

The initial read lock block is allocated at AP domain transaction initialization, and release in AP domain transaction termination and so a lock block is part of the AP transaction environment. TMP will acquire storage for a lock block when a task issues a function that requires a lock on a primary table entry (eg. a locate function). Note, when all locks within a lock block are released, the storage for the lock block is not released but re-initialised, thus making it reusable. If a task should require re-starting, then storage for any lock blocks which are not being used is released. Otherwise, storage for all read lock blocks is released at task termination.

STORAGE CLASS = CICS storage (CSATCA31/24) above/below the 16M line.

LOCATION =

In the TCA, TCARLB is the address of the first read lock block. Further read lock blocks are chained by TMELPTR, which is in the read lock block itself.

INNER CONTROL BLOCKS = None.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None.

MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = None.

Table 617.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (0) | STRUCTURE | 0 | DFHTMELD | / |
| (0) | ADDRESS | 4 | TMELPTR | POINTER TO NEXT BLOCK |
| (4) | ADDRESS | 4 | TMENUMRL | NUMBER OF LOCK SLOTS IN BLOCK |
| (4) | 1... | | TMELKSTR | "*" START OF LOCK SLOTS |
| (8) | ADDRESS | 4 | TMELOCKG (2) | TABLE MANAGER LOCK |
| (10) | ADDRESS | 4 | TMELOCKF (2) | TABLE MANAGER LOCK |
| (18) | ADDRESS | 4 | TMELOCKE (2) | TABLE MANAGER LOCK |
| (20) | ADDRESS | 4 | TMELOCKD (2) | TABLE MANAGER LOCK |
| (28) | ADDRESS | 4 | TMELOCKC (2) | TABLE MANAGER LOCK |
| (30) | ADDRESS | 4 | TMELOCKB (2) | TABLE MANAGER LOCK |
| (38) | ADDRESS | 4 | TMELOCKA (2) | TABLE MANAGER LOCK |
| (40) | ADDRESS | 4 | TMELOCK9 (2) | TABLE MANAGER LOCK |
| (48) | ADDRESS | 4 | TMELOCK8 (2) | TABLE MANAGER LOCK |
| (50) | ADDRESS | 4 | TMELOCK7 (2) | TABLE MANAGER LOCK |
| (58) | ADDRESS | 4 | TMELOCK6 (2) | TABLE MANAGER LOCK |
| (60) | ADDRESS | 4 | TMELOCK5 (2) | TABLE MANAGER LOCK |
| (68) | ADDRESS | 4 | TMELOCK4 (2) | TABLE MANAGER LOCK |
| (70) | ADDRESS | 4 | TMELOCK3 (2) | TABLE MANAGER LOCK |
| (78) | ADDRESS | 4 | TMELOCK2 (2) | TABLE MANAGER LOCK |
| (80) | ADDRESS | 4 | TMELOCK1 (2) | TABLE MANAGER LOCK |
| (80) | 1... 1... | | TMELKEND | "*" END OF LOCK SLOTS |
| (80) | 1... | | TMELKSIZ | "TMELOCK1-TMELOCK2" SIZE OF ONE LOCK SLOT |
| (80) | ...1 | | TMENUMSL | "(TMELKEND- TMELKSTR)/TMELKSIZ" NUMBER OF SLOTS ACCORDING TO DSECT |
| (80) | 1... 1... | | TMELSIZE | "*-DFHTMELD" SIZE OF READ LOCK BLOCK |

TMDEL - Table Manager Directory Element

CONTROL BLOCK NAME = DFHTMDEL
 DESCRIPTIVE NAME = CICS TS Table Manager Directory Element
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 FUNCTION =

The table management directory element is a set of pointers
 that address members of chains of directory elements and a

pointer to the corresponding directory segment. SKTFDEA in the table points to the first directory element and DIRGNCHN in each directory element points to its successor. DIRGPCHN points back to the predecessor and is 0 if at the front of the chain

LIFETIME =

Since directory elements are grouped into directory segments, see the prolog for DFHTMSG (directory segment) for details about storage allocation.

Storage for a directory element will last for the duration of a CICS run though, if a table entry is deleted then its corresponding directory element will be marked as reusable and placed on a chain of free directory elements.

STORAGE CLASS =

Shared storage above the 16M line.

LOCATION =

SKTFDEA in the scatter table points to the first directory element, and DIRGNCHN in each directory element points to its successor.

DIRELEMA in a directory segment points to the start of a group of directory elements.

SKTFRDE in the scatter table points to the first free directory element. Subsequent free directory elements are chained together by the DIROWCHN field in the directory element.

INNER CONTROL BLOCKS = None.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None.

EXTERNAL REFERENCES = None.

CONTROL BLOCKS = None.

GLOBAL VARIABLES (Macro pass) = None.

Table 618.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | * | DIRELEM | Directory element |
| Directory element information | | | | |
| (0) | CHARACTER | 28 | DIREINFO | Directory element info. |
| (0) | ADDRESS | 4 | DIRTEA | Table entry address |
| (4) | ADDRESS | 4 | DIRHSCHN | Hash chain |
| (8) | ADDRESS | 4 | DIROWCHN | Ownership chain |
| (C) | ADDRESS | 4 | DIRPRIME | Ptr. to primary DE. |
| (10) | ADDRESS | 4 | DIRGNCHN | Get next chain pointer |
| (14) | ADDRESS | 4 | DIRGPCHN | Get previous chain ptr |
| (18) | UNSIGNED | 1 | DIRETTC | Table type code |
| (19) | BIT(8) | 1 | DIRSTATS | Status of directory entry |
| (19) | 1... | | DIRBFREE | Directory entry is free |
| (19) | .1.. | | DIRBTEAQ | DE is quiesced |
| (19) | ..1. | | DIRBFXD | Table entry free forbidden |
| (19) | ...1 | | * | Reserved |
| (19) | 1... | | * | Reserved |
| (19) |1.. | | * | Reserved |
| (19) |1. | | DIRBADD | Uncommitted ADD request |

Table 618. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------|-----------|-----|------------|----------------------------|
| (19) |1 | | DIRBDEL | Uncommitted DELETE request |
| (1A) | BIT(8) | 1 | DIRTYPE | Type of entry |
| (1A) | 1... | | DIRBPRIM | Primary entry |
| (1A) | .1.. | | DIRBALI | Alias entry |
| (1A) | ..1. | | DIRBINDX | Index entry |
| (1A) | ...1 1111 | | * | Reserved |
| (1B) | BIT(8) | 1 | * | Reserved |
| Directory entry key | | | | |
| (1C) | CHARACTER | * | DIRKEY | Key of this entry |

TMDSG - Table Manager Directory Segment

CONTROL BLOCK NAME = DFHTMDSG

DESCRIPTIVE NAME = CICS TS Table Manager Directory Segment.

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FUNCTION =

The table management directory segment holds a group of directory elements (for each table entry there is a directory element. For a table entry which has aliases, there will be a directory element for each alias). Directory elements are grouped together in this way in order to reduce the number of requests for storage allocation. The number of directory elements per directory segment is controlled by TMNDESG in the table manager static storage.

LIFETIME =

Storage for a directory segment is acquired when adding a table entry, adding an alias name to an existing table entry, or when adding an entry to a secondary table (ie. a table which contains entries for remote objects). On subsequent additions to the table, storage for a new directory segment is acquired only when there are no free directory elements in the existing segment.

Once created, directory segments last for the duration of the CICS run. Note that if a table entry is deleted then its directory element is marked as reusable.

STORAGE CLASS =

Shared storage above the 16M line.

LOCATION =

The first segment is located by SKTDIRSA in the scatter table. Subsequent segments are chained by DIRSGCHN in the directory segments themselves.

INNER CONTROL BLOCKS = DFHTMDEL (directory element).

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None.

MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None.

DATA AREAS = None.

CONTROL BLOCKS = None.

GLOBAL VARIABLES (Macro pass) = None.

Table 619.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------|-----------|-----|--------------|-----------------------------|
| (0) | STRUCTURE | * | DIRSEG | Directory segment |
| Standard header | | | | |
| (0) | CHARACTER | 16 | DIRHDR | Standard header |
| (0) | HALFWORD | 2 | DIRLNTH | Total length of table |
| (2) | CHARACTER | 1 | DIRARRW | Eye-catcher part 1: > |
| (3) | CHARACTER | 3 | DIRDFH | Eye-catcher part 2: DFH |
| (6) | CHARACTER | 2 | DIRTM | Eye-catcher part 3: TM |
| (8) | CHARACTER | 8 | DIREYEC | Block id: 'DIRSEG ' |
| Directory segment information | | | | |
| (10) | CHARACTER | 8 | DIRINFO | Directory segment info. |
| (10) | ADDRESS | 4 | DIRSGCHN | Next directory segment ptr. |
| (14) | HALFWORD | 2 | * | Reserved |
| (16) | HALFWORD | 2 | * | Reserved |
| (18) | CHARACTER | 256 | DIRELEMA (*) | Directory elements |

TMRQ - Table Manager Parameter List

```

CONTROL BLOCK NAME = DFHTMRQ
DESCRIPTIVE NAME = CICS TS Table Manager Parameter List
                    code and working storage for DFHTMP.
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS =
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
MODULE TYPE = Control block definition

```

```

-----
EXTERNAL REFERENCES =
DATA AREAS =
CONTROL BLOCKS =
GLOBAL VARIABLES (Macro pass) =
-----

```

Table 620.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (0) | STRUCTURE | 20 | TMRQLIST | |
| (0) | UNSIGNED | 4 | TMRQTW1 | Trace data |
| (0) | UNSIGNED | 1 | TMRQTR | Request type |
| (1) | BIT(8) | 1 | TMRQRM | Request modifier |
| (1) | 1... | | TMRQRMCM | Commit immediately |
| (1) | .1.. | | TMRQRMMLL | Local lock operation |
| (1) | ..1. | | TMRQRMNC | Do not copy table entry |
| (1) | ...1 | | TMRQRMNF | Entry storage fixed |
| (1) | 1... | | TMRQNOLK | Do not lock entry |
| (1) |1.. | | TMRQRMNCN | Conditional request |

Table 620. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (1) |1.. | | TMRQRNXB | Get Next Best |
| (1) |1. | | TMRQRMUL | Getnext unlock |
| (1) |1 | | TMRQRMNU | Non-unique entries allowed |
| (1) |1 | | TMRQRBTE | Browse token exists |
| (2) | UNSIGNED | 1 | TMRQTTC | Table type code |
| (3) | UNSIGNED | 1 | TMRQRC | Response code |
| (4) | ADDRESS | 4 | TMRQKEYP | Address of key |
| (4) | HALFWORD | 2 | TMRQHASH | Initial hash table size |
| (8) | ADDRESS | 4 | TMRQATE | Address of table entry |
| (8) | ADDRESS | 4 | TMRQRLDA | Address of lock data list |
| (8) | HALFWORD | 2 | TMRQKEYL | Key length |
| (A) | HALFWORD | 2 | TMRQMLLN | Max average locate length |
| (C) | ADDRESS | 4 | TMRQALIP | Address of alias name |
| (C) | HALFWORD | 2 | * | Reserved |
| (E) | UNSIGNED | 1 | TMRQTTCP | Primary table type |
| (10) | ADDRESS | 4 | TMRQBRTK | Address of browse tok |
| (10) | HALFWORD | 2 | TMRQTEL | Table entry length |
| (10) | UNSIGNED | 1 | TMRULRC | Reason code (Unlock) |

Constants

Table 621.

| Len | Type | Value | Name | Description |
|------------------------|---------|-------|----------|------------------------|
| Table Type Code Values | | | | |
| 1 | DECIMAL | 1 | TMRQPCT | PCT entries |
| 1 | DECIMAL | 2 | TMRQPCTR | PCT remote entries |
| 1 | DECIMAL | 3 | TMRQPPT | PPT entries |
| 1 | DECIMAL | 4 | TMRQPFT | PFT entries |
| 1 | DECIMAL | 5 | TMRQFCT | FCT entries |
| 1 | DECIMAL | 6 | TMRQDCT | DCT entries |
| 1 | DECIMAL | 7 | TMRQTCTE | TCT terminal entries |
| 1 | DECIMAL | 8 | TMRQTCTN | TCT skeleton entries |
| 1 | DECIMAL | 9 | TMRQTCTS | TCT system entries |
| 1 | DECIMAL | 10 | @NM00002 | Reserved |
| 1 | DECIMAL | 11 | TMRQDSN | DSNAME blocks |
| 1 | DECIMAL | 12 | TMRQDSNA | DSNAME alternate index |
| 1 | DECIMAL | 13 | TMRQPRT | PRT entries |
| 1 | DECIMAL | 14 | TMRQTPNT | TPNT entries |
| 1 | DECIMAL | 15 | TMRQTCNT | TCNT entries |
| 1 | DECIMAL | 16 | TMRQAITM | AITM entries |

Table 621. (continued)

| Len | Type | Value | Name | Description |
|----------------------|---------|-------|----------|-------------------|
| 1 | DECIMAL | 17 | TMRQSNT | SNT entries |
| 1 | DECIMAL | 18 | TMRQTCSE | TCSE entries |
| 1 | DECIMAL | 19 | TMRQTCSR | TCSR entries |
| 1 | DECIMAL | 20 | TMRQTCSI | TCSI entries |
| 1 | DECIMAL | 21 | TMRQTCSN | TCSN entries |
| 1 | DECIMAL | 22 | TMRQTCTR | TCTR entries |
| 1 | DECIMAL | 23 | TMRQTCSM | TCSM entries |
| 1 | DECIMAL | 24 | TMRQTCNR | TCNR entries |
| Request Byte Values | | | | |
| 1 | DECIMAL | 1 | TMRQLOC | Locate |
| 1 | DECIMAL | 2 | TMRQGTN | Get Next |
| 1 | DECIMAL | 3 | TMRQGNA | Get Next Alias |
| 1 | DECIMAL | 4 | TMRQADD | Add |
| 1 | DECIMAL | 5 | TMRQDEL | Delete |
| 1 | DECIMAL | 6 | TMRQALI | Alias |
| 1 | DECIMAL | 7 | TMRQLOK | Lock |
| 1 | DECIMAL | 8 | TMRQULK | Unlock |
| 1 | DECIMAL | 9 | TMRQCRI | Create index |
| 1 | DECIMAL | 10 | TMRQNDX | Index |
| 1 | DECIMAL | 11 | TMRQQUI | Quiesce |
| 1 | DECIMAL | 13 | TMRQDWE | DWE |
| 1 | DECIMAL | 14 | TMRQRST | Reset |
| 1 | DECIMAL | 15 | TMRQUNQ | Unquiesce |
| 1 | DECIMAL | 16 | TMRQGSK | Get secondary key |
| Response Code Values | | | | |
| 1 | DECIMAL | 0 | NORMRESP | Normal response |
| 1 | DECIMAL | 4 | NOTFND | Not found |
| 1 | DECIMAL | 8 | DUPFND | Duplicate found |
| 1 | DECIMAL | 12 | INVREQ | Invalid request |
| 1 | DECIMAL | 16 | TEBUSY | Table entry busy |
| 1 | DECIMAL | 20 | PROTECT | Protected entry |
| 1 | DECIMAL | 24 | RLHELD | Read lock held |
| 1 | DECIMAL | 28 | RLNOTED | Read lock noted |
| 1 | DECIMAL | 32 | NORLHELD | No read lock now |

TMSKT - Table Manager Scatter Table

CONTROL BLOCK NAME = DFHTMSKT
 DESCRIPTIVE NAME = CICS TS Table Manager Scatter Table.
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FUNCTION =
The table management scatter table holds pointers to directory elements for use by the Table Manager Program. TMASKTx in the table management static storage area holds the address of this area.

LIFETIME =
It exists for the duration of the CICS System. Storage for the scatter table (for each CICS table supported by the table manager) is allocated at CICS initialisation. However, the table manager reserves the right to dynamically rehash a scatter table when TMCOUNT (the number of table entries) is greater than or equal to TMTRIGR (trigger value for rehash). During rehash, storage (above the 16M line) is acquired for the new hash table, and storage used by the old hash table is released.

STORAGE CLASS =
Shared storage above the 16M line.

LOCATION =
Pointed to by TMASKTx in the table manager static storage.

INNER CONTROL BLOCKS = None.

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None.
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None.
DATA AREAS = None.
CONTROL BLOCKS = None.
GLOBAL VARIABLES (Macro pass) = None.

Table 622.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | * | SKTTBLE | Scatter table |
| Standard header | | | | |
| (0) | CHARACTER | 20 | SKTHDR | Standard header |
| (0) | FULLWORD | 4 | SKTLNTH | Total length of table |
| (4) | CHARACTER | 1 | SKTARRW | Eye-catcher part 1: > |
| (5) | CHARACTER | 3 | SKTDFH | Eye-catcher part 2: DFH |
| (8) | CHARACTER | 2 | SKTTM | Eye-catcher part 3: TM |
| (A) | CHARACTER | 8 | SKTEYEC | Block id: 'SCATTER ' |
| (12) | HALFWORD | 2 | * | Reserved |
| Scatter table information | | | | |
| (14) | CHARACTER | 28 | SKTINFO | Scatter table information |
| (14) | BIT(8) | 1 | SKTFLAG1 | Flag byte 1 |
| (14) | 1... | | SKTNUEA | Non-unique entries allowed |
| (14) | .111 1111 | | * | Reserved |
| (15) | BIT(8) | 1 | SKTFLAG2 | Flag byte 2 |
| (15) | BIT(8) | 1 | * | Reserved |
| (16) | UNSIGNED | 1 | SKTTTC | Table type code |
| (17) | UNSIGNED | 1 | SKTTTCP | Table type code for primary |
| (18) | HALFWORD | 2 | SKTDELN | Directory entry length |
| (1A) | HALFWORD | 2 | SKTKEYLN | Length of key |

Table 622. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------|-----------|-----|--------------|-----------------------------|
| (1C) | FULLWORD | 4 | SKTMAXN | Maximum number of entries |
| (20) | ADDRESS | 4 | SKTDIRSA | First directory segment ptr |
| (24) | ADDRESS | 4 | SKTFDEA | First directory element ptr |
| (28) | ADDRESS | 4 | SKTFRDE | First free dir element ptr |
| (2C) | FULLWORD | 4 | SKTNUMDS | # directory segments |
| (30) | CHARACTER | 16 | SKTRANGE | GetNext Range-Table |
| (30) | FULLWORD | 4 | SKTRNG_NUM | Number of ranges |
| (34) | ADDRESS | 4 | SKTRNG_ADDR | Address of Range Table |
| (38) | FULLWORD | 4 | SKTRNG_SIZE | optimal size of rngs |
| (3C) | FULLWORD | 4 | SKTRNG_USED | Num of slots in use |
| Scatter table pointers | | | | |
| (40) | ADDRESS | 4 | SKTDIREA (*) | Hash table ptr to dir elems |

Range table pointers

Table 623.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-----------------------|
| (0) | STRUCTURE | * | SKTRANGES | Range Table |
| (0) | CHARACTER | 8 | SKTRNG_HEAD | Buffer to spot errors |
| (8) | CHARACTER | 8 | SKTRNGE (*) | Get Next Range Table |
| (8) | FULLWORD | 4 | SKTRNG_COUNT | Num of elems in rng-1 |
| (C) | ADDRESS | 4 | SKTRNG_PTR | Pointer to rng start |

TMS - Table Manager Static Storage Area

CONTROL BLOCK NAME = DFHTMSSA
 DESCRIPTIVE NAME = CICS TS Table Manager Static Storage Area.
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 FUNCTION =
 The table management static storage area holds global data for the Table Manager Program. SSATMP in the CSA's static storage area list holds the address of this area.
 LIFETIME =
 It is allocated and initialised to hex zeroes at initialisation time. It has the lifetime of the CICS System.
 STORAGE CLASS =
 CICS Static Storage.
 LOCATION =
 Addressed by SSATMP in the Static Storage Address List.
 INNER CONTROL BLOCKS = None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None.
 DATA AREAS = None.

CONTROL BLOCKS = None.
GLOBAL VARIABLES (Macro pass) = None.

Table 624.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|----------------|------|-------------------------------|--------------------------------|
| (0) | STRUCTURE | 1124 | TMSTATIC | Static storage for TMP |
| (0) | BIT(8) | 1 | * | Reserved |
| (1) | BIT(16) | 2 | * | Reserved |
| (3) | UNSIGNED | 1 | * | Reserved |
| (4) | FULLWORD | 4 | * | Reserved |
| Table types and position in TMATTV array 1- Reserved 2- Reserved 3- Reserved 4- PFT 5- FCT 6- Reserved 7- TCTE 8- TCTN 9- TCTS 10- AFCT 11- DSN 12- DSNA 13- PRT 14- Reserved 15- TCNT 16- AITM 17- SNT 18- TCSE 19- TCSR 20- TCSI 21- TCSN 22- TCTR 23- TCSM 24- TCNR | | | | |
| (8) | CHARACTER | 32 | TMATTV (4294967320:341914712) | Array of table info |
| (8) | ADDRESS | 4 | TMASKT | Address of scatter table |
| (C) | HALFWORD | 2 | TMNDESG | # elements per segment |
| (E) | HALFWORD | 2 | * | Reserved |
| (10) | FULLWORD | 4 | TMHSIZE | HASH table size |
| (14) | FULLWORD | 4 | TMCOUNT | Num. of entries |
| (18) | FULLWORD | 4 | TMTRIGR | Trigger value to rehash |
| (1C) | BIT(16) | 2 | TMBITS | Miscellaneous flags |
| (1C) | 1... | | TMREHASH | Re-hash of table required |
| (1C) | BIT(15) POS(2) | 2 | * | Reserved |
| (1E) | BIT(16) | 2 | * | Reserved |
| (20) | ADDRESS | 4 | TMABORD | Alphabetical ordering position |
| (24) | FULLWORD | 4 | TMRNGPOS | Range index |
| (308) | ADDRESS | 4 | TMENQHLD | TCA address of enqueueuer |
| (30C) | ADDRESS | 4 | TMQEQHD | Quiesce enqueue chain ptr. |
| (310) | ADDRESS | 4 | * | Reserved |

Table 624. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------|-----------|-----|---------------------------------|----------------------------|
| (314) | ADDRESS | 4 | TMCLHD | Change list head of chain |
| (318) | ADDRESS | 4 | TMCLLAST | Change list latest element |
| Global lock block | | | | |
| (31C) | CHARACTER | 132 | TMGRLESEG | First segment global locks |
| (31C) | ADDRESS | 4 | TMGLCHPT | Pointer to next block |
| (320) | CHARACTER | 8 | TMGLLOCK (4294967312:341918912) | First segment global locks |
| (320) | ADDRESS | 4 | TMGLVALU | Value of lock |
| (324) | UNSIGNED | 4 | TMGLCNT | Count of locks |
| Last rehash time for each table | | | | |
| (3A0) | BIT(64) | 8 | TMRHTIME (4294967320:341913600) | |
| (460) | ADDRESS | 4 | TMLOCK_TOKEN | Lock token for TM |
| (464) | CHARACTER | 0 | TMSTATLN | Define end of block |

TPE - Terminal partition extension

DESCRIPTIVE NAME = CICS TS TERMINAL PARTITION EXTENSION

DUAL LANGUAGE DSECT

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FUNCTION = DEFINES THE TCTTE PARTITION EXTENSION. CHAINED OFF
THE TCTTE BMS EXTENSION IF THE TERMINAL SUPPORTS
PARTITIONS. BUILT BY THE DFHTCTPR MACRO.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = NONE

REGISTER CONVENTIONS = NOT APPLICABLE

PATCH LABEL = NOT APPLICABLE

MODULE TYPE = DSECT

MODULE SIZE = NOT APPLICABLE

ATTRIBUTES = DSECT

ENTRY POINT = NOT APPLICABLE

PURPOSE = DEFINE THE TCTTE PARTITION EXTENSION

LINKAGE = NOT APPLICABLE

INPUT = NOT APPLICABLE

OUTPUT = NOT APPLICABLE

EXIT-NORMAL = NOT APPLICABLE

EXIT-ERROR = NOT APPLICABLE

EXTERNAL REFERENCES = NONE

CONTROL BLOCKS = NOT APPLICABLE

TABLES = NOT APPLICABLE

MACROS = NONE

PLSSTART

Table 625.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 20 | DFHTPE | DUMMY SECTION - TCT PARTITION EXTENSION |
| (0) | CHARACTER | 0 | TPESTART | START OF DEFINITION |
| (0) | HALFWORD | 2 | TPELL | LENGTH OF EXTENSION SET BY DFHTCT MACRO |

Table 625. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (2) | BIT(8) | 1 | TPEFLG1 | FLAG BYTE - SET BY DFHTCT. DEFAULT IS OFF FOR ALL FLAGS |
| (2) | 1... | | * | |
| (2) | .1.. | | * | |
| (2) | ..1. | | * | |
| (2) | ...1 | | * | Reserved |
| (2) | 1... | | TPEVCHAR | CHARACTER CELL SIZE ON A PARTITION BASIS |
| (3) | CHARACTER | 17 | TPEPSETS | NAME FOR TERMINAL SHARING CODE TO SHIP PSET NAMES |
| (3) | CHARACTER | 8 | TPECPSET | UNSUFFIXED NAME OF THE CURRENT (OR APPLICATION) PARTITION SET |
| (3) | CHARACTER | 6 | TPECPST6 | APPL PSET NAME FOR DFHEEI |
| (9) | CHARACTER | 2 | * | RESERVED |
| (B) | CHARACTER | 9 | TPETPSET | TERMINAL PARTITION SET |
| (B) | CHARACTER | 8 | TPELPSET | UNSUFFIXED NAME OF THE LOADED (OR TERMINAL) PARTITION SET ZERO IF TERMINAL IN BASE STATE. BLANK IF TERMINAL STATE IS IN DOUBT |
| (13) | BIT(8) | 1 | TPEFLG2 | DYNAMIC FLAG BYTE |
| (13) | 1... | | TPELPER | TERMINAL PSET HAS AN ERROR MESSAGE PARTITION |

TQR - Transient data statistics

CONTROL BLOCK NAME = DFHTQRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHTQRPS
DESCRIPTIVE NAME = CICS TS Transient Data Queue Statistics
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CICS level at which this module was last updated

FUNCTION =

This data area contains TD Queue statistics provided by the Transient Data functional area.

It is provided for use in users monitoring applications to map the statistics returned via the API, the statistics exit, or offline formatting products.

There is a single instance of this data block.

LIFETIME =

This data block is created by the Transient Data functional

area to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.

STORAGE CLASS =
LOCATION =
The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = none

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Domain call buffer

EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = from Transient Data
GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHTQRDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 626.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHTQRDS | Transient Data Queue statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | TQRLen | Length of data area |
| (0) | ..1. 1.1. | | TQRIDE | "0042" TD Queue resid statistics id mask |
| (2) | ADDRESS | 2 | TQRID | TD Queue resid statistics id |
| (2) |1 | | TQRRVERS | "X'01" Stats version number id mask |
| (4) | CHARACTER | 1 | TQRDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 4 | TQRQID | TD Queue identifier |
| (C) | BITSTRING | 1 | TQRQTYPE | TD Queue destination type |
| (D) | CHARACTER | 3 | | Reserved |
| (10) | FULLWORD | 4 | TQRWRITE | Total writes to queue |
| (14) | FULLWORD | 4 | TQRREAD | Total reads from queue |
| (18) | FULLWORD | 4 | TQRDELET | Total deletes of queue |
| Intrapartition specific fields. | | | | |
| (1C) | HALFWORD | 2 | TQRTRIGL | ATI tranid trigger level |
| (1E) | BITSTRING | 1 | TQRRTYPE | Recovery type |
| (1F) | BITSTRING | 1 | TQRFTYPE | ATI facility type |
| (20) | CHARACTER | 4 | TQRFNAME | ATI facility name |
| (24) | BITSTRING | 1 | TQRWAIT | Indoubt waiting supported |
| (25) | BITSTRING | 1 | TQRWAITA | Indoubt action (reject/queue) |
| (26) | CHARACTER | 2 | | Reserved |
| (28) | CHARACTER | 4 | TQRATRAN | ATI tranid |

Table 626. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|--------------------|--------------------------------------|
| (2C) | FULLWORD | 4 | TQRTRIGN | Number of triglev triggers |
| (30) | FULLWORD | 4 | TQRCCIOUS | Current CI's in use by this queue |
| (34) | FULLWORD | 4 | TQRPCIOUS | Peak CI's in use by this queue |
| (38) | FULLWORD | 4 | TQRCNITM | Current number of items in queue |
| Remote specific fields. | | | | |
| (3C) | CHARACTER | 4 | TQRRSYS | Remote sysid |
| (40) | CHARACTER | 4 | TQRRQID | Remote Queue identifier |
| Indirect specific fields. | | | | |
| (44) | CHARACTER | 4 | TQRIQID | Indirect Queue identifier |
| Extrapartition specific fields. | | | | |
| (48) | BITSTRING | 1 | TQRIOTYP | I/O Type (input/output/readback) |
| (49) | CHARACTER | 3 | | Reserved |
| (4C) | CHARACTER | 8 | TQRDDNM | DD name of Extrapartition queue |
| (54) | CHARACTER | 44 | TQRDSNNM | Dataset name of Extrapartition Queue |
| (80) | CHARACTER | 8 | TQRPDSMN | PDS member name |
| (88) | CHARACTER | 8 | TQR_DEFINE_SOURCE | Group installed from |
| (90) | BITSTRING | 8 | TQR_CHANGE_TIME | Change/create time |
| (98) | CHARACTER | 8 | TQR_CHANGE_USERID | Change userid |
| (A0) | BITSTRING | 2 | TQR_CHANGE_AGENT | Change agent |
| (A2) | BITSTRING | 2 | TQR_INSTALL_AGENT | Install agent |
| (A4) | BITSTRING | 8 | TQR_INSTALL_TIME | Install/Create time |
| (AC) | CHARACTER | 8 | TQR_INSTALL_USERID | Install userid |
| (B4) | CHARACTER | 8 | | Reserved |
| (B4) | 1.11 11.. | | TQREND | "*" |
| (B4) | 1.11 11.. | | TQRCLN | "*-TQRLN" Length of dsect |
| Equates to test TD Queue type (TQRQTYPE). | | | | |
| (B4) |1 | | TQRQTEXT | "1" Extrapartition Queue |
| (B4) |1. | | TQRQTINT | "2" Intrapartition Queue |
| (B4) |11 | | TQRQTIND | "3" Indirect Queue |
| (B4) |1.. | | TQRQTREM | "4" Remote Queue |
| Equates to test TD Facility type for ATI (TQRFTYPE). | | | | |
| (B4) | .... .... |  | TQRFTNA | "0" Not Applicable |
| (B4) |1 | | TQRFTTRM | "1" Terminal |
| (B4) |1. | | TQRFTSYS | "2" System |
| (B4) |11 | | TQRFTNTE | "3" No terminal |
| Equates to test Extrapartition I/O type (TQRIOTYP). | | | | |

Table 626. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-------------|-----|---------------------|---------------------------------------|
| (B4) | .... .... |  | TQRIONA | "0" Not Applicable |
| (B4) |1 | | TQRIOIN | "1" Input |
| (B4) |1. | | TQRIOOUT | "2" Output |
| (B4) |11 | | TQRIORDB | "3" Readback |
| Equates to test Recovery type of queue (TQRRTYPE). | | | | |
| (B4) | .... .... |  | TQRRTNA | "0" Not Applicable |
| (B4) |1 | | TQRRTPH | "1" Physical recoverable |
| (B4) |1. | | TQRRTLGL | "2" Logical recoverable |
| (B4) |11 | | TQRRTNR | "3" Non-recoverable |
| Equates to test indoubt wait option for queue (TQRWAIT). | | | | |
| (B4) | .... .... |  | TQRWTNA | "0" Not Applicable |
| (B4) |1 | | TQRWTYES | "1" Queue supports indoubt waiting |
| (B4) |1. | | TQRWTNO | "2" Does not support indoubt waiting |
| Equates to test indoubt wait action for queue (TQRWAITA). | | | | |
| (B4) | .... .... |  | TQRWANA | "0" Not Applicable |
| (B4) |1 | | TQRWAREJ | "1" Further requests will be rejected |
| (B4) |1. | | TQRWAQUE | "2" Further requests will be queued |
| Equates to test change agent for queue (TQR_CHANGE_AGENT). | | | | |
| (B4) |1 | | TQR_CSDAPI_CHANGE | "0001" CSD API |
| (B4) |1. | | TQR_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (B4) |11 | | TQR_DREPAPI_CHANGE | "0003" DREP API |
| (B4) |1.. | | TQR_CREATE_CHANGE | "0004" EXEC CREATE SPI |
| (B4) |111 | | TQR_SYSTEM_CHANGE | "0007" SYSTEM |
| Equates to test install agent for queue (TQR_INSTALL_AGENT). | | | | |
| (B4) |1 | | TQR_CSDAPI_INSTALL | "0001" CSD API |
| (B4) |1.. | | TQR_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (B4) |1.1 | | TQR_GRPLIST_INSTALL | "0005" GRPLIST |
| (B4) |111 | | TQR_SYSTEM_INSTALL | "0007" SYSTEM |

TQG - Transient data global statistics

CONTROL BLOCK NAME = DFHTQGDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHTQGGS
 DESCRIPTIVE NAME = CICS TS Global statistics for Transient data.
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 (C) Copyright IBM Corp. 1995
 FUNCTION = This data block describes the global transient data
 Statistics.
 The data described here is placed in storage by DFHAPST.

This DSECT is also used by DFHSTUP and user programs to map the statistics block.

LIFETIME = The storage area is created when a request for AP domain Transient data statistics is received. It is released when the caller has acknowledged receipt of the data.

LOCATION = The caller is passed a pointer to the head of the block.

INNER CONTROL BLOCKS = None

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None

DATA AREAS = None

CONTROL BLOCKS = DFHMBBCDS MBCANBFA
DFHMBBCDS MBCACNIU
DFHMBBCDS MBCAMXIU
DFHMBBCDS MBCATNAL
DFHMBBCDS MBCACNAL
DFHMBBCDS MBCAMXAL
DFHMBBCDS MBCATNWT
DFHMBBCDS MBCACNWT
DFHMBBCDS MBCAMXWT
DFHMRBCDS MBCACISZ
DFHMRBCDS MBCANCIS
DFHMRBCDS MBCACTCI
DFHMRBCDS MBCAMXCI
DFHMRBCDS MBCANOSP
DFHMRBCDS MBCACTPT
DFHMRBCDS MBCACTFT
DFHMRBCDS MBCACTGT
DFHMRBCDS MBCACTIO
DFHMRBCDS MBCANSTA
DFHMRBCDS MBCATNAL
DFHMRBCDS MBCACNAL
DFHMRBCDS MBCAMXAL
DFHMRBCDS MBCATNWT
DFHMRBCDS MBCACNWT
DFHMRBCDS MBCAMXWT

GLOBAL VARIABLES (Macro pass) = None

Table 627.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------|-----------|-----|------------|------------------------------------|
| (0) | STRUCTURE | 0 | DFHTQGDS | Transient data statistics (GLOBAL) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | TQGLEN | Length of data area |
| (0) | ..1. 11.1 | | TQGIDE | "45" Transient data stats id mask |
| (2) | ADDRESS | 2 | TQGID | Transient data id |
| (2) |1 | | TQGVERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | TQGDVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| Intrapartition Buffer Stats | | | | |
| (8) | FULLWORD | 4 | TQGANBFA | Number of Buffers |
| (C) | FULLWORD | 4 | TQGAMXIU | Peak containing valid data |

Table 627. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|-----------|-----|------------|---------------------------------------|
| (10) | FULLWORD | 4 | TQGATNAL | Times buffer accessed |
| (14) | FULLWORD | 4 | TQGAMXAL | Peak concurrent access |
| (18) | FULLWORD | 4 | TQGATNWT | Times buffer wait occurred |
| (1C) | FULLWORD | 4 | TQGAMXWT | Peak buffer waits |
| Intrapartition dataset stats | | | | |
| (20) | FULLWORD | 4 | TQGACISZ | Control interval size |
| (24) | FULLWORD | 4 | TQGANCIS | No. of control intervals |
| (28) | FULLWORD | 4 | TQGAMXCI | Peak No. Control intervals used |
| (2C) | FULLWORD | 4 | TQGANOSP | Times NOSPACE occurred |
| (30) | FULLWORD | 4 | TQGACTPT | No. of writes to dataset |
| (34) | FULLWORD | 4 | TQGACTGT | No. of reads from dataset |
| (38) | FULLWORD | 4 | TQGACTFT | No. formatting writes |
| (3C) | FULLWORD | 4 | TQGACTIO | No. of I/O errors |
| Stats for Multiple strings | | | | |
| (40) | FULLWORD | 4 | TQGSNSTA | Number of strings |
| (44) | FULLWORD | 4 | TQGSTNAL | Times string accessed |
| (48) | FULLWORD | 4 | TQGSMXAL | Peak concurrent accesses |
| (4C) | FULLWORD | 4 | TQGSTNWT | Times string wait occurred |
| (50) | FULLWORD | 4 | TQGSMTWT | Peak string waits |
| Current Transient Data statistics | | | | |
| (54) | FULLWORD | 4 | TQGACNAL | Current concurrent buffer access |
| (58) | FULLWORD | 4 | TQGACNWT | Current buffer waits |
| (5C) | FULLWORD | 4 | TQGACNIU | Current buffers containing valid data |
| (60) | FULLWORD | 4 | TQGSCNAL | Current concurrent string access |
| (64) | FULLWORD | 4 | TQGSCNWT | Current string waits |
| (68) | FULLWORD | 4 | TQGACTCI | No. of Control intervals in use |
| (68) | .11. 11.. | | TQGEND | "*" |
| (68) | .11. 11.. | | TQGLEN | "*-TQGLN" Length of DSECT |

TRA - Trace domain - common structures

CONTROL BLOCK NAME = DFHTRA
 DESCRIPTIVE NAME = CICS TS Trace Domain - Common structures
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FUNCTION = Contains the structure for :-
DFHTRA - TR anchor block
TR domain Anchor Block storage definition

Table 628.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------|-----------|-----|--|---|
| (0) | STRUCTURE | 276 | DFHTRA | |
| (0) | CHARACTER | 16 | TRA_PREFIX | Standard control block prefix * |
| (0) | HALFWORD | 2 | TRA_LENGTH | Length of anchor block |
| (2) | CHARACTER | 1 | TRA_ARROW | '>' |
| (3) | CHARACTER | 3 | TRA_DFH | 'DFH' |
| (6) | CHARACTER | 2 | TRA_DOMID | 'TR' |
| (8) | CHARACTER | 8 | TRA_BLOCK_NAME | 'ANCHOR' |
| (10) | CHARACTER | 8 | TRA_LOCK_BLOCK | Trace lock block for DFHKERN Doubleword align for CDS |
| (18) | ADDRESS | 4 | TRA_ATTACH_PLIST (4294967298:341913600) | Plist for DFHTRTCB subtask |
| (20) | CHARACTER | 16 | TRA_NAB_INFO | Quadword used for space allocation by CDSG in init |
| (20) | ADDRESS | 8 | TRA_NAB | |
| Next byte in internal table@L2C | | | | |
| (28) | UNSIGNED | 8 | TRA_AVLEN | Available in current block |
| (30) | UNSIGNED | 4 | TRA_INTTABSIZ | Internal trace table size |
| (34) | UNSIGNED | 4 | TRA_GUARD_SIZE | Size of table guard area |
| (38) | CHARACTER | 16 | TRA_TCBTOKEN | IARV64 TCB Token |
| (48) | CHARACTER | 8 | TRA_CELL_POOL_64 | Trace 64-bit cell pool id |
| (50) | ADDRESS | 8 | TRA_INTTAB_PTR | |
| Address of start of table | | | | |
| (58) | ADDRESS | 8 | TRA_ENDTAB_PTR | |
| 1st byte after table | | | | |
| (60) | ADDRESS | 4 | TRA_DFHTRAO_PTR | Aux output routines |
| (64) | ADDRESS | 4 | TRA_AUX_BUF_PTR | Aux trace buffer address |
| (68) | ADDRESS | 4 | TRA_AUX_DCB_PTR | Address of aux trace DCB |
| (6C) | UNSIGNED | 4 | TRA_AUX_DCB_LEN | Length of aux trace DCB |
| (70) | ADDRESS | 4 | TRA_AUX_DECB_PTR | Address of aux trace DECB |
| (74) | UNSIGNED | 4 | TRA_AUX_DECB_LEN | Length of aux trace DECB |
| (78) | CHARACTER | 8 | TRA_TIME_BASE | STCK at last local midnight * |
| (80) | CHARACTER | 8 | TRA_AUX_EXTENT | Current aux trace extent |
| (88) | UNSIGNED | 1 | TRA_AUTOSW_STATUS | Autoswitch status |
| (89) | UNSIGNED | 1 | TRA_AUX_STATUS | Auxiliary trace status |
| (8A) | UNSIGNED | 1 | TRA_AUX_INIT_STAT | Auxiliary trace initial status * |

Table 628. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------|----------------|-----|---------------------|---------------------------------|
| (8B) | UNSIGNED | 1 | * | Reserved |
| (8C) | BIT(32) | 4 | TRA_STATUS_FLAGS | Status flags |
| (8C) | 1... | | TRA_MASTER | Internal copy of master flag * |
| (8C) | .1.. | | TRA_INT_STATUS | Internal trace status |
| (8C) | ..1. | | TRA_GTF_STATUS | GTF trace status |
| (8C) | ...1 | | TRA_LOCK_TABLE | Force use of table lock |
| (8C) | 1.. | | TRA_TRAP_ACTIVE | DFHTRAP active |
| (8C) |1.. | | TRA_AUX_FIF | Next block first-in-file |
| (8C) |1. | | TRA_AUX_EOF | Next block last-in-file |
| (8C) |1 | | TRA_AVAILABLE | Trace put available |
| (8D) | 1... | | TRA_TERMINATING | Trace domain terminating |
| (8D) | .1.. | | TRA_AUX_IO_PENDING | Output to aux pending |
| (8D) | ..1. | | TRA_AUX_DCB_DECB_OK | Acquired DCB/DECB initialised * |
| (8D) | ...1 | | TRA_TRAO_RLSE_REQD | RELEASE DFHTRAO required |
| (8D) | 1.. | | TRA_PA_IN_CONTROL | Parameter Mgr in control |
| (8D) |1.. | | TRA_TRAP_UNUSABLE | DFHTRAP has prog checked |
| (8D) |1. | | TRA_TRAP_DISABLED | Requested disabled |
| (8D) |1 | | TRA_TRAP_INIT_STAT | DFHTRAP initial status |
| (8E) | 1... | | TRA_INITIALISING | Trace domain initialising |
| (8E) | .1.. | | TRA_AUX_STARTING | Aux trace starting |
| (8E) | ..1. | | TRA_RETAIN_AUX_DCB | Retain DCB for future use |
| (8E) | ...1 | | TRA_FT_ERR_BEFORE | Prevent recurring FT errs |
| (8E) | BIT(12) POS(5) | 2 | * | Reserved |
| (90) | ADDRESS | 8 | TRA_TRAP_WA_PTR | |
| DFHTRAP work area pointer | | | | |
| (98) | ADDRESS | 4 | TRA_DFHTRAP_PTR | DFHTRAP entry point |
| (9C) | ADDRESS | 4 | * | Reserved |
| (A0) | ADDRESS | 8 | TRA_GTF_BUF_PTR | |
| Address of GTF buffer | | | | |
| (A8) | UNSIGNED | 4 | TRA_ATS_ECB | For aux subtask to wait on |
| (AC) | UNSIGNED | 4 | TRA_MAIN_ECB | For CICS TCBs to wait on |
| (B0) | CHARACTER | 72 | TRA_ATS_REGSAVE | Aux subtask register save |
| (F8) | UNSIGNED | 1 | TRA_TRAO_REQ | DFHTRAO request byte |
| (F9) | UNSIGNED | 1 | TRA_TRAO_RC | DFHTRAO return code |
| (FA) | CHARACTER | 2 | * | Reserved |
| (FC) | ADDRESS | 4 | TRA_TRAO_PARMS | TRAO parameter list |
| (100) | ADDRESS | 8 | TRA_TRAO_BPTR | |

Table 628. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------|-----------|-----|------------------------|---------------------------|
| TR block to be written | | | | |
| (108) | UNSIGNED | 4 | TRA_AUX_TERMINATE_ECB | Aux tracing terminate ECB |
| (108) | 1... .. | | TRA_AUX_TERM_ECB_WAIT | WAIT BIT |
| (108) | .1.. .. | | TRA_AUX_TERM_ECB_POST | POST BIT |
| (108) | ..11 1111 | | * | Reserved |
| (109) | CHARACTER | 3 | * | Reserved |
| (10C) | ADDRESS | 4 | TRA_ATS_TCB | Aux subtask TCB address |
| (110) | ADDRESS | 4 | TRA_SM_ISOLATION_TOKEN | Isolation token |

Constants

Table 629.

| Len | Type | Value | Name | Description |
|------------------------------|---------|-------|------------------------|-------------|
| Values for TRA_TRAO_REQ | | | | |
| 1 | DECIMAL | 1 | TRA_TRAO_TERM | |
| 1 | DECIMAL | 2 | TRA_TRAO_OPEN | |
| 1 | DECIMAL | 3 | TRA_TRAO_CLOSE | |
| 1 | DECIMAL | 4 | TRA_TRAO_WRITE | |
| 1 | DECIMAL | 5 | TRA_TRAO_CHECK | |
| Values for TRA_TRAO_RC | | | | |
| 1 | DECIMAL | 1 | TRA_TRAO_OK | |
| 1 | DECIMAL | 2 | TRA_TRAO_INVALID | |
| 1 | DECIMAL | 3 | TRA_TRAO_OPEN_FAILED | |
| 1 | DECIMAL | 4 | TRA_TRAO_END_OF_EXTENT | |
| 1 | DECIMAL | 5 | TRA_TRAO_AUX_ABEND | |
| 1 | DECIMAL | 6 | TRA_TRAO_AUX_IO_ERROR | |
| 1 | DECIMAL | 7 | TRA_TRAO_DCB_NOT_FOUND | |
| Values for TRA_INT_STATUS | | | | |
| 0 | BIT | 1 | TRA_INT_STARTED | |
| 0 | BIT | 0 | TRA_INT_STOPPED | |
| Values for TRA_AUX_STATUS | | | | |
| 1 | DECIMAL | 1 | TRA_AUX_STARTED | |
| 1 | DECIMAL | 2 | TRA_AUX_STOPPED | |
| 1 | DECIMAL | 3 | TRA_AUX_PAUSED | |
| Values for TRA_GTF_STATUS | | | | |
| 0 | BIT | 1 | TRA_GTF_STARTED | |
| 0 | BIT | 0 | TRA_GTF_STOPPED | |
| Values for TRA_AUTOSW_STATUS | | | | |
| 1 | DECIMAL | 1 | TRA_AUTOSW_OFF | |

Table 629. (continued)

| Len | Type | Value | Name | Description |
|-----|---------|-------|-----------------------|-------------|
| 1 | DECIMAL | 2 | TRA_AUTOSW_ONCE | |
| 1 | DECIMAL | 3 | TRA_AUTOSW_CONTINUOUS | |

TRAP - trace parameter list

CONTROL BLOCK NAME = DFHTRADS
 DESCRIPTIVE NAME = CICS TS Parameter List to DFHTRAP
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FUNCTION =
 Defines the parameter list passed from DFHTRPT to the F.E. Global Trap/Trace Exit Program DFHTRAP.

LIFETIME =
 The parameter list is created by DFHTRPT immediately prior to invoking DFHTRAP. Its contents are valid for the duration of the call to DFHTRAP.

STORAGE CLASS =
 The parameter list to DFHTRAP is in storage MVS GETMAIN'd above the 16M line by DFHTRSR.

LOCATION =
 The parameter list is in the Global Trap Work Area whose format is described by DFHTRGTW. This work area is addressed from TRA_TRAP_WA_PTR in the TR domain anchor block.

INNER CONTROL BLOCKS =
 None

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 DATA AREAS =
 This control block references no operating system data areas.

CONTROL BLOCKS =
 This control block references no other control blocks.

GLOBAL VARIABLES (Macro pass) =
 This control block definition references no global variables.

PERSONNEL
 adding a PL/AS version

Table 630.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 120 | DFHTRADS | DUMMY SECTION - PLIST TO TRAP |

Table 630. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|----------------------------------|
| <p>TRAFGLSA - Address of return actions flag word Return actions flag settings are in the byte addressed from field TRAFGLSA in the parameter list to DFHTRAP. The individual flag settings are as follows : TRAPFTRE EQU X'80' .. Make further trace entry on behalf of trap exit using data below the bar TRAPDUMP EQU X'40' .. Take a system dump TRAPTR64 EQU X'20' .. Make further trace entry on behalf of trap exit using 64-bit data TRAPCABD EQU X'10' .. Abend CICS (with a dump) TRAPDISA EQU X'08' .. Disable trap so that it cannot be used until reactivated TRAPDMPL EQU X'04' .. Take a system dump holding the trace lock Any combination of these flags may be set and wherever possible all requested actions will be honoured upon return to the trace domain. Note also that the trap will be disabled when requests toabend CICS are returned.</p> | | | | |
| (0) | ADDRESS | 8 | TRAFGLSA | A(Return actions flag word) * |
| (8) | ADDRESS | 8 | * | Reserved |
| <p>TRACURTA - Address of current entry in internal trace table This field points to the trace entry constructed by DFHTRPT on the same invocation for which it is calling DFHTRAP. This entry should not be modified by DFHTRAP. Its structure is mapped by the DSECT DFHTREN.</p> | | | | |
| (10) | ADDRESS | 8 | TRACURTA | A(Current entry) |
| <p>TWORKA - Address of 80-byte work area for DFHTRAP. This work area is acquired when DFHTRAP is activated and is not changed by CICS until DFHTRAP is de-activated, so it may be used for saving information between invocations of DFHTRAP</p> | | | | |
| (18) | ADDRESS | 8 | TWORKA | A(80-byte work area) |
| <p>TRAD1A/L, TRAD2A/L and TRAD3A/L These six fields are used in conjunction with the setting of TRAPFTRE in the return actions flag byte. This flag indicates that DFHTRPT should make a further trace entry. TRADnA/L are address and length pairs for the data fields to be included in this entry. If TRAPFTRE is set, DFHTRPT examines the length fields in turn. All fields up to the first with a zero length will be included in the extra trace entry. A matching set of address/length pairs TRADnA_64/L_64 are provided to allow the trap to pass data above the bar.</p> | | | | |
| (20) | CHARACTER | 72 | TRATRDAT | Total length of data fields |
| (20) | ADDRESS | 4 | TRAD1A | Address of DATA1 information |
| (24) | UNSIGNED | 4 | TRAD1L | Length of DATA1 information |
| (28) | ADDRESS | 4 | TRAD2A | Address of DATA2 information |
| (2C) | UNSIGNED | 4 | TRAD2L | Length of DATA2 information |
| (30) | ADDRESS | 4 | TRAD3A | Address of DATA3 information |

Table 630. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|-----------------------------|
| (34) | UNSIGNED | 4 | TRAD3L | Length of DATA3 information |
| (38) | ADDRESS | 8 | TRAD1A_64 | 64-bit address for DATA1 |
| (40) | UNSIGNED | 8 | TRAD1L_64 | 64-bit length for DATA1 |
| (48) | ADDRESS | 8 | TRAD2A_64 | 64-bit address for DATA2 |
| (50) | UNSIGNED | 8 | TRAD2L_64 | 64-bit length for DATA2 |
| (58) | ADDRESS | 8 | TRAD3A_64 | 64-bit address for DATA3 |
| (60) | UNSIGNED | 8 | TRAD3L_64 | 64-bit length for DATA3 |
| TRACSAAD - CSA address The address of the CSA or zero. This will only be zero for invocations of DFHTRAP early in initialisation (before the CSA has been set up). | | | | |
| (68) | ADDRESS | 4 | TRACSAAD | CSA address |
| TRATCAAD - TCA address The address of the current TCA or zero. This will be zero when running under other than the quasi-reentrant TCB, or when running under a non-transaction manager type task. | | | | |
| (6C) | ADDRESS | 4 | TRATCAAD | TCA address |
| TRARSAAD - Register save area address The address of the register save area that R13 will point to during the invocation of DFHTRAP. | | | | |
| (70) | ADDRESS | 8 | TRARSAAD | RSA address |
| (78) | CHARACTER | 0 | TRAEND | Ending address |

TRBL - Trace domain - common structures

CONTROL BLOCK NAME = DFHTRBL
 DESCRIPTIVE NAME = CICS TS Trace Domain - Common structures
 and constants
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 from original within DFHTRDS

FUNCTION = Contains the structure for :-
 DFHTRBL - TR internal table block
 The internal trace table consists of blocks of this format chained in a loop. The auxiliary trace dataset blocks are also of this format, except that the first twelve bytes contain the date and the date format.

Table 631.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|------|-------------|----------------|
| (0) | STRUCTURE | 4096 | DFHTRBL | Trace block |
| (0) | CHARACTER | 32 | TRBL_HEADER | Block header |
| (0) | CHARACTER | 20 | * | |
| (0) | CHARACTER | 20 | TRBL_CHAIN | |
| (0) | ADDRESS | 8 | TRBL_FWD | Forward chain |
| (8) | ADDRESS | 8 | TRBL_BWD | Backward chain |

Table 631. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|------|------------------|------------------------------|
| (10) | ADDRESS | 4 | * | Reserved |
| (0) | CHARACTER | 20 | TRBL_AUX | Aux trace header |
| (0) | CHARACTER | 3 | TRBL_DATE | Date of trace start |
| (3) | CHARACTER | 8 | TRBL_APPLID | Specific APPLID |
| (B) | CHARACTER | 1 | TRBL_DATE_FORMAT | Date format |
| (C) | CHARACTER | 8 | * | Reserved |
| (14) | CHARACTER | 4 | TRBL_FLAGS | Flags - always zero in table |
| (14) | 1... | | TRBL_EOF | End-of-file block for aux |
| (14) | .1.. | | TRBL_FIF | First-in-file block for aux |
| (14) | BIT(30) POS(3) | 4 | * | Reserved |
| (18) | CHARACTER | 8 | TRBL_TIME_BASE | STCK at last local midnight |
| (20) | CHARACTER | 4064 | TRBL_DATA | Rest of block is data |

Constants

Table 632.

| Len | Type | Value | Name | Description |
|-------------------|---------|---------|------------------|-------------------------------|
| Various constants | | | | |
| 4 | DECIMAL | 4096 | TRBLOCK_SIZE | Size of trace blocks |
| 4 | DECIMAL | 4064 | TRBLOCK_DATA LIM | Maximum data in one block |
| 4 | DECIMAL | 16384 | MIN_TABLE_SIZE | Minimum size for internal.. |
| 4 | DECIMAL | 1048576 | MAX_TABLE_SIZE | Maximum size for ... |
| 2 | DECIMAL | 256 | GTF_MAX | Maximum length of GTF entries |
| 0 | BIT | 1 | ON | |
| 0 | BIT | 0 | OFF | |
| 0 | BIT | 1 | YES | |
| 0 | BIT | 0 | NO | |

TREN - Trace entry

```

=====
CONTROL BLOCK NAME = DFHTREN
NAME OF MATCHING ASM CONTROL BLOCK = DFHTREN
DESCRIPTIVE NAME = CICS trace entry
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    5655-Y04
    (C) Copyright IBM Corp. 1986, 2013
FUNCTION = Description of header of CICS trace entry.
LIFETIME = Created by DFHTRPT in the internal trace table for
    each TRACE_PUT. Destroyed when overwritten after
    the next trace table wrap. Trace entries are also
    held on auxiliary trace datasets and GTF datasets.
STORAGE CLASS = Held in the internal trace table in MVS storage.
LOCATION = Each trace table block contains a block header
    followed by as many entries contiguously as will

```

fit in the rest of the block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

Table 633.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|--|
| (0) | STRUCTURE | * | DFHTREN | Trace entry |
| (0) | CHARACTER | 40 | TREN_HEADER | Standard header |
| (0) | CHARACTER | 2 | TREN_MARKER | Eyecatcher '<>' |
| (2) | UNSIGNED | 2 | TREN_LEN | Length of entry inc. header |
| (4) | UNSIGNED | 2 | TREN_CALLER | Domain id of trace caller |
| (6) | UNSIGNED | 2 | TREN_POINTID | ID of trace point in domain |
| (8) | UNSIGNED | 1 | TREN_TYPE | Entry type |
| (8) | 1... | | * | The Top bits are used |
| (8) | .1.. | | * | for the release of the |
| (8) | ..1. | | * | trace. |
| (8) | ...1 | | * | |
| (8) | 1... | | * | The Bot Bits are used for |
| (8) |1.. | | * | the type. The types are |
| (8) |1. | | * | listed below. |
| (8) |1 | | * | |
| (9) | BIT(24) | 3 | TREN_TASK | Transaction manager task num |
| (C) | UNSIGNED | 2 | TREN_KE_NUM | Kernel task number |
| (E) | UNSIGNED | 2 | TREN_OWNING_DOM | Owning domain for system task |
| (10) | UNSIGNED | 2 | TREN_HEADER_LENGTH | Length of this header Offset of TREN_HEADER_LENGTH must not change. Add new header fields after this field |
| (12) | CHARACTER | 5 | TREN_TCB_ID | TCB ID |
| (17) | UNSIGNED | 1 | * | filler to word align |
| (18) | ADDRESS | 4 | TREN_TCBADDR | TCB address |
| (1C) | ADDRESS | 4 | TREN_RETADDR | Addr of call to trace caller |
| (20) | CHARACTER | 8 | TREN_TIME | Time of entry - 8 byte STCK |
| (28) | CHARACTER | * | TREN_DATA | Trace data |
| (28) | UNSIGNED | 2 | TREN_FIELD_LEN | Length of data field |
| (2A) | CHARACTER | * | TREN_FIELD_DATA | Data field |

Constants

Table 634.

| Len | Type | Value | Name | Description |
|--|------|-------|-----------------------------|-------------|
| <pre> ===== Tren type constants. The Top Bits of TREN_TYPE will be used for the release. X'D?' equals R690 X'C?' equals R680 X'B?' equals R670 X'A?' equals R660 X'9?' equals R650 X'8?' equals R640 X'7?' equals R630 X'6?' equals R620 X'5?' equals R610 X'4?' equals R530 X'3?' equals R520 X'2?' equals R510 X'1?' equals R410 X'0?' equals R330 and below The Bottom Bits of TREN_TYPE will be used for the trace type. The types below will need to be updated for release. For example, the release after 5.1.0 will have the top bits set like this '2?'X. A new release field will also be added to the bottom. If a new TREN_TYPE is added, be sure to change GTF_TYPE_NUM in DFHTRFCA. ===== </pre> | | | | |
| 1 | HEX | D0 | TREN_TYPE_NORMAL | |
| 1 | HEX | DE | TREN_TYPE_LE_PIP1_EXIT | |
| 1 | HEX | DD | TREN_TYPE_RRS_CALL | |
| 1 | HEX | DC | TREN_TYPE_RRMS_EXIT | |
| 1 | HEX | DB | TREN_TYPE_DB2_SUBTASK | |
| 1 | HEX | DA | TREN_TYPE_DBCTL_Resume_EXIT | |
| 1 | HEX | D9 | TREN_TYPE_RLS_QUIESCE_EXIT | |
| 1 | HEX | D8 | TREN_TYPE_EXCI | |
| 1 | HEX | D7 | TREN_TYPE_LERADSYNAD_HPO | |
| 1 | HEX | D6 | TREN_TYPE_VTAM_EXIT_HPO | |
| 1 | HEX | D5 | TREN_TYPE_TP_END | |
| 1 | HEX | D4 | TREN_TYPE_LERAD_SYNAD | |
| 1 | HEX | D3 | TREN_TYPE_VTAM_EXIT | |
| 1 | HEX | D2 | TREN_TYPE_MONITORING | |
| 1 | HEX | D1 | TREN_TYPE_SDUMP_EXIT | |
| 1 | HEX | D0 | TREN_TYPE_R690 | |
| 1 | HEX | C0 | TREN_TYPE_R680 | |
| 1 | HEX | B0 | TREN_TYPE_R670 | |
| 1 | HEX | A0 | TREN_TYPE_R660 | |
| 1 | HEX | 90 | TREN_TYPE_R650 | |
| 1 | HEX | 80 | TREN_TYPE_R640 | |

Table 634. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|----------------|-------------|
| 1 | HEX | 70 | TREN_TYPE_R630 | |
| 1 | HEX | 60 | TREN_TYPE_R620 | |
| 1 | HEX | 50 | TREN_TYPE_R610 | |
| 1 | HEX | 40 | TREN_TYPE_R530 | |
| 1 | HEX | 30 | TREN_TYPE_R520 | |
| 1 | HEX | 20 | TREN_TYPE_R510 | |
| 1 | HEX | 10 | TREN_TYPE_R410 | |
| 1 | HEX | 00 | TREN_TYPE_R330 | |

TRFCA - Trace Formatting Control Area

Table 635.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|----------------|------|-----------------------|-------------------------------|
| (0) | STRUCTURE | 2608 | DFHTRFCA | Trace formatting control area |
| Common data | | | | |
| (0) | ADDRESS | 4 | TRFCA_PL_PTR | TRF_PRINT_LINE routine addr |
| (4) | ADDRESS | 4 | TRFCA_PBUF_PTR | 132 character print buffer |
| (8) | UNSIGNED | 4 | TRFCA_ENTRY_COUNT | Count of entries processed |
| (C) | UNSIGNED | 4 | TRFCA_PRINT_COUNT | Count of entries printed |
| Parameters for DFHTRFPP | | | | |
| (10) | ADDRESS | 4 | TRFCA_PARM_PTR | -> selective print parms |
| (14) | UNSIGNED | 4 | TRFCA_PARM_LEN | Length of print parms |
| (18) | ADDRESS | 4 | TRFCA_BUFF_PTR | -> TRFPP (4096n)byte buffer |
| The encoded form of the selective print parameters passed to DFHTUxxx or AMDUSREF. | | | | |
| (1C) | CHARACTER | 4 | TRFCA_SEL_PRINT_FLAGS | Selective print flags |
| (1C) | 1... | | TRFCA_SEL_ACTIVE | Selection active ? |
| (1C) | .1.. | | TRFCA_TRFPP_INIT | DFHTRFPP initialisation flag |
| (1C) | ..1. | | TRFCA_PARM_ERR | Error in parameters |
| (1C) | ...1 | | TRFCA_NOT_SELECTED | Trace not selected |
| (1C) | BIT(28) POS(5) | 4 | * | Reserved |
| (20) | ADDRESS | 4 | TRFCA_TERMLIST_PTR | Encoded TERMLIST list |
| (24) | ADDRESS | 4 | TRFCA_TERMTASK_PTR | Tasks at selected TERMID's |
| (28) | ADDRESS | 4 | TRFCA_TRANLIST_PTR | Encoded TRANID list |
| (2C) | ADDRESS | 4 | TRFCA_TRANTASK_PTR | Tasks with selected TRANID's |
| (30) | ADDRESS | 4 | TRFCA_TIMELIST_PTR | Encoded time ranges |
| (34) | ADDRESS | 4 | TRFCA_TASKLIST_PTR | Encoded TASKID list |

Table 635. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------------|------------------------------|
| (38) | ADDRESS | 4 | TRFCA_KENUM_PTR | Encoded KE_NUM list |
| (3C) | ADDRESS | 4 | TRFCA_ENTRYNUM_PTR | Encoded ENTRY_NUM list |
| (40) | ADDRESS | 4 | TRFCA_TYPETR_PTR | Dom ptrs and lens for TYPETR |
| Parameters for DFHTRFPB | | | | |
| (44) | ADDRESS | 4 | TRFCA_CURRBL_PTR | Current block for DFHTRFPB |
| (48) | UNSIGNED | 4 | TRFCA_BLOCK_AVLEN | Space left in last block |
| Parameters for DFHTRFFE | | | | |
| (4C) | ADDRESS | 4 | TRFCA_CURREN_PTR | Current entry for DFHTRFFE |
| (50) | CHARACTER | 8 | TRFCA_TIME_BASE | STCK at last local midnight |
| (58) | CHARACTER | 8 | TRFCA_LAST_TIME | STCK of last entry |
| Parameters for DFHTRFFD | | | | |
| (60) | UNSIGNED | 2 | TRFCA_TRACE_CALLER | Domain id of trc caller |
| (62) | CHARACTER | 1 | * | |
| (62) | 1... | | TRFCA_TT510_LOAD_ FAILED | DFHTT510 not found |
| (62) | .1.. | | TRFCA_TT520_LOAD_ FAILED | DFHTT520 not found |
| (62) | ..1. | | TRFCA_TT530_LOAD_ FAILED | DFHTT530 not found |
| (62) | ...1 | | TRFCA_TT610_LOAD_ FAILED | DFHTT610 not found |
| (62) | 1... | | TRFCA_TT620_LOAD_ FAILED | DFHTT620 not found |
| (62) |1.. | | TRFCA_TT630_LOAD_ FAILED | DFHTT630 not found |
| (62) |1. | | TRFCA_TT640_LOAD_ FAILED | DFHTT640 not found |
| (62) |1 | | TRFCA_TT650_LOAD_ FAILED | DFHTT650 not found |
| (63) | CHARACTER | 1 | * | now used |
| (63) | 1... | | TRFCA_TT660_LOAD_ FAILED | DFHTT660 not found |
| (63) | .1.. | | TRFCA_TT670_LOAD_ FAILED | DFHTT670 not found |
| (63) | ..1. | | TRFCA_TT680_LOAD_ FAILED | DFHTT680 not found |
| (63) | ...1 | | TRFCA_TT690_LOAD_ FAILED | DFHTT690 not found |
| (64) | ADDRESS | 4 | * | PTR to CDURUN |
| (68) | ADDRESS | 4 | TRFCA_TT690_PTR | PTR to CDURUN 6.9 |
| #Unused# area - New fields may be added here but offsets of of existing fields must be maintained | | | | |
| (6C) | CHARACTER | 44 | * | Available |
| (98) | UNSIGNED | 4 | TRFCA_LAST_BLOCKS | Blks to print from en |
| (9C) | CHARACTER | 3 | * | Reserved |
| (9F) | UNSIGNED | 1 | TRFCA_DAY | Day number |
| (A0) | UNSIGNED | 1 | TRFCA_MON | Month number |
| (A1) | UNSIGNED | 1 | TRFCA_YER | Year number |
| (A2) | UNSIGNED | 1 | TRFCA_PREV_HOURS | Hours in prev entry |
| (A3) | CHARACTER | 1 | TRFCA_DATE_FORMAT | Format of TRFCA_DATE |

Table 635. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|----------------|------|--|----------------------------|
| (A4) | ADDRESS | 4 | TRFCA_TCBIDLST_PTR | Encoded TCBID list |
| (A8) | ADDRESS | 4 | TRFCA_TCBADLST_PTR | Encoded TCBADDR list |
| Storage used by TRFPRL - the print line routine | | | | |
| (AC) | CHARACTER | 4 | * | Flag word |
| (AC) | 1... | | TRFCA_SPACE | Space after print |
| (AC) | .1.. | | TRFCA_NEW_DAY | Midnight just happened |
| (AC) | BIT(30) POS(3) | 4 | * | Reserved |
| (B0) | ADDRESS | 4 | TRFCA_DUFSTG_PTR | DUF_STG ptr for DFHTRDUF |
| (B0) | ADDRESS | 4 | TRFCA_ABDPL_PTR | ABDPL ptr for AMDUSREF |
| (B4) | ADDRESS | 4 | TRFCA_PRDCB_PTR | Print DCB |
| (B8) | FULLWORD | 4 | TRFCA_PAGE_COUNT | Page count |
| (BC) | FULLWORD | 4 | TRFCA_LINE_COUNT | Line count |
| (C0) | FULLWORD | 4 | TRFCA_PAGE_SIZE | Number of lines/page |
| Interpretation area and control fields | | | | |
| (C4) | ADDRESS | 4 | TRFCA_CDED_TOKEN | Translation routine token |
| (C8) | ADDRESS | 4 | TRFCA_IA_NAB | Next byte in interp area |
| (CC) | UNSIGNED | 4 | TRFCA_IA_LEN_LEFT | Length left in interp area |
| (D0) | CHARACTER | 1024 | TRFCA_IA | Interpretation area |
| Warning the offset of the DFHTRIP must not change compatability with releases 3.3 and above this is for GTF multiple release. PARAMETERS FOR DFHXXTRI, MAPPED BY DFHTRIP. THE DATA FIELD ADDRESSES AND LENGTHS USED BY DFHTRFFD. | | | | |
| (4D0) | CHARACTER | 300 | TRFCA_TRIP | MUST MATCH DFHTRIP |
| (4D0) | CHARACTER | 140 | TRIP_CICS_WORKAREA | |
| (4D0) | ADDRESS | 4 | TRIP_FCA_PTR | |
| (4D4) | UNSIGNED | 2 | TRIP_POINTID | |
| (4D4) | UNSIGNED | 1 | TRIP_POINTID_BYTE1 | |
| (4D5) | UNSIGNED | 1 | TRIP_POINTID_BYTE2 | |
| (4D6) | UNSIGNED | 1 | * | |
| (4D7) | BIT(8) | 1 | TRIP_FIELD_T | |
| (4D8) | ADDRESS | 4 | TRIP_FIELD_P (4294967304:341928776) | |
| (4F8) | CHARACTER | 28 | * | |
| (514) | FULLWORD | 4 | TRIP_FIELD_N (4294967304:341928776) | |
| (534) | CHARACTER | 28 | * | |
| (550) | CHARACTER | 12 | TRIP_TRIB_PLIST | |
| (550) | ADDRESS | 4 | TRIP_DATA_P | |
| (554) | UNSIGNED | 2 | TRIP_DATA_N | |

Table 635. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---|--------------------------|
| (556) | UNSIGNED | 1 | TRIP_DATA_TYPE | |
| (557) | UNSIGNED | 1 | TRIP_PLIST_TYPE | |
| (558) | UNSIGNED | 1 | TRIP_SPACE | |
| (559) | UNSIGNED | 1 | TRIP_FT_TYPE | |
| (55A) | CHARACTER | 2 | * | |
| (55C) | CHARACTER | 20 | * | |
| (570) | CHARACTER | 108 | TRIP_FT_WORKAREA | |
| (570) | CHARACTER | 108 | TRIP_FT_WORK | |
| (570) | ADDRESS | 4 | TRFTW_FORMATTING_ ADDRESS (4294967302:341933768) | |
| (588) | CHARACTER | 8 | TRFTW_FORMATTING_ NAME (4294967302:341933768) | |
| (5B8) | CHARACTER | 4 | * | |
| (5BC) | CHARACTER | 32 | TRFTW_WIPE_AREA | |
| (5BC) | UNSIGNED | 1 | TRFTW_TRACE_TYPE | |
| (5BD) | BIT(8) | 1 | TRFTW_FLAGS | |
| (5BD) | 1... | | TRFTW_INTERPRETATION | |
| (5BD) | .1.. | | TRFTW_LOAD_FAILED | |
| (5BD) | ..1. | | TRFTW_NO_NAME | |
| (5BD) | ...1 | | TRFTW_FEATURE_ABEND | |
| (5BD) | 1... | | TRFTW_INT_OVERFLOW | |
| (5BD) |111 | | * | |
| (5BE) | UNSIGNED | 2 | TRFTW_LEN_LEFT | |
| (5C0) | ADDRESS | 4 | TRFTW_NAB | |
| (5C4) | ADDRESS | 4 | TRFTW_DFHTTRIB_ADDRESS | |
| (5C8) | ADDRESS | 4 | TRFTW_CDPFTAB_ADDRESS | |
| (5CC) | CHARACTER | 8 | TRFTW_MODULE_NAME | |
| (5D4) | CHARACTER | 8 | * | |
| (5DC) | CHARACTER | 32 | * | |
| (5FC) | CHARACTER | 188 | * | UNUSED |
| (6B8) | CHARACTER | 24 | * | Unused |
| Various flags | | | | |
| (6D0) | CHARACTER | 4 | * | |
| (6D0) | 1... | | TRFCA_INT_OVERFLOW | Interpretation overflow |
| (6D0) | .1.. | | TRFCA_EXTRA_LINE | Extra jobname line |
| (6D0) | ..1. | | TRFCA_FULL_ABBREV | For compablity |
| (6D0) | ...1 | | TRFCA_LAST_BLOCK | Last trace blk indicator |
| (6D0) | 1... | | TRFCA_GTF_TRACE | Doing a GTF trace |
| (6D0) |1.. | | TRFCA_SELECT_ALL | Have requested ALL parms |

Table 635. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|----------------|-----|--|--|
| (6D0) |1. | | TRFCA_UPPERCASE_REQ | Output in uppercase |
| (6D0) |1 | | TRFCA_EXCEPTION | Only print exception tr |
| (6D1) | 1... | | TRFCA_PDX_TRACE | Doing a system dump tr |
| (6D1) | .1.. | | TRFCA_AUX_TRACE | Doing a AUX trace |
| (6D1) | ..1. | | TRFCA_FULL_TRACE | Full request |
| (6D1) | ...1 | | TRFCA_ABBREV_TRACE | Abbreviated request |
| (6D1) | 1... | | TRFCA_SHORT_TRACE | Short request |
| (6D1) |1.. | | TRFCA_FULL_DO | Full completed |
| (6D1) |1. | | TRFCA_ABBREV_DO | Abbreviated complete |
| (6D1) |1 | | TRFCA_SHORT_DO | Short complete |
| (6D2) | 1... | | TRFCA_TRACE_DONE_ ALREADY | Trace already printed |
| (6D2) | BIT(15) POS(2) | 2 | * | Available |
| (6D4) | ADDRESS | 4 | TRFCA_JOB_LINE_PTR | Ptr to jobname line buff |
| (6D8) | ADDRESS | 4 | TRFCA_INTERVAL_PTR | Time interval parameter. |
| <p>All new fields that are not Multi-release depended can be added after this point otherwise see reserved space above. Note: fields to be used by Vendors must be added above this point. Fields below do NOT need their offsets guaranteed. Pointers to the different release formatters</p> | | | | |
| (6DC) | CHARACTER | 56 | * | |
| (6DC) | ADDRESS | 4 | TRFCA_FORMATTER_R690 | Version 6 release 9 |
| (6E0) | ADDRESS | 4 | TRFCA_FORMATTER_R680 | Version 6 release 8 |
| (6E4) | ADDRESS | 4 | TRFCA_FORMATTER_R670 | Version 6 release 7 |
| (6E8) | ADDRESS | 4 | TRFCA_FORMATTER_R660 | Version 6 release 6 |
| (6EC) | ADDRESS | 4 | TRFCA_FORMATTER_R650 | Version 6 release 5 |
| (6F0) | ADDRESS | 4 | TRFCA_FORMATTER_R640 | Version 6 release 4 |
| (6F4) | ADDRESS | 4 | TRFCA_FORMATTER_R630 | Version 6 release 3 |
| (6F8) | ADDRESS | 4 | TRFCA_FORMATTER_R620 | Version 6 release 2 |
| (6FC) | ADDRESS | 4 | TRFCA_FORMATTER_R610 | Version 6 release 1 |
| (700) | ADDRESS | 4 | TRFCA_FORMATTER_R530 | Version 5 release 3 |
| (704) | ADDRESS | 4 | TRFCA_FORMATTER_R520 | Version 5 release 2 |
| (708) | ADDRESS | 4 | TRFCA_FORMATTER_R510 | Version 5 release 1 |
| (70C) | ADDRESS | 4 | TRFCA_FORMATTER_R410 | Version 4 release 1 |
| (710) | ADDRESS | 4 | TRFCA_FORMATTER_R330 | Version 3 release 3 |
| (714) | UNSIGNED | 1 | TRFCA_FREE_ BUFFER (4294967311:341913600) | Subscript value of first free buffer for each type |
| (723) | CHARACTER | 4 | * | Reserved |
| (728) | ADDRESS | 4 | TRFCA_RECORD_ BUFFER (4294967311:4294967301,3419136 | Pointers to segmented entry reconstruction areas - one per type AND region/ system |

Table 635. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---|---|
| (854) | ADDRESS | 4 | TRFCA_NEXT_BYTE (4294967311:4294967301,3419136 | Ptrs to next free byte in reconstruction area |
| (980) | UNSIGNED | 2 | TRFCA_LEN_REM (4294967311:4294967301,3419136 | Length still to come continuation records |
| (A16) | CHARACTER | 8 | TRFCA_DATE | Date |
| (A1E) | CHARACTER | 8 | TRFCA_APPLID | Applid |
| (A26) | CHARACTER | 1 | * | |
| (A26) | 1... | | TRFCA_R620_LOAD_FAIL | DFHTR620 not found |
| (A26) | .1.. | | TRFCA_R610_LOAD_FAIL | DFHTR610 not found |
| (A26) | ..1. | | TRFCA_R530_LOAD_FAIL | DFHTR530 not found |
| (A26) | ...1 | | TRFCA_R520_LOAD_FAIL | DFHTR520 not found |
| (A26) | 1... | | TRFCA_R510_LOAD_FAIL | DFHTR510 not found |
| (A26) |1.. | | TRFCA_R410_LOAD_FAIL | DFHTR410 not found |
| (A26) |1. | | TRFCA_R330_LOAD_FAIL | DFHTR330 not found |
| (A26) |1 | | TRFCA_R630_LOAD_FAIL | DFHTR630 not found |
| (A27) | CHARACTER | 1 | * | |
| (A27) | 1... | | TRFCA_R640_LOAD_FAIL | DFHTR640 not found |
| (A27) | .1.. | | TRFCA_R650_LOAD_FAIL | DFHTR650 not found |
| (A27) | ..1. | | TRFCA_R660_LOAD_FAIL | DFHTR660 not found |
| (A27) | ...1 | | TRFCA_R670_LOAD_FAIL | DFHTR670 not found |
| (A27) | 1... | | TRFCA_R680_LOAD_FAIL | DFHTR680 not found |
| (A27) |1.. | | TRFCA_R690_LOAD_FAIL | DFHTR680 not found |
| (A27) |11 | | * | reserved |
| For compatibility with Vendor products we will keep the length of the TRFCA fixed. If new fields are added then change the length of the used area below. | | | | |
| (A28) | CHARACTER | 8 | * | Used area |
| (A30) | CHARACTER | 0 | * | End of FCA |

Structure of the core block containing record selection data

Table 636.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | * | TRFPPWA | |
| (0) | FULLWORD | 4 | WA_LEN | size of block |
| (4) | FULLWORD | 4 | WA_CNT | count of entries used |
| (8) | FULLWORD | 4 | WA_IT_LEN | length of each entry |
| (C) | CHARACTER | * | WA_DATA | This area is considered to be an array, with WA_IT_LEN being the length of each element, and WA_CNT the dimension of the array. |

Table 637.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---|--|
| (0) | STRUCTURE | 300 | DFHTRIP | This must match TRFCA_TRIP |
| (0) | CHARACTER | 140 | TRIP_CICS_WORKAREA | |
| (0) | ADDRESS | 4 | TRIP_FCA_PTR | Format control area addr |
| (4) | UNSIGNED | 2 | TRIP_POINTID | Point id of entry |
| (4) | UNSIGNED | 1 | TRIP_POINTID_BYTE1 | 1st half of pointid |
| (5) | UNSIGNED | 1 | TRIP_POINTID_BYTE2 | 2nd half of pointid |
| (6) | UNSIGNED | 1 | * | Reserved |
| (7) | BIT(8) | 1 | TRIP_FIELD_T | Bitmap of TRIP_FIELD types '0'B=EBCDIC '1'B=ASCII |
| (8) | ADDRESS | 4 | TRIP_FIELD_P (4294967304:341953032) | Data field addresses Data 1 to 7 & the Feature trace hdr |
| (28) | CHARACTER | 28 | * | Reserved for DATA field expansion. |
| (44) | FULLWORD | 4 | TRIP_FIELD_N (4294967304:341953032) | Data field lengths Data 1 to 7 & the Feature trace hdr |
| (64) | CHARACTER | 28 | * | Reserved for DATA field expansion. |
| (80) | CHARACTER | 12 | TRIP_TRIB_PLIST | Parameters for DFHTRIB |
| (80) | ADDRESS | 4 | TRIP_DATA_P | Data ptr for DFHTRIB |
| (84) | UNSIGNED | 2 | TRIP_DATA_N | Data length for DFHTRIB |
| (86) | UNSIGNED | 1 | TRIP_DATA_TYPE | Data type for DFHTRIB See constant defns below |
| (87) | UNSIGNED | 1 | TRIP_PLIST_TYPE | For data type CDPLIST only See constant defns below |
| (88) | UNSIGNED | 1 | TRIP_SPACE | Space before adding data |
| (89) | UNSIGNED | 1 | TRIP_FT_TYPE | Feature type trace |
| (8A) | CHARACTER | 2 | * | Reserved |
| (8C) | CHARACTER | 20 | * | Reserved |
| (A0) | CHARACTER | 108 | TRIP_FT_WORKAREA | |
| (A0) | CHARACTER | 108 | TRIP_FT_WORK | |
| (A0) | ADDRESS | 4 | TRFTW_FORMATTING_ ADDRESS (4294967302:341958024) | |
| (B8) | CHARACTER | 8 | TRFTW_FORMATTING_ NAME (4294967302:341958024) | |
| (E8) | CHARACTER | 4 | * | |
| (EC) | CHARACTER | 32 | TRFTW_WIPE_AREA | |
| (EC) | UNSIGNED | 1 | TRFTW_TRACE_TYPE | |
| (ED) | BIT(8) | 1 | TRFTW_FLAGS | |
| (ED) | 1... | | TRFTW_INTERPRETATION | |
| (ED) | .1.. | | TRFTW_LOAD_FAILED | |
| (ED) | ..1. | | TRFTW_NO_NAME | |

Table 637. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|-------------|
| (ED) | ...1 | | TRFTW_FEATURE_ABEND | |
| (ED) | 1... | | TRFTW_INT_OVERFLOW | |
| (ED) |111 | | * | |
| (EE) | UNSIGNED | 2 | TRFTW_LEN_LEFT | |
| (F0) | ADDRESS | 4 | TRFTW_NAB | |
| (F4) | ADDRESS | 4 | TRFTW_DFHTTRIB_ADDRESS | |
| (F8) | ADDRESS | 4 | TRFTW_CDPFTAB_ADDRESS | |
| (FC) | CHARACTER | 8 | TRFTW_MODULE_NAME | |
| (104) | CHARACTER | 8 | * | |
| (10C) | CHARACTER | 32 | * | Reserved |

CONTROL BLOCK NAME = DFHTRFTC
 DESCRIPTIVE NAME = CICS/ESA (TR) Feature Trace Entry Header
 Licensed Materials - Property of IBM
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 5655-Y04
 (C) Copyright IBM Corp. 1995, 2010
 FUNCTION = This is the header for a trace entry made by
 a Feature when the DFHTRFTM TRACE_PUT interface is
 used.
 It appears immediately after the TREN_HEADER for
 a Feature trace entry, as the first part of the
 TREN_DATA. The remaining trace entry data,
 supplied by the Feature as TRFT_DATAn (where n is
 between 1 and 7) on the TRFT TRACE_PUT call,
 follows immediately after the TRFTE_HEADER.
 LIFETIME = Created by DFHTRFT in the internal trace table for
 each TRACE_PUT. Destroyed when overwritten after
 the next trace table wrap. Trace entries are also
 held on auxiliary trace datasets and GTF datasets.
 STORAGE CLASS = Held in the internal trace table in MVS storage.
 LOCATION = Each trace table block contains a block header
 followed by as many entries contiguously as will
 fit in the rest of the block.
 INNER CONTROL BLOCKS =
 This is an inner control block to the DFHTREN.
 DFHTRFTE has no inner control blocks itself.
 NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

Table 638.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|--|
| (0) | STRUCTURE | 94 | TRFTE | Feature trace entry |
| (0) | UNSIGNED | 2 | TRFTE_HEADER_LEN | Feature trace header length - excludes the length of this field itself |

Table 638. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|----------------------------------|
| (2) | CHARACTER | 92 | TRFTE_HEADER | Feature trace header |
| (2) | UNSIGNED | 1 | TRFTE_VERSION | Feature trace header version |
| (3) | UNSIGNED | 1 | * | SPARE |
| (4) | CHARACTER | 30 | TRFTE_COMPANY_NAME | Feature company name |
| (22) | CHARACTER | 30 | TRFTE_FEATURE_NAME | Feature name |
| (40) | CHARACTER | 10 | TRFTE_FEATURE_LEVEL | Feature release level |
| (4A) | CHARACTER | 8 | TRFTE_FORMATTING_ ROUTINE | Feature trace formatting routine |
| (52) | CHARACTER | 9 | TRFTE_ABBREV_NAME | Name for formatted trace |
| (5B) | BIT(8) | 1 | TRFTE_FLAGS | Feature trace entry flags |
| (5B) | 1... | | TRFTE_EXCEPTION_TRACE | Exception trace flag |
| (5B) | .111 1111 | | * | Spare |
| (5C) | CHARACTER | 2 | * | Spare |

Table 639.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---|---------------------|
| (0) | STRUCTURE | 108 | TRFTW | FEATURE TRACE ENTRY |
| (0) | ADDRESS | 4 | TRFTW_FORMATTING_ ADDRESS (4294967302:341968064) | STORED ADDR |
| (18) | CHARACTER | 8 | TRFTW_FORMATTING_ NAME (4294967302:341968064) | STORED NAMES |
| (48) | CHARACTER | 4 | * | SPARE |
| (4C) | CHARACTER | 32 | TRFTW_WIPE_AREA | WIPED EACH CAL |
| (4C) | UNSIGNED | 1 | TRFTW_TRACE_TYPE | TYPES BELOW |
| (4D) | BIT(8) | 1 | TRFTW_FLAGS | |
| (4D) | 1... | | TRFTW_INTERPRETATION | FOREIGN CODE |
| (4D) | .1.. | | TRFTW_LOAD_FAILED | MVS LOAD |
| (4D) | ..1. | | TRFTW_NO_NAME | NO FORMAT |
| (4D) | ...1 | | TRFTW_FEATURE_ABEND | NO FORMAT |
| (4D) | 1... | | TRFTW_INT_OVERFLOW | |
| (4D) |111 | | * | SPARE |
| (4E) | UNSIGNED | 2 | TRFTW_LEN_LEFT | WORK AREA |
| (50) | ADDRESS | 4 | TRFTW_NAB | PTR WORK AREA |
| (54) | ADDRESS | 4 | TRFTW_DFHTTRIB_ADDRESS | TRIB ADDRESS |
| (58) | ADDRESS | 4 | TRFTW_CDPFTAB_ADDRESS | CDURUN TABLE |
| (5C) | CHARACTER | 8 | TRFTW_MODULE_NAME | FT MOD NAME |
| (64) | CHARACTER | 8 | * | SPARE |

Constants

Table 640.

| Len | Type | Value | Name | Description |
|--|---------|-------|-----------------------|---------------------------|
| Various constants used in the formatting | | | | |
| 2 | DECIMAL | 7 | TRF_NUM_FIELDS | Maximum number of DATA.. |
| 2 | DECIMAL | 32 | TRF_BPL | Number of bytes of data.. |
| 1 | DECIMAL | 15 | GTF_TYPE_NUM | number of TREN_TYPES |
| 1 | DECIMAL | 0 | TRFTW_ENTRY | ENTRY |
| 1 | DECIMAL | 1 | TRFTW_EXIT | EXIT |
| 1 | DECIMAL | 2 | TRFTW_EXCEPTION | EXCEPTION |
| 1 | DECIMAL | 3 | TRFTW_DATA | DATA |
| 1 | DECIMAL | 4 | TRFTW_EVENT | EVENT |
| 1 | DECIMAL | 9 | TRFTW_RUB | |
| 1 | DECIMAL | 0 | TRFTW_RC_OK | OK |
| 1 | DECIMAL | 1 | TRFTW_RC_OVERFLOW | Overflow |
| Values for TRIP_DATA_TYPE | | | | |
| 1 | DECIMAL | 0 | TRI_CHAR | CHAR on DFHTRIBM |
| 1 | DECIMAL | 1 | TRI_HEX | HEX on DFHTRIBM |
| 1 | DECIMAL | 2 | TRI_DEC | DEC on DFHTRIBM |
| 1 | DECIMAL | 3 | TRI_BIN | BIN on DFHTRIBM |
| 1 | DECIMAL | 4 | TRI_CDPLIST | CDPLIST on DFHTRIBM |
| 1 | DECIMAL | 5 | TRI_ASCII | ASCII on DFHTRIBM |
| Values for TRIP_PLIST_TYPE | | | | |
| 1 | DECIMAL | 0 | TRI_IN | IN on DFHTRIBM |
| 1 | DECIMAL | 1 | TRI_OUT | OUT on DFHTRIBM |
| Values for TRIP_SPACE | | | | |
| 1 | DECIMAL | 0 | TRI_NO | NO on DFHTRIBM |
| 1 | DECIMAL | 1 | TRI_YES | YES on DFHTRIBM |
| 2 | DECIMAL | 40960 | TR_BLOCK_SIZE_TRAN_DU | |
| | | | | BLOCK SIZE USE BY TRXDF |

TRFTE - Feature Trace Entry Header

CONTROL BLOCK NAME = DFHTRFTC
 DESCRIPTIVE NAME = CICS/ESA (TR) Feature Trace Entry Header
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1995, 2010
 FUNCTION = This is the header for a trace entry made by
 a Feature when the DFHTRFTM TRACE_PUT interface is
 used.
 It appears immediately after the TREN_HEADER for
 a Feature trace entry, as the first part of the
 TREN_DATA. The remaining trace entry data,
 supplied by the Feature as TRFT_DATA_n (where n is
 between 1 and 7) on the TRFT TRACE_PUT call,

follows immediately after the TRFTE_HEADER.

LIFETIME = Created by DFHTRFT in the internal trace table for each TRACE_PUT. Destroyed when overwritten after the next trace table wrap. Trace entries are also held on auxiliary trace datasets and GTF datasets.

STORAGE CLASS = Held in the internal trace table in MVS storage.

LOCATION = Each trace table block contains a block header followed by as many entries contiguously as will fit in the rest of the block.

INNER CONTROL BLOCKS =
This is an inner control block to the DFHTREN.
DFHTRFTE has no inner control blocks itself.

NOTES :
DEPENDENCIES = S/390
RESTRICTIONS = None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = None
GLOBAL VARIABLES (Macro pass) = None

Table 641.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|--|
| (0) | STRUCTURE | 94 | TRFTE | Feature trace entry |
| (0) | UNSIGNED | 2 | TRFTE_HEADER_LEN | Feature trace header length - excludes the length of this field itself |
| (2) | CHARACTER | 92 | TRFTE_HEADER | Feature trace header |
| (2) | UNSIGNED | 1 | TRFTE_VERSION | Feature trace header version |
| (3) | UNSIGNED | 1 | * | SPARE |
| (4) | CHARACTER | 30 | TRFTE_COMPANY_NAME | Feature company name |
| (22) | CHARACTER | 30 | TRFTE_FEATURE_NAME | Feature name |
| (40) | CHARACTER | 10 | TRFTE_FEATURE_LEVEL | Feature release level |
| (4A) | CHARACTER | 8 | TRFTE_FORMATTING_ ROUTINE | Feature trace formatting routine |
| (52) | CHARACTER | 9 | TRFTE_ABBREV_NAME | Name for formatted trace |
| (5B) | BIT(8) | 1 | TRFTE_FLAGS | Feature trace entry flags |
| (5B) | 1... | | TRFTE_EXCEPTION_TRACE | Exception trace flag |
| (5B) | .111 1111 | | * | Spare |
| (5C) | CHARACTER | 2 | * | Spare |

Table 642.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---|---------------------|
| (0) | STRUCTURE | 108 | TRFTW | FEATURE TRACE ENTRY |
| (0) | ADDRESS | 4 | TRFTW_FORMATTING_ ADDRESS (4294967302:341916672) | STORED ADDR |
| (18) | CHARACTER | 8 | TRFTW_FORMATTING_ NAME (4294967302:341916672) | STORED NAMES |
| (48) | CHARACTER | 4 | * | SPARE |
| (4C) | CHARACTER | 32 | TRFTW_WIPE_AREA | WIPED EACH CAL |

Table 642. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|---------------|
| (4C) | UNSIGNED | 1 | TRFTW_TRACE_TYPE | TYPES BELOW |
| (4D) | BIT(8) | 1 | TRFTW_FLAGS | |
| (4D) | 1... .. | | TRFTW_INTERPRETATION | FOREIGN CODE |
| (4D) | .1.. .. | | TRFTW_LOAD_FAILED | MVS LOAD |
| (4D) | ..1. | | TRFTW_NO_NAME | NO FORMAT |
| (4D) | ...1 | | TRFTW_FEATURE_ABEND | NO FORMAT |
| (4D) | 1... | | TRFTW_INT_OVERFLOW | |
| (4D) |111 | | * | SPARE |
| (4E) | UNSIGNED | 2 | TRFTW_LEN_LEFT | WORK AREA |
| (50) | ADDRESS | 4 | TRFTW_NAB | PTR WORK AREA |
| (54) | ADDRESS | 4 | TRFTW_DFHTTRIB_ADDRESS | TRIB ADDRESS |
| (58) | ADDRESS | 4 | TRFTW_CDPFTAB_ADDRESS | CDURUN TABLE |
| (5C) | CHARACTER | 8 | TRFTW_MODULE_NAME | FT MOD NAME |
| (64) | CHARACTER | 8 | * | SPARE |

Constants

Table 643.

| Len | Type | Value | Name | Description |
|-----|---------|-------|-------------------|-------------|
| 1 | DECIMAL | 0 | TRFTW_ENTRY | ENTRY |
| 1 | DECIMAL | 1 | TRFTW_EXIT | EXIT |
| 1 | DECIMAL | 2 | TRFTW_EXCEPTION | EXCEPTION |
| 1 | DECIMAL | 3 | TRFTW_DATA | DATA |
| 1 | DECIMAL | 4 | TRFTW_EVENT | EVENT |
| 1 | DECIMAL | 9 | TRFTW_RUB | |
| 1 | DECIMAL | 0 | TRFTW_RC_OK | OK |
| 1 | DECIMAL | 1 | TRFTW_RC_OVERFLOW | Overflow |

TRGTW - Global trap working storage

CONTROL BLOCK NAME = DFHTRGTW
 NAME OF MATCHING ASM CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS Global Trap (DFHTRAP) Working Storage
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 FUNCTION = All of the working storage and register save areas
 etc. associated with the Global Trap (DFHTRAP).
 LIFETIME = Created by DFHTRSR when a TRAP=ON command is issued
 via the SIT or CSFE. Freed by DFHTRSR during
 CSFE TRAP=OFF processing.
 STORAGE CLASS = In MVS GETMAIN'd storage above 16M.
 LOCATION = The address is held in TRA_TRAP_WA_PTR in the TR
 domain anchor block (TRA).
 INNER CONTROL BLOCKS = None
 NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

Table 644.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|---------------------|---|
| (0) | STRUCTURE | 889 | DFHTRGTW | Global trap (DFHTRAP).. |
| (0) | CHARACTER | 216 | TRAP_REGSAVE | F7SA for DFHTRAP |
| (D8) | CHARACTER | 120 | TRAP_PLIST | DFHTRADS storage |
| (150) | BIT(32) | 4 | TRAP_FLAGS | Trap return action flags |
| (150) | 1... | | TRAP_TRACE | Further trace entry required * |
| (150) | .1.. | | TRAP_DUMP | System dump required |
| (150) | ..1. | | TRAP_TRACE_64 | Trace entry passing 64-bit data required |
| (150) | ...1 | | TRAP_ABCICS | Abend CICS |
| (150) | 1... | | TRAP_DISABLE | Disable the trap |
| (150) |1.. | | TRAP_DUMP_WITH_LOCK | System dump holding lock |
| (150) | BIT(26) POS(7) | 4 | * | Reserved |
| (154) | CHARACTER | 104 | TRAP_TRPLIST | TRPT format parameter for requested entry |
| (1BC) | CHARACTER | 160 | TRAP_TRPLIST_64 | TRP4 format parameter for requested entry |
| (260) | CHARACTER | 281 | TRAP_WORK | Force D-word alignment for.. |
| (260) | CHARACTER | 16 | TRAP_WORK_EYEC | 'DFHTRAP_WORKAREA' eyecatcher |
| (270) | CHARACTER | 265 | TRAP_WORKAREA | Work area for DFHTRAP |

TSG - Temporary Storage Domain Statistics

CONTROL BLOCK NAME = DFHTSGDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHTSGPS
 DESCRIPTIVE NAME = CICS TS Temporary Storage statistics record.
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 FUNCTION = Temporary Storage statistics record.
 LIFETIME = Record is constructed by DFHSTTS, then passed to the statistics domain.
 STORAGE CLASS =
 LOCATION =
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =

Table 645.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHTSGDS | Temp storage statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | TSGLEN | Length of data area |
| (0) | ..11 | | TSGIDE | "0048" TS stats mask |
| (2) | ADDRESS | 2 | TSGID | TS stats id |
| (2) |1 | | TSGVERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | TSGDVERS | TS stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | TSGSTA5F | PUT/PUTQ main storage requests |
| (C) | FULLWORD | 4 | TSGNMG | GET/GETQ main storage requests |
| (10) | FULLWORD | 4 | | Retired |
| (14) | FULLWORD | 4 | TSGSTA7F | PUT/PUTQ aux storage requests |
| (18) | FULLWORD | 4 | TSGNAG | GET/GETQ aux storage requests |
| (1C) | FULLWORD | 4 | TSGQNUMH | Peak TS names in use |
| (20) | FULLWORD | 4 | TSGQINH | Entries in longest Queue |
| (24) | HALFWORD | 2 | | Reserved |
| (26) | HALFWORD | 2 | | Reserved |
| (28) | FULLWORD | 4 | TSGSTA3F | Times queue created |
| (2C) | FULLWORD | 4 | | Reserved |
| (30) | FULLWORD | 4 | TSGCSZ | Control interval size |
| (34) | FULLWORD | 4 | TSGSTABF | Writes more than control interval |
| (38) | FULLWORD | 4 | TSGNCI | CIs in TS dataset |
| (3C) | FULLWORD | 4 | TSGNCIAH | Peak CIs used |
| (40) | FULLWORD | 4 | TSGSTA8F | Times aux store exhausted |
| (44) | HALFWORD | 2 | TSGNBCA | No. TS Buffers |
| (46) | HALFWORD | 2 | | Reserved |
| (48) | FULLWORD | 4 | TSGBWTN | No. Buffer waits |
| (4C) | FULLWORD | 4 | TSGBUWTH | Peak users waiting on buffer |
| (50) | FULLWORD | 4 | TSGTWTN | Buffer writes |
| (54) | FULLWORD | 4 | TSGTWTNR | Writes force for recovery |
| (58) | FULLWORD | 4 | TSGTRDN | Buffer reads |
| (5C) | FULLWORD | 4 | TSGTWTNF | Format writes |

Table 645. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (60) | HALFWORD | 2 | TSGNVCA | No. TS strings |
| (62) | HALFWORD | 2 | | Reserved |
| (64) | FULLWORD | 4 | TSGNVCAH | Peak strings in use |
| (68) | FULLWORD | 4 | TSGVWTN | Times string wait occurred |
| (6C) | FULLWORD | 4 | TSGVUWTH | Peak users waiting on string |
| (70) | FULLWORD | 4 | TSGSTA AF | I/O errors on TS dataset |
| (74) | FULLWORD | 4 | | Retired |
| (78) | FULLWORD | 4 | TSGSTA9F | No. TS compressions |
| (7C) | FULLWORD | 4 | TSGNCIA | Current CIs in use |
| (80) | FULLWORD | 4 | TSGVUWT | Users waiting on string |
| (84) | FULLWORD | 4 | TSGBUWT | Users waiting on buffer |
| (88) | FULLWORD | 4 | TSGQNUM | TS names in use |
| (8C) | FULLWORD | 4 | TSGLAR | Longest Auxiliary record length |
| (90) | FULLWORD | 4 | TSGNAVB | No. available bytes per CI |
| (94) | FULLWORD | 4 | TSGSPCI | Segments per CI |
| (98) | FULLWORD | 4 | TSGBPSEG | Bytes per segment |
| (9C) | FULLWORD | 4 | TSGSHPDF | Shared pools defined |
| (A0) | FULLWORD | 4 | TSGSHPCN | Shared pools connected to |
| (A4) | FULLWORD | 4 | TSGSHRDS | Shared read requests |
| (A8) | FULLWORD | 4 | TSGSHWTS | Shared write requests |
| (AC) | FULLWORD | 4 | TSGTSLHT | Count of times TSMINLIMIT hit |
| (B0) | BITSTRING | 8 | TSGTSLM | TSMINLIMIT setting |
| (B8) | BITSTRING | 8 | TSGTSMUS | Current utilisation of TSMIN |
| (C0) | BITSTRING | 8 | TSGTSMAX | Maximum use of TS storage |
| (C8) | FULLWORD | 4 | TSGTSQDL | Number of queues auto deleted |
| (CC) | FULLWORD | 4 | TSGTSCTR | Count of cleanup task runs |
| (CC) | 11.1 | | TSGEND | "*" |
| (CC) | 11.1 | | TSGCLEN | "*-TSGLEN" Length of DSECT |

TSIOA - Temporary Storage input/output area

CONTROL BLOCK NAME = DFHTSIOA
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS Temporary Storage Input/Output Area.
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 TEMPORARY STORAGE INPUT/OUTPUT AREA (TSIOA)
 The TSIOA is a class of user storage and is chained off the TCA

(TCASCCA). It can be acquired by the user or, in response to a GET or GETQ request, it is acquired by the temporary storage program when no TSDADDR is specified. TSIOAs acquired by, or on behalf of, a user task are normally released by the task. If not, the area is freed by the task control program when the task is terminated.

If necessary, an extension header is inserted in the TSIOA preceding the user data. This extension carries information specified on an EXEC CICS START command (for example, PROTECT FMH RTRANSID).

Table 646.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHTSIOA | DUMMY SECTION - TEMPORARY STORAGE I/O AREA USING |
| (0) | HALFWORD | 2 | | STORAGE ACCOUNTING (CLASS=TEMPORARY STORAGE) |
| (2) | HALFWORD | 2 | TSIOASAL | STORAGE ACCOUNTING - AREA LENGTH |
| (4) | ADDRESS | 4 | TSIOASCA | TRANSACTION STORAGE CHAIN ADDRESS |
| (8) | HALFWORD | 2 | TSIOAVRL | VARIABLE RECORD LENGTH |
| (A) | HALFWORD | 2 | | RESERVED |
| (A) | 11.. | | TSIOACAD | "*-DFHTSIOA" CONTROL AREA DISPLACEMENT |
| (A) | 11.. | | TSIOADBA | "*1" DATA BEGINNING ADDRESS |

TST - Temporary Storage table

CONTROL BLOCK NAME = DFHTSTDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHTSTPS
DESCRIPTIVE NAME = CICS TS Temporary Storage Table
PN= REASON REL YYMMDD HDXIII : REMARKS
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TEMPORARY STORAGE TABLE (TST)

The temporary storage table (TST) is a list of generic mnemonics used:

1. To identify temporary storage DATAIDs for which CICS is to provide recoverability in the event of abnormal termination of CICS and subsequent emergency restart.
2. To identify DATAIDs for which security checking is to be performed.
3. To identify DATAIDs on a remote system.
4. To map selected remote system SYSIDs to shared queue pools.

Each recovery entry in the table specifies the leading characters of user-defined DATAIDs for which CICS will provide protection (enqueueing) during a logical unit of work by an application program and automatic logging of the status of the data at task termination (or sync point). CSATSTBA in the CSA optional features list (CSAOPFL) points to the temporary storage table (TST).

Table 647.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (0) | STRUCTURE | 0 | DFHTSTDS | |
| (0) | DBL WORD | 8 | TSTSTART (0) | |
| PREFIX | | | | |
| (0) | FULLWORD | 4 | TSTDTAGE | DATA AGE LIMIT IN 1.048576 SEC UNITS |
| (4) | ADDRESS | 4 | TSTADDRE | A(1ST RECOVERY ENTRY) OR 0 IF NONE PRESENT |
| (8) | ADDRESS | 4 | TSTADDRM | A(1ST REMOTE ENTRY) OR 0 IF NONE PRESENT |
| (C) | ADDRESS | 4 | TSTADDSE | A(1ST SECURITY ENTRY) OR 0 IF NONE PRESENT |
| (10) | BITSTRING | 8 | TSTHDX (0) | OPTIONAL HEADER EXTENSION ENTRY |
| (10) | HALFWORD | 2 | TSTHDXLN | HEADER EXTENSION ENTRY LENGTH |
| (12) | BITSTRING | 1 | TSTHDXFL | FLAG BYTE IN SAME FORM AS TSTFL |
| HEADER EXTENSION IS PRESENT IF TSTHDXBM IS SET IN THIS FLAG BYTE | | | | |
| (13) | BITSTRING | 1 | | RESERVED |
| (14) | ADDRESS | 4 | TSTADDSH | A(1ST SHARED POOL ENTRY) OR 0 IF NONE PRESENT |
| COMMON PART | | | | |
| (0) | HALFWORD | 2 | TSTLL | LENGTH OF ENTRY |
| (2) | BITSTRING | 1 | TSTFL | FLAG DESCRIBING ENTRY |
| (2) | 1... | | TSTRCVBM | "X'80'" RECOVERABLE |
| (2) | .1.. | | TSTRMTBM | "X'40'" REMOTE |
| (2) | ..1. | | TSTRNMBM | "X'20'" REMOTE PREFIX GIVEN |
| (2) | ...1 | | TSTRSLBM | "X'10'" RESOURCE SECURITY LEVEL CHK |
| (2) | 1.. | | TSTSHRBM | "X'08'" SHARED POOL ENTRY |
| (2) |1.. | | TSTMIGBM | "X'04'" MIGRATE FLAG (1 IF MIGRATE=YES) |
| (2) |1. | | TSTHDXBM | "X'02'" HEADER EXTENSION ENTRY |
| (2) |1 | | TSTLSTBM | "X'01'" =1 FOR LAST ENTRY |
| (3) | FULLWORD | 1 | | RESERVED |
| (4) | BITSTRING | 1 | | RESERVED |
| (5) | BITSTRING | 1 | TSTPL | PREFIX LENGTH-1 |
| (6) | CHARACTER | 8 | TSTPRFX (0) | PREFIX |
| (6) | CHARACTER | 8 | TSTPOOL (0) | POOL NAME IN SHARED POOL ENTRY |

Table 647. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------|-----------|-----|------------|--|
| (6) | CHARACTER | 4 | | FIRST FOUR BYTES |
| (A) | CHARACTER | 4 | | LAST FOUR - INCLUDED ONLY WHEN PREFIX GREATER THAN FOUR BYTES, OR REMOTE |
| REMOTE ONLY | | | | |
| (E) | CHARACTER | 4 | TSTSYS | REMOTE SYSTEM ID |
| REMOTE AND TSTRNMBM=1 ONLY | | | | |
| (12) | CHARACTER | 8 | TSTRPFX | REMOTE PREFIX (TSTPL GIVES ACTUAL LENGTH-1) |

TSUE - Temporary Storage EXEC Parameter List

CONTROL BLOCK NAME = DFHTSUEC
 DESCRIPTIVE NAME = CICS TS EXEC parameter list for Temporary
 Storage user exits.

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Although provided in a general library, DFHTSUEC is not to be used as a general programming interface. Refer to product documentation to determine intended usage.

The following fields are part of the Product-sensitive Programming Interface.

TS_ADDR0
 TS_ADDR1
 TS_ADDR2
 TS_ADDR3
 TS_ADDR4
 TS_ADDR5
 TS_ADDR7
 TS_GROUP
 TS_FUNCT
 TS_BITS1
 TS_EIDOPT5
 TS_EIDOPT6
 TS_EIDOPT7
 TS_EIDOPT8
 TS_QUEUE
 TS_WRITEQ_QUEUE
 TS_READQ_QUEUE
 TS_DELETEQ_QUEUE
 TS_QNAME
 TS_WRITEQ_QNAME
 TS_READQ_QNAME
 TS_DELETEQ_QNAME
 TS_READQ_SET
 TS_READQ_INT0
 TS_WRITEQ_FROM
 TS_LENGTH
 TS_WRITEQ_LENGTH
 TS_READQ_LENGTH
 TS_READQ_NUMITEMS
 TS_WRITEQ_NUMITEMS
 TS_ITEM
 TS_WRITEQ_ITEM
 TS_READQ_ITEM

```

        TS_SYSID
        TS_WRITEQ_SYSID
        TS_READQ_SYSID
        TS_DELETEQ_SYSID
All equates for values of EIBRCODE, EIBRESP and EIBRESP2
form part of the General-purpose Programming Interface.
All remaining fields used in defining the Exec Parameter
List are product sensitive and may vary between CICS
releases.
FUNCTION =
    To define the EXEC parameter list for Temporary Storage
    requests, for use by global user exit programs at exit
    points XTSEREQ and XTSEREQC.
    On entry to the XTSEREQ and XTSEREQC User Exits, the EXEC
    parameter list is pointed to by UEPCPLPS.
    The EXEC parameter list for Temporary Storage consists of
    eight addresses.
    The eight addresses are defined by TS_ADDR0 to TS_ADDR7.
    This DSECT defines these addresses and the areas that
    they point to.
    On entry to the XTSEREQ and XTSEREQC User Exits, the copy
    of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP
    is pointed to by UEPRESP and the copy of EIBRESP2 is
    pointed to by UEPRESP2.
    This DSECT also contains equates for values of EIBRCODE,
    EIBRESP and EIBRESP2 used by Temporary Storage.
LIFETIME = Lifetime of the TS command request
STORAGE CLASS = As the storage being mapped is the translated
                source in the user's application program, the
                storage may be either above or below the line.
LOCATION = (1) EXEC Parameter List is addressed by UEPCPLPS.
          (2) Fields copied from the EIB are addressed by
              UEPRCODE, UEPRESP and UEPRESP2.
          (3) The token for use in communicating between
              XTSEREQ and XTSEREQC is addressed by UEPTQTOK.
INNER CONTROL BLOCKS =
    TS_ADDR_LIST declares the EXEC addresses.
    TS_EID defines the EID pointed to by TS_ADDR0.
NOTES :
    DEPENDENCIES = S/370 ESA
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = None
    GLOBAL VARIABLES (Macro pass) = None
-----
The command parameter list is a list of addresses
which reference the argument values for this this EXEC CICS
command. The addresses are only valid if the argument is
applicable to this command.
For example, address 1 is of the TS QUEUE (if used) for all TS
commands, whereas the address 2 is of the FROM data area on
WRITEQ commands, the SET address or INTO data area for READQ
commands, and is not valid for DELETEQ commands.
The existence bits in the EID component (TS_BITS1) specify
those addresses that are valid, and the flagword bits
(TS_EIDOPT5 - TS_EIDOPT8) specify the keywords that were given
in the EXEC CICS TS command.
Therefore, you can deduce the usage of each address by testing
these bits in conjunction with the command function(TS_FUNCT).

```

Table 648.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-----------------|
| (0) | STRUCTURE | 32 | TS_ADDR_LIST | Addresses of... |

Table 648. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------|-----|------------|-------------------------|
| (0) | ADDRESS | 4 | TS_ADDR0 | the EID |
| (4) | ADDRESS | 4 | TS_ADDR1 | QUEUE/QNAME |
| (8) | ADDRESS | 4 | TS_ADDR2 | FROM data area (WRITEQ) |
| INTO data area (READQ) SET address (READQ) | | | | |
| (C) | ADDRESS | 4 | TS_ADDR3 | LENGTH value |
| (10) | ADDRESS | 4 | TS_ADDR4 | NUMITEMS value (READQ) |
| (14) | ADDRESS | 4 | TS_ADDR5 | ITEM value |
| NUMITEMS value (WRITEQ) | | | | |
| (18) | ADDRESS | 4 | * | Reserved |
| (1C) | ADDRESS | 4 | TS_ADDR7 | SYSID |

TS_EID (addressed by TS_ADDR0) gives the command function, and contains the existence and flagword bits.

Note: Equates for TS_GROUP, TS_FUNCT, EIBRCODE, EIBRESP and EIBRESP2 values are defined at the end of this data structure.

Table 649.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------|------------------|
| (0) | STRUCTURE | 9 | TS_EID | |
| (0) | CHARACTER | 1 | TS_GROUP | '0A'X for TS |
| (1) | CHARACTER | 1 | TS_FUNCT | '02'X for WRITEQ |
| '04'X for READQ '06'X for DELETEQ ----- The existence bits (TS_BITS1) specify the parameters that are valid for this command. For example, TS_EXIST7 set on indicates that TS_ADDR7 is valid, meaning that it addresses a SYSID value. TS_ADDR0 is always valid and has no existence bit. A user exit program at XTSEREQ can set the TS_EXIST7 bit on or off for all TS commands. All other changes will be ignored. ----- | | | | |
| (2) | BIT(8) | 1 | TS_BITS1 | |
| (2) | 1... | | TS_EXIST1 | QUEUE/QNAME - |
| (2) | 1... | | TS_QUEUE_V | ALWAYS SET |
| (2) | 1... | | TS_WRITEQ_QUEUE_V | |
| (2) | 1... | | TS_READQ_QUEUE_V | |
| (2) | 1... | | TS_DELETEQ_QUEUE_V | |
| (2) | .1.. | | TS_EXIST2 | |
| (2) | .1.. | | TS_WRITEQ_FROM_V | |
| (2) | .1.. | | TS_READQ_SET_INTO_V | |
| (2) | ..1. | | TS_EXIST3 | |
| (2) | ..1. | | TS_LENGTH_V | |
| (2) | ..1. | | TS_WRITEQ_LENGTH_V | |
| (2) | ..1. | | TS_READQ_LENGTH_V | |

Table 649. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------------------|---------------------------|
| (2) | ...1 | | TS_EXIST4 | |
| (2) | ...1 | | TS_READQ_NUMITEMS_V | |
| (2) | 1... | | TS_EXIST5 | |
| (2) | 1... | | TS_WRITEQ_ITEM_NUMITEMS_V | |
| (2) | 1... | | TS_READQ_ITEM_V | |
| (2) |1.. | | * | |
| (2) |1. | | TS_EXIST7 | |
| (2) |1. | | TS_SYSID_V | |
| (2) |1. | | TS_WRITEQ_SYSID_V | |
| (2) |1. | | TS_READQ_SYSID_V | |
| (2) |1. | | TS_DELETEQ_SYSID_V | |
| (2) |1 | | * | Reserved |
| (3) | BIT(16) | 2 | * | Reserved |
| <p>-----</p> <p>The next 4 bytes (TS_EIDOPT5 - TS_EIDOPT8) are the flagword bits. Some bits have more than one meaning, depending on the command function, and these are named accordingly.</p> <p>A user exit program at XTSEREQ can set the TS_WRITEQ_MAIN_X and TS_WRITEQ_NOSUSPEND_X bits on or off for all WRITEQ commands. All other changes will be ignored.</p> <p>-----</p> | | | | |
| (5) | BIT(8) | 1 | TS_EIDOPT5 | |
| (5) | 1... | | TS_QNAME_X | QNAME, otherwise QUEUE |
| (5) | .111 111. | | * | Reserved |
| (5) |1 | | TS_READQ_SET_X | SET, otherwise INTO |
| (6) | BIT(8) | 1 | TS_EIDOPT6 | |
| (6) | BIT(8) | 1 | * | Reserved |
| (7) | BIT(8) | 1 | TS_EIDOPT7 | |
| (7) | 111. | | * | Reserved |
| (7) | ...1 | | TS_WRITEQ_NOSUSPEND_X | NOSUSPEND |
| (7) | 1... | | * | |
| (7) | 1... | | TS_WRITEQ_MAIN_X | MAIN, otherwise AUXILIARY |
| (7) | 1... | | TS_READQ_ITEM_X | ITEM |
| (7) |1.. | | * | |
| (7) |1.. | | TS_WRITEQ_REWRITE_X | REWRITE |
| (7) |1.. | | TS_READQ_NUMITEMS_X | NUMITEMS |
| (7) |11 | | * | |
| (8) | BIT(8) | 1 | TS_EIDOPT8 | |
| (8) | 1... | | * | |
| (8) | 1... | | TS_WRITEQ_ITEM_X | ITEM, otherwise NUMITEMS |

Table 649. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (8) | .111 1111 | | * | |

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by TS_ADDR1 - TS_ADDR7 in TS_ADDR_LIST.

Table 650.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|----------------|
| (0) | STRUCTURE | 8 | TS_DATA1 | |
| (0) | CHARACTER | 8 | TS_QUEUE | the QUEUE name |
| (0) | CHARACTER | 8 | TS_WRITEQ_QUEUE | |
| (0) | CHARACTER | 8 | TS_READQ_QUEUE | |
| (0) | CHARACTER | 8 | TS_DELETEQ_QUEUE | |

Table 651.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-------------------------|
| (0) | STRUCTURE | 16 | TS_DATA1X | |
| (0) | CHARACTER | 16 | TS_QNAME | the QNAME, if specified |
| (0) | CHARACTER | 16 | TS_WRITEQ_QNAME | |
| (0) | CHARACTER | 16 | TS_READQ_QNAME | |
| (0) | CHARACTER | 16 | TS_DELETEQ_QNAME | |

Table 652.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|---------------|
| (0) | STRUCTURE | * | TS_DATA2 | |
| (0) | CHARACTER | * | TS_READQ_INT0 | the INTO area |
| (0) | CHARACTER | * | TS_WRITEQ_FROM | the FROM area |
| (0) | ADDRESS | 4 | TS_READQ_SET | SET address |

Table 653.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-------------------|
| (0) | STRUCTURE | 2 | TS_DATA3 | |
| (0) | HALFWORD | 2 | TS_LENGTH | the record LENGTH |
| (0) | HALFWORD | 2 | TS_WRITEQ_LENGTH | |
| (0) | HALFWORD | 2 | TS_READQ_LENGTH | |

Table 654.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|--------------------------|
| (0) | STRUCTURE | 2 | TS_DATA4 | |
| (0) | HALFWORD | 2 | TS_READQ_NUMITEMS | NUMITEMS value for READQ |

Table 655.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---------------------------|
| (0) | STRUCTURE | 2 | TS_DATA5 | |
| (0) | HALFWORD | 2 | TS_WRITEQ_NUMITEMS | NUMITEMS value for WRITEQ |
| (0) | HALFWORD | 2 | TS_ITEM | the ITEM value |
| (0) | HALFWORD | 2 | TS_WRITEQ_ITEM | |
| (0) | HALFWORD | 2 | TS_READQ_ITEM | |

Table 656.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|----------------|
| (0) | STRUCTURE | 4 | TS_DATA7 | |
| (0) | CHARACTER | 4 | TS_SYSID | the SYSID name |
| (0) | CHARACTER | 4 | TS_WRITEQ_SYSID | |
| (0) | CHARACTER | 4 | TS_READQ_SYSID | |
| (0) | CHARACTER | 4 | TS_DELETEQ_SYSID | |

Constants

Table 657.

| Len | Type | Value | Name | Description |
|---|------|-------|-----------------------|-------------|
| Equate for TS_GROUP. All Temporary Storage requests have group code '0A' | | | | |
| 1 | HEX | 0A | TS_TEMPSTOR_GROUP | |
| Equates for TS_FUNCT values. | | | | |
| 1 | HEX | 02 | TS_WRITEQ | WRITEQ |
| 1 | HEX | 04 | TS_READQ | READQ |
| 1 | HEX | 06 | TS_DELETEQ | DELETEQ |
| Start of General Use Programming Interface. Equates for EIBRCODE values used by Temporary Storage. | | | | |
| 1 | HEX | 00 | TS_OK_EIBRCODE | |
| 1 | HEX | 20 | TS_INVREQ_EIBRCODE | |
| 1 | HEX | 04 | TS_IOERR_EIBRCODE | |
| 1 | HEX | D1 | TS_ISCINVREQ_EIBRCODE | |
| 1 | HEX | 01 | TS_ITEMERR_EIBRCODE | |
| 1 | HEX | E1 | TS LENGERR_EIBRCODE | |
| 1 | HEX | 08 | TS_NOSPACE_EIBRCODE | |
| 1 | HEX | D6 | TS_NOTAUTH_EIBRCODE | |
| 1 | HEX | 02 | TS_QIDERR_EIBRCODE | |
| 1 | HEX | D0 | TS_SYSIDERR_EIBRCODE | |
| 1 | HEX | 03 | TS_LOCKED_EIBRCODE | |
| Equates for EIBRESP values used by Temporary Storage. | | | | |

Table 657. (continued)

| Len | Type | Value | Name | Description |
|--|---------|-------|----------------------|--|
| 1 | DECIMAL | 0 | TS_OK_EIBRESP | |
| 1 | DECIMAL | 16 | TS_INVREQ_EIBRESP | |
| 1 | DECIMAL | 17 | TS_IOERR_EIBRESP | |
| 1 | DECIMAL | 54 | TS_ISCINVREQ_EIBRESP | |
| 1 | DECIMAL | 26 | TS_ITEMERR_EIBRESP | |
| 1 | DECIMAL | 22 | TS LENGERR_EIBRESP | |
| 1 | DECIMAL | 18 | TS_NOSPACE_EIBRESP | |
| 1 | DECIMAL | 70 | TS_NOTAUTH_EIBRESP | |
| 1 | DECIMAL | 44 | TS_QIDERR_EIBRESP | |
| 1 | DECIMAL | 53 | TS_SYSIDERR_EIBRESP | |
| 1 | DECIMAL | 100 | TS_LOCKED_EIBRESP | |
| Equates for EIBRESP2 values used by Temporary Storage. | | | | |
| 1 | DECIMAL | 0 | TS_OK_EIBRESP2 | OK |
| 1 | DECIMAL | 101 | TS_NOTAUTH_EIBRESP2 | NOTAUTH |
| 1 | DECIMAL | 0 | TS_LOCKED_EIBRESP2 | LOCKED *_**_**_*_*_*_*_*_*_*_*_*_* *_**_**_*_*_*_*_*_*_*_*_*_* *_* End of General Use *** *_* Programming Interface *-* *_**_**_*_*_*_*_*_*_*_*_*_* |

TTP - Terminal type parameter

DESCRIPTIVE NAME = CICS TS Terminal Type Parameter

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FUNCTION = Defines the terminal type parameter. This control block contains terminal type or partition or LDC specific data. The OSPWA addresses a chain of direct TTPS (one per partition or LDC) and if routing is in effect the OSPWA addresses a chain of routed TTPS, one per target terminal type. Note that routing and LDCS or partitions are mutually exclusive. TTPS are built by DFHRLR, and freed by DFHMCP on SEND PAGE.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = NONE

REGISTER CONVENTIONS = NOT APPLICABLE

PATCH LABEL = NONE

MODULE TYPE = DSECT

MODULE SIZE = xxxx (dddd DECIMAL) BYTES

ATTRIBUTES = DSECT

ENTRY POINT = NOT APPLICABLE

PURPOSE = SEE FUNCTION

LINKAGE = NOT APPLICABLE

INPUT = NOT APPLICABLE

OUTPUT = NOT APPLICABLE

EXIT-NORMAL = NOT APPLICABLE

EXIT-ERROR = NOT APPLICABLE

EXTERNAL REFERENCES = NOT APPLICABLE

CONTROL BLOCKS = NOT APPLICABLE
TABLES = NONE
MACROS = NONE

TERMINAL TYPE PARAMETERS
COMMON CONTROL AREA

Table 658.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------|---|
| (0) | STRUCTURE | 0 | DFHTTPCM | DUMMY SECTION PART 1 - TTP |
| (0) | DBL WORD | 8 | | STORAGE ACCOUNTING INFORMATION; STORAGE CLASS=USER |
| (0) | 1... | | TTPSTRT | '1*1' |
| (8) | CHARACTER | 8 | TTPCBID | TTP SELF IDENTIFICATION. SET TO 'DFHTTPDS' WHEN TTP CREATED |
| (8) | ...1 | | TTPSTRT1 | '1*1' START OF REAL TTP DATA |
| (10) | BITSTRING | 2 | TTPTTID (0) | TERMINAL TYPE PARAMETER ID |
| 'TTPDDS' & 'TTPMSUFEX' EQUATES CAN BE FOUND AT END OF DSECT | | | | |
| (10) | BITSTRING | 1 | TTPDDS | DEVICE DEPENDENCE SUFFIX |
| (11) | BITSTRING | 1 | TTPMSUFEX | MAP SUFFIX |
| (12) | CHARACTER | 2 | TTPLDCMN | LOGICAL DEVICE CODE MNEMONIC OR OUTPARTN VALUE I.E. NAME OF O/P PARTITION |
| (14) | BITSTRING | 1 | TTPLDCTT | LDC TERMINAL TYPE |
| (15) | BITSTRING | 1 | TTPDSP | DATA STREAM PROFILE |
| (16) | BITSTRING | 2 | TTPTFS (0) | ALL TERMINAL FEATURES BYTES |
| (16) | BITSTRING | 1 | TTPTF | FLAGS FROM 'TCTTETF' |
| (17) | BITSTRING | 1 | TTPTF2 (0) | TERMINAL FEATURES (CONTD) |
| EQUATES FOR 'TTPTFS' ARE THE SAME AS FOR 'TCTTETF' | | | | |
| (17) | BITSTRING | 1 | TTPDVC | BMS DEVICE FROM 'TCTTEDVC' |
| (18) | HALFWORD | 2 | TTPTCNT | COUNT OF TERMINAL IDENTIFICATION IN THIS TTP |
| (1A) | BITSTRING | 4 | TTPOF (0) | PAGEBLD OVERFLOW INFORMATION |
| (1A) | HALFWORD | 2 | TTPPGNO | CURRENT PAGE NUMBER |
| (1C) | HALFWORD | 2 | TTPOCN | PAGEBLD OVERFLOW CONTROL NUMBER |
| (20) | ADDRESS | 4 | TTPCHAIN | ADDRESS OF NEXT TTP |

Table 658. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|-----------|-----|--------------|--|
| (24) | ADDRESS | 4 | TTPGBUF | ADDRESS OF PAGE BUILD BUFFER |
| (28) | ADDRESS | 4 | TTPDCCAD | A(DEVICE CONTROL CHARACTER SET) |
| (2C) | ADDRESS | 4 | TTPMLA | A(ALREADY LOADED MAP(SET)) |
| (30) | ADDRESS | 4 | TTPMAPA | MAP ADDRESS WITHIN MAPSET |
| (34) | ADDRESS | 4 | TTPMMFCP | LAST MODIFIED MAP (FORWARD CHAIN POINTER) OR CURRENT MCA ADDRESS * |
| (38) | ADDRESS | 4 | TTPTFMA | TAB FORMAT MAP ADDRESS |
| (3C) | CHARACTER | 2 | TTPEAVAF (0) | VALID DEST ATTRIBUTES |
| (3C) | BITSTRING | 1 | TTPEAVAL | VALID ATTRS FOR DEST--BYTE1 |
| (3D) | BITSTRING | 1 | TTPEAVA2 | VALID ATTRS FOR DEST--BYTE2 |
| (3E) | BITSTRING | 1 | TTPEAVA3 | RESERVED |
| (3F) | CHARACTER | 2 | TTPEAUSF (0) | DATASTREAM ATTRIBUTES |
| (3F) | BITSTRING | 1 | TTPEAUSE | ATTRS USED IN DATASTREAM--BYTE1 |
| (40) | BITSTRING | 1 | TTPEAUS2 | ATTRS USED IN DATASTREAM--BYTE2 |
| (41) | BITSTRING | 1 | TTPEAUS3 | RESERVED |
| EQUATES FOR TTPEAVAL AND TTPEAUSE | | | | |
| (41) | 1... | | TTPEXTDS | "X'80'" IN TTPEAVAL: EXTENDED DATASTREAM SUPPORTED BY DESTINATION IN TTPEAUSE: EXTENDED ATTRS PRESENT FOR SOME MAP IN CURRENT PAGE |
| (41) | .1.. | | TTPEACOL | "X'40'" COLOUR ATTR SUPPORTED/USED |
| (41) | ..1. | | TTPEAPSS | "X'20'" PSS ATTR SUPPORTED/USED |
| (41) | ...1 | | TTPEAHLT | "X'10'" HILIGHT ATTR SUPPORTED/USED |
| (41) | 1... | | TTPEAVLD | "X'08'" VALIDATION ATTRIBUTES SUPPORT / USED |
| (41) |1.. | | TTPEAPRT | "X'04'" PARTITIONS SUPPORTED |

Table 658. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|-----------|-----|--------------|--|
| (41) |1. | | TTPEAMSR | "X'02" MSR SUPPORTED/USED |
| (41) |1 | | TTPEAAPR | "X'01" ACTIVATE PARTITION USED |
| EQUATES FOR TTPEAVA2 AND TTPEAUS2 | | | | |
| (41) | 1... | | TTPEAFRL | "X'80" OUTLINE ATTR SUPPORTED/USED |
| (41) | .1.. | | TTPEAMIX | "X'40" SOSI ATTR SUPPORTED/USED |
| (41) | ..1. | | TTPEABTR | "X'20" BACKGROUND TRANSP SUPP/USED |
| (41) |1 | | TTPEASA | "X'01" SA SUPPORTED/USED |
| (42) | CHARACTER | 1 | TPPASUFEX | ALTERNATE SUFFIX FROM TCTTE |
| (43) | CHARACTER | 1 | TTPTSQUL | TEMPORARY STORAGE QUALIFICATION |
| CONTROL RECORD (MCR) | | | | |
| (44) | CHARACTER | 1 | TPPMSZL | MAP HEIGHT IN LINES |
| (45) | CHARACTER | 1 | TPPMSZC | MAP WIDTH IN COLUMNS |
| (46) | CHARACTER | 1 | TPPMSL | RELOCATED MAP LINE POSITION |
| (47) | CHARACTER | 1 | TPPMSC | RELOCATED MAP COLUMN POSN |
| (48) | CHARACTER | 8 | TPPMLN | NAME BY WHICH MAP GOT LOADED |
| (50) | HALFWORD | 2 | TPPTXPTR | TEXTBLD TIOA POINTER, SAVE AREA |
| (52) | HALFWORD | 2 | TPPDATO | OFFSET FROM PBDDSDR TO DATA |
| (54) | HALFWORD | 2 | TPPCURSR | CURSOR POSITION |
| (58) | ADDRESS | 4 | TPP32SFP | ADDRESS OF 3270E OUTBOUND STRUCTURED FIELD |
| (5C) | BITSTRING | 2 | TPPDSPSZ (0) | MOST RESTRICTIVE DISPLAY SIZE |
| (5C) | BITSTRING | 1 | TPPLINES | MOST RESTRICTIVE DISPLAY LENGTH |
| (5D) | BITSTRING | 1 | TPPCOLS | MOST RESTRICTIVE DISPLAY WIDTH |
| (5E) | BITSTRING | 1 | TPPPFTS | TRAILER SIZE (NUMBER OF LINES) |
| (5F) | BITSTRING | 1 | TPPTFMI | TAB FORMAT MAP INDICATOR |
| (5F) | ..1. | | TPPTFMH | "X'20" HORIZONTAL TABS |

Table 658. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (5F) | .1.. | | TTPTFMV | "X'40'" VERTICAL TABS |
| (60) | BITSTRING | 1 | TTPIND01 (0) | TTP INDICATOR ONE |
| (60) | BITSTRING | 1 | TTPREQ | PAGE BUILD REQUEST CONTROL BYTE |
| (60) | 1... | | TTPTXTO | "X'80'" TEXTBLD PAGE OVERFLOW |
| (60) | .1.. | | TTP3270 | "X'40'" 3270 INDICATOR |
| (60) | ..1. | | TTPSM | "X'20'" TTPMLN CONTAINS A SUFFIXED NAME |
| (60) | ...1 | | TTPTXTB | "X'10'" TEXTBLD DATA IN BUFFER |
| (60) | 1... | | TTPERAS | "X'08'" ERASE WITH WRITE |
| (60) |1.. | | TTPML1 | "X'04'" ML1 TO BE CALLED |
| (60) |1. | | TTPJL | "X'02'" JUSTIFY = LAST |
| (60) |1 | | TTPJF | "X'01'" JUSTIFY = FIRST |
| (61) | BITSTRING | 1 | TTPIND02 | TTP INDICATOR TWO |
| (61) | 1... | | TTPOFIP | "X'80'" TEXTBLD OVERFLOW IN PROCESS |
| (61) | .1.. | | TTPMAPIP | "X'40'" MAPPING IN PROCESS |
| (61) | ..1. | | TTPHDRJP | "X'20'" HEADER JUST PROCESSED |
| (61) | ...1 | | TTPALARM | "X'10'" USER SAID CTRL=ALARM -- SO DSB SETS ALARM IN 3601 FMH |
| (61) | 1... | | TTPWWW | "X'08'" WAIT WHEN WRITING THIS PAGE |
| (61) |1.. | | TTPPFODO | "X'04'" A PAGE WAS FORCED OUT DURING PAGEBLD OVERFLOW |
| (61) |1. | | TTPLDCDF | "X'02'" DEFAULT TTP FOR LOGICAL DEVICE CODE PROCESSING |
| (61) |1 | | TTPNXDC | "X'01'" NO INITIAL DDC ON PAGE 1 |
| (62) | BITSTRING | 1 | TTPIND03 | TTP INDICATOR THREE |
| (62) | 1... | | TTPMLDC | "X'80'" TTP HAS MULTIPLE LDC'S OR PARTITIONS |
| (62) | .1.. | | TTPDIRECT | "X'40'" THIS IS A DIRECT TTP |
| (62) | ..1. | | TTPTRAN | "X'20'" 3270 TRANSPARENCY NEEDED |
| (62) | ...1 | | TTPTRAND | "X'10'" 3270 TRANSPARENCY ALLOWED FOR IN TIOA |

Table 658. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (62) | 1... | | TTPWSFY5 | "X'08" WSF NEEDED FOR THIS PAGE |
| (62) |1.. | | TTPDOOBF | "X'04" DOING OUTBOARD FORMATTING |
| (62) |1. | | TTPEAU | "X'02" ERASE ALL UNPROTECTED |
| (62) |1 | | TTPFMHYS | "X'01" FMH PRESENT IN THIS PAGE |
| (63) | BITSTRING | 4 | TTPPFWRK (0) | PAGE FORMATTING WORK AREA |
| TTPPFWRK'S FIELDS ARE SEQUENCE SENSITIVE TO THE FIELDS IN OSPPFWRK | | | | |
| (63) | BITSTRING | 1 | TTPPFCL | CURRENT LINE POINTER |
| (64) | BITSTRING | 1 | TTPPFNFL | NEXT AVAILABLE FULL LINE POINTER |
| (65) | BITSTRING | 1 | TTPPFNCL | NEXT AVAILABLE COLUMN FROM LEFT |
| (66) | BITSTRING | 1 | TTPPFNCR | NEXT AVAILABLE COLUMN FROM RIGHT |
| (67) | BITSTRING | 1 | TTPPFLRC | LAST REQUESTED COLUMN FROM LEFT |
| (68) | BITSTRING | 1 | TTPPFRRRC | LAST REQUESTED COLUMN FROM RIGHT |
| (69) | BITSTRING | 1 | TTPFPCNT | NUMBER OF FMH PARAMETERS ON THIS PAGE |
| (69) | ...1 111. | | TTPMXFMP | "30" MAXIMUM NUMBER OF FMH PARAMETERS PER PAGE IS 30 |
| (6A) | BITSTRING | 1 | TTPIND06 | TTP INDICATOR SIX |
| (6A) | 1... | | TTPASCSZ | "X'80" TTP FOR ALTERNATE SCREEN SIZE |
| (6B) | BITSTRING | 1 | TTPIND04 | TTP INDICATOR FOUR |
| (6B) | 1... | | TTP36OBF | "X'80" 3650 OBF NEEDED FOR THIS PAGE |
| (6B) | .1.. | | TTPWSOBF | "X'40" WSF OBF NEEDED FOR THIS PAGE |
| (6B) | ..1. | | TTPNUSED | "X'20" DIRECT TTP IS NOT USED |
| (6B) | ...1 | | TTPPRTN | "X'10" THIS TTP IS FOR A PARTITION |
| (6B) | 1... | | TTTPRT | "X'08" TERM SUPPORTS PARTITIONS M32 BUILDS 3270E OUTBOUND |
| (6B) |1.. | | TTPMODOR | "X'04" OBF MAP HAS BEEN RELOCATED |

Table 658. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (6B) |1. | | TTPMAP1 | "X'02" THE FIRST MAP IN A CHAIN OF MAP COPIES IS BEING HANDLED |
| (6B) |1 | | TTPMHCRT | "X'01" A MAP HEADER EXTENSION AREA MUST BE CREATED |
| (6C) | HALFWORD | 2 | TTPSCSZ (0) | SCREEN SIZE (MINIMUM) |
| (6C) | CHARACTER | 1 | TTPSCSL | SCREEN SIZE LINES |
| (6D) | CHARACTER | 1 | TTPSCSC | SCREEN SIZE COLUMNS |
| (6E) | CHARACTER | 13 | TTPATTR (0) | ATTRIBUTE WORK AREA |
| (6E) | CHARACTER | 1 | TTPFA | 3270 ATTRIBUTE |
| (6F) | CHARACTER | 12 | TTPXATTR (0) | EXTENDED ATTRIBUTE WORK AREA |
| (6F) | CHARACTER | 1 | TTPCOL | COLOUR ATTRIBUTE |
| (70) | CHARACTER | 1 | TTPPSS | PSS ATTRIBUTE |
| (71) | CHARACTER | 1 | TTPHL | HIGHLIGHT ATTRIBUTE |
| (72) | CHARACTER | 1 | TTPVAL | VALIDATION ATTRIBUTE |
| (73) | CHARACTER | 1 | TTPOUTLN | OUTLINE ATTRIBUTE |
| (74) | CHARACTER | 1 | TTPSOSI | SOSI ATTRIBUTE |
| (75) | CHARACTER | 1 | TTPBKTRN | BACKGROUND TRANSPARENCY ATTR |
| (76) | CHARACTER | 5 | | RESERVED |
| (7B) | CHARACTER | 12 | TTPTXAT (0) | EXTENDED ATTRIBUTE WORK AREA FOR TEXT BUILD |
| (7B) | CHARACTER | 1 | TTPTCOL | COLOUR ATTRIBUTE (TEXT BUILD) |
| (7C) | CHARACTER | 1 | TTTPPSS | PSS ATTRIBUTE (TEXT BUILD) |
| (7D) | CHARACTER | 1 | TTPTHL | HIGHLIGHT ATTRIBUTE(TEXT BUILD) |
| (7E) | CHARACTER | 1 | TTPTOUTL | OUTLINE ATTRIBUTE (TEXT BUILD) |
| (7F) | CHARACTER | 1 | TTPTBKTR | BACKGROUND TRANSPARENCY ATTRIBUTE (TEXT BUILD) |
| (80) | CHARACTER | 7 | | RESERVED |
| (87) | BITSTRING | 1 | TTPIND05 | TTP INDICATOR FIVE |
| (87) | 1... | | TTPPGPGB | "X'80" PAGE BUILD ON THIS LDC/PARTN |
| (87) | .1.. | | TTPPGTXB | "X'40" TEXT BUILD ON THIS LDC/PARTN |
| (87) | ..1. | | TTPPGNSC | "X'20" SEND COMMAND OTHER THAN SEND CONTROL ON THIS PAGE |

Table 658. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (87) | ...1 | | TTP16BIT | "X'10'" PAGE HAS 14- OR 16-BIT SBAS |
| (87) | 1... | | TTPFF | "X'08'" FORM FEED REQUESTED |
| (87) |1.. | | TTPATSKP | "X'04'" NO ATTR FOR TEXT PRINTER |
| (87) |1. | | TTPNOSC | "X'02'" REMOVE SO / SI CHARS IN DATA |
| (87) |1 | | TTPKA | "X'01'" KATAKANA TERMINAL |
| (88) | CHARACTER | 1 | TTPOPPID | PID OF OUTPUT PARTITION |
| (89) | CHARACTER | 2 | TTPAPNM | NAME OF ACTIVE PARTITION |
| (8B) | CHARACTER | 1 | TTPAPID | PID OF ACTIVE PARTITION |
| (8C) | CHARACTER | 4 | TTPMGMSR | MAGNETICS MSR VALUE |
| (90) | CHARACTER | 8 | TTPSFGNM | NAME OF SELECTED FORMAT GROUP FOR THIS PARTITION |
| (98) | CHARACTER | 12 | TTPSAVXR | TEMPORARY WORK AREA FOR DFHM32 |
| (A4) | CHARACTER | 12 | TTPSAVX2 | TEMPORARY WORK AREA FOR DFHM32 |
| (B0) | DBL WORD | 8 | TTPCMEND (0) | END COMMON CONTROL AREA |

THE REMAINING SECTION OF THE TTP REPEATS ITSELF WHENEVER ADDITIONAL ADDRESS SPACE IS ACQUIRED TO CONTINUE THE ROUTE LIST FOR THAT TERMINAL TYPE

REPEATED ROUTE LIST AREA

Table 659.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHTTPRE | DUMMY SECTION PART 2 - TTP |
| (0) | CHARACTER | 8 | TTPRCBID | TTP SELF IDENTIFICATION. SET TO 'DFHTTPDS' WHEN TTPRE CREATED |
| (8) | ADDRESS | 4 | TTPRLCHA | ADDRESS OF NEXT ROUTE LIST SEGMENT |
| (8) | 11.. | | TTPRL | "*" START OF ROUTE LIST |
| (8) | 1... | | RLENTY | "8" NUMBER OF TCTTE ADDRESSES IN 1 SEGMENT OF ROUTE LIST |
| (8) | 11.. | | TTPRLES | "*" ROUTE LIST ENTRY START |

Table 659. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (C) | ADDRESS | 4 | TTPTCTTE | TCTTE ADDRESS IF NOT REMOTE TERMINAL A(SKELETON TCTTE) OTHERWISE |
| (10) | BITSTRING | 1 | TTPLDCCD | LOGICAL DEVICE CODE (LDC) |
| (11) | CHARACTER | 2 | TTPLDMNM | LDC MNEMONIC |
| (13) | BITSTRING | 1 | TTPRETYP | ROUTE ENTRY TYPE |
| (13) | 1... | | TTPREREM | "X'80" REMOTE TERMINAL |
| (14) | CHARACTER | 3 | TTPOPID | OPERATOR IDENTIFICATION |
| (17) | BITSTRING | 1 | TTPSF | PAGING STATUS FLAG ONLY |
| (17) | 1... | | TTPSFPG | "TCTTEPGP" PAGING STATUS |
| REMAINING BIT VALUES IN 'TTPSF' UNAVAILABLE | | | | |
| (18) | CHARACTER | 8 | TTPDSN | DESTINATION NAME |
| (18) | ..1. | | TTPRLEE | "*" ROUTE LIST ENTRY END |
| (18) | ...1 .1.. | | TTPRLEL | "TTPRLEE-TTPRLES" ROUTE LIST ENTRY LENGTH |
| (20) | BITSTRING | 4 | TTPSEEND | SINGLE ENTRY STOPPER |
| (C) | CHARACTER | 0 | (0) | ROUTE LIST |
| (AC) | BITSTRING | 4 | TTPRLEND | ROUTE LIST STOPPER |
| (AC) | 11.. 11.. | | TTPLENSE | "(TTPCMEND-TTPSTRT)+ (TTPRLEE-DFHTTPRE)+ L'TTPSEEND" LENGTH OF SINGLE ENTRY TTP |
| (AC) | | 0 | TTPLEN | "(TTPCMEND-TTPSTRT)+ (*DFHTTPRE)" LENGTH OF TTP |
| DEVICE DEPENDENCE SUFFIX (DDS)/MAP SET SUFFIX (MSS) EQUATES | | | | |
| (AC) | 11.. ...1 | | DSCRLP | "C'A" CRLP - DEVICE DEPEND SUFFIX |
| (AC) | 11.. ...1 | | MSCRLP | "C'A" MAP SET SUFFIX |
| (AC) | 11.. .1. | | DSTAPE | "C'B" TAPE - DEVICE DEPEND SUFFIX |
| (AC) | 11.. .1. | | MSTAPE | "C'B" MAP SET SUFFIX |
| (AC) | 11.. ..11 | | DSDISK | "C'C" DISK - DEVICE DEPEND SUFFIX |
| (AC) | 11.. ..11 | | MSDISK | "C'C" MAP SET SUFFIX |
| (AC) | 11.. .1.. | | DSTWX | "C'D" TWX - DEVICE DEPEND SUFFIX |
| (AC) | 11.. .1.. | | MSTWX | "C'D" MAP SET SUFFIX |

Table 659. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (AC) | 11.. .1.1 | | DS1050 | "C'E" 1050 - DEVICE DEPEND SUFFIX |
| (AC) | 11.. .1.1 | | MS1050 | "C'E" MAP SET SUFFIX |
| (AC) | 111. ..1. | | DSF22601 | "C'S" RESERVED |
| (AC) | 111. ..1. | | MSF22601 | "C'S" RESERVED |
| (AC) | 111. ..11 | | DSF22602 | "C'T" RESERVED |
| (AC) | 111. ..11 | | MSF22602 | "C'T" RESERVED |
| (AC) | 11.. .11. | | DS2740 | "C'F" 2740 WO/BUFFRECV-DEVICE DEPEND SUFFIX |
| (AC) | 11.. .11. | | MS2740 | "C'F" 2740 WO/BUFFRECV-MAP SET SUFFIX |
| (AC) | 11.. 1... | | DS2740BR | "C'H" 2740 W/BUFFRECV-DEVICE DEPEND SUFFIX |
| (AC) | 11.. .11. | | MS2740BR | "C'F" MAP SET SUFFIX |
| (AC) | 11.. .111 | | DS2741 | "C'G" 2741 - DEVICE DEPEND SUFFIX |
| (AC) | 11.. .111 | | MS2741 | "C'G" MAP SET SUFFIX |
| (AC) | 11.. 1..1 | | DS2770 | "C'I" 2770 - DEVICE DEPEND SUFFIX |
| (AC) | 11.. 1..1 | | MS2770 | "C'I" MAP SET SUFFIX |
| (AC) | 11.1 ...1 | | DS2780 | "C'J" 2780 - DEVICE DEPEND SUFFIX |
| (AC) | 11.1 ...1 | | MS2780 | "C'J" MAP SET SUFFIX |
| (AC) | 11.1 1... | | DS2980M4 | "C'Q" 2980 MOD 4 - DEVICE DEPEND SUFFIX |
| (AC) | 11.1 1..1 | | MS2980M4 | "C'R" MAP SET SUFFIX |
| (AC) | 11.1 1... | | DS2980 | "C'Q" 2980 - DEVICE DEPEND SUFFIX |
| (AC) | 11.1 1... | | MS2980 | "C'Q" MAP SET SUFFIX |
| (AC) | 11.1 .1.1 | | DS327PM1 | "C'N" 3270-1 PRINTER - DEVICE DEPEND SUFFIX |
| (AC) | 11.1 .1.1 | | MS327PM1 | "C'N" DEVICE DEPEND SUFFIX |
| (AC) | 11.1 .11. | | DS327PM2 | "C'O" 3270-2 PRINTER - DEVICE DEPEND SUFFIX |
| (AC) | 11.1 .11. | | MS327PM2 | "C'O" MAP SET SUFFIX |
| (AC) | 11.1 ..11 | | DS3270M1 | "C'L' 3270 MOD 1 - DEV DEP SUFFIX |
| (AC) | 11.1 ..11 | | MS3270M1 | "C'L' MAP SET SUFFIX |
| (AC) | 11.1 .1.. | | DS3270M2 | "C'M" 3270 MOD 2 - DEV DEP SUFFIX |
| (AC) | 11.1 .1.. | | MS3270M2 | "C'M" MAP SET SUFFIX |

Table 659. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|---|
| (AC) | 111. .1.. | | DS3601 | "C'U'" 3601 - DEVICE DEPEND SUFFIX |
| (AC) | 111. .1.. | | MS3601 | "C'U'" MAP SET SUFFIX |
| (AC) | 111. .1..1 | | DS327PHC | "C'Z'" 3650/3275HC PRINTER - DEVICE DEPEND SUFFIX |
| (AC) | 111. .1..1 | | MS327PHC | "C'Z'" MAP SET SUFFIX |
| (AC) | 111. .111 | | DS3270HC | "C'X'" 3650/3270HC - DEVICE DEPEND SUFFIX |
| (AC) | 111. .111 | | MS3270HC | "C'X'" MAP SET SUFFIX |
| (AC) | 111. .11. | | DS3650UP | "C'W'" 3650UP - DEVICE DEPEND SUFFIX |
| (AC) | 111. .11. | | MS3650UP | "C'W'" MAP SET SUFFIX |
| (AC) | 111. .1.1 | | DS3653 | "C'V'" 3653 - DEVICE DEPEND SUFFIX |
| (AC) | 111. .1.1 | | MS3653 | "C'V'" MAP SET SUFFIX |
| (AC) | 11.1 ..1. | | DS3780 | "C'K'" 3780 - DEVICE DEPEND SUFFIX |
| (AC) | 11.1 ..1. | | MS3780 | "C'K'" MAP SET SUFFIX |
| (AC) | 11.1 .111 | | DSINTLU | "C'P'" INT LU DEVICE DEPEND SUFFIX |
| (AC) | 11.1 .111 | | MSINTLU | "C'P'" MAP SET SUFFIX |
| (AC) | 111. 1... | | DSBCHLU | "C'Y'" BCH LU DEVICE DEPEND SUFFIX |
| (AC) | 111. 1... | | MSBCHLU | "C'Y'" MAP SET SUFFIX |

UEACD - User exit application context

CONTROL BLOCK NAME = DFHUEACD
 DESCRIPTIVE NAME = CICS TS User Exit Application Context DSECT
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 FUNCTION =
 This DSECT maps the information provided by Loader
 to the LDLD User Exits :
 XLDLOAD - Global User Exit called before a program load
 request.
 XLDELETE - Global User Exit called before a program
 delete request.
 LIFETIME =
 DFHLDDL supplies the information for this DSECT before
 the global User Exits around program load and delete
 are called.
 The information provided is valid for a single invocation
 of the exit only.
 LOCATION =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None.

User Exit Application Context Information Control Block

Table 660.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------|
| (0) | STRUCTURE | 0 | DFHUEACD | |
| (0) | CHARACTER | 64 | UEACPLNM | Platform Name |
| (40) | CHARACTER | 64 | UEACAPNM | Application Name |
| (80) | FULLWORD | 4 | UEACMAJN | Major Version Number |
| (84) | FULLWORD | 4 | UEACMINN | Minor Version Number |
| (88) | FULLWORD | 4 | UEACMICN | Micro Version Number |

UEFD - User exit file and dataset information

CONTROL BLOCK NAME = DFHUEFDS
DESCRIPTIVE NAME = CICS TS User Exit File and Dataset Information
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FUNCTION =
This DSECT maps the information provided by File Control
to the FCFS User Exits :
XFCSREQ - Global User Exit called before the File Control
request.
XFCSREQC- Global User Exit called after the File Control
request has been processed.
LIFETIME =
DFHFCFS supplies the information for this DSECT before
the global User Exits around File Open, Close, Enable
and Disable are called.
The information provided is valid for a single invocation
of the exit only.
LOCATION =
The content of parameter UEPFINFO passed from DFHFCFS
on the Exit calls, is the address of this control block.
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None.

User Exit File Information Control Block

Table 661.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--------------------------|
| (0) | STRUCTURE | 0 | DFHUEFDS | |
| (0) | CHARACTER | 8 | UEFLNAME | File Name |
| (8) | CHARACTER | 44 | UEDSNAME | Data Set Name |
| This byte contains the servreq settings for the File | | | | |
| (34) | BITSTRING | 1 | UEFSERV | Servreqs Indicator |
| (34) | ..11 .1.. | | UEFDSRI | "UEFSERV" Read Indicator |
| (34) | 1... .. | | UEFRDIM | "X'80" Read Valid |

Table 661. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (34) | ..11 .1.. | | UEFDSUPD | "UEFSERV" Read Update Indicator |
| (34) | ..1. | | UEFUPDIM | "X'20'" Update Valid |
| (34) | ..11 .1.. | | UEFDSADD | "UEFSERV" Write New Record Indicator |
| (34) | ...1 | | UEFADDIM | "X'10'" Add Valid |
| (34) | ..11 .1.. | | UEFDSDI | "UEFSERV" Deletion Validity Indicator |
| (34) | 1... | | UEFDELIM | "X'08'" Delete Valid |
| (34) | ..11 .1.. | | UEFBRWSE | "UEFSERV" Browse Validity Indicator |
| (34) |1. | | UEFBRZIM | "X'02'" Browse Valid |
| Flags indicating Automatic Journalling and Logging Options | | | | |
| (35) | BITSTRING | 1 | UEFDSJL | Journalling and Logging Indicator |
| (35) | ..11 .1.1 | | UEFDSJRO | "UEFDSJL" Journal Read Only Indicator |
| (35) | 1... | | UEFJRO | "X'80'" Journal Read Only |
| (35) | ..11 .1.1 | | UEFDSJRU | "UEFDSJL" Journal Read for Update Ind |
| (35) | .1.. | | UEFJRU | "X'40'" Journal Reads for Update |
| (35) | ..11 .1.1 | | UEFDSJWU | "UEFDSJL" Journal Write Updates Ind |
| (35) | ..1. | | UEFJWU | "X'20'" Journal Write Updates |
| (35) | ..11 .1.1 | | UEFDSJWA | "UEFDSJL" Journal Write Adds Indicator |
| (35) | ...1 | | UEFJWA | "X'10'" Journal Write Adds |
| (35) | ..11 .1.1 | | UEFDSJDS | "UEFDSJL" Dsname has been Journalled Ind |
| (35) | 1... | | UEFJDSN | "X'08'" Dsname has been Journalled |
| (35) | ..11 .1.1 | | UEFDSJSY | "UEFDSJL" Synchronous Reads Journal Ind |
| (35) |1.. | | UEFJSYN | "X'04'" Synchronous Reads Journal |
| (35) | ..11 .1.1 | | UEFDSJAS | "UEFDSJL" Asynchronous Writes Jrnl Ind |
| (35) |1. | | UEFJASY | "X'02'" Asynchronous Writes Journal |
| A further automatic Journalling Option (VSAM only) | | | | |
| (36) | BITSTRING | 1 | UEFDSVJL | VSAM Journalling Indicator |
| (36) | .1.. | | UEFJWAC | "X'40'" Write Add Complete |
| Journal to be used for Automatic Journalling | | | | |

Table 661. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--------------------------------------|
| (37) | BITSTRING | 1 | UEFDSJID | User Journal Id |
| Access Method Indicator | | | | |
| (38) | BITSTRING | 1 | UEFDSACC | Access Method |
| (38) | 1... | | UEFVSAM | "X'80" Vsam |
| (38) | .1.. | | UEFBDAM | "X'40" Bdam |
| (38) | ..1. | | UEFDTLB | "X'20" Data table |
| (38) | ...1 | | UEFDNUM | "X'10" User data table |
| (38) |1. | | UEFCFDT | "X'02" Coupling Facility Data Table |
| Recovery Attributes of Base Cluster | | | | |
| (39) | BITSTRING | 1 | UEFBCRV | Recovery Attrs of Base Cluster |
| (39) | ..1. | | UEFBCFR | "X'20" Forward Recovery |
| (39) | ...1 | | UEFBCLOG | "X'10" Logging |
| (39) | 1... | | UEFBCVAL | "X'08" Valid Flag for Recovery Attrs |
| <p>The following two fields identify the Forward Recovery Log</p> <p>The Forward Recovery Log may be specified on the CICS File definition (FCTE) or on the IDCAMS dataset definition for the associated sphere(VSAM Catalog). Where both are specified, the VSAM Catalog takes precedence and only the 26 character Logstream name from the catalog is passed to the User Exit. Where the Forward Recovery Log is only specified on the CICS File definition the 2 character log id is passed to the exit. Number of the Journal to be used for Forward Recovery (if any) This is the Forward Recovery Log Id from the FCTE if the FCTE is being used to set the FR Log. Zero will be passed in the following cases :</p> <p>(1) Forward Recovery not specified</p> <p>(2) The VSAM Catalog has been used to specify the log name</p> | | | | |
| (3A) | BITSTRING | 1 | UEFFRLOG | Forward Recovery Log Id |
| (3B) | BITSTRING | 1 | | Reserved |
| <p>Name of the Log to be used for Forward Recovery (if any)</p> <p>This is the Forward Recovery Log name from the VSAM Catalog</p> <p>Blanks will be passed in the following cases :</p> <p>(1) Forward Recovery not specified</p> <p>(2) The VSAM Catalog hasn't been used to specify the log name</p> | | | | |
| (3C) | CHARACTER | 26 | UEFFRCLG | FR Log from VSAM Catalog |
| (56) | CHARACTER | 2 | | Reserved |
| <p>Date and Time when last File against the VSAM Sphere Closed</p> <p>The date and time are in packed decimal format where s is the sign for the decimal number</p> | | | | |
| (58) | FULLWORD | 4 | UEFCDATE | Date of Last Closure(yyydddss) |
| (5C) | FULLWORD | 4 | UEFCTIME | Time of Last Closure(hhmmsssts) |
| Availability Status | | | | |
| (60) | ADDRESS | 1 | UEFBCAS | Availability State |

Table 661. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-------------------------------------|
| (60) | ..1. | | UEFBCUNA | "X'20'" Data set marked unavailable |
| (61) | CHARACTER | 3 | | Reserved |
| Address of read only copy of ACB This address is only set up when calling the XFCSREQC user exit after the completion of a successful OPEN request. This field contains zero in all other cases. Note: If UEFDTBL and UEFDUM have been set on, then the storage addressed by UEFACBCP is undefined. | | | | |
| (64) | ADDRESS | 4 | UEFACBCP | Address of copy of ACB |

UEPB - User Exit Program Block

CONTROL BLOCK NAME = DFHUEPBC

(progeny of DFHUEPBC)

DESCRIPTIVE NAME = CICS TS (UE) User Exit Program Block DSECT

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FUNCTION = Copybook for EPB DSECT.

The EPBs are used by User Exits to hold information about programs that have been enabled as User exit programs.

The EPBs are shared by the exit points that have had the program enabled, so that there is only one EPB for a program even if it has been enabled at multiple exit points.

They are chained off the UETHEPBC field in the User Exit Table Header (UETH).

For a particular exit, when the first program is enabled for the exit, an EPB is created (or reused if one already exists for another exit). The address of the first EPB for an exit point is stored in the User Exit Table Entry (UETE) for that exit point.

For every subsequent program enabled at the same exit point, an EPL will be created. This EPL chain is also chained off the UETE. The EPLs simply point to EPBs for all the programs enabled for an exit point.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

Table 662.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (0) | STRUCTURE | 112 | DFHEPB | EPB CONTROL BLOCK |
| (0) | CHARACTER | 4 | EPBSAA | STORAGE ACCOUNTING AREA |
| (4) | ADDRESS | 4 | EPBCHAIN | ADDRESS OF NEXT EPB |
| (8) | CHARACTER | 8 | EPBEPN | NAME OF EXIT PROGRAM |
| (10) | ADDRESS | 4 | EPBEPA | ADDRESS OF EXIT PROGRAM |
| (14) | ADDRESS | 4 | EPBGAA | ADDRESS OF GLOBAL AREA |

Table 662. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (18) | HALFWORD | 2 | EPBGAL | LENGTH OF GLOBAL AREA |
| (1A) | HALFWORD | 2 | EPBGCNT | GLOBAL AREA USE-COUNT |
| (1C) | FULLWORD | 4 | EPBTCNT | TIE-COUNT |
| (20) | CHARACTER | 8 | EPBTICHN_CDS | |
| (20) | ADDRESS | 4 | EPBTICHN | Anchor for unused TIEs |
| (24) | FULLWORD | 4 | EPBTICHN_CT | Security counter |
| (28) | CHARACTER | 8 | EPBCNTS_CDS | |
| (28) | FULLWORD | 4 | EPBINST | Instance count |
| (2C) | FULLWORD | 4 | EPBICNT | Invocation count & start bit Bit 0 on = started |
| (2C) | BIT(8) | 1 | * | |
| (2C) | 1... .. | | UESTART | X'80' |
| (2C) | .111 1111 | | * | reserved |
| (2D) | UNSIGNED | 3 | * | reserved |
| (30) | HALFWORD | 2 | EPBACNT | ACTIVATION COUNT |
| (32) | HALFWORD | 2 | EPBTAL | LENGTH OF TASK AREA |
| (34) | BIT(8) | 1 | EPBFLAGS | FLAG-BYTE |
| (34) | 1... .. | | UENODEL | X'80' prog loaded by user - do not delete when disabling |
| (34) | .1.. .. | | * | X'40' reserved |
| (34) | ..1. | | UEDISABL | X'20' entryname is disabled |
| (34) | ...1 | | UERESYNC | X'10' exec resync issued |
| (34) | 1... | | UELINKAM | X'08' linkeditmode specified |
| (34) |1.. | | UEIDWAIT | X'04' indoubtwait specified |
| (34) |1. | | UEPURGE | X'02' purgeable specified |
| (34) |1 | | * | reserved |
| (35) | CHARACTER | 3 | * | Reserved |
| (38) | FULLWORD | 4 | EPBBIND | INTEREST PROFILE |
| (3C) | CHARACTER | 8 | EPBEMN | LOAD-MODULE NAME |
| (44) | CHARACTER | 8 | EPBQUAL | Qualifier to TRUE's name |
| (4C) | CHARACTER | 8 | EPBTSPTK | TIE STORAGE SUBPOOL TOKEN |
| (54) | ADDRESS | 4 | EPBTIEA | Addr of TIE resvd for shutdwn |
| (58) | ADDRESS | 4 | EPBPGTKN | Program Token |
| (5C) | CHARACTER | 8 | EPBENTIM | Time EPB built |
| (64) | CHARACTER | 2 | EPBTPGMM | TRUE's program_mode |
| (66) | CHARACTER | 2 | EPBPGMM | GLUE's program_mode |

Table 662. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (68) | UNSIGNED | 4 | EPBTPGMT | TRUE's program_modetoken |
| (6C) | FULLWORD | 4 | EPBPUCNT | Exit program use count |
| (70) | CHARACTER | 0 | EPBEND | End |

Constants

Table 663.

| Len | Type | Value | Name | Description |
|---------------------------------|---------|-------|--------|-------------|
| Length of the EPB control block | | | | |
| 2 | DECIMAL | 112 | EPBLEN | EPB length |

UEPL - User Exit Program Link

CONTROL BLOCK NAME = DFHUEPLC

(progeny of DFHUEPLC)

DESCRIPTIVE NAME = CICS TS (UE) User Exit Program Link DSECT

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FUNCTION = Copybook for EPL DSECT.

The EPLs are used by User Exits to link User Exit Blocks (EPBs) together. There is one EPB per enabled program, and the EPBs are shared by the exit points that have had the program enabled.

For a particular exit, when the first program is enabled for the exit, an EPB is created (or reused if one already exists for another exit). The address of the first EPB is stored in the User Exit Table Entry (UETE) for that exit point.

For every subsequent program enabled at the same exit point, an EPL will be created. This EPL chain is also chained off the UETE. The EPLs simply link to EPBs for all the programs enabled for an exit point.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

Table 664.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (0) | STRUCTURE | 24 | DFHEPL | EXIT PROGRAM LINK |
| (0) | CHARACTER | 4 | EPLSAA | STORAGE ACCOUNTING AREA |
| (4) | ADDRESS | 4 | EPLNEPL | ADDRESS OF NEXT EPL |
| (8) | CHARACTER | 8 | EPLNTIM | TIME EPL BUILT |
| (10) | ADDRESS | 4 | EPLEPBA | ADDRESS OF EPB |
| (14) | FULLWORD | 4 | EPLINST | INSTANCE NUMBER |
| (18) | CHARACTER | 0 | EPLEND | END |

UEPAR - Task related user exit plist

```

CONTROL BLOCK NAME = DFHUERMD
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS USER EXIT MACRO CALL, TYPE=RM
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    (C) Copyright IBM Corp. 1992
FUNCTION =
    Exercise the DFHUEXIT TYPE=RM option.
    This is part of the CICS User Exits support
    The DFHUEXIT TYPE=RM gives the programmer access to the
    parameter list for a task related user exit (TRUE).
    An instance of the control block represents one task
    related user exit.
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS = This copybook calls DFHUEXIT TYPE=RM
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES = Not applicable
DATA AREAS = This copybook generates an entry in Data Areas
    Manual for DFHUEXIT TYPE=RM.
CONTROL BLOCKS = Not applicable
GLOBAL VARIABLES (Macro pass) = Not applicable
-----

```

Table 665.

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHUEPAR | |
| (0) | ADDRESS | 4 | UEPEXN | ADDRESS OF EXIT NUMBER |
| (4) | ADDRESS | 4 | UEPGAA | ADDRESS OF GLOBAL AREA (ZERO=NO WORK AREA) |
| (8) | ADDRESS | 4 | UEPGAL | ADDRESS OF GLOBAL AREA LENGTH |
| (C) | ADDRESS | 4 | UEPCRCA | ADDRESS OF CURRENT RETURN-CODE |
| (10) | ADDRESS | 4 | UEPTCA | (reserved) |
| (14) | ADDRESS | 4 | UEPCSA | (reserved) |
| (18) | ADDRESS | 4 | UEPEPSA | ADDRESS OF REGISTER SAVE AREA FOR USE BY EXIT PROGRAM |
| (1C) | ADDRESS | 4 | UEPHMSA | ADDRESS OF SAVE AREA USED FOR HOST MODULE'S REGISTERS |
| END OF RETURN CODE EQUATES | | | | |
| (1C) | 1... | | UERTPREP | "X'80'" PREPARE |
| (1C) | .1.. | | UERTCOMM | "X'40'" COMMIT UNCONDITIONALLY |
| (1C) | ..1. | | UERTBACK | "X'20'" BACKOUT |

Table 665. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (1C) | ...1 | | UERTDGCS | "X'10" LOST TO CICS INITIAL START |
| (1C) | 1... | | UERTDGNK | "X'08" RM SHOULD NOT BE IN-DOUBT |
| (1C) |1.. | | UERTWAIT | "X'04" RM WILL HAVE TO WAIT FOR OUTCOME |
| (1C) |1. | | UERTRSYN | "X'02" RESYNC |
| (1C) |1 | | UERTLAST | "X'01" LAST COMMIT/ABORT IN THREAD |
| (1C) | 1... | | UERTONLY | "X'80" RM IS ONLY UPDATER - TRUE CAN PERFORM SINGLE PHASE COMMIT |
| (1C) | .1.. | | UERTELUW | "X'40" RM IS READ ONLY - TRUE CAN INVOKE RM WITH END LUW CALL. |
| (1C) |1.. | | UERFPREP | "4" VOTE-YES |
| (1C) | 1... | | UERFBACK | "8" VOTE-NO |
| (1C) | 11.. | | UERFNLOG | "12" VOTE-YES-BUT-DO- NOT-LOG |
| (1C) |1.. | | UERFDONE | "4" COMMIT/ABORT COMPLETE |
| (1C) | 1... | | UERFHOLD | "8" REMEMBER COMMIT/ABORT |
| (1C) |1.. | | UERFOK | "4" SINGLE PHASE (UERTONLY): COMMITTED OK |
| (1C) | 1... | | UERFBOUT | "8" SINGLE PHASE (UERTONLY): BACKED OUT |
| (1C) | 1... | | UERTEOTR | "X'80" END OF THREAD |
| (1C) | .1.. | | UERTSOTR | "X'40" START OF TASK |
| (1C) | 1... ..1. | | UERTRTTR | "X'82" no longer used |
| (1C) | .1.. ..1. | | UERTRTST | "X'42" no longer used |
| (1C) |1.. | | UERFEOTR | "4" CALL UNDERSTOOD |
| (1C) | 1... | | UERTCONN | "X'80" EXTERNAL RESOURCE MANAGER IS |
| (1C) | .1.. | | UERTNCON | "X'40" EXTERNAL RESOURCE MANAGER IS NOT |
| (1C) | 1... | | UERTCORD | "X'80" CICS Orderly Termination |
| (1C) | .1.. | | UERTCIMM | "X'40" CICS Immediate Termination |

Table 665. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (1C) | ..1. | | UERTCABY | "X'20'" CICS ABEND (Retry possible - TCBs Dispatchable) |
| (1C) | ...1 | | UERTCABN | "X'10'" CICS ABEND (Retry NOT possible - TCBs Dispatchable) |
| (1C) |1 | | UERTOPCA | "X'01'" Operator Cancel (Retry NOT possible - TCBs NOT dispatchable) |
| (20) | ADDRESS | 4 | UEPURID | ADDRESS OF LUW-ID |
| (24) | ADDRESS | 4 | UEPTAA | ADDRESS OF TASK AREA |
| (28) | ADDRESS | 4 | UEPTAL | ADDRESS OF TASK AREA LENGTH |
| (2C) | ADDRESS | 4 | UEPEIB | ADDRESS OF CURRENT EIB |
| (30) | ADDRESS | 4 | UEPFLAGS | ADDRESS OF FLAGWORD |
| (34) | ADDRESS | 4 | UEPRMSTK | ADDRESS OF KERNEL STACK ENTRY |
| (38) | ADDRESS | 4 | UEPUOWDS | ADDRESS OF LU6.2 UNIT OF WORK ID |
| (3C) | ADDRESS | 4 | UEPSECFLG | ADDRESS OF USER SECURITY BLOCK FLAG |
| (3C) | 1... | | UEPNOSEC | "X'80'" SECURITY INACTIVE FOR THIS SYSTEM |
| (3C) | ..1. | | UEPSEC | "X'20'" SECURITY ACTIVE FOR THIS SYSTEM |
| (40) | ADDRESS | 4 | UEPSECBLK | ADDRESS OF ADDRESS OF USER SECURITY BLOCK |
| (44) | ADDRESS | 4 | UEPRMQUA | ADDRESS OF RM QUALIFIER |
| (48) | FULLWORD | 4 | UEPCALAM | ADDRESS OF CALLER AMODE INDICATION BYTE |
| (48) | 1... | | UEPCAM31 | "X'80'" INDICATES ORIGINAL CALLER WAS AMODE 31 |
| (4C) | ADDRESS | 4 | UEPSYNCA | ADDRESS OF PARMS PASSED TO SYNC PT. |
| (4C) | 1... | | UEPSUPDR | "X'80'" RM UNDERSTANDS SINGLE UPDATER PROTOCOL |
| (4C) | ..1. | | UEPREADO | "X'40'" RM IS READ ONLY FOR THIS LUW |
| (50) | ADDRESS | 4 | UEPTIND | ADDRESS OF CALLER'S TASK INDICATORS |
| (50) | 1... | | UEPTANY | "X'80'" DATA LOCATION ANY |

Table 665. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--------------------------------------|
| (50) | .1.. | | UEPTCICS | "X'40'" TASKDATAKEY = CICS |
| The following indicator is set after a failure to switch to the TCB expected by the TRUE. This is used only when the caller is Sync-Point or End_of_Task. All other callers are Abended. | | | | |
| (50) | .1.. | | UEPTUTCB | "X'20'" UNEXPECTED TCB |
| (50) | CHARACTER | 0 | UEPTQR | "C'QR', 2" QUASI-REENTRANT (QR) TCB |
| (50) | CHARACTER | 0 | UEPTCO | "C'CO', 2" CONCURRENT (CO) TCB |
| (50) | CHARACTER | 0 | UEPTRO | "C'RO', 2" RESOURCE_OWNING (RO) TCB |
| (50) | CHARACTER | 0 | UEPTFO | "C'FO', 2" FILE_OWNING (FO) TCB |
| (50) | CHARACTER | 0 | UEPTSZ | "C'SZ', 2" FEPI (SZ) TCB |
| (50) | CHARACTER | 0 | UEPTRP | "C'RP', 2" RP MODE TCB |
| (50) | CHARACTER | 0 | UEPTL8 | "C'L8', 2" AN OPEN TCB, CICS KEY |
| (50) | CHARACTER | 0 | UEPTL9 | "C'L9', 2" AN OPEN TCB, USER KEY |
| (50) | CHARACTER | 0 | UEPTSO | "C'SO', 2" SOCKETS TCB |
| (50) | CHARACTER | 0 | UEPTSL | "C'SL', 2" SOCKETS LISTENER TCB |
| (50) | CHARACTER | 0 | UEPTSP | "C'SP', 2" SSL PTHREAD OWNING TCB |
| (50) | CHARACTER | 0 | UEPTS8 | "C'S8', 2" SSL TCB |
| (50) | CHARACTER | 0 | UEPTTP | "C'TP', 2" THREAD OWNING TCB |
| (50) | CHARACTER | 0 | UEPTT8 | "C'T8', 2" THREAD TCB, CICS KEY |
| (50) | CHARACTER | 0 | UEPTJ8 | "C'J8', 2" A JAVA TCB |
| (50) | CHARACTER | 0 | UEPTJ9 | "C'J9', 2" A JAVA TCB, USER KEY |
| (50) | CHARACTER | 0 | UEPTJM | "C'JM', 2" A MASTER JVM TCB |
| (50) | CHARACTER | 0 | UEPTD2 | "C'D2', 2" CICS-DB2 HOUSEKEEPING TCB |
| (50) | CHARACTER | 0 | UEPTEP | "C'EP', 2" EVENT PROCESSING TCB |
| (50) | CHARACTER | 0 | UEPTJS | "C'JS', 2" JOBSTEP TCB |
| (54) | ADDRESS | 4 | UEPPBTOK | ADDRESS OF CALLER'S PB TOKEN |
| (58) | ADDRESS | 4 | UEPTRCE | Address of trace flag byte |

Table 665. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|--------------|--|
| (58) | 1... | | UEPTRLV1 | "X'80" RMI Level 1 trace active |
| (58) | .1.. | | UEPTRLV2 | "X'40" RMI Level 2 trace active |
| (5C) | FULLWORD | 4 | UEPRMEND (0) | END of TYPE=RM Plist |
| (5C) | .1.1 11.. | | UEPRMLEN | "UEPRMEND-UEPEXN" Length of TYPE=RM Plist |
| THE FOLLOWING EQU DEFINITIONS RELATE TO THE OBJECT THAT IS ADDRESSED BY UEPFLAGS, NOT TO UEPFLAGS ITSELF. | | | | |
| (5C) | .... .... |  | UEF0OFFS | "0" FIRST BYTE ... |
| FIRST BYTE IS RESERVED FOR CICS/VS 1.5 COMPATIBILITY | | | | |
| (5C) |1 | | UEF1OFFS | "1" SECOND BYTE |
| (5C) |1. | | UEF2OFFS | "2" THIRD BYTE |
| (5C) |1. | | UEFDTASK | "UEF2OFFS" BYTE-DISPL = 2 |
| (5C) |111 | | UEFPTASK | "7" BIT-POSITN = 7 |
| (5C) |1 | | UEFMTASK | "X'01" BIT-MASK |
| (5C) |1. | | UEFDCTER | "UEF2OFFS" BYTE-DISPL = 2 |
| (5C) |1.1 | | UEFPCTER | "5" BIT-POSITION = 5 |
| (5C) |1.. | | UEFMCTER | "X'04" BIT-MASK |
| (5C) |1. | | UEFDFEDF | "UEF2OFFS" BYTE-DISPL = 2 |
| (5C) |11 | | UEFPFEDF | "3" BIT-POSITION = 3 |
| (5C) | ...1 | | UEFMFEDF | "X'10" BIT-MASK |
| (5C) |1. | | UEFDSWAE | "UEF2OFFS" BYTE-DISPL = 2 |
| (5C) |1. | | UEFPSWAE | "2" BIT-POSITION = 2 |
| (5C) | ..1. | | UEFMSWAE | "X'20" BIT-MASK |
| (5C) |1. | | UEFDCON | "UEF2OFFS" BYTE-DISPL = 2 |
| (5C) |1 | | UEFPCON | "1" BIT-POSITION = 1 |
| (5C) | .1.. | | UEFMCON | "X'40" BIT-MASK |
| (5C) |11 | | UEF3OFFS | "3" FOURTH BYTE |
| (5C) |11 | | UEFDSPI | "UEF3OFFS" BYTE-DISPL = 3 |
| (5C) |11. | | UEFPSPI | "6" BIT-POSITN = 6 |
| (5C) |1. | | UEFMSPi | "X'02" BIT-MASK |
| (5C) |11 | | UEFDAPPL | "UEF3OFFS" BYTE-DISPL = 3 |
| (5C) |1.1 | | UEFPAPPL | "5" BIT-POSITN = 5 |
| (5C) |1.. | | UEFMAPPL | "X'04" BIT-MASK |
| (5C) |11 | | UEFDSYNC | "UEF3OFFS" BYTE-DISPL = 3 |

Table 665. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------|
| (5C) |11 | | UEFPSYNC | "3" BIT-POSITN = 3 |
| (5C) | ...1 | | UEFMSYNC | "X'10'" BIT-MASK |

DUMMY SECTION FOR ROUTING FLAGS

Table 666.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 0 | DFHUEFLG | |
| (0) | BITSTRING | 4 | | |

DUMMY SECTION FOR ROUTING ARGUMENT

Table 667.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (0) | STRUCTURE | 0 | DFHUERTR | |
| (0) | BITSTRING | 1 | UERTFGP | FUNCTION GROUP |
| (1) | BITSTRING | 1 | UERTFID | ORIGIN-IDENTIFIER |
| (1) |1. | | UERTAPPL | "31-(UEFDAPPL*8+UEFPAPPL)" FROM API |
| (1) |1. | | UERTFAPI | "UERTAPPL" FROM API |
| (1) |1. | | UERTAPI | "UERTAPPL" FROM API |
| (1) |1 | | UERTSPI | "31-(UEFDSPI*8+UEFPSPI)" FROM SPI |
| (1) |1.. | | UERTSYNC | "31-(UEFDSYNC*8+UEFPSYNC)" FROM SP-MGR |
| (1) | 1... | | UERTTASK | "31-(UEFDTASK*8+UEFPTASK)" FROM TASK-MGR |
| (1) | 1.1. | | UERTCTER | "31-(UEFDCTER*8+UEFPCTER)" FROM CICS-TERMINATION |
| (1) | 11.. | | UERTFEDF | "31-(UEFDFEDF*8+UEFPFEDF)" FROM CEDF |
| (1) | 111. | | UERTFCON | "31-(UEFDCON*8+UEFPCON)" FROM context mgt (START) |
| (1) | 11.1 | | UERTSWAE | "31-(UEFDSWAE*8+UEFPWAE)" FROM Switch appl env |
| (1) | ..1. | | UERTMSY | "32" FROM RMSY (NOT FOR RM) |
| (2) | BITSTRING | 1 | UERTOPT2 | EIDOPT2.COPY |
| (3) | BITSTRING | 1 | | RESERVED |
| (4) | ADDRESS | 4 | UERTREND (0) | END OF RECURSIVE SECTION |

Table 667. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (4) |1.. | | UERTLEN | "UERTREND-UERTFGP" Length of recursive section |

DUMMY SECTION FOR workload manager call

Table 668.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|-------------------------|--|
| (0) | STRUCTURE | 0 | DFHUECON | / |
| (0) | ADDRESS | 4 | UECON_EXEC_PLIST_PTR | Address of EXEC CICS START parameter list described by copy book DFHICUED |
| (4) | ADDRESS | 4 | UECON_CORRELATOR_PTR | Address of 512 byte area in which an |
| ARM correlator can be placed | | | | |
| (8) | ADDRESS | 4 | UECON_ICRX_PTR | Address of ICRX in task storage |
| (C) | FULLWORD | 4 | UECON_ICRX_LEN | Length of ICRX in task storage |
| (10) | ADDRESS | 4 | UECON_ADAPTER_ID_PTR | Address of a 64 byte area into which |
| an adapter identifier can be placed | | | | |
| (14) | ADDRESS | 4 | UECON_ADAPTER_DATA1_PTR | Address of a 64 byte area into |
| which adapter data can be placed | | | | |
| (18) | ADDRESS | 4 | UECON_ADAPTER_DATA2_PTR | Address of a 64 byte area into |
| which adapter data can be placed | | | | |
| (1C) | ADDRESS | 4 | UECON_ADAPTER_DATA3_PTR | Address of a 64 byte area into |
| which adapter data can be placed | | | | |
| (20) | ADDRESS | 4 | UECON_FLAGS | Address of a 1-byte flag |
| (20) | 1... | | UECON_ADAPTER_DATA_ON | "X'80'" Adapter data may be set |
| EXITID EQU-LIST - Global User Exit Number | | | | |
| (20) |1 | | XTCIN | "1" |
| (20) |1. | | XTCOUT | "2" |
| (20) |11 | | XTCATT | "3" |
| (20) |1.. | | XTCTIN | "4" |
| (20) |1.1 | | XTCTOUT | "5" |
| (20) |11. | | XDSBWT | "6" |
| (20) |111 | | XDSAWT | "7" |
| (20) | 1... | | XLGSTRM | "8" |
| (20) | 1..1 | | XDUREQ | "9" |
| (20) | 1.1. | | XDUCLSE | "10" |

Table 668. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (20) | 1.11 | | XDUOUT | "11" |
| (20) | 11.. | | XMEOUT | "12" |
| (20) | 11.1 | | XFCREQ | "13" |
| (20) | 111. | | XFCREQC | "14" |
| (20) | 1111 | | XTSPTOUT | "15" |
| (20) | ...1 | | XGMTEXT | "16" |
| (20) | ...1 ...1 | | XMNOUT | "17" |
| (20) | ...1 ..1. | | XRCINIT | "18" |
| (20) | ...1 ..11 | | XRCINPT | "19" |
| (20) | ...1 .1.. | | XICREQ | "20" |
| (20) | ...1 .1.1 | | XICEXP | "21" |
| (20) | ...1 .11. | | XISLCLQ | "22" |
| (20) | ...1 .111 | | XPCFTCH | "23" |
| (20) | ...1 1... | | XPCHAIR | "24" |
| (20) | ...1 1..1 | | XPCTA | "25" |
| (20) | ...1 1.1. | | XPCABND | "26" |
| (20) | ...1 1.11 | | XPCREQ | "27" |
| (20) | ...1 11.. | | XPCREQC | "28" |
| (20) | ...1 11.1 | | XTDREQ | "29" |
| (20) | ...1 111. | | XTDIN | "30" |
| (20) | ...1 1111 | | XTDOUT | "31" |
| (20) | ..1. | | XTSQRIN | "32" |
| (20) | ..1. ...1 | | XTSQROUT | "33" |
| (20) | ..1. ..1. | | XTSPTIN | "34" |
| (20) | ..1. ..11 | | XZCIN | "35" |
| (20) | ..1. .1.. | | XZCOUT | "36" |
| (20) | ..1. .1.1 | | XZCATT | "37" |
| (20) | ..1. .11. | | XZCOUT1 | "38" |
| (20) | ..1. .111 | | XXRSTAT | "39" |
| (20) | ..1. 1... | | XXDFA | "40" |
| (20) | ..1. 1..1 | | XXDFB | "41" |
| (20) | ..1. 1.1. | | XXDTO | "42" |
| (20) | ..1. 1.11 | | XSTOUT | "43" |
| (20) | ..1. 11.. | | XDLIPRE | "44" |
| (20) | ..1. 11.1 | | XDLIPOST | "45" |
| (20) | ..1. 111. | | XFCSREQ | "46" |
| (20) | ..1. 1111 | | XEIIN | "47" |
| (20) | ..11 | | XEIOUT | "48" |
| (20) | ..11 ...1 | | XALTENF | "49" |
| (20) | ..11 ..1. | | XICTENF | "50" |

Table 668. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (20) | ..11 ..11 | | XDTAD | "51" |
| (20) | ..11 .1.. | | XDTRD | "52" |
| (20) | ..11 .1.1 | | XDTLC | "53" |
| (20) | ..11 .11. | | XSTERM | "54" |
| (20) | ..11 .111 | | XSRAB | "55" |
| (20) | ..11 1... | | XFCSREQC | "56" |
| (20) | ..11 1..1 | | XSZBRQ | "57" |
| (20) | ..11 1.1. | | XSZARQ | "58" |
| (20) | ..11 1.11 | | XISCONA | "59" |
| (20) | ..11 11.. | | XRSINDI | "60" |
| (20) | ..11 11.1 | | XXMATT | "61" |
| (20) | ..11 111. | | XZIQUE | "62" |
| (20) | ..11 1111 | | XTSREQ | "63" |
| (20) | .1.. | | XTSREQC | "64" |
| (20) | .1.. ...1 | | XTDEREQ | "65" |
| (20) | .1.. ..1. | | XTDEREQC | "66" |
| (20) | .1.. ..11 | | XICEREQ | "67" |
| (20) | .1.. .1.. | | XICEREQC | "68" |
| (20) | .1.. .1.1 | | XALCAID | "69" |
| (20) | .1.. .11. | | XSNON | "70" |
| (20) | .1.. .111 | | XSNOFF | "71" |
| (20) | .1.. 1... | | XRMIIN | "72" |
| (20) | .1.. 1..1 | | XRMIOUT | "73" |
| (20) | .1.. 1.1. | | XAKUSER | "74" |
| (20) | .1.. 1.11 | | XFCNREC | "75" |
| (20) | .1.. 11.. | | XFCBFAIL | "76" |
| (20) | .1.. 11.1 | | XFCLDEL | "77" |
| (20) | .1.. 111. | | XFCBOVER | "78" |
| (20) | .1.. 1111 | | XFCBOUT | "79" |
| (20) | .1.1 | | XFCVSDS | "80" |
| (20) | .1.1 ...1 | | XFCQUIS | "81" |
| (20) | .1.1 ..1. | | XDUREQC | "82" |
| (20) | .1.1 ..11 | | XFCAREQ | "83" |
| (20) | .1.1 .1.. | | XFCAREQC | "84" |
| (20) | .1.1 .1.1 | | XEISPIN | "85" |
| (20) | .1.1 .11. | | XEISPOUT | "86" |
| (20) | .1.1 .111 | | XNQEREQ | "87" |
| (20) | .1.1 1... | | XNQEREQC | "88" |
| (20) | .1.1 1..1 | | XFAINTU | "89" |
| (20) | .1.1 1.1. | | XBMIN | "90" |

Table 668. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (20) | .1.1 1.11 | | XBMOUT | "91" |
| (20) | .1.1 11.. | | XBADEACT | "92" |
| (20) | .1.1 11.1 | | XLDLOAD | "93" |
| (20) | .1.1 111. | | XLDELETE | "94" |
| (20) | .1.1 1111 | | XSSEX | "95" |
| (20) | .11. | | XFCFRIN | "96" |
| (20) | .11. ...1 | | XFCFROUT | "97" |
| (20) | .11. ..1. | | XICERES | "98" |
| (20) | .11. ..11 | | XPCERES | "99" |
| (20) | .11. .1.. | | XWBOPEN | "100" |
| (20) | .11. .1.1 | | XWBSNDO | "101" |
| (20) | .11. .11. | | XWBAUTH | "102" |
| (20) | .11. .111 | | XAPADMGR | "103" |
| (20) | .11. 1... | | XISQUE | "104" |
| (20) | .11. 1..1 | | XWSPRROO | "105" |
| (20) | .11. 1.1. | | XWSPRRWI | "106" |
| (20) | .11. 1.11 | | XWSPRROI | "107" |
| (20) | .11. 11.. | | XWSPRRWO | "108" |
| (20) | .11. 11.1 | | XWSRQRWO | "109" |
| (20) | .11. 111. | | XWSRQROO | "110" |
| (20) | .11. 1111 | | XWSRQROI | "111" |
| (20) | .111 | | XWSRQRWI | "112" |
| (20) | .111 ...1 | | XWSSRRWO | "113" |
| (20) | .111 ..1. | | XWSSRROO | "114" |
| (20) | .111 ..11 | | XWSSRROI | "115" |
| (20) | .111 .1.. | | XWSSRRWI | "116" |
| (20) | .111 .1.1 | | XISQLCL | "117" |
| (20) | .111 .11. | | XFCRLSCO | "118" |
| (20) | .111 .111 | | XEPCAP | "119" |

UETE - User Exit Table Entry

CONTROL BLOCK NAME = DFHUETEC

(progeny of DFHUETEC)

DESCRIPTIVE NAME = CICS TS (UE) User Exit Table Entry DSECT

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FUNCTION = Copybook for UETE DSECT.

The UETE contains information specific to a particular exit point. There is one entry per exit point in CICS and all the entries are GETMAINED and initialised by DFHSIC1 during CICS Initialisation.

When a program is enabled at an exit point, a pointer to the

EPB for the program is set in the UETE.
 For the first program enabled at the exit point, the EPB address is stored directly in the UETEEPBA field.
 Subsequent programs enabled at the same exit point, will get an EPL created for them. (The EPL points to an EPB). The EPL chain is chained off the UETENEPL field.
 When a CICS Exit is invoked, the UETE associated with the exit point is checked. If the UETEEPBA field is non zero, then control is passed to the program defined in the first EPB. On return from this program, the UETENEPL is chained down, and every program pointed to via the EPL is passed control (in the order the exits were enabled).

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

Table 669.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 40 | DFHUETE | |
| (0) | UNSIGNED | 1 | UETEEXN | EXIT NUMBER |
| (1) | CHARACTER | 1 | * | RESERVED |
| (2) | HALFWORD | 2 | UETEDRC | DEFAULT RETURN-CODE |
| (4) | HALFWORD | 2 | UETEMRC | MAXIMUM RETURN-CODE |
| (6) | UNSIGNED | 2 | UETEFLGS | FLAG BYTES |
| (6) | UNSIGNED | 1 | UETEFLG1 | FLAG1 |
| (7) | BIT(8) | 1 | UETEFLG2 | FLAG2 |
| (7) | 1... | | UETEXCAP | Exit is EXEC capable |
| (7) | .1.. | | UETERCSV | May be called recursively |
| (7) | ..11 1111 | | * | Reserved |
| (8) | ADDRESS | 4 | UETEFEP | First EPL |
| (C) | FULLWORD | 4 | UETECHNG | Change CTR for EPL chains |
| (10) | CHARACTER | 24 | UETEPL | EPL (EPLEND-DFHEPL) |
| (28) | CHARACTER | 0 | UETEEND | |

Constants

Table 670.

| Len | Type | Value | Name | Description |
|-----------------------------|---------|-------|---------|--------------------------------|
| Possible values of UETEFLG1 | | | | |
| 1 | DECIMAL | 0 | UETEAP | EXIT IN AP DOMAIN |
| 1 | DECIMAL | 255 | UETEALL | EXIT IN ALL DOMAINS (POSSIBLY) |

UETH - User Exit Table Header

CONTROL BLOCK NAME = DFHUETHC

(progeny of DFHUETHC)

DESCRIPTIVE NAME = CICS TS (UE) User Exit Table Header DSECT

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FUNCTION = Copybook for UETH DSECT.
The UETH contains global information used by User Exits.
The User Exit table consists of a header section, followed
by a list of Table Entries (UETEs). There is one UETE per
exit point in CICS.
The User Exit Table is created in DFHSIC1 during CICS
Initialisation.
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

Table 671.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------------|-----------------------------------|
| (0) | STRUCTURE | 176 | DFHUETH | |
| (0) | UNSIGNED | 4 | UETHWA (4294967328:341913600) | USER EXIT HANDLER'S WORK AREA |
| (80) | ADDRESS | 4 | UETHEPBC | ANCHOR FOR EPB CHAIN |
| (84) | ADDRESS | 4 | UETHLEA | ADDRESS OF LAST UET ENTRY |
| (88) | HALFWORD | 2 | UETHLEN | LENGTH OF UET |
| (8A) | HALFWORD | 2 | UETHTSCT | no. exits interested in TASKSTART |
| (8C) | UNSIGNED | 4 | UETHFLAG | Reserved |
| (90) | CHARACTER | 8 | UETHTRUB | TRUE subpool token below |
| (98) | ADDRESS | 4 | UETHEPBL | Lock_Token for EPBCHAIN lock |
| (9C) | CHARACTER | 4 | * | Reserved |
| (A0) | CHARACTER | 8 | UETHEPBT | EPB subpool token above the line |
| (A8) | ADDRESS | 4 | UETHFEPL | Chain of free EPL's |
| (AC) | ADDRESS | 4 | UETHFEPB | Chain of free EPB's |
| (B0) | CHARACTER | 0 | UETHEND | |

UEPAR - Global user exit plist

Table 672.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHUEPAR | |
| (0) | ADDRESS | 4 | UEPEXN | ADDRESS OF EXIT NUMBER |
| (4) | ADDRESS | 4 | UEPGAA | ADDRESS OF GLOBAL AREA (ZERO=NO WORK AREA) |
| (8) | ADDRESS | 4 | UEPGAL | ADDRESS OF GLOBAL AREA LENGTH |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (C) | ADDRESS | 4 | UEPCRCA | ADDRESS OF CURRENT RETURN-CODE |
| (10) | ADDRESS | 4 | UEPTCA | (reserved) |
| (14) | ADDRESS | 4 | UEPCSA | (reserved) |
| (18) | ADDRESS | 4 | UEPEPSA | ADDRESS OF REGISTER SAVE AREA FOR USE BY EXIT PROGRAM |
| (1C) | ADDRESS | 4 | UEPHMSA | ADDRESS OF SAVE AREA USED FOR HOST MODULE'S REGISTERS |
| (20) | ADDRESS | 4 | UEPGIND | ADDRESS OF CALLER'S TASK INDICATORS |
| (20) | 1... | | UEPGANY | "X'80" DATA LOCATION ANY |
| (20) | .1.. | | UEPGCICS | "X'40" TASKDATAKEY = CICS |
| (20) | CHARACTER | 0 | UEPTQR | "C'QR', 2" QUASI-REENTRANT (QR) TCB |
| (20) | CHARACTER | 0 | UEPTCO | "C'CO', 2" CONCURRENT (CO) TCB |
| (20) | CHARACTER | 0 | UEPTRO | "C'RO', 2" RESOURCE_OWNING (RO) TCB |
| (20) | CHARACTER | 0 | UEPTFO | "C'FO', 2" FILE_OWNING (FO) TCB |
| (20) | CHARACTER | 0 | UEPTSZ | "C'SZ', 2" FEPI (SZ) TCB |
| (20) | CHARACTER | 0 | UEPTRP | "C'RP', 2" RP MODE TCB |
| (20) | CHARACTER | 0 | UEPTL8 | "C'L8', 2" AN OPEN TCB, CICS KEY |
| (20) | CHARACTER | 0 | UEPTL9 | "C'L9', 2" An OPEN TCB, USER KEY |
| (20) | CHARACTER | 0 | UEPTSO | "C'SO', 2" SOCKETS TCB |
| (20) | CHARACTER | 0 | UEPTSL | "C'SL', 2" SOCKETS LISTENER TCB |
| (20) | CHARACTER | 0 | UEPTSP | "C'SP', 2" SSL PTHREAD OWNING TCB |
| (20) | CHARACTER | 0 | UEPTS8 | "C'S8', 2" SSL TCB |
| (20) | CHARACTER | 0 | UEPTTP | "C'TP', 2" THREAD OWNING TCB |
| (20) | CHARACTER | 0 | UEPTT8 | "C'T8', 2" THREAD TCB, CICS KEY |
| (20) | CHARACTER | 0 | UEPTX8 | "C'X8', 2" XPLINK TCB, CICS KEY |
| (20) | CHARACTER | 0 | UEPTX9 | "C'X9', 2" XPLINK TCB, USER KEY |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--|
| (20) | CHARACTER | 0 | UEPTD2 | "C'D2', 2" CICS-DB2 HOUSEKEEPING TCB |
| (20) | CHARACTER | 0 | UEPTEP | "C'EP', 2" EVENT PROCESSING TCB |
| (20) | CHARACTER | 0 | UEPTJS | "C'JS', 2" JOBSTEP TCB |
| (24) | ADDRESS | 4 | UEPSTACK | ADDRESS OF KERNEL STACK ENTRY |
| (28) | ADDRESS | 4 | UEPXSTOR | ADDRESS OF STORAGE FOR XPI PARAMETERS |
| (2C) | ADDRESS | 4 | UEPTRACE | ADDRESS OF TRACE FLAG |
| (2C) | 1... | | UEPTRON | "X'80'" TRACE FLAG ON |
| (2C) | .... .... |  | UERCNORM | "X'00'" CONTINUE NORMAL PROCESSING |
| (30) | HALFWORD | 2 | UEPPARMS (0) | START OF PARAMETERS UNIQUE TO EACH EXIT ID |
| <p>XFCNREC PARAMETERS</p> <p>Exit specific parameters are:</p> <p>UEFILE - Address of 8 byte field containing the file name</p> <p>UEDSETN - Address pointing to a 44 character DSNAME</p> <p>UEPFRCV - Address of file status flag byte</p> <p>UEPFAIL - ADDRESS OF THE FAILURE REASON CODE</p> <p>Valid values for UEPFRCV are:</p> <p>UEPFLOG EQU X'01' file log attribute</p> <p>VALID VALUES FOR UEPFAIL ARE:</p> <p>UEPATTF EQU X'01' ATTRIBUTE MISMATCH</p> <p>UEPBWOF EQU X'02' BWO MISMATCH</p> <p>Valid return codes for XFCNREC are:</p> <p>UERCNORM EQU X'00' normal(default) - reject mismatch</p> <p>- open will fail as normal</p> <p>UERCBYP EQU X'04' bypass request - accept mismatch</p> <p>- open will continue.</p> <p>Message DFHFC0998 will be issued.</p> | | | | |
| (30) | ADDRESS | 4 | UEFILE | address of 8 character filename |
| (34) | ADDRESS | 4 | UEDSETN | address of 44 character DSNAME |
| (38) | ADDRESS | 4 | UEPFRCV | address of file status flag byte |
| valid values for UEPFRCV are: | | | | |
| (38) |1 | | UEPFLOG | "X'01'" file log attribute |
| (3C) | ADDRESS | 4 | UEPFAIL | ADDRESS OF THE FAILURE REASON CODE |
| VALID VALUES FOR UEPFAIL ARE: | | | | |
| (3C) |1 | | UEPATTF | "X'01'" FILE LOG ATTRIBUTE MISMATCH |
| (3C) |1. | | UEPBWOF | "X'02'" BWO ATTRIBUTE MISMATCH |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|-------------------------------------|
| (40) | ADDRESS | 4 | UEPOPEN | ADDRESS OF ACTION FLAG |
| XFCAREQ PARAMETERS VALID RETURN CODES FOR XFCAREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPCLPS | ADDRESS OF COMMAND LEVEL PLIST |
| (34) | ADDRESS | 4 | UEPFATOK | ADDR OF TOKEN TO PASS TO REQC EXIT |
| (38) | ADDRESS | 4 | UEPRCODE | ADDRESS OF COPY OF EIBRCODE |
| (3C) | ADDRESS | 4 | UEPRES P | ADDRESS OF COPY OF EIBRESP |
| (40) | ADDRESS | 4 | UEPRES P2 | ADDRESS OF COPY OF EIBRESP2 |
| (44) | ADDRESS | 4 | UEPTSTOK | ADDRESS OF TASK TOKEN |
| (48) | ADDRESS | 4 | UEPRECUR | ADDRESS OF HALFWORD DEPTH COUNTER |
| XFCAREQC PARAMETERS VALID RETURN CODES FOR XFCAREQC ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPFATOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| XFCREQ PARAMETERS VALID RETURN CODES FOR XFCREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPFCTOK | ADDRESS OF TOKEN TO PASS TO XFCREQC |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------|-----|------------|-------------------------------|
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | UEPRSRCE | ADDRESS OF COPY OF EIBRSRCE |
| (50) | ADDRESS | 4 | UEPFSHIP | ADDRESS OF FUNCTION SHIP AREA |
| XFCREQC PARAMETERS VALID RETURN CODES FOR XFCREQC ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPFCTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|------------|------------------------------------|
| XFCSREQ PARAMETERS Exit specific parameters are: UEPFSREQ - Address of 2 byte field containing the request type. UEPFILE - Address of 8 byte field containing the file name UEPFINFO - Address pointing to a block containing the file info. UEPRECUR - Address of halfword recursion level VALID VALUES FOR UEPFSREQ ARE: First byte UEPFSOPN EQU X'01' Open File Request UEPFSCLS EQU X'02' Close File Request UEPFSENB EQU X'03' Enable File Request UEPFSDIS EQU X'04' Disable File Request UEPFSCAN EQU X'05' Cancel Close File Request Second byte - meaning depends on type of request Values for open UEPFSNOP EQU X'00' Normal Open UEPFSOFB EQU X'02' Open for backout Values for close UEPFSNC EQU X'00' Normal Close UEPFSCP EQU X'01' Close Pending UEPFSELM EQU X'02' End of Load Mode Close UEPFSIMM EQU X'06' Immediate Close UEPFSICP EQU X'07' Immediate Close Pending UEPFSQU EQU X'08' RLS Quiesce Close VALID RETURN CODES FOR XFCSREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS THE FILE CONTROL REQUEST UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPFSREQ | ADDRESS OF FILE STATE REQUEST BYTE |
| VALID VALUES FOR UEPFSREQ ARE: First byte | | | | |
| (30) |1 | | UEPFSOPN | "X'01'" Open File Request |
| (30) |1. | | UEPFSCLS | "X'02'" Close File Request |
| (30) |11 | | UEPFSENB | "X'03'" Enable File Request |
| (30) |1.. | | UEPFSDIS | "X'04'" Disable File Request |
| (30) |1.1 | | UEPFSCAN | "X'05'" Cancel Close File Request |
| Second byte - meaning depends on type of request Values for open | | | | |
| (30) | .... .... |  | UEPFSNOP | "X'00'" Normal Open |
| (30) |1. | | UEPFSOFB | "X'02'" Open for backout |
| Values for close | | | | |
| (30) | .... .... |  | UEPFSNC | "X'00'" Normal Close |
| (30) |1 | | UEPFSCP | "X'01'" Close Pending |
| (30) |1. | | UEPFSELM | "X'02'" End of Load Mode Close |
| (30) |11. | | UEPFSIMM | "X'06'" Immediate Close |
| (30) |111 | | UEPFSICP | "X'07'" Immediate Close Pending |
| (30) | 1... | | UEPFSQU | "X'08'" RLS Quiesce Close |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--------------------------------|
| (34) | ADDRESS | 4 | UEPFILE | ADDRESS OF FILE NAME |
| (38) | ADDRESS | 4 | UEPFINFO | ADDRESS OF FILE INFORMATION |
| (3C) | ADDRESS | 4 | | RESERVED |
| (40) | ADDRESS | 4 | | RESERVED |
| (44) | ADDRESS | 4 | | RESERVED |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| <p>XFCSREQC PARAMETERS</p> <p>Exit specific parameters are:</p> <p>UEPFSREQ - Address of 2 byte field containing the request type.</p> <p>UEPFILE - Address of 8 byte field containing the file name</p> <p>UEPFINFO - Address pointing to a block containing the file info.</p> <p>UEPFSRSP - Address of 1 byte field containing the response.</p> <p>UEPRECUR - Address of halfword recursion level</p> <p>VALID RETURN CODES FOR XFCSREQC ARE:</p> <p>UERCNORM EQU X'00' NORMAL(DEFAULT)</p> <p>URCPURG EQU X'20' PURGED</p> <p>VALID VALUES FOR UEPFSREQ ARE:</p> <p>First byte</p> <p>UEPFSOPN EQU X'01' Open Request</p> <p>UEPFSCLS EQU X'02' Close Request</p> <p>UEPFSENB EQU X'03' Enable Request</p> <p>UEPFSDIS EQU X'04' Disable Request</p> <p>UEPFSKAN EQU X'05' Cancel Close File Request</p> <p>Second byte - meaning depends on type of request</p> <p>Values for open</p> <p>UEPFSNOP EQU X'00' Normal Open</p> <p>UEPFSOFB EQU X'02' Open for backout</p> <p>Values for close</p> <p>UEPFSNC EQU X'00' Normal Close</p> <p>UEPFSKP EQU X'01' Close Pending</p> <p>UEPFSKLM EQU X'02' End of Load Mode Close</p> <p>UEPFSKIM EQU X'06' Immediate Close</p> <p>UEPFSKICP EQU X'07' Immediate Close Pending</p> <p>UEPFSQU EQU X'08' RLS Quiesce Close</p> <p>VALID VALUES FOR UEPFSRSP ARE:</p> <p>UEFSNORM EQU X'00' NORMAL</p> <p>UEFSWARN EQU X'04' WARNING</p> <p>UEFSFAIL EQU X'08' FAILED</p> <p>UEFSPEND EQU X'10' PENDING</p> | | | | |
| (30) | ADDRESS | 4 | | UEPFSREQ - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPFILE - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPFINFO - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | UEPFSRSP | ADDRESS OF RESPONSE TO REQUEST |
| VALID VALUES FOR UEPFSRSP ARE: | | | | |
| (3C) | .... .. |  | UEFSNORM | "X'00'" NORMAL |
| (3C) |1.. | | UEFSWARN | "X'04'" WARNING |
| (3C) | 1... | | UEFSFAIL | "X'08'" FAILED |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (3C) | ...1 | | UEFSPEND | "X'10" PENDING |
| (40) | ADDRESS | 4 | | RESERVED |
| (44) | ADDRESS | 4 | | RESERVED |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| XRCINIT PARAMETERS VALID RETURN CODES FOR XRCINIT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) FIRST PARAMETER DEPENDS ON VALUE IN TYPE OF REQUEST | | | | |
| (30) | ADDRESS | 4 | UEPRSTRT | ADDRESS OF RESTART TYPE BYTE |
| (34) | ADDRESS | 4 | UEPTREQ | ADDRESS OF TYPE OF REQUEST |
| EQUATES FOR TYPE OF REQUEST, ADDRESSED BY UEPTREQ | | | | |
| (34) | .... .... |  | UEUSINIT | "X'00" INITIALIZATION OF USER RECOVERY |
| (34) | 1... | | UEUSTERM | "X'80" TERMINATION OF USER RECOVERY |
| EQUATES FOR TYPE OF RESTART, ADDRESSED BY UEPRSTRT | | | | |
| (34) | .... .... |  | UEPRWARM | "X'00" WARM START |
| (34) |1 | | UEPREMER | "X'01" EMERGENCY RESTART |
| XRCINPT PARAMETERS VALID RETURN CODES FOR XRCINPT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS(NO ACTION) | | | | |
| (30) | ADDRESS | 4 | UEPUOWST | ADDRESS OF UNIT OF WORK STATUS BYTE |
| (34) | ADDRESS | 4 | UEPLGREC | ADDRESS OF LOG RECORD |
| (38) | ADDRESS | 4 | UEPLGLEN | ADDRESS OF FULLWORD CONTAINING LENGTH OF LOG RECORD |
| (3C) | ADDRESS | 4 | UEPTAID | ADDRESS OF FOUR BYTE TASK ID |
| (40) | ADDRESS | 4 | UEPTRID | ADDRESS OF FOUR BYTE TRANSACTION ID |
| (44) | ADDRESS | 4 | UEPTEID | ADDRESS OF FOUR BYTE TERMINAL ID |
| EQUATES FOR UNIT OF WORK STATUS INDICATOR, ADDRESSED BY UEPUOWST NOTE: UEPTAID, UEPTRID AND UEPTEID ARE NOT VALID IF THE STATUS INDICATOR VALUE IS UEPUOWAK. | | | | |
| (44) | .... .... |  | UEPUOWAK | "X'00" ACTIVITY KEYPOINT RECORD |
| (44) |1 | | UEPUOWCM | "X'01" UNIT OF WORK COMMITTED |
| (44) |1. | | UEPUOWBO | "X'02" UNIT OF WORK BACKED OUT |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (44) |11 | | UEPUOWIF | "X'03" UNIT OF WORK WAS STILL IN FLIGHT |
| (44) |1.. | | UEPUOWID | "X'04" UNIT OF WORK IS IN DOUBT |
| XICREQ PARAMETERS VALID RETURN CODES FOR XICREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPICQID | ADDRESS OF 8 BYTE FIELD CONTAINING REQUEST ID ON REQUEST |
| (34) | ADDRESS | 4 | UEPICTID | ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST |
| (38) | ADDRESS | 4 | UEPICTI | ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST |
| (3C) | ADDRESS | 4 | UEPICRQ1 | ADDRESS OF COPY OF FIRST REQUEST TYPE BYTE |
| (40) | ADDRESS | 4 | UEPICRQ2 | ADDRESS OF COPY OF SECOND REQUEST TYPE BYTE |
| (44) | ADDRESS | 4 | UEPICRT | ADDRESS OF 4 BYTE FIELD CONTAINING EXPIRY TIME OR INTERVAL ON REQUEST |
| XICEXP PARAMETERS VALID RETURN CODES FOR XICEXP ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPICE | ADDRESS OF ICE JUST EXPIRED |
| XICEREQ PARAMETERS VALID RETURN CODES FOR XICEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPICTOK | ADDRESS OF TOKEN TO PASS TO XICEREQC |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES2 - AS DEFINED ABOVE |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|----------------------|----------------------------------|
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| (50) | ADDRESS | 4 | UEPDATE | ADDRESS OF COPY OF EIBDATE |
| (54) | ADDRESS | 4 | UEPTIME | ADDRESS OF COPY OF EIBTIME |
| (58) | ADDRESS | 4 | | RESERVED |
| (5C) | ADDRESS | 4 | | RESERVED |
| XICEREQC PARAMETERS VALID RETURN CODES FOR XICEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPICTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| (50) | ADDRESS | 4 | | UEPDATE - AS DEFINED ABOVE |
| (54) | ADDRESS | 4 | | UEPTIME - AS DEFINED ABOVE |
| (58) | ADDRESS | 4 | UEP_IC_REMOTE_SYSTEM | ADDRESS OF COPY OF REMOTE SYSTEM |
| (5C) | ADDRESS | 4 | UEP_IC_REMOTE_NAME | ADDRESS OF COPY OF REMOTE NAME |
| XICERES PARAMETERS THIS PARAMETER LIST IS IDENTICAL TO THAT USED FOR XICEREQ EXCEPT THAT R/CODE UERCBYP HAS BEEN REPLACED BY UERCRESU VALID RETURN CODES FOR XICERES ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCRESU EQU X'04' RESOURCE UNAVAILABLE UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (34) | ADDRESS | 4 | | UEPICTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| (50) | ADDRESS | 4 | | UEPDATE - AS DEFINED ABOVE |
| (54) | ADDRESS | 4 | | UEPTIME - AS DEFINED ABOVE |
| (58) | ADDRESS | 4 | | RESERVED |
| (5C) | ADDRESS | 4 | | RESERVED |
| XICTENF PARAMETERS VALID RETURN CODES FOR XICTENF ARE: UERCTEUN EQU X'00' TERMINAL UNKNOWN UERCNETN EQU X'04' TERMINAL KNOWN, NETNAME RETURNED UERCSYSI EQU X'08' TERMINAL KNOWN, SYSID RETURNED UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPICEVT | ADDRESS OF 2 BYTE FIELD CONTAINING REASON FOR EXIT BEING DRIVEN |
| (30) | CHARACTER | 0 | UEPICES | "C'S '" C'S ' = START COMMAND WITHOUT DATA |
| (30) | CHARACTER | 0 | UEPICESD | "C'SD'" C'SD' = START COMMAND WITH DATA |
| (34) | ADDRESS | 4 | UEPICTR | ADDRESS OF 1 BYTE FIELD CONTAINING TRANSACTION ROUTING INDICATOR. |
| (34) | 11.1.1... | | UEPICTY | "C'Y'" C'Y' IF START ISSUED BY TRANSACTION ROUTED TASK. |
| (34) | 11.1.1.1 | | UEPICTN | "C'N'" OTHERWISE 'N'. |
| (38) | ADDRESS | 4 | UEPICFS | ADDRESS OF 1 BYTE FIELD CONTAINING FUNCTION SHIPPING INDICATOR. |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (38) | 111. 1... | | UEPICFY | "C'Y'" C'Y' IF START REQUEST WAS FUNCTION SHIPPED. |
| (38) | 11.1 .1.1 | | UEPICFN | "C'N'" OTHERWISE 'N'. |
| (3C) | ADDRESS | 4 | UEPICTRN | ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST |
| (40) | ADDRESS | 4 | UEPICRTR | ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST |
| (44) | ADDRESS | 4 | UEPICCTR | ADDRESS OF 4 BYTE FIELD CONTAINING ID OF TERMINAL RUNNING THE TASK IF THE COMMAND WAS TRANSACTION ROUTED. ID OF THE SESSION IF THE COMMAND WAS FUNCTION SHIPPED. OTHERWISE BLANKS. |
| (48) | ADDRESS | 4 | UEPICNTI | ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME OF SYSID, IF THERE IS A SYSID, OR BLANKS |
| (4C) | ADDRESS | 4 | UEPICSYI | ADDRESS OF 4 BYTE FIELD CONTAINING SYSID, IF ANY, PASSED TO EXIT OR BLANKS |
| (50) | ADDRESS | 4 | UEPICNTO | ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME RETURNED BY EXIT FOR RETURN CODE UERCNETN |
| (54) | ADDRESS | 4 | UEPICSYO | ADDRESS OF 4 BYTE FIELD CONTAINING SYSID RETURNED BY THE EXIT FOR RETURN CODE UERCSYSI |
| (58) | ADDRESS | 4 | UEPICNNI | ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, PASSED TO EXIT, OR BLANKS |
| (5C) | ADDRESS | 4 | UEPICNNO | ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, RETURNED BY EXIT, OR BLANKS |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| XALTENF PARAMETERS VALID RETURN CODES FOR XALTENF ARE: UERCTEUN EQU X'00' TERMINAL UNKNOWN UERCNETN EQU X'04' TERMINAL KNOWN, NETNAME RETURNED UERCSYSI EQU X'08' TERMINAL KNOWN, SYSID RETURNED | | | | |
| (30) | ADDRESS | 4 | UEPALEVT | ADDRESS OF 2 BYTE FIELD CONTAINING REASON FOR EXIT BEING DRIVEN |
| (30) | CHARACTER | 0 | UEPALETD | "C'QD'" C'QD' = TRANSIENT DATA TRIGGER LEVEL |
| (30) | CHARACTER | 0 | UEPALES | "C'S '" C'S ' = START COMMAND WITHOUT DATA |
| (30) | CHARACTER | 0 | UEPALESD | "C'SD'" C'SD' = START COMMAND WITH DATA |
| (34) | ADDRESS | 4 | UEPALTR | ADDRESS OF 1 BYTE FIELD CONTAINING TRANSACTION ROUTING INDICATOR (START COMMANDS ONLY) |
| (34) | 111. 1... | | UEPALTY | "C'Y'" C'Y' IF START ISSUED BY TRANSACTION ROUTED TASK. |
| (34) | 11.1 .1.1 | | UEPALTN | "C'N'" OTHERWISE 'N'. 'N' FOR TD |
| (38) | ADDRESS | 4 | UEPALFS | ADDRESS OF 1 BYTE FIELD CONTAINING FUNCTION SHIPPING INDICATOR, (START COMMANDS ONLY) |
| (38) | 111. 1... | | UEPALFY | "C'Y'" C'Y' IF START REQUEST WAS FUNCTION SHIPPED. |
| (38) | 11.1 .1.1 | | UEPALFN | "C'N'" OTHERWISE 'N'. 'N' FOR TD. |
| (3C) | ADDRESS | 4 | UEPALTRN | ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST |
| (40) | ADDRESS | 4 | UEPALRTR | ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|--|
| (44) | ADDRESS | 4 | UEPALCTR | ADDRESS OF 4 BYTE FIELD CONTAINING ID OF TERMINAL RUNNING THE TASK IF THE COMMAND WAS TRANSACTION ROUTED. ID OF THE SESSION IF THE COMMAND WAS FUNCTION SHIPPED. OTHERWISE BLANKS. |
| (48) | ADDRESS | 4 | UEPALNTI | ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME OF SYSID, IF THERE IS A SYSID, OR BLANKS |
| (4C) | ADDRESS | 4 | UEPALSUI | ADDRESS OF 4 BYTE FIELD CONTAINING SYSID, IF ANY, PASSED TO EXIT OR BLANKS |
| (50) | ADDRESS | 4 | UEPALNTO | ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME RETURNED BY EXIT FOR RETURN CODE UERCNETN |
| (54) | ADDRESS | 4 | UEPALSIO | ADDRESS OF 4 BYTE FIELD CONTAINING SYSID RETURNED BY THE EXIT FOR RETURN CODE UERCSYSI |
| (58) | ADDRESS | 4 | UEPALNNI | ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, PASSED TO EXIT, OR BLANKS |
| (5C) | ADDRESS | 4 | UEPALNNO | ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, RETURNED BY EXIT, OR BLANKS |
| XALCAID PARAMETERS VALID RETURN CODES FOR XALCAID ARE; UERCNORM EQU X'00' NORMAL (DEFAULT) | | | | |
| (30) | ADDRESS | 4 | UEPALTSD | A four-byte field containing the symbolic identifier of the transaction which was to be started by this request. |
| (34) | ADDRESS | 4 | UEPALTRM | A four-byte field containing the identifier of the terminal or connection to which this request was directed. |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|------------|--|
| (38) | ADDRESS | 4 | UEPALDAT | Either the address of an area of storage containing the data specified in the FROM option of the START command which led to the creation of this request; or zero if the FROM option was not specified. |
| (3C) | ADDRESS | 4 | UEPALLEN | A fullword binary value containing the length of the FROM data; or zero if the FROM option was not specified. |
| (40) | ADDRESS | 4 | UEPALRQD | An eight-byte field containing the value of the REQID associated with the FROM data. The data was stored in a temporary storage queue with this name. This value was either specified explicitly using the REQID option on the START command, or created internally by CICS. |
| (44) | ADDRESS | 4 | UEPALQUE | An eight-byte field containing the value specified in the QUEUE option on the START command, or hex zeros if QUEUE was not specified. |
| (48) | ADDRESS | 4 | UEPALRTE | A four-byte field containing the value specified in the RTERMID option on the START command, or hex zeros if RTERMID was not specified. |
| (4C) | ADDRESS | 4 | UEPALRTA | A four-byte field containing the value specified in the RTRANSID option on the START command, or hex zeros if RTRANSID was not specified. |
| (50) | ADDRESS | 4 | UEPALFMH | A one-byte field containing the value X'FF' if the data contains FMHs, as specified by the FM option on the associated START command, and X'00' otherwise. |
| (54) | ADDRESS | 4 | UEPALSTC | A two-byte field containing the start code. This will be C'SZ' for FEPI starts; otherwise C'SD'. |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (58) | ADDRESS | 4 | UEPALCHN | A sixteen byte field containing the channel name (if any). If there is no channel associated with the AID, the name is set to blanks. |
| XAKUSER PARAMETERS VALID RETURN CODES FOR XAKUSER ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) | | | | |
| (30) | ADDRESS | 4 | UEPAKTYP | ADDRESS OF KEYPOINT TYPE BYTE |
| EQUATES FOR TYPE OF KEYPOINT, ADDRESSED BY UEPAKTYP | | | | |
| (30) | .... .. |  | UEPAKPER | "X'00'" NORMAL PERIODIC KEYPOINT |
| (30) |1 | | UEPAKWSD | "X'01'" WARM SHUTDOWN KEYPOINT |
| XTCATT PARAMETERS VALID RETURN CODES FOR XTCATT ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | UEPTCTTE | ADDRESS OF TCTTE |
| (34) | ADDRESS | 4 | UEPTIOA | ADDRESS OF TIOA |
| (38) | ADDRESS | 4 | UEPTCTLE | ADDRESS OF TCT LINE ENTRY |
| (3C) | ADDRESS | 4 | | reserved |
| (40) | ADDRESS | 4 | UEPTRAN | ADDRESS OF TRANSID |
| XTCTIN PARAMETERS VALID RETURN CODES FOR XTCTIN ARE: UERCNORM EQU X'00' NORMAL (FORMAT TCAM HEADER) UERCBYE EQU X'04' BYPASS FORMATTING OF TCAM HEADER | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPTCTLE - AS DEFINED ABOVE |
| XTCTOUT PARAMETERS VALID RETURN CODES FOR XTCTOUT ARE: UERCNORM EQU X'00' NORMAL (FORMAT TCAM HEADER) UERCBYE EQU X'04' BYPASS FORMATTING OF TCAM HEADER | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPTCTLE - AS DEFINED ABOVE |
| XTCIN PARAMETERS VALID RETURN CODES FOR XTCIN ARE: UERCNORM EQU X'00' NORMAL | | | | |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|-----------------------------|
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPTCTLE - AS DEFINED ABOVE |
| XTCOUT PARAMETERS VALID RETURN CODES FOR XTCOUT ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPTCTLE - AS DEFINED ABOVE |
| XZCIN PARAMETERS VALID RETURN CODES FOR XZCIN ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| XZCOUT PARAMETERS VALID RETURN CODES FOR XZCOUT ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| XZCOUT1 PARAMETERS VALID RETURN CODES FOR XZCOUT1 ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| XZCATT PARAMETERS VALID RETURN CODES FOR XZCATT ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | UETPN | ADDRESS OF TPN |
| (3C) | ADDRESS | 4 | UETPNL | ADDRESS OF TPN LENGTH |
| (40) | ADDRESS | 4 | | UEPTRAN - AS DEFINED ABOVE |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------|-----|--------------|-------------------------------------|
| XGMTEXT PARAMETERS VALID RETURN CODES FOR XGMTEXT ARE: UERCNORM EQU X'00' NORMAL UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| XPCREQ PARAMETERS VALID RETURN CODES FOR XPCREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPPCTOK | ADDRESS OF TOKEN TO PASS TO XPCREQC |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| (50) | ADDRESS | 4 | | RESERVED |
| (54) | ADDRESS | 4 | | RESERVED |
| (58) | ADDRESS | 4 | UEP_PC_PBTOK | ADDRESS OF PB TOKEN |
| XPCREQC PARAMETERS VALID RETURN CODES FOR XPCREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPPCTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------|-----|----------------------|-------------------------------------|
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| (50) | ADDRESS | 4 | UEP_PC_REMOTE_SYSTEM | ADDRESS OF COPY OF REMOTE SYSTEM |
| (54) | ADDRESS | 4 | UEP_PC_REMOTE_NAME | ADDRESS OF COPY OF REMOTE NAME |
| (58) | ADDRESS | 4 | | UEP_PC_PBTOK - AS DEFINED ABOVE |
| XPCERES PARAMETERS THIS PARAMATER LIST IS IDENTICAL TO THAT USED FOR XPCREQ EXCEPT THAT R/CODE UERCBYP HAS BEEN REPLACED BY UERCRESU VALID RETURN CODES FOR XPCERES ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCRESU EQU X'04' RESOURCE UNAVAILABLE UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPPCTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| (50) | ADDRESS | 4 | | RESERVED |
| (54) | ADDRESS | 4 | | RESERVED |
| (58) | ADDRESS | 4 | | UEP_PC_PBTOK - AS DEFINED ABOVE |
| XPCABND PARAMETERS VALID RETURN CODES FOR XPCABND ARE: UERCNORM EQU X'00' NORMAL(TAKE DUMP) UERCBYP EQU X'04' BYPASS(SUPPRESS DUMP) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPPCDS | ADDR OF PROGRAM CONTROL EXITS DSECT |
| (34) | ADDRESS | 4 | UEPTACB | ADDRESS OF TACB |
| XPCFTCH PARAMETERS VALID RETURN CODES FOR XPCFTCH ARE: UERCNORM EQU X'00' NORMAL UERCM EA EQU X'04' ENTRY POINT HAS BEEN MODIFIED UERCPURG EQU X'20' PURGED | | | | |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|--------------------------------------|-------------------------------------|
| (30) | ADDRESS | 4 | | UEPPCDS - AS DEFINED ABOVE |
| XFCFRIN PARAMETERS VALID RETURN CODES FOR XFCFRIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCBYPL EQU X'08' BYPASS REQUEST AND KEEP MIRROR UERCPURG EQU X'20' PURGED | | | | |
| MODIFICATIONS TO THE ARGS UEPTRANID THRU UEPPROG NOT ALLOWED | | | | |
| (30) | ADDRESS | 4 | UEPTRANID | ADDRESS OF TRANSACTION ID |
| (34) | ADDRESS | 4 | UEPUSER | ADDRESS OF USERID |
| (38) | ADDRESS | 4 | UEPTERM | ADDRESS OF TERMINAL ID |
| (3C) | ADDRESS | 4 | UEPPROG | ADDRESS OF APPLICATION PROGRAM NAME |
| (40) | HALFWORD | 2 | UEPPARMD (0) | END OF COMMON DOMAIN PARAMETERS |
| (40) | ADDRESS | 4 | UEP_FC_FUNCTION | address of a 1-byte function |
| (40) |1 | | UEP_FC_FUN_READ_INT0 | "X'01" |
| (40) |1. | | UEP_FC_FUN_READ_SET | "X'02" |
| (40) |11 | | UEP_FC_FUN_READ_UPDATE_INT0 | "X'03" |
| (40) |1.. | | UEP_FC_FUN_READ_UPDATE_SET | "X'04" |
| (40) |1.1 | | UEP_FC_FUN_WRITE | "X'05" |
| (40) |11. | | UEP_FC_FUN_REWRITE | "X'06" |
| (40) | 1... | | UEP_FC_FUN_REWRITE_DELETE | "X'08" |
| (40) | 1.1. | | UEP_FC_FUN_DELETE | "X'0A" |
| (40) | 1.11 | | UEP_FC_FUN_UNLOCK | "X'0B" |
| (40) | 11.. | | UEP_FC_FUN_START_BROWSE | "X'0C" |
| (40) | 11.1 | | UEP_FC_FUN_READ_NEXT_INT0 | "X'0D" |
| (40) | 111. | | UEP_FC_FUN_READ_NEXT_SET | "X'0E" |
| (40) | 1111 | | UEP_FC_FUN_READ_PREVIOUS_INT0 | "X'0F" |
| (40) | ...1 | | UEP_FC_FUN_READ_PREVIOUS_SET | "X'10" |
| (40) | ...1 ...1 | | UEP_FC_FUN_READ_NEXT_UPDATE_INT0 | "X'11" |
| (40) | ...1 ..1. | | UEP_FC_FUN_READ_NEXT_UPDATE_SET | "X'12" |
| (40) | ...1 ..11 | | UEP_FC_FUN_READ_PREVIOUS_UPDATE_INT0 | "X'13" |
| (40) | ...1 ..1.. | | UEP_FC_FUN_READ_PREVIOUS_UPDATE_SET | "X'14" |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|--------------------------|---|
| (40) | ...1 .1.1 | | UEP_FC_FUN_RESET_ BROWSE | "X'15" |
| (40) | ...1 .11. | | UEP_FC_FUN_END_BROWSE | "X'16" |
| (44) | ADDRESS | 4 | | |
| (48) | ADDRESS | 4 | UEP_FC_FILE_NAME | address of 8-character file name |
| (4C) | ADDRESS | 4 | UEP_FC_BUFFER_P | address of fullword buffer address |
| (50) | ADDRESS | 4 | UEP_FC_BUFFER_L | address of fullword buffer length |
| (54) | ADDRESS | 4 | UEP_FC_RECORD_P | address of fullword record address |
| (58) | ADDRESS | 4 | UEP_FC_RECORD_L | address of fullword record length |
| (5C) | ADDRESS | 4 | UEP_FC_MAX_RECORD_L | address of fullword max record leng |
| (60) | ADDRESS | 4 | UEP_FC_RECORD_ID_P | address of fullword record id addr |
| (64) | ADDRESS | 4 | UEP_FC_RECORD_ID_L | address of halfword record id len |
| (68) | ADDRESS | 4 | UEP_FC_FULL_RECORD_ID_L | addr of halfword full rec id len |
| (6C) | ADDRESS | 4 | UEP_FC_RECORD_ID_TYPE | address of 1-byte RIDFLD type |
| (6C) |1 | | UEP_FC_KEY | "X'01" VSAM KSDS or AIX PATH access |
| (6C) |1. | | UEP_FC_RBA | "X'02" VSAM ESDS or KSDS via RBA access |
| (6C) |11 | | UEP_FC_RRN | "X'03" VSAM RRDS access |
| (6C) |1.. | | UEP_FC_DEBKEY | "X'04" BDAM deblocking by key |
| (6C) |1.1 | | UEP_FC_DEBREC | "X'05" BDAM deblocking by relative record |
| (6C) |11. | | UEP_FC_XRBA | "X'06" VSAM ESDS with extended addressing |
| (70) | ADDRESS | 4 | UEP_FC_REQID | address of halfword value of REQID |
| (74) | ADDRESS | 4 | UEP_FC_NUMREC | address of fullword value of NUMREC |
| (78) | ADDRESS | 4 | UEP_FC_KEY_COMPARISON | address of 1-byte KEY COMP value |
| (78) |1 | | UEP_FC_GTEQ | "X'01" Key greater than equal comparison |
| (78) |1. | | UEP_FC_EQUAL | "X'02" Key equal comparison |
| (7C) | ADDRESS | 4 | UEP_FC_GENERIC | address of 1-byte GENERIC value |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|--------------------------------|--|
| (7C) |1 | | UEP_FC_GENERIC_KEY | "X'01" Generic key |
| (7C) |1. | | UEP_FC_FULL_KEY | "X'02" Full key |
| (80) | ADDRESS | 4 | UEP_FC_MASS_INSERT | address of 1-byte MASS INSERT value |
| (80) |1 | | UEP_FC_SEQUENTIAL_WRITE | "X'01" VSAM sequential mode |
| (80) |1. | | UEP_FC_DIRECT_WRITE | "X'02" VSAM direct mode |
| (84) | ADDRESS | 4 | UEP_FC_READ_INTEGRITY | address of 1-byte READ INTEGRITY |
| (84) |1 | | UEP_FC_CR | "X'01" VSAM consistent read integrity |
| (84) |1. | | UEP_FC_FCT_VALUE | "X'02" VSAM read integrity as per FCTE |
| (84) |11 | | UEP_FC_NRI | "X'03" VSAM no read integrity |
| (84) |1.. | | UEP_FC_RR | "X'04" VSAM repeatable read integrity |
| (88) | ADDRESS | 4 | UEP_FC_TOKEN | address of fullword value of TOKEN |
| (8C) | ADDRESS | 4 | UEP_FC_SYSID | address of four byte area for SYSID |
| (90) | ADDRESS | 4 | UEP_FC_LENGTH_ERROR_CODE | address of 1-byte length error c |
| (90) |1 | | UEP_FC_LENGTH_OK | "X'01" |
| (90) |1. | | UEP_FC_BUFFER_LEN_TOO_SMALL | "X'02" |
| (90) |11 | | UEP_FC_RECORD_LEN_TOO_LARGE | "X'03" |
| (90) |1.. | | UEP_FC_BUFFER_LEN_NOT_FILE_LEN | "X'04" |
| (90) |1.1 | | UEP_FC_RECORD_LEN_NOT_FILE_LEN | "X'05" |
| (94) | ADDRESS | 4 | UEP_FC_DUPLICATE_KEY_CODE | address of 1-byte dup key code |
| (94) |1 | | UEP_FC_DUPLICATE_KEY | "X'01" |
| (94) |1. | | UEP_FC_NOT_DUPLICATE_KEY | "X'02" |
| (98) | ADDRESS | 4 | UEP_FC_ACCMETH_RETURN_CODE | address of 4-byte accmeth ret c |
| (9C) | ADDRESS | 4 | UEP_FC_RESPONSE | address of 1-byte response |
| (9C) |1 | | UEP_FC_RESPONSE_OK | "X'01" ok response |
| (9C) |1. | | UEP_FC_RESPONSE_EXCEPTION | "X'02" exception response |
| (9C) |11 | | UEP_FC_RESPONSE_DISASTER | "X'03" disaster response |
| (9C) |1.. | | UEP_FC_RESPONSE_INVALID | "X'04" invalid response |
| (9C) |11. | | UEP_FC_RESPONSE_PURGED | "X'06" purged response |
| (A0) | ADDRESS | 4 | UEP_FC_REASON | address of 1-byte reason |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---|-------------|
| (A0) |1 | | UEP_FC_REASON_ABEND | "X'01" |
| (A0) |1. | | UEP_FC_REASON_BDAM_DELETE | "X'02" |
| (A0) |11 | | UEP_FC_REASON_BDAM_LENGTH_CHANGE | "X'03" |
| (A0) |1.. | | UEP_FC_REASON_BDAM_KEY_CONVERSION | "X'04" |
| (A0) |1.1 | | UEP_FC_REASON_BDAM_READ_PREVIOUS | "X'05" |
| (A0) |11. | | UEP_FC_REASON_BDAM_WRITE_MASS_INSERT | "X'06" |
| (A0) |111 | | UEP_FC_REASON_BROWSE_UPD_NOT_RLS | "X'07" |
| (A0) | 1... | | UEP_FC_REASON_CACHE_FAILURE | "X'08" |
| (A0) | 1..1 | | UEP_FC_REASON_CFDI_CONNECT_ERROR | "X'09" |
| (A0) | 1.1. | | UEP_FC_REASON_CFDI_DISCONNECT_ERROR | "X'0A" |
| (A0) | 1.11 | | UEP_FC_REASON_CFDI_INVALID_CONTINUATION | "X'0B" |
| (A0) | 11.. | | UEP_FC_REASON_CFDI_POOL_FULL | "X'0C" |
| (A0) | 11.1 | | UEP_FC_REASON_CFDI_REOPEN_ERROR | "X'0D" |
| (A0) | 111. | | UEP_FC_REASON_CFDI_SERVER_NOT_AVAILABLE | "X'0E" |
| (A0) | 1111 | | UEP_FC_REASON_CFDI_SERVER_NOT_FOUND | "X'0F" |
| (A0) | ...1 | | UEP_FC_REASON_CFDI_SYSIDERR | "X'10" |
| (A0) | ...1 ...1 | | UEP_FC_REASON_CFDI_TABLE_GONE | "X'11" |
| (A0) | ...1 ..1. | | UEP_FC_REASON_CHANGED | "X'12" |
| (A0) | ...1 ..11 | | UEP_FC_REASON_INTERNAL_ERROR_1 | "X'13" |
| (A0) | ...1 .1.. | | UEP_FC_REASON_CR_NOT_RLS | "X'14" |
| (A0) | ...1 .1.1 | | UEP_FC_REASON_DATASET_BEING_COPIED | "X'15" |
| (A0) | ...1 .11. | | UEP_FC_REASON_DEADLOCK_DETECTED | "X'16" |
| (A0) | ...1 .111 | | UEP_FC_REASON_DELETE_AFTER_READ_UPDATE | "X'17" |
| (A0) | ...1 1... | | UEP_FC_REASON_DELETE_BEFORE_READ_UPDATE | "X'18" |
| (A0) | ...1 1..1 | | UEP_FC_REASON_DISASTER_PERCOLATION | "X'19" |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---|-------------|
| (A0) | ...1 1.1. | | UEP_FC_REASON_ DUPLICATE_READ_UPDATE | "X'1A" |
| (A0) | ...1 1.11 | | UEP_FC_REASON_ DUPLICATE_RECORD | "X'1B" |
| (A0) | ...1 11.. | | UEP_FC_REASON_ DUPLICATE_REQID | "X'1C" |
| (A0) | ...1 11.1 | | UEP_FC_REASON_END_ OF_FILE | "X'1D" |
| (A0) | ...1 111. | | UEP_FC_REASON_ESDS_ DELETE | "X'1E" |
| (A0) | ...1 1111 | | UEP_FC_REASON_FILE_ DISABLED | "X'1F" |
| (A0) | ..1. | | UEP_FC_REASON_FILE_ NOT_OPEN | "X'20" |
| (A0) | ..1. ...1 | | UEP_FC_REASON_FILE_ NOT_RECOVERABLE | "X'21" |
| (A0) | ..1. .1. | | UEP_FC_REASON_ FILENOTFOUND | "X'22" |
| (A0) | ..1. ..11 | | UEP_FC_REASON_FULL_ KEY_WRONG_LENGTH | "X'23" |
| (A0) | ..1. .1.. | | UEP_FC_REASON_ GENERIC_DELETE_NOT_KSDS | "X'24" |
| (A0) | ..1. .1.1 | | UEP_FC_REASON_ GENERIC_KEY_TOO_LONG | "X'25" |
| (A0) | ..1. .11. | | UEP_FC_REASON_ ILLEGAL_KEY_TYPE_CHANGE | "X'26" |
| (A0) | ..1. .111 | | UEP_FC_REASON_ INSUFFICIENT_SPACE | "X'27" |
| (A0) | ..1. 1... | | UEP_FC_REASON_ INTERNAL_ERROR_2 | "X'28" |
| (A0) | ..1. 1..1 | | UEP_FC_REASON_ INTERNAL_ERROR_3 | "X'29" |
| (A0) | ..1. 1.1. | | UEP_FC_REASON_ INVALID_UPDATE_TOKEN | "X'2A" |
| (A0) | ..1. 1.11 | | UEP_FC_REASON_IO_ ERROR | "X'2B" |
| (A0) | ..1. 11.. | | UEP_FC_REASON_ ISCINVREQ | "X'2C" |
| (A0) | ..1. 11.1 | | UEP_FC_REASON_ISC_ NOT_SUPPORTED | "X'2D" |
| (A0) | ..1. 111. | | UEP_FC_REASON_KEY_ LENGTH_NEGATIVE | "X'2E" |
| (A0) | ..1. 1111 | | UEP_FC_REASON_KEY_ STOLEN | "X'2F" |
| (A0) | ..11 | | UEP_FC_REASON_LOADING | "X'30" |
| (A0) | ..11 ...1 | | UEP_FC_REASON_LOCKED | "X'31" |
| (A0) | ..11 .1. | | UEP_FC_REASON_LOST_ LOCKS | "X'32" |
| (A0) | ..11 ..11 | | UEP_FC_REASON_LOCK_ STRUCTURE_FULL | "X'33" |
| (A0) | ..11 .1.. | | UEP_FC_REASON_NOT_ IN_SUBSET | "X'34" |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--|-------------|
| (A0) | ..11 .1.1 | | UEP_FC_REASON_NO_VARIABLE_LENGTH | "X'35" |
| (A0) | ..11 .11. | | UEP_FC_REASON_NOSUSPEND_NOT_RLS | "X'36" |
| (A0) | ..11 .111 | | UEP_FC_REASON_NOTAUTH | "X'37" |
| (A0) | ..11 1... | | UEP_FC_REASON_INTERNAL_ERROR_4 | "X'38" |
| (A0) | ..11 1..1 | | UEP_FC_REASON_PREVIOUS_RLS_FAILURE | "X'39" |
| (A0) | ..11 1.1. | | UEP_FC_REASON_RBA_ACCESS_TO_RLS_KSDS | "X'3A" |
| (A0) | ..11 1.11 | | UEP_FC_REASON_READ_NOT_AUTHORISED | "X'3B" |
| (A0) | ..11 11.. | | UEP_FC_REASON_READPREV_IN_GENERIC_BROWSE | "X'3C" |
| (A0) | ..11 11.1 | | UEP_FC_REASON_RECLEN_EXCEEDS_LOGGER_BFSZ | "X'3D" |
| (A0) | ..11 111. | | UEP_FC_REASON_RECORD_BUSY | "X'3E" |
| (A0) | ..11 1111 | | UEP_FC_REASON_RECORD_NOT_FOUND | "X'3F" |
| (A0) | .1.. | | UEP_FC_REASON_REMOTE_INVREQ | "X'40" |
| (A0) | .1.. ...1 | | UEP_FC_REASON_RESTART_FAILED | "X'41" |
| (A0) | .1.. ..1. | | UEP_FC_REASON_INTERNAL_ERROR_5 | "X'42" |
| (A0) | .1.. ..11 | | UEP_FC_REASON_REWRITE_BEFORE_READ_UPDATE | "X'43" |
| (A0) | .1.. .1.. | | UEP_FC_REASON_RIDFLD_KEY_NOT_RECORD_KEY | "X'44" |
| (A0) | .1.. .1.1 | | UEP_FC_REASON_RLS_DEADLOCK_DETECTED | "X'45" |
| (A0) | .1.. .11. | | UEP_FC_REASON_RLS_DISABLED | "X'46" |
| (A0) | .1.. .111 | | UEP_FC_REASON_RLS_FAILURE | "X'47" |
| (A0) | .1.. 1... | | UEP_FC_REASON_RR_NOT_RLS | "X'48" |
| (A0) | .1.. 1..1 | | UEP_FC_REASON_SECURITY_FAILURE | "X'49" |
| (A0) | .1.. 1.1. | | UEP_FC_REASON_SELF_DEADLOCK_DETECTED | "X'4A" |
| (A0) | .1.. 1.11 | | UEP_FC_REASON_SERVREQ_VIOLATION | "X'4B" |
| (A0) | .1.. 11.. | | UEP_FC_REASON_SHIP | "X'4C" |
| (A0) | .1.. 11.1 | | UEP_FC_REASON_STORE_FAIL | "X'4D" |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---|--|
| (A0) | .1.. 111. | | UEP_FC_REASON_ SUPPRESSED | "X'4E'" |
| (A0) | .1.. 1111 | | UEP_FC_REASON_ SYSIDERR | "X'4F'" |
| (A0) | .1.1 | | UEP_FC_REASON_TABLE_ FULL | "X'50'" |
| (A0) | .1.1 ...1 | | UEP_FC_REASON_TABLE_ TOKEN_INVALID | "X'51'" |
| (A0) | .1.1 ..1. | | UEP_FC_REASON_TIMEOUT | "X'52'" |
| (A0) | .1.1 ..11 | | UEP_FC_REASON_TOO_ MANY_CFDTS_IN_UOW | "X'53'" |
| (A0) | .1.1 .1.. | | UEP_FC_REASON_ UNKNOWN_REQID_ENDBR | "X'54'" |
| (A0) | .1.1 .1.1 | | UEP_FC_REASON_ UNKNOWN_REQID_READNEXT | "X'55'" |
| (A0) | .1.1 .11. | | UEP_FC_REASON_ UNKNOWN_REQID_READPREV | "X'56'" |
| (A0) | .1.1 .111 | | UEP_FC_REASON_ UNKNOWN_REQID_RESETBR | "X'57'" |
| (A0) | .1.1 1... | | UEP_FC_REASON_ UPDATE_NOT_AUTHORIZED | "X'58'" |
| (A0) | .1.1 1..1 | | UEP_FC_REASON_ ACCMETH_REQUEST_ERROR | "X'59'" |
| (A0) | .1.1 1.1. | | UEP_FC_REASON_ SHIPPED_SECURITY_FAILURE | "X'5A'" |
| (A0) | .1.1 1.11 | | UEP_FC_REASON_ INTERNAL_ERROR_6 | "X'5B'" |
| (A0) | .1.1 11.. | | UEP_FC_REASON_ INTERNAL_ERROR_7 | "X'5C'" |
| (A0) | .1.1 11.1 | | UEP_FC_REASON_XRBA_ NOT_ESDS | "X'5D'" |
| (A0) | .1.1 111. | | UEP_FC_REASON_NOT_ EXTENDED_ESDS | "X'5E'" |
| (A4) | ADDRESS | 4 | UEP_FC_EXIT_TOKEN | ADDRESS OF FOUR BYTE TOKEN AREA |
| (A8) | ADDRESS | 4 | UEP_FC_M_RECORD_L | address of fullword modified record length |
| (AC) | ADDRESS | 4 | UEP_FC_M_RECORD_ID_L | address of fullword modified key length |
| XFCFROUT PARAMETERS VALID RETURN CODES FOR XFCFROUT ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | | |
| (44) | ADDRESS | 4 | | |
| (48) | ADDRESS | 4 | | |
| (4C) | ADDRESS | 4 | | |
| (50) | ADDRESS | 4 | | |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|----------------------------|-----------------------------------|
| (54) | ADDRESS | 4 | | |
| (58) | ADDRESS | 4 | | |
| (5C) | ADDRESS | 4 | | |
| (60) | ADDRESS | 4 | | |
| (64) | ADDRESS | 4 | | |
| (68) | ADDRESS | 4 | | |
| (6C) | ADDRESS | 4 | | |
| (70) | ADDRESS | 4 | | |
| (74) | ADDRESS | 4 | | |
| (78) | ADDRESS | 4 | | |
| (7C) | ADDRESS | 4 | | |
| (80) | ADDRESS | 4 | | |
| (84) | ADDRESS | 4 | | |
| (88) | ADDRESS | 4 | | |
| (8C) | ADDRESS | 4 | | |
| (90) | ADDRESS | 4 | | |
| (94) | ADDRESS | 4 | | |
| (98) | ADDRESS | 4 | | |
| (9C) | ADDRESS | 4 | | |
| (A0) | ADDRESS | 4 | | |
| (A4) | ADDRESS | 4 | | |
| (A8) | ADDRESS | 4 | | |
| XTSQRIN PARAMETERS VALID RETURN CODES FOR XTSQRIN ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | UEP_TS_FUNCTION | address of a 1-byte function |
| (40) |1 | | UEP_TS_FUN_WRITE | "X'01'" write function |
| (40) |1. | | UEP_TS_FUN_REWRITE | "X'02'" rewrite function |
| (40) |11 | | UEP_TS_FUN_READ_INT0 | "X'03'" read_into function |
| (40) |1.. | | UEP_TS_FUN_READ_SET | "X'04'" read_set function |
| (40) |1.1 | | UEP_TS_FUN_READ_ NEXT_INT0 | "X'05'" read_next_into function |
| (40) |11. | | UEP_TS_FUN_READ_ NEXT_SET | "X'06'" read_next_into function |
| (40) |111 | | UEP_TS_FUN_DELETE | "X'07'" delete function |
| (44) | ADDRESS | 4 | UEP_TS_QUEUE_NAME | address of 8-character queue name |
| (48) | ADDRESS | 4 | UEP_TS_DATA_P | address of fullword data address |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|-----------------------------------|---------------------------------------|
| (4C) | ADDRESS | 4 | UEP_TS_DATA_L | address of fullword data length |
| (50) | ADDRESS | 4 | UEP_TS_ITEM_NUMBER | address of fullword item number |
| (54) | ADDRESS | 4 | UEP_TS_STORAGE_TYPE | address of 1-byte storage type |
| (54) |1 | | UEP_TS_STORAGE_TYPE_MAIN | "X'01'" main |
| (54) |1. | | UEP_TS_STORAGE_TYPE_AUX_TST | "X'02'" aux (recoverability from TST) |
| (54) |11 | | UEP_TS_STORAGE_TYPE_AUX_RECOV_YES | "X'03'" aux recoverable |
| (54) |1.. | | UEP_TS_STORAGE_TYPE_AUX_RECOV_NO | "X'04'" aux non-recoverable |
| (58) | ADDRESS | 4 | | |
| (5C) | ADDRESS | 4 | | |
| XTSQROUT PARAMETERS VALID RETURN CODES FOR XTSQROUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | | |
| (44) | ADDRESS | 4 | | |
| (48) | ADDRESS | 4 | | |
| (4C) | ADDRESS | 4 | | |
| (50) | ADDRESS | 4 | | |
| (54) | ADDRESS | 4 | | |
| (58) | ADDRESS | 4 | UEP_TS_TOTAL_ITEMS | address of fullword total items |
| (5C) | ADDRESS | 4 | UEP_TS_RESPONSE | address of 1-byte response |
| (5C) |1 | | UEP_TS_RESPONSE_OK | "X'01'" ok response |
| (5C) |1. | | UEP_TS_RESPONSE_EXCEPTION | "X'02'" exception response |
| (5C) |11 | | UEP_TS_RESPONSE_DISASTER | "X'03'" disaster response |
| (5C) |1.. | | UEP_TS_RESPONSE_INVALID | "X'04'" invalid response |
| (5C) |11. | | UEP_TS_RESPONSE_PURGED | "X'06'" purged response |
| XTSPTIN PARAMETERS VALID RETURN CODES FOR XTSPTIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | | |
| (40) |1 | | UEP_TS_FUN_PUT | "X'01'" write function |
| (40) |1. | | UEP_TS_FUN_PUT_REPLACE | "X'02'" rewrite function |
| (40) |11 | | UEP_TS_FUN_GET | "X'03'" read_into function |
| (40) |1.. | | UEP_TS_FUN_GET_SET | "X'04'" read_set function |
| (40) |1.1 | | UEP_TS_FUN_GET_RELEASE | "X'05'" read_next_into function |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|----------------------------|--------------------------------------|
| (40) |11. | | UEP_TS_FUN_GET_RELEASE_SET | "X'06"" read_next_into function |
| (40) |111 | | UEP_TS_FUN_RELEASE | "X'07"" delete function |
| (44) | ADDRESS | 4 | | |
| (48) | ADDRESS | 4 | | |
| (4C) | ADDRESS | 4 | | |
| (50) | ADDRESS | 4 | | |
| (54) | ADDRESS | 4 | | |
| (58) | ADDRESS | 4 | | |
| (5C) | ADDRESS | 4 | | |
| XTSPTOUT PARAMETERS VALID RETURN CODES FOR XTSPTOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | | |
| (44) | ADDRESS | 4 | | |
| (48) | ADDRESS | 4 | | |
| (4C) | ADDRESS | 4 | | |
| (50) | ADDRESS | 4 | | |
| (54) | ADDRESS | 4 | | |
| (58) | ADDRESS | 4 | | |
| (5C) | ADDRESS | 4 | | |
| XTSEREQ PARAMETERS VALID RETURN CODES FOR XTSEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPTQTOK | ADDRESS OF TOKEN TO PASS TO XTSEREQC |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| (50) | ADDRESS | 4 | | RESERVED |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------|--|
| XTSEREQC PARAMETERS VALID RETURN CODES FOR XTSEREQC ARE: UERCNORM EQU X'00' NORMAL (CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTQTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| (50) | ADDRESS | 4 | UEP_TS_REMOTE_SYSTEM | ADDRESS OF COPY OF REMOTE SYSTEM |
| XTDREQ PARAMETERS VALID RETURN CODES FOR XTDREQ ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) UERCTDOK EQU X'04' Quit TD processing - return "normal" to caller UERCTDNA EQU X'08' Quit TD processing - return "notauth" to caller UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPTDQUE | Address of TD queue name |
| (34) | ADDRESS | 4 | UEPTDTYP | Address of TD request type |
| equates for TD request byte | | | | |
| (34) |1 | | UEPTDPUT | "1" PUT request |
| (34) |1. | | UEPTDGET | "2" GET request |
| (34) |11 | | UEPTDPUR | "3" PURGE request |
| XTDIN PARAMETERS VALID RETURN CODES FOR XTDIN ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPTDQUE - as defined above XTDOU / XTDIN parameters |
| (34) | ADDRESS | 4 | UEPTDAUD | Address of unmodified data |
| (38) | ADDRESS | 4 | UEPTDLUD | Address of length of unmodified data |
| (3C) | ADDRESS | 4 | UEPTDAMD | Address of modified data |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|--|
| (40) | ADDRESS | 4 | UEPTDLMD | Address of length of modified data XTDOU specific parameters |
| (44) | ADDRESS | 4 | UEPTDNUM | Address of #(records) |
| (48) | ADDRESS | 4 | UEPTDCUR | Address of #(current record) |
| XTDOU PARAMETERS VALID RETURN CODES FOR XTDOU ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCTDOK EQU X'04' Quit TD processing - return "normal" to caller UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPTDQUE - as defined above |
| (34) | ADDRESS | 4 | | UEPTDAUD - as defined above |
| (38) | ADDRESS | 4 | | UEPTDLUD - as defined above |
| (3C) | ADDRESS | 4 | | UEPTDAMD - as defined above |
| (40) | ADDRESS | 4 | | UEPTDLMD - as defined above |
| (44) | ADDRESS | 4 | | UEPTDNUM - as defined above |
| (48) | ADDRESS | 4 | | UEPTDCUR - as defined above |
| XTDEREQ PARAMETERS VALID RETURN CODES FOR XTDEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPTDTOK | ADDRESS OF TOKEN TO PASS TO XTDEREQC |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES2 - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| (50) | ADDRESS | 4 | | RESERVED |
| (54) | ADDRESS | 4 | | RESERVED |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------|-----|----------------------|-----------------------------------|
| XTDEREQC PARAMETERS VALID RETURN CODES FOR XTDEREQC ARE: UERCNORM EQU X'00' NORMAL (CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTDTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| (50) | ADDRESS | 4 | UEP_TD_REMOTE_SYSTEM | ADDRESS OF COPY OF REMOTE SYSTEM |
| (54) | ADDRESS | 4 | UEP_TD_REMOTE_NAME | ADDRESS OF COPY OF REMOTE NAME |
| XLDLOAD PARAMETERS VALID RETURN CODES FOR XLDLOAD ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) | | | | |
| (40) | ADDRESS | 4 | UEPPROGN | ADDRESS OF NAME OF LOADED PROGRAM |
| (44) | ADDRESS | 4 | UEPPROGL | ADDRESS OF UEPPROGN LENGTH |
| (48) | ADDRESS | 4 | | RESERVED FOR UEPRECUR |
| (4C) | ADDRESS | 4 | UEPLDPT | ADDRESS OF PROGRAM LOAD POINT |
| (50) | ADDRESS | 4 | UEPENTRY | ADDRESS OF PROGRAM ENTRY POINT |
| (54) | ADDRESS | 4 | UEPLDCTX T | ADDRESS of APPLICATION CONTEXT |
| (58) | ADDRESS | 4 | | RESERVED - XLD7 |
| (5C) | ADDRESS | 4 | | RESERVED - XLD8 |
| XLDELETE PARAMETERS VALID RETURN CODES FOR XLDELETE ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) | | | | |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------|-----|------------|--------------------------------------|
| XNQEREQ PARAMETERS VALID RETURN CODES FOR XNQEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCSCPE EQU X'08' SCOPE provided UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPNQTOK | ADDRESS OF TOKEN TO PASS TO XNQEREQC |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | UEPScope | ADDRESS OF SCOPE NAME |
| XNQEREQC PARAMETERS VALID RETURN CODES FOR XNQEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPNQTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| XXRSTAT PARAMETERS VALID RETURN CODES FOR XXRSTAT ARE: UERCNORM EQU X'00' NORMAL(TAKE SYSTEM ACTION) UERCCOIG EQU X'04' IGNORE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPERRA | ADDRESS OF ERROR DATA |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|--------------------------------------|
| XXDFA PARAMETERS VALID RETURN CODES FOR XXDFA ARE: UERCNOAC EQU X'00' NO ACTION UERCSWCH EQU X'04' SWITCH TO ALTERNATE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP | | | | |
| (30) | ADDRESS | 4 | UEPDBXR | ADDRESS OF DBCTL XRF INFO |
| XXDFB PARAMETERS VALID RETURN CODES FOR XXDFB ARE: UERCNOAC EQU X'00' NO ACTION UERCSWCH EQU X'04' SWITCH TO ALTERNATE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP | | | | |
| (30) | ADDRESS | 4 | | UEPDBXR - AS DEFINED ABOVE |
| XXDTO PARAMETERS VALID RETURN CODES FOR XXDTO ARE: UERCNOAC EQU X'00' NO ACTION UERCSWCH EQU X'04' SWITCH TO ALTERNATE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP | | | | |
| (30) | ADDRESS | 4 | | UEPDBXR - AS DEFINED ABOVE |
| XDTRD PARAMETERS VALID RETURN CODES FOR XDTRD ARE: UERCDTAC EQU X'00' Accept record UERCDTRJ EQU X'04' Reject record UERCDTOP EQU X'08' Optimise data table add (SDT only) UERCDTEX EQU X'0C' Extension for data tables (SDT only) | | | | |
| (30) | ADDRESS | 4 | UEPDTP | ADDRESS OF DATA TABLE parameter list |
| XDTAD PARAMETERS VALID RETURN CODES FOR XDTAD ARE: UERCDTAC EQU X'00' Accept record UERCDTRJ EQU X'04' Reject record UERCDTOP EQU X'08' Optimise data table add (SDT only) UERCDTEX EQU X'0C' Extension for data tables (SDT only) | | | | |
| (30) | ADDRESS | 4 | | UEPDTP - AS DEFINED ABOVE |
| XDTLC PARAMETERS VALID RETURN CODES FOR XDTLC ARE: UERCDTOK EQU X'00' OPEN OK UERCDTCL EQU X'04' CLOSE THE DATA TABLE/FILE UERCDTSH EQU X'08' Shared data table load (SDT only) UERCDTEX EQU X'0C' Extension for data tables (SDT only) | | | | |
| (30) | ADDRESS | 4 | | UEPDTP - AS DEFINED ABOVE |
| XZIQUE PARAMETERS VALID RETURN CODES FOR XZIQUE ARE: UERCAQUE EQU X'00' Queue allocate request UERCAPUR EQU X'04' Purge allocate request-sysiderr UERCAKLL EQU X'08' Kill queued tasks & issue MSG UERCAKLM EQU X'0C' Kill queued tasks for modegrp & issue MSG UERCPURG EQU X'20' Task purged during XPI call | | | | |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------|-----|------------|-------------------------------------|
| (30) | ADDRESS | 4 | UEPZDATA | ADDRESS OF XZIQUE PARAMETERS |
| XISQUE PARAMETERS VALID RETURN CODES FOR XISQUE ARE: UERCAQUE EQU X'00' Queue allocate request UERCAPUR EQU X'04' Purge allocate request-sysiderr UERCAKLL EQU X'08' Kill queued tasks & issue MSG UERCPURG EQU X'20' Task purged during XPI call check parm list hasn't already been generated by XISQUE | | | | |
| (40) | ADDRESS | 4 | UEPISDATA | ADDRESS OF XISQUE PARAMETERS |
| XISQLCL PARAMETERS VALID RETURN CODES FOR XISQLCL ARE: UERCSYS EQU X'00' Take system action UERCQUE EQU X'04' Queue the request UERCIGN EQU X'08' Ignore, return system action UERCPURG EQU X'20' Purged | | | | |
| MODIFICATIONS TO THE ARGUMENTS UEPTRANID THRU UEPPIRG ARE NOT ALLOWED | | | | |
| (30) | ADDRESS | 4 | | ADDRESS OF TRANSACTION ID |
| (34) | ADDRESS | 4 | | ADDRESS OF USERID |
| (38) | ADDRESS | 4 | | ADDRESS OF TERMINAL ID |
| (3C) | ADDRESS | 4 | | ADDRESS OF APPLICATION PROGRAM NAME |
| (40) | ADDRESS | 4 | UEPISQPL | Address of XISQLCL parm list |
| XISCONA PARAMETERS VALID RETURN CODES FOR XISCONA ARE: UERCAQUE EQU X'00' Queue allocate request UERCAPUR EQU X'04' Purge allocate request-sysiderr | | | | |
| (30) | ADDRESS | 4 | UEPISPCA | ADDRESS OF XISCONA PARAMETERS |
| XISLCLQ PARAMETERS VALID RETURN CODES FOR XISLCLQ ARE: UERCSYS EQU X'00' TAKE SYSTEM ACTION UERCQUE EQU X'04' QUEUE THE REQUEST UERCIGN EQU X'08' IGNORE, RETURN SYSTEM ACTION UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPISPP | ADDRESS OF XISLCLQ PARAMETERS |
| XMNOUT PARAMETERS VALID RETURN CODES FOR XMNOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS MONITOR RECORD OUTPUT UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | UEPDICT | ADDRESS OF DICTIONARY |
| (44) | ADDRESS | 4 | UEPDICTE | ADDRESS OF DICTIONARY ENTRIES |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (48) | ADDRESS | 4 | UEPFCL | ADDRESS OF FIELD CONNECTOR LIST |
| (4C) | ADDRESS | 4 | UEPFCLNO | ADDRESS OF NUMBER OF FIELD CONNECTORS |
| (50) | ADDRESS | 4 | UEPMRTYP | ADDRESS OF MONITORING RECORD TYPE |
| (54) | ADDRESS | 4 | UEPMRLen | ADDRESS OF MONITORING RECORD LENGTH |
| (58) | ADDRESS | 4 | UEPMREC | ADDRESS OF MONITORING RECORD |
| (5C) | ADDRESS | 4 | UEPSRCK | ADDRESS OF WLM SERVICE REPORTING TOKEN |
| (60) | ADDRESS | 4 | UEMPREC | ADDRESS OF MN PERFORMANCE RECORD |
| XSTOUT PARAMETERS VALID RETURN CODES FOR XSTOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS STATISTICS RECORD OUTPUT | | | | |
| (40) | ADDRESS | 4 | UEPSTATS | ADDRESS OF STATISTICS RECORD |
| (44) | ADDRESS | 4 | UEPSRLEN | ADDRESS OF LENGTH OF STATS RECORD |
| (48) | ADDRESS | 4 | UEPSTYPE | ADDRESS OF STATISTICS TYPE |
| EQUATES FOR STATISTICS TYPE | | | | |
| (48) | CHARACTER | 0 | UEPSINT | "C'INT'" INTERVAL STATISTICS |
| (48) | CHARACTER | 0 | UEPSREQ | "C'REQ'" REQUESTED STATISTICS |
| (48) | CHARACTER | 0 | UEPSEOD | "C'EOD'" END OF DAY STATISTICS |
| (48) | CHARACTER | 0 | UEPSUSS | "C'USS'" UNSOLICITED STATISTICS |
| (48) | CHARACTER | 0 | UEPSRRT | "C'RRT'" REQUESTED RESET STATISTICS |
| (4C) | ADDRESS | 4 | UEPSDATE | ADDRESS OF COLLECTION DATE (MMDDYY) |
| (50) | ADDRESS | 4 | UEPSTIME | ADDRESS OF COLLECTION TIME (HHMMSS) |
| THE FOLLOWING TWO PARAMETERS ARE FOR INTERVAL STATISTICS ONLY | | | | |
| (54) | ADDRESS | 4 | UEPSIVAL | ADDRESS OF INTERVAL TIME (HHMMSS) |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---------------------------------------|
| (58) | ADDRESS | 4 | UEPSIVN | ADDRESS OF INTERVAL NUMBER |
| (5C) | ADDRESS | 4 | UEPSCLD | ADDRESS OF COLLECTION DATE (MMDDYYYY) |
| XDUREQ PARAMETERS VALID RETURN CODES FOR XDUREQ ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS DUMP UERCPURG EQU X'20' PURGED check parm list hasn't already been generated by XDUREQ | | | | |
| (40) | ADDRESS | 4 | UEPDUMPC | ADDRESS OF COPY OF DUMP CODE |
| (44) | ADDRESS | 4 | UEPDUMPT | ADDRESS OF DUMP TYPE IDENTIFIER |
| EQUATES FOR DUMP TYPE IDENTIFIER | | | | |
| (44) | 111. ..11 | | UEPDTRAN | "C'T" TRANSACTION DUMP REQUEST |
| (44) | 111. ..1. | | UEPDSYST | "C'S" SYSTEM DUMP REQUEST |
| (48) | ADDRESS | 4 | UEPABCDE | ADDRESS OF COPY OF ABEND CODE |
| (4C) | ADDRESS | 4 | UEPXDCP | Address of dumpscope |
| (4C) |1 | | UEPXDLOC | "X'1" DUDT_LOCAL |
| (4C) |1. | | UEPXDREL | "X'2" DUDT_RELATED |
| (50) | ADDRESS | 4 | UEPDXTXN | Address of DUDT_TRANSACTION_DUMP |
| (50) |1 | | UEPXDYES | "X'1" DUDT_YES |
| (50) |1. | | UEPXDNO | "X'2" DUDT_NO |
| (54) | ADDRESS | 4 | UEPXDSYS | Address of DUDT_SYSTEM_DUMP |
| (58) | ADDRESS | 4 | UEPXDTRM | Address of DUDT_TERMINATE_CICS |
| (5C) | ADDRESS | 4 | UEPXDMAX | Address of DUDT_MAXIMUM_DUMPS |
| (60) | ADDRESS | 4 | UEPXCNT | Address of DUDT_COUNT |
| (64) | ADDRESS | 4 | UEPXDST | Address of DUDT_TRAN_DUMPS_TAKEN |
| UEPXDST addresses 4 consecutive fullwords which contain as binary integers the dump table statistics: TRAN_DUMPS_TAKEN, TRAN_DUMPS_SUPPRESSED, SYS_DUMPS_TAKEN SYS_DUMPS_SUPPRESSED. Comments in DFHDUDTR indicate that the corresponding DUDT fields must remain contiguous. | | | | |
| (68) | ADDRESS | 4 | UEPXDDAE | Address of DUDT_DAEPTION |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|--------------|--|
| (6C) | ADDRESS | 4 | UEPDMPID | Address of the dump ID string |
| (70) | ADDRESS | 4 | UEPDURQE (0) | End of parms shared with XDUREQC |
| (70) | ADDRESS | 4 | UEPFMOD | Address of name of failing module |
| XDUCLE PARAMETERS VALID RETURN CODES FOR XDUCLE ARE: UERCNORM EQU X'00' NORMAL UERCSWCH EQU X'04' DON'T SWITCH AUTOSWITCH OFF. UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | UEPDMPDD | ADDRESS OF DUMP DATASET DDNAME |
| (44) | ADDRESS | 4 | UEPDMPDSN | ADDRESS OF DUMP DATASET DSNAME |
| XDUOUT PARAMETERS VALID RETURN CODES FOR XDUOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS DUMP BUFFER OUTPUT (APPLICABLE ONLY FOR UEDMPWR) UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | UEPDMPFC | ADDRESS OF XDUOUT FUNCTION CODE |
| EQUATES FOR XDUOUT FUNCTION CODE | | | | |
| (40) | .... .... |  | UEPDMPWR | "X'00'" BUFFER ABOUT TO BE WRITTEN |
| (40) |1.. | | UEPDMPRE | "X'04'" DUMP ABOUT TO RESTART AFTER AUTO-SWITCH |
| (40) | 1... | | UEPDMPAB | "X'08'" ABNORMAL TERMINATION OF DUMP |
| (40) | 11.. | | UEPDMPDY | "X'0C'" BUFFER ABOUT TO BE WRITTEN TO DUMMY FILE |
| UEPDMPBF AND UEPDMPLEN ARE ZERO WHEN UEPDMPFC IS UEPDMPRE OR UEPDMPAB | | | | |
| (44) | ADDRESS | 4 | UEPDMPBF | ADDRESS OF DUMP BUFFER |
| (48) | ADDRESS | 4 | UEPDMPLEN | ADDRESS OF DUMP BUFFER LENGTH |
| XDUREQC PARAMETERS ONLY VALID RETURN CODE FOR XDUREQ IS: UERCNORM EQU X'00' NORMAL check parm list hasn't already been generated by XDUREQ | | | | |
| (70) | ADDRESS | 4 | UEPDRESP | Address of DUDU_RESPONSE |
| Equates for dump response code | | | | |
| (70) |1 | | UEPDRPOK | "X'01'" DUDU_OK |
| (70) |1. | | UEPDRPEX | "X'02'" DUDU_EXCEPTION |
| (70) |11. | | UEPDRPPR | "X'06'" DUDU_PURGED |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|------------|---|
| (74) | ADDRESS | 4 | UEPDREAS | Address of DUDU_REASON |
| Equates for dump reason code | | | | |
| (74) |1 | | UEPDRSOE | "X'01" DUDU_OPEN_ERROR |
| (74) |1. | | UEPDRSNO | "X'02" DUDU_NOT_OPEN |
| (74) |11 | | UEPDRSID | "X'03" DUDU_INVALID_ DUMPCODE |
| (74) |1.. | | UEPDRSPT | "X'04" DUDU_PARTIAL_ TRANSACTION_DUMP |
| (74) |1.1 | | UEPDRSS1 | "X'05" DUDU_SUPPRESSED_ BY_DUMPOPTION |
| (74) |11. | | UEPDRSS2 | "X'06" DUDU_SUPPRESSED_ BY_DUMPTABLE |
| (74) |111 | | UEPDRSS3 | "X'07" DUDU_SUPPRESSED_ BY_USEREXIT |
| (74) | 1... | | UEPDRSPS | "X'08" DUDU_PARTIAL_ SYSTEM_DUMP |
| (74) | 1.1. | | UEPDRSSB | "X'0A" DUDU_SDUMP_BUSY |
| (74) | 1.11 | | UEPDRSSA | "X'0B" DUDU_SDUMP_NOT_ AUTHORIZED |
| (74) | 11.1 | | UEPDRSND | "X'0D" DUDU_NO_DATASET |
| XDSBWT PARAMETERS VALID RETURN CODES FOR XDSBWT ARE: UERCNORM EQU X'00' NORMAL UERCSSWAP EQU X'04' ISSUE SYSEVENT TO ALLOW ADDRESS-SPACE SWAPPING XDSBWT HAS NO UNIQUE PARAMETERS XDSAWT PARAMETERS VALID RETURN CODES FOR XDSAWT ARE: UERCNORM EQU X'00' NORMAL UERCNOSW EQU X'08' ISSUE SYSEVENT TO SUPPRESS ADDRESS-SPACE SWAPPING | | | | |
| (30) | ADDRESS | 4 | | RESERVED |
| (34) | ADDRESS | 4 | | RESERVED |
| (38) | ADDRESS | 4 | | RESERVED |
| (3C) | ADDRESS | 4 | | RESERVED |
| (40) | ADDRESS | 4 | UEPSYSRC | ADDRESS OF SYSEVENT RETURN CODE |
| XRSINDI PARAMETERS VALID RETURN CODES FOR XRSINDI ARE: UERCNORM EQU X'00' NORMAL (default). UERCPUrg EQU X'20' PURGED | | | | |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--------------|-----|------------|--|
| (40) | ADDRESS | 4 | UEPIDREQ | Address of INSTALL/DISCARD ident(byte) Possible values of the identifier: |
| (40) |1 | | UEIDINS | "1" for INSTALL requests |
| (40) |1. | | UEIDDIS | "2" for DISCARD requests |
| (44) | ADDRESS | 4 | UEPIDNAM | Address of resource name |
| (48) | ADDRESS | 4 | UEPIDLEN | Address of resource name length (word) |
| (4C) | ADDRESS | 4 | UEPIDNUM | Address of resource name number (word) |
| (50) | ADDRESS | 4 | UEPIDTYP | Address of resource type (byte) Possible values of the type: |
| (50) |1 | | UEIDTRAN | "1" Transaction |
| (50) |1. | | UEIDPROF | "2" Profile |
| (50) |11 | | UEIDPROG | "3" Program |
| (50) |1.. | | UEIDMAP | "4" Mapset |
| (50) |1.1 | | UEIDPSET | "5" Partitionset |
| (50) |11. | | UEIDTERM | "6" Terminal |
| (50) |111 | | UEIDCONN | "7" Connection |
| (50) |1... | | UEIDMODE | "8" Modename |
| (50) |1.1 | | UEIDSESS | "9" Session |
| (50) |1.1. | | UEIDFILE | "10" File |
| (50) |1.11 | | UEIDPART | "11" Partner |
| (50) |11.. | | UEIDTCLS | "12" TCLASS |
| (50) |11.1 | | UEIDAITM | "13" Autoinstall terminal model |
| (50) |111. | | UEIDFECO | "14" FEPI Connection |
| (50) |1111 | | UEIDFENO | "15" FEPI Node |
| (50) | ...1 | | UEIDFEPO | "16" FEPI Pool |
| (50) | ...1 ...1 | | UEIDFEPS | "17" FEPI Propertyset |
| (50) | ...1 ...1. | | UEIDFETA | "18" FEPI Target |
| (50) | ...1 ...11 | | UEIDTDQU | "19" TD queue |
| (50) | ...1 ...1.. | | UEIDJNMD | "20" Journalmodel |
| (50) | ...1 ...1.1 | | UEIDJNNM | "21" Journalname |
| (50) | ...1 ...11. | | UEIDSTRM | "22" Log Stream name |
| (50) | ...1 ...111 | | UEIDDB2C | "23" DB2 Connection (DB2CONN) |
| (50) | ...1 ...1... | | UEIDDB2E | "24" DB2 Entry (DB2ENTRY) |
| (50) | ...1 ...1.1 | | UEIDDB2T | "25" DB2 Transaction (DB2TRAN) |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (50) | ...1 1.11 | | UEIDTSMD | "27" Tsmode1 |
| (50) | ...1 11.. | | UEIDPRTY | "28" Processtype |
| (50) | ...1 1.1. | | UEIDNQRN | "26" NQR name |
| UEIDRQMD 29 was Request model (IIOP) | | | | |
| (50) | ...1 111. | | UEIDTCPS | "30" Tcpipservice |
| (50) | ...1 1111 | | UEIDDOCT | "31" Doctemplate |
| UEIDCSRV 32 was EJ CorbaServer UEIDDJAR 33 was EJ DJar UEIDBEAN 34 was EJ Bean | | | | |
| (50) | ..1. ..11 | | UEIDURIM | "35" URIMAP |
| (50) | ..1. .1.. | | UEIDWEBS | "36" WebService |
| (50) | ..1. .1.1 | | UEIDPIPE | "37" Pipeline |
| (50) | ..1. .11. | | UEIDIPCO | "38" IPCONN |
| (50) | ..1. .111 | | UEIDLBYR | "39" LIBRARY |
| (50) | ..1. 1... | | UEIDBNDL | "40" Bundle |
| (50) | ..1. 1.1 | | UEIDATOM | "41" Atomservice |
| (50) | ..1. 1.1. | | UEIDMQCN | "42" MQ Connection (MQCONN) |
| (50) | ..1. 1.11 | | UEIDMQIN | "43" MQ Initiation Queue (MQINI) |
| (50) | ..1. 11.. | | UEIDEVNT | "44" Eventbinding |
| (50) | ..1. 11.1 | | UEIDXMLT | "45" XmlTransform |
| (50) | ..1. 111. | | UEIDJSRV | "46" JVMServer |
| (50) | ..1. 1111 | | UEIDEVCS | "47" Event Capture Specification |
| (50) | ..11 | | UEIDEPAD | "48" EP adapter |
| (50) | ..11 ...1 | | UEIDOSGB | "49" OSGi bundle |
| (50) | ..11 ..1. | | UEIDEPAS | "50" EP adapter set |
| (50) | ..11 ..11 | | UEIDMPPP | "51" MP Policy |
| (50) | ..11 .1.. | | UEIDWARB | "52" WAR Bundle |
| (50) | ..11 .1.1 | | UEIDEBAB | "53" EBA Bundle |
| (54) | ADDRESS | 4 | UEPIDREC | Recoverability This indicates that: |
| (54) |1 | | UEIDKEEP | "1" the resource will be recovered |
| (54) |1. | | UEIDLOSE | "2" the resource will not be recovered Resource Signature |
| (58) | ADDRESS | 4 | UEPDEFTM | Address of define time (STCK) |
| (5C) | ADDRESS | 4 | UEPCHUSR | Address of change userid (CL8) |
| (60) | ADDRESS | 4 | UEPCHAGT | Address of change agent (H) |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|--------------|-----|------------|--|
| (64) | ADDRESS | 4 | UEPCHREL | Address of change release (CL4) |
| (68) | ADDRESS | 4 | UEPCHTIM | Address of change time (STCK) |
| (6C) | ADDRESS | 4 | UEPDEFSRC | Address of definition group (CL8) |
| (70) | ADDRESS | 4 | UEPINUSR | Address of install userid (CL8) |
| (74) | ADDRESS | 4 | UEPINTIM | Address of install time (STCK) |
| (78) | ADDRESS | 4 | UEPINAGT | Address of install agent (H) Possible values of change/install agents |
| (78) | .... .... |  | UEPUNKAGT | "0" Unknown agent |
| (78) |1 | | UEPCSDAPI | "1" CSDAPI (CEDA) |
| (78) |1. | | UEPCSDBAT | "2" CSDBATCH (DFHCSDUP) |
| (78) |11 | | UEPDRPAPI | "3" DREP API (CPSM) |
| (78) |1.. | | UEPCRESPI | "4" CREATE SPI |
| (78) |1.1 | | UEPGRPLST | "5" GRPLIST |
| (78) |11. | | UEPAUTOIN | "6" AUTOINSTALL |
| (78) |111 | | UEPSYSTEM | "7" SYSTEM |
| (78) |1... | | UEPDYNAMC | "8" DYNAMIC |
| (78) |1..1 | | UEPBUNDLE | "9" BUNDLE |
| (78) |1.1. | | UEPTABLE | "10" TABLE |
| (7C) | ADDRESS | 4 | UEPAPPTK | Address of Application token |
| (80) | ADDRESS | 4 | UEPAPCTXT | Address of Application Context |
| XXMATT PARAMETERS VALID RETURN CODES FOR XXMATT ARE: UERCNORM EQU X'00' NORMAL (default). | | | | |
| (40) | ADDRESS | 4 | UEPATPTI | Address of primary transaction id. |
| (44) | ADDRESS | 4 | UEPATOTI | Address of attach transaction id. (A tran. id. of X'00000000' indicates that no tran. id. was supplied on the attach.) |
| (48) | ADDRESS | 4 | UEPATTPL | Address of attach tpname length (word) (A length of 0 indicates that a tpname was not supplied on the attach.) |
| (4C) | ADDRESS | 4 | UEPATTPA | Addr of addr of attach tpname (word) |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|------------|---|
| (50) | ADDRESS | 4 | UEPATLOC | Address of locate result (byte) Possible values of the locate result: |
| (50) |1 | | UEATFND | "1" Transaction was found |
| (50) |1. | | UEATNFND | "2" Transaction was not found |
| (54) | ADDRESS | 4 | UEPATTST | Address of trandef state (byte) Possible values of the trandef state: |
| (54) |1 | | UEATENAB | "1" Transaction is enabled |
| (54) |1. | | UEATDISA | "2" Transaction is disabled |
| (58) | ADDRESS | 4 | UEPATTTK | Address of transaction token |
| XFAINTU PARAMETERS VALID RETURN CODES FOR XFAINTU ARE: UERCNORM EQU X'00' NORMAL (default). | | | | |
| (30) | ADDRESS | 4 | UEPFAREQ | Address of request byte Possible values of the request byte: |
| (30) |1 | | UEPFAIN | "1" Initialise request |
| (30) |1. | | UEPFATU | "2" Tidy Up request |
| (34) | ADDRESS | 4 | UEPFATUT | Address of Tidy Up type byte Possible values of the type byte: |
| (34) |1 | | UEPFANTU | "1" Normal tidy up |
| (34) |1. | | UEPFAETU | "2" Expired tidy up |
| (38) | ADDRESS | 4 | UEPFANAM | Address of Facility name |
| (3C) | ADDRESS | 4 | UEPFATYP | Address of Facility type Possible values of the type byte: |
| (3C) |1 | | UEPFABR | "1" 3270 Bridge facility |
| (40) | ADDRESS | 4 | UEPFAUAA | Address of Facility User Area |
| (44) | ADDRESS | 4 | UEPFAUAL | Address of User Area length byte |
| (48) | ADDRESS | 4 | UEPFATK | Address of Facility Token |
| (4C) | ADDRESS | 4 | UEPFAMCH | Address of Start Mechanism byte Possible values of UEPFAMCH |
| (4C) |1 | | UEPFASTA | "1" Started using START BREXIT |
| (4C) |1. | | UEPFALNK | "2" Started using LINK |
| (50) | ADDRESS | 4 | UEPFAREG | Address of Region Type Byte Possible values of UEPFAREG |
| (50) |1 | | UEPFAROU | "1" Router for Bridge Facility |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|------------------------------------|
| (50) |1. | | UEPFAAOR | "2" AOR for Bridge Facility |
| XDLPRE PARAMETERS VALID RETURN CODES FOR XDLPRE ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' BYPASS DL/1 REQUEST AND RETURN UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPCTYPE | ADDRESS OF TYPE OF REQUEST BYTE |
| EQUATES FOR TYPE OF REQUEST BYTE | | | | |
| (30) | 11.. .1.1 | | UEPCEXEC | "C'E" EXEC REQUEST |
| (30) | 11.. ..11 | | UEPCCALL | "C'C" CALL REQUEST |
| (30) | 11.. .11. | | UEPCSHIP | "C'F" FUNCTION SHIPPED REQUEST |
| (34) | ADDRESS | 4 | UEAPLIST | ADDRESS OF APPLICATION'S PARM LIST |
| (38) | ADDRESS | 4 | UEPLANG | ADDRESS OF LANGUAGE CALL TYPE BYTE |
| EQUATES FOR LANGUAGE BYTE | | | | |
| (38) | 11.1 .111 | | UEPPLI | "C'P" PLI |
| (38) | 11.. ..11 | | UEPCBL | "C'C" COBOL |
| (38) | 11.. ...1 | | UEPASM | "C'A" ASSEMBLER |
| (38) | 11.. 1..1 | | UEPAIB | "C'I" AIB |
| (3C) | ADDRESS | 4 | UEPIOAX | ADDRESS OF IO AREA EXISTENCE FLAG |
| EQUATE FOR IO AREA EXISTENCE BYTE | | | | |
| (3C) |1 | | UEPIOA1 | "X'01" IO AREA EXISTS |
| (40) | ADDRESS | 4 | UEPIOA | ADDRESS OF IO AREA |
| (44) | ADDRESS | 4 | UEPPSBNX | ADDRESS OF PSB EXISTENCE FLAG |
| EQUATE FOR PSB EXISTENCE BYTE | | | | |
| (44) |1. | | UEPPSB1 | "X'02" PSB EXISTS |
| (48) | ADDRESS | 4 | UEPPSBNM | ADDRESS OF PSB |
| (4C) | ADDRESS | 4 | UEPSYSDX | ADDRESS OF SYSID EXISTENCE FLAG |
| EQUATE FOR SYSID EXISTENCE BIT | | | | |
| (4C) |11 | | UEPSYS1 | "X'03" SYSID EXISTS |
| (50) | ADDRESS | 4 | UEPSYSID | ADDRESS OF SYSID |
| XDLIPOST PARAMETERS VALID RETURN CODES FOR XDLIPOST ARE: UERCNORM EQU X'00' NORMAL UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCTYPE - AS DEFINED ABOVE |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (34) | ADDRESS | 4 | | UEPAPLIST - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPLANG - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPIOAX - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPIOA - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | UEPUIBX | ADDRESS OF UIB EXISTENCE FLAG |
| EQUATE FOR UIB EXISTENCE BYTE | | | | |
| (44) |1.. | | UEPUIB1 | "X'04" UIB EXISTS |
| (48) | ADDRESS | 4 | UEPUIB | ADDRESS OF UIB |
| XMEOUT PARAMETERS VALID RETURN CODES FOR XMEOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' Suppress (bypass) the messages for all destinations. | | | | |
| (40) | ADDRESS | 4 | UEPMNUM | Address of 4 byte message number |
| (44) | ADDRESS | 4 | UEPMDOM | Address of 2 byte dom id (or blank) |
| (48) | ADDRESS | 4 | UEPMROU | Address of array of up to 128 route codes |
| (4C) | ADDRESS | 4 | UEPMNRC | Address of h/word containing number of route codes in array. |
| (50) | ADDRESS | 4 | UEPMTDQ | Address of array of 4 char names of TD queues to send messages to |
| (54) | ADDRESS | 4 | UEPMNTD | Address of h/word containing number of TDQs in the TDQ array |
| (58) | ADDRESS | 4 | UEPINSN | Address of 2 byte number of inserts |
| (5C) | ADDRESS | 4 | UEPINSA | Address of message inserts |
| (60) | ADDRESS | 4 | UEPNRTE | Address of no re-route flag |
| (64) | ADDRESS | 4 | UEPCPID | Address of 3-byte product id |
| (68) | ADDRESS | 4 | UEPCPDOM | Address of new 2-byte domain id |
| (6C) | ADDRESS | 4 | UEPCPNUM | Address of new 4-byte msg number |
| (70) | ADDRESS | 4 | UEPCPSEV | Address of message severity code |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|--------------------------------------|
| XSTERM PARAMETERS VALID RETURN CODES FOR XSTERM ARE: UERCNORM EQU X'00' NORMAL There are no exit specific parameters for this exit. XSRAB PARAMETERS VALID RETURN CODES FOR XSRAB ARE: UERCNOCA EQU X'00' Abend task ASRB, don't cancel exits UERCCANC EQU X'04' Abend task ASRB, cancel exits UERCCICS EQU X'08' Abend CICS | | | | |
| (30) | ADDRESS | 4 | UEPERROR | ADDRESS OF SRP_ERROR_DATA |
| XSZBRQ PARAMETERS VALID RETURN CODES FOR XSZBRQ ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' NOOP THE CALL | | | | |
| (30) | BITSTRING | 2 | UEPSZACT | FEPI Command Code |
| (32) | BITSTRING | 2 | | Unused |
| (34) | CHARACTER | 8 | UEPSZCNV | CONVID |
| (3C) | CHARACTER | 8 | UEPSZALP | POOL |
| (44) | CHARACTER | 8 | UEPSZALT | TARGET |
| (4C) | FULLWORD | 4 | UEPSZTIM | TIMEOUT |
| (50) | ADDRESS | 4 | UEPSZSND | Addr of Outbound Data |
| (54) | FULLWORD | 4 | UEPSZSNL | Len of Outbound Data |
| (58) | CHARACTER | 4 | UEPSZSTT | TRANSID for START |
| (5C) | CHARACTER | 4 | UEPSZSTM | TERMID for START |
| (60) | BITSTRING | 1 | UEPSZSNK | KEYSTROKE Flag |
| (60) | 1... | | UEPSZSNK_ON | "X'80'" Active |
| (60) | .... .... |  | UEPSZSNK_OFF | "X'00'" InActive |
| (61) | BITSTRING | 1 | UEPSZSNE | ESCAPE Byte |
| XSZARQ PARAMETERS VALID RETURN CODES FOR XSZARQ ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | BITSTRING | 2 | UEPSZACN | FEPI Command Code |
| (32) | BITSTRING | 2 | | Unused |
| (34) | CHARACTER | 8 | UEPSZCON | CONVID |
| (3C) | FULLWORD | 4 | UEPSZRP2 | Response Code |
| (40) | ADDRESS | 4 | UEPSZRVD | Addr of Inbound Data |
| (44) | FULLWORD | 4 | UEPSZRVL | Len of Inbound Data Command Codes |
| (44) | BITSTRING | 0 | UEPSZNOA | "X'820E'" AP NOOP |
| (44) | BITSTRING | 0 | UEPSZOAL | "X'8210'" ALLOCATE |
| (44) | BITSTRING | 0 | UEPSZOCF | "X'8212'" CONVERSE FORMATTED |
| (44) | BITSTRING | 0 | UEPSZOCD | "X'8214'" CONVERSE DATASTREAM |
| (44) | BITSTRING | 0 | UEPSZOXC | "X'8216'" EXTRACT CONV |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (44) | BITSTRING | 0 | UEPSZOXF | "X'8218'" EXTRACT FIELD |
| (44) | BITSTRING | 0 | UEPSZOXS | "X'821A'" EXTRACT STSN |
| (44) | BITSTRING | 0 | UEPSZOFR | "X'821C'" FREE |
| (44) | BITSTRING | 0 | UEPSZOSU | "X'821E'" ISSUE |
| (44) | BITSTRING | 0 | UEPSZORF | "X'8220'" RECEIVE FORMATTED |
| (44) | BITSTRING | 0 | UEPSZORD | "X'8222'" RECEIVE DATASTREAM |
| (44) | BITSTRING | 0 | UEPSZOSF | "X'8224'" SEND FORMATTED |
| (44) | BITSTRING | 0 | UEPSZOSD | "X'8226'" SEND DATASTREAM |
| (44) | BITSTRING | 0 | UEPSZOST | "X'8228'" START |
| (44) | BITSTRING | 0 | UEPSZSDN | "X'8402'" Normal Shutdown |
| (44) | BITSTRING | 0 | UEPSZSDI | "X'8404'" Immediate Shutdown |
| (44) | BITSTRING | 0 | UEPSZSDF | "X'8406'" Forced Shutdown |
| (44) | BITSTRING | 0 | UEPSZEOT | "X'8408'" CICS End of Task |
| (44) | BITSTRING | 0 | UEPSZNOS | "X'840E'" SP NOOP |
| (44) | BITSTRING | 0 | UEPSZOQY | "X'8422'" INQUIRE PROPERTYSET |
| (44) | BITSTRING | 0 | UEPSZOIY | "X'8428'" INSTALL PROPERTYSET |
| (44) | BITSTRING | 0 | UEPSZODY | "X'8430'" DISCARD PROPERTYSET |
| (44) | BITSTRING | 0 | UEPSZOQN | "X'8442'" INQUIRE NODE |
| (44) | BITSTRING | 0 | UEPSZOTN | "X'8444'" SET NODE |
| (44) | BITSTRING | 0 | UEPSZOIN | "X'8448'" INSTALL NODE |
| (44) | BITSTRING | 0 | UEPSZOAD | "X'844A'" ADD POOL |
| (44) | BITSTRING | 0 | UEPSZODE | "X'844C'" DELETE POOL |
| (44) | BITSTRING | 0 | UEPSZODN | "X'8450'" DISCARD NODE |
| (44) | BITSTRING | 0 | UEPSZOQP | "X'8462'" INQUIRE POOL |
| (44) | BITSTRING | 0 | UEPSZOTP | "X'8464'" SET POOL |
| (44) | BITSTRING | 0 | UEPSZOIP | "X'8468'" INSTALL POOL |
| (44) | BITSTRING | 0 | UEPSZODP | "X'8470'" DISCARD POOL |
| (44) | BITSTRING | 0 | UEPSZOQT | "X'8482'" INQUIRE TARGET |
| (44) | BITSTRING | 0 | UEPSZOTT | "X'8484'" SET TARGET |
| (44) | BITSTRING | 0 | UEPSZOIT | "X'8488'" INSTALL TARGET |
| (44) | BITSTRING | 0 | UEPSZODT | "X'8490'" DISCARD TARGET |
| (44) | BITSTRING | 0 | UEPSZOQC | "X'84A2'" INQUIRE CONNECTION |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|------------------------------------|
| (44) | BITSTRING | 0 | UEPSZOTC | "X'84A4'" SET CONNECTION |
| XPCHAIR PARAMETERS VALID RETURN CODES FOR XPCHAIR ARE: UERCNORM EQU X'00' NORMAL UERCMEA EQU X'04' ENTRY POINT HAS BEEN MODIFIED UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPPCDS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTACB - AS DEFINED ABOVE |
| XPCTA PARAMETERS VALID RETURN CODES FOR XPCTA ARE: UERCNORM EQU X'00' NORMAL UERCMEA EQU X'04' ENTRY POINT HAS BEEN MODIFIED UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPPCDS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTACB - AS DEFINED ABOVE |
| XEIIIN PARAMETERS VALID RETURN CODES FOR XEIIIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPARG | ADDRESS OF COMMAND LEVEL PLIST |
| (34) | ADDRESS | 4 | UEPEXECB | ADDRESS OF EXEC INTERFACE BLOCK |
| (38) | ADDRESS | 4 | UEPUSID | ADDRESS OF TASK USERID |
| (3C) | ADDRESS | 4 | UEPPGM | ADDRESS OF PROGRAM NAME |
| (40) | ADDRESS | 4 | UEPLOAD | PROGRAM LOAD ADDRESS |
| (44) | ADDRESS | 4 | UEPRSA | ADDRESS OF APPL REGISTER SAVE AREA |
| (48) | ADDRESS | 4 | UEP_EL_PBTOK | ADDRESS OF PB TOKEN |
| XEIIOUT PARAMETERS VALID RETURN CODES FOR XEIIOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPARG - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPEXECB - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPUSID - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPPGM - AS DEFINED ABOVE |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|---------------------------------|
| (40) | ADDRESS | 4 | | UEPLOAD - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPRSA - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEP_EL_PBTOK - AS DEFINED ABOVE |
| XEISPIN PARAMETERS VALID RETURN CODES FOR XEISPIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPARG - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPEXECB - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPUSID - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPPGM - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPLOAD - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPRSA - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEP_EL_PBTOK - AS DEFINED ABOVE |
| XEISPOUT PARAMETERS VALID RETURN CODES FOR XEISPOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPARG - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPEXECB - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPUSID - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPPGM - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPLOAD - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPRSA - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEP_EL_PBTOK - AS DEFINED ABOVE |
| XSSEX PARAMETERS VALID RETURN CODES FOR XSSEX ARE: UERCPREV EQU X'04' PREVIOUS SIGNON BEHAVIOR | | | | |
| XSNON PARAMETERS VALID RETURN CODES FOR XSNON ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|------------|--------------------------------------|
| (30) | ADDRESS | 4 | UEPUSRID | ADDRESS OF TERMINAL USERID |
| (34) | ADDRESS | 4 | UEPUSRLN | ADDRESS OF TERMINAL USERID LENGTH |
| (38) | ADDRESS | 4 | UEPGRPID | ADDRESS OF GROUP ID |
| (3C) | ADDRESS | 4 | UEPGRPLN | ADDRESS OF GROUP ID LENGTH |
| (40) | ADDRESS | 4 | UEPNETN | ADDRESS OF NETNAME |
| (44) | ADDRESS | 4 | UEPTRMID | ADDRESS OF TERMINAL ID |
| (48) | ADDRESS | 4 | UEPTCTUA | ADDRESS OF TCT USER AREA |
| (4C) | ADDRESS | 4 | UEPTCTUL | ADDRESS OF TCT USER AREA LENGTH |
| (50) | ADDRESS | 4 | UEPTRMTY | ADDRESS OF TERMINAL TYPE BYTE |
| Terminal Type is derived from the DEVICE attribute of the TERMTYPE RD0 resource. | | | | |
| (54) | ADDRESS | 4 | UEPSNFLG | ADDRESS OF SIGNON/OFF FLAG BYTES |
| equates for Signon/off flag byte1 | | | | |
| (54) | .... .... |  | UEPSNOK | "0" Sign-on/off successful |
| (54) |1 | | UEPSNFL | "1" Sign-on/off failed |
| (54) |1. | | UEPSNPSS | "2" PS signon sucessful |
| (54) |11 | | UEPSNPSF | "3" PS signon failed |
| equates for Signon/off flag byte2 | | | | |
| (54) | .... .... |  | UEPSNNML | "0" Normal sign-on/off (not timeout) |
| (54) |1 | | UEPSNTIM | "1" Timeout sign-off |
| XSNOFF PARAMETERS VALID RETURN CODES FOR XSNOFF ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPUSRID - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPUSRLN - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPGRPID - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPGRPLN - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPNETN - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTRMID - AS DEFINED ABOVE |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------|-----|--------------|----------------------------------|
| (48) | ADDRESS | 4 | | UEPTCTUA - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPTCTUL - AS DEFINED ABOVE |
| (50) | ADDRESS | 4 | | UEPTRMTY - AS DEFINED ABOVE |
| (54) | ADDRESS | 4 | | UEPSNFLG - AS DEFINED ABOVE |
| XRMIIN PARAMETERS VALID RETURN CODES FOR XRMIIN ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPTRUEN | ADDRESS OF NAME OF TRUE |
| (34) | ADDRESS | 4 | UEPTRUEP | ADDRESS OF TRUE's PARAMETER LIST |
| (38) | ADDRESS | 4 | UEP_RM_PBTOK | ADDRESS OF PB TOKEN |
| (3C) | ADDRESS | 4 | | RESERVED |
| (40) | ADDRESS | 4 | | RESERVED |
| (44) | ADDRESS | 4 | | RESERVED |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| XRMIOUT PARAMETERS VALID RETURN CODES FOR XRMIOUT ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPTRUEN - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTRUEP - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEP_RM_PBTOK - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | RESERVED |
| (40) | ADDRESS | 4 | | RESERVED |
| (44) | ADDRESS | 4 | | RESERVED |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|--|
| XFCBFAIL PARAMETERS VALID RETURN CODES FOR XFCBFAIL ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) UERCBYP EQU X'04' BYPASS (IGNORE ERROR) VALID VALUES FOR UEPFCRSP ARE: UEDUPREC EQU X'10' DUPLICATE KEY ON UNIQUE AIX UENOSPAC EQU X'20' NO SPACE AVAILABLE UEIOEROR EQU X'24' I/O ERROR UENOLDEL EQU X'40' LOGICAL DELETE BYPASSED UENBWBK EQU X'41' NON-BWO BACKUP IN PROGRESS UEDLOCK EQU X'B0' DEADLOCK UERLSERR EQU X'C0' VSAM RLS FAILURE DETECTED UERLSDIS EQU X'C1' VSAM RLS ACCESS DISABLED UERLSCON EQU X'C2' CONTINUATION OF RLS REQUEST DISABLED UECACHE EQU X'C3' VSAM RLS CACHE FAILURE UELCKFUL EQU X'C4' VSAM LOCK STRUCTURE FULL UEAIXFUL EQU X'F0' NO SPACE IN NON_UNIQUE AIX UEOPENER EQU X'FB' FILE OPEN ERROR UEUNEXP EQU X'FE' UNEXPECTED ERROR VALID VALUES FOR UEPERR ARE: XBFENO EQU X'00' NO ERROR XBFERU EQU X'01' READ UPDATE ERROR XBFERE EQU X'04' REWRITE ERROR XBFEWR EQU X'08' WRITE ERROR XBFEDL EQU X'20' DELETE ERROR | | | | |
| (30) | ADDRESS | 4 | UEPBLOGR | ADDRESS OF LOG RECORD BEING BACKED OUT |
| (34) | ADDRESS | 4 | UEPTRANS | ADDRESS OF TRANSACTION ID |
| (38) | ADDRESS | 4 | UEPTRMNL | ADDRESS OF TERMINAL ID |
| (3C) | ADDRESS | 4 | UEPTASK | ADDRESS OF TASK NUMBER |
| (40) | ADDRESS | 4 | UEPFCRSP | ADDRESS OF FILE CONTROL RESPONSE BYTE |
| (44) | ADDRESS | 4 | UEPERR | ADDRESS OF ERROR-TYPE BYTE |
| XFCLDEL PARAMETERS VALID RETURN CODES FOR XFCLDEL ARE: UERCFAIL EQU X'00' TREAT AS BACKOUT FAILURE UERCLDEL EQU X'04' LOGICALLY DELETE RECORD BY REAPPLYING | | | | |
| (30) | ADDRESS | 4 | | UEPBLOGR - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTRANS - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPTRMNL - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPTASK - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | UEPFDATA | ADDRESS OF DATA TO LOGICALLY DELETE |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|------------|--------------------------------------|
| (44) | ADDRESS | 4 | UEPFLEN | ADDRESS OF FULLWORD LENGTH OF DATA |
| XFCBOVER PARAMETERS VALID RETURN CODES FOR XFCBOVER ARE: UERCNORM EQU X'00' DO NOT BACKOUT LOG RECORD UERCBCKO EQU X'04' PERFORM THE BACKOUT OF THE LOG RECORD | | | | |
| (30) | ADDRESS | 4 | UEPOLOGR | ADDRESS OF OVERRIDEN LOG RECORD |
| (34) | ADDRESS | 4 | UEPODSN | ADDRESS OF OVERRIDEN DATA SET |
| XFCBOUT PARAMETERS THE ONLY VALID RETURN CODE FOR XFCBOUT IS: UERCNORM EQU X'00' CONTINUE PROCESSING | | | | |
| (30) | ADDRESS | 4 | UEPFLOGR | ADDRESS OF FC LOG RECORD |
| XLGSTRM PARAMETERS VALID RETURN CODES FOR XLGSTRM ARE: UERCNORM EQU X'00' NORMAL (DEFINE STREAM) UERCBYP EQU X'04' BYPASS (DO NOT DEFINE STREAM) VALID VALUES FOR UEPLGTYP ARE: UEPSYSLG EQU X'01' SYSTEM LOG UEPGENLG EQU X'02' GENERAL LOG | | | | |
| (40) | ADDRESS | 4 | UEPLSN | ADDRESS OF 26-BYTE LOG STREAM NAME |
| (44) | ADDRESS | 4 | UEPMLSN | ADDRESS OF 26-BYTE MODEL STREAM NAME |
| (48) | ADDRESS | 4 | UEPIXG | ADDRESS OF IXGINVNT MACRO LIST FORM |
| (4C) | ADDRESS | 4 | UEPLGTYP | ADDRESS OF 1-BYTE LOG TYPE |
| (4C) |1 | | UEPSYSLG | "X'01'" SYSTEM LOG |
| (4C) |1. | | UEPGENLG | "X'02'" GENERAL LOG |
| XFCVSDS PARAMETERS Valid return codes for XFCVSDS are: UERCNORM EQU X'00' Normal (process VSAM RLS action) UERCBYP EQU X'04' Bypass (suppress VSAM RLS action) | | | | |
| (30) | ADDRESS | 4 | UEPDSNAM | Address of dataset name |
| (34) | ADDRESS | 4 | UEPVSACT | Address of VSAM RLS action (byte) |
| (38) | ADDRESS | 4 | UEPQUCLS | Address of close type (byte) |
| (3C) | ADDRESS | 4 | UEPCPTEC | Address of copy technique (byte) |
| Constants for byte addressed by UEPVSACT | | | | |
| (3C) |1 | | UEQUIES | "1" Quiesce dataset |
| (3C) |1. | | UEUNQUIS | "2" Unquiesce dataset |
| (3C) |11 | | UENBWST | "3" Non-BWO backup start |
| (3C) |1.. | | UENBWCMP | "4" Non-BWO backup complete |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|------------|---|
| (3C) |1.1 | | UEBWOST | "5" BWO backup start |
| (3C) |11. | | UEBWOCMP | "6" BWO backup complete |
| Constants for byte addressed by UEPQUCLS | | | | |
| (3C) |1 | | UEORDCLO | "1" Close files when syncpoint reached |
| (3C) |1. | | UEIMMCLO | "2" Close files immediately via purge |
| Constants for byte addressed by UEPCTEC | | | | |
| (3C) |1 | | UEORDCOP | "1" Concurrent copy will not be used |
| (3C) |1. | | UECONCOP | "2" Concurrent copy will be used |
| XFCQUIS PARAMETERS Valid return codes for XFCQUIS are: UERCNORM EQU X'00' Normal | | | | |
| (30) | ADDRESS | 4 | UEPQDSNM | Addr of dataset name |
| (34) | ADDRESS | 4 | UEPQSTAT | Addr of desired quiesce state (byte) |
| (38) | ADDRESS | 4 | UEPQRCDE | Addr of quiesce result (byte) |
| (3C) | ADDRESS | 4 | UEPQCONF | Addr of any conflicting quiesce (byte) |
| Constants for byte addressed by UEPQSTAT | | | | |
| (3C) |1 | | UEQSD | "1" Quiesced (normal close) requested |
| (3C) |1. | | UEIMQSD | "2" Quiesced (immediate close) requested |
| (3C) |11 | | UEUNQSD | "3" Unquiesced requested |
| Constants for byte addressed by UEPQRCDE | | | | |
| (3C) |1 | | UEQOK | "1" Successful |
| (3C) |1. | | UEQREJEC | "2" Rejected - see UEPQCONF for conflict |
| (3C) |11 | | UEQCANCL | "3" Failed - quiesce cancelled by user |
| (3C) |1.. | | UEQTIMED | "4" Failed - quiesce cancelled by timeout |
| (3C) |1.1 | | UEQIOERR | "5" Failed - i/o error or server failure |
| (3C) |11. | | UEQUNKNO | "6" Failed - dataset not DFSMS VSAM |
| (3C) |111 | | UEQMIGRT | "7" Failed - dataset migrated |
| Constants for byte addressed by UEPQCONF | | | | |
| (3C) |1 | | UEQUIINP | "1" Conflicting quiesce in progress |
| (3C) |1. | | UEUNQINP | "2" Conflicting unquiesce in progress |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|------------|--|
| (3C) |11 | | UENBWINP | "3" Conflicting non-BWO backup in progress |
| (3C) |1.. | | UEBWOINP | "4" Conflicting BWO backup in progress |
| (3C) |1.1 | | UEUNKINP | "5" Unknown conflicting event |
| XBADEACT PARAMETERS VALID RETURN CODES FOR XBADEACT ARE: UERCNORM EQU X'00' NORMAL check parm list hasn't already been generated by XBADEACT | | | | |
| (40) | ADDRESS | 4 | UEPACIN | ADDRESS OF ACTIVITY INDICATOR BYTE |
| EQUATES FOR ACTIVITY INDICATOR | | | | |
| (40) | 11.1 1..1 | | UEPROOT | "C'R" ROOT ACTIVITY |
| (40) | 11.. ..11 | | UEPCHILD | "C'C" CHILD ACTIVITY |
| (44) | ADDRESS | 4 | UEPACID | ADDRESS OF ACTIVITY ID |
| (48) | ADDRESS | 4 | UEPACNA | ADDRESS OF ACTIVITY NAME |
| (4C) | ADDRESS | 4 | UEPPRID | ADDRESS OF PROCESS ID |
| (50) | ADDRESS | 4 | UEPPRTY | ADDRESS OF PROCESS TYPE |
| (54) | ADDRESS | 4 | UEPPRNA | ADDRESS OF PROCESS NAME |
| (58) | ADDRESS | 4 | UEPARESP | ADDRESS OF COMPLETION CODE |
| (5C) | ADDRESS | 4 | UEPAABND | ADDRESS OF ABEND CODE |
| XBMIN PARAMETERS VALID RETURN CODES FOR XBMIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPBMTCT | ADDRESS OF TCTTE |
| (34) | ADDRESS | 4 | | UEPEXECB - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | UEPBMCNT | ADDRESS OF FIELD COUNT |
| (3C) | ADDRESS | 4 | UEPBMTAB | ADDRESS OF FIELD INFO TABLE |
| XBMOUOUT PARAMETERS VALID RETURN CODES FOR XBMOUOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPBMTCT - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPEXECB - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPBMCNT - AS DEFINED ABOVE |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (3C) | ADDRESS | 4 | | UEPBMTAB - AS DEFINED ABOVE |
| XWBOPEN PARAMETERS VALID RETURN CODES FOR XWBOPEN ARE: UERCNORM EQU X'00' INITIALISATION SUCCESSFUL UERCBARR EQU X'04' REMOTE HOST NAME IS BARRED UERCPROX EQU X'08' PROXY INFORMATION PROVIDED UERCERR EQU X'0C' ERROR OCCURRED IN EXIT PROCESSING check parm list hasn't already been generated by XWBOPEN | | | | |
| (40) | ADDRESS | 4 | UEPHOST | ADDRESS OF NAME OF HOST |
| (44) | ADDRESS | 4 | UEPHOSTL | ADDRESS OF HALFWORD LENGTH OF HOST |
| (48) | ADDRESS | 4 | (9) | Various other parms |
| (6C) | ADDRESS | 4 | UEPHOSTT | Address of a byte that describes the type of information found in UEPHOST |
| VALID values for UEPHOSTT are: | | | | |
| (6C) |1 | | UEPHSTNM | "X'01'" UEPHOST contains a host name |
| (6C) |1. | | UEPIPV4A | "X'02'" UEPHOST contains an IPV4 addr |
| (6C) |11 | | UEPIPV6A | "X'03'" UEPHOST contains an IPV6 addr |
| (48) | ADDRESS | 4 | UEPPROXY | ADDRESS OF ADDRESS OF PROXY |
| (4C) | ADDRESS | 4 | UEPPROXYL | ADDRESS OF HALFWORD LENGTH OF PROXY |
| XWBSNDO PARAMETERS VALID RETURN CODES FOR XWBSNDO ARE: UERCNORM EQU X'00' PATH PERMITTED UERCBARR EQU X'04' PATH NOT PERMITTED check parm list hasn't already been generated by XWBSNDO | | | | |
| UEPHOST DS A ADDRESS OF NAME OF HOST UEPHOSTL DS A ADDRESS OF HALFWORD LENGTH OF HOST DS 9A Various other parms UEPHOSTT DS A Address of a byte that describes the type of information found in UEPHOST VALID values for UEPHOSTT are: UEPHSTNM EQU X'01' UEPHOST contains a host name UEPIPV4A EQU X'02' UEPHOST contains an IPV4 addr UEPIPV6A EQU X'03' UEPHOST contains an IPV6 addr UEPHOST, UEPHOSTL, UEPHOSTT PREVIOUSLY DEFINED | | | | |
| (48) | ADDRESS | 4 | UEPPATH | ADDRESS OF PATH SPECIFIED ON SEND |
| (4C) | ADDRESS | 4 | UEPPATHL | ADDRESS OF HALFWORD LENGTH OF PATH |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|-------------------------------------|
| XWBAUTH PARAMETERS VALID RETURN CODES FOR XWBAUTH ARE: UERCNORM EQU X'00' CREDENTIALS SUPPLIED UERCBYP EQU X'04' CREDENTIALS OMITTED. BYPASS AUTHENTICATION UERCERR EQU X'0C' CREDENTIALS OMITTED. SIGNAL EXIT ERROR | | | | |
| UEPHOST DS A ADDRESS OF NAME OF HOST UEPHOSTL DS A ADDRESS OF HALFWORD LENGTH OF HOST DS 9A Various other parms UEPHOSTT DS A Address of a byte that describes the type of information found in UEPHOST VALID values for UEPHOSTT are: UEPHSTNM EQU X'01' UEPHOST contains a host name UEPIPV4A EQU X'02' UEPHOST contains an IPV4 addr UEPIPV6A EQU X'03' UEPHOST contains an IPV6 addr UEPHOST, UEPHOSTL, UEPHOSTT PREVIOUSLY DEFINED | | | | |
| UEPPATH DS A ADDRESS OF PATH SPECIFIED ON SEND UEPPATHL DS A ADDRESS OF HALFWORD LENGTH OF PATH | | | | |
| (50) | ADDRESS | 4 | UEPREALM | ADDRESS OF REALM FROM 401 RESPONSE |
| (54) | ADDRESS | 4 | UEPREALML | ADDRESS OF HALFWORD LENGTH OF REALM |
| (58) | ADDRESS | 4 | UEPAUTHT | ADDRESS OF AUTHENTICATION TYPE |
| (5C) | ADDRESS | 4 | UEPUSNM | ADDRESS OF USERNAME BUFFER POINTER |
| (60) | ADDRESS | 4 | UEPUSNML | ADDRESS OF USERNAME HALFWORD LENGTH |
| (64) | ADDRESS | 4 | UEPPSWD | ADDRESS OF PASSWORD BUFFER POINTER |
| (68) | ADDRESS | 4 | UEPPSWDL | ADDRESS OF PASSWORD HALFWORD LENGTH |
| XAPADMGR PARAMETERS VALID RETURN CODES FOR XAPADMGR ARE: UERCNORM EQU X'00' NORMAL (default). | | | | |
| (40) | ADDRESS | 4 | UEPADCB | Address of ADCB (input) |
| (44) | ADDRESS | 4 | UEPADCBL | Address of length of ADCB (input) |
| (48) | ADDRESS | 4 | UEPUCD | Address of UCD (output) |
| XWSPRRWI PARAMETERS VALID RETURN CODES FOR XWSPRRWI ARE: UERCNORM EQU X'00' UERCRIPI EQU X'04' BYPASS REQUEST | | | | |
| (40) | ADDRESS | 4 | UEPCHANN | ADDRESS OF NAME OF CHANNEL |
| (44) | ADDRESS | 4 | UEPCONTR | ADDRESS OF CONTAINER NAME |
| XWSPRROI PARAMETERS VALID RETURN CODES FOR XWSPRROI ARE: UERCNORM EQU X'00' | | | | |
| UEPCHANN DS A ADDRESS OF NAME OF CHANNEL | | | | |
| UEPCONTR DS A ADDRESS OF CONTAINER NAME | | | | |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| XWSPRROO PARAMETERS VALID RETURN CODES FOR XWSPRROO ARE: UERCNORM EQU X'00' | | | | |
| UEPCHANN DS A ADDRESS OF NAME OF CHANNEL | | | | |
| UEPCONTR DS A ADDRESS OF CONTAINER NAME | | | | |
| (48) | ADDRESS | 4 | UEPAPAB | ADDRESS OF APPLCATION ABEND IND. |
| EQUATES FOR APPLICATION ABEND INDICATOR | | | | |
| (48) | 1... | | UEPAPABY | "X'80" APPLICATION ABENDED |
| (48) | .1.. | | UEPAPABN | "X'40" APPLICATION NOT ABENDED |
| (4C) | ADDRESS | 4 | UEPAPSF | ADDRESS OF SET RC INDICATOR |
| EQUATES FOR APPLICATION SET SOAPFAULT INDICATOR | | | | |
| (4C) | 1... | | UEPAPSFY | "X'80" APPLICATION SET SOAPFAULT |
| (4C) | .1.. | | UEPAPSFN | "X'40" APPLICATION NOT SET SOAPFAULT |
| XWSPRRWO PARAMETERS VALID RETURN CODES FOR XWSPRRWO ARE: UERCNORM EQU X'00' | | | | |
| UEPCHANN DS A ADDRESS OF NAME OF CHANNEL | | | | |
| UEPCONTR DS A ADDRESS OF CONTAINER NAME | | | | |
| UEPAPAB DS A ADDRESS OF APPLICATION ABEND IND. | | | | |
| UEPAPSF DS A ADDRESS OF APPL. SET SOAPFAULT IND. | | | | |
| XWSRQRWO PARAMETERS VALID RETURN CODES FOR XWSRQRWO ARE: UERCNORM EQU X'00' UERCRCPIP EQU X'04' BYPASS REQUEST | | | | |
| UEPCHANN DS A ADDRESS OF NAME OF CHANNEL | | | | |
| UEPCONTR DS A ADDRESS OF CONTAINER NAME | | | | |
| XWSRQROO PARAMETERS VALID RETURN CODES FOR XWSRQROO ARE: UERCNORM EQU X'00' | | | | |
| UEPCHANN DS A ADDRESS OF NAME OF CHANNEL | | | | |
| UEPCONTR DS A ADDRESS OF CONTAINER NAME | | | | |
| XWSRQROI PARAMETERS VALID RETURN CODES FOR XWSRQROI ARE: UERCNORM EQU X'00' | | | | |
| UEPCHANN DS A ADDRESS OF NAME OF CHANNEL | | | | |
| UEPCONTR DS A ADDRESS OF CONTAINER NAME | | | | |
| XWSRQRWI PARAMETERS VALID RETURN CODES FOR XWSRQRWI ARE: UERCNORM EQU X'00' | | | | |
| UEPCHANN DS A ADDRESS OF NAME OF CHANNEL | | | | |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|------------------------------------|
| UEPCONTR DS A ADDRESS OF CONTAINER NAME | | | | |
| XWSSRRWO PARAMETERS VALID RETURN CODES FOR XWSSRRWO ARE: UERCNORM EQU X'00' UERCRRIP EQU X'04' BYPASS REQUEST | | | | |
| UEPCHANN DS A ADDRESS OF NAME OF CHANNEL | | | | |
| UEPCONTR DS A ADDRESS OF CONTAINER NAME | | | | |
| XWSSRROO PARAMETERS VALID RETURN CODES FOR XWSSRROO ARE: UERCNORM EQU X'00' | | | | |
| UEPCHANN DS A ADDRESS OF NAME OF CHANNEL | | | | |
| UEPCONTR DS A ADDRESS OF CONTAINER NAME | | | | |
| XWSSRROI PARAMETERS VALID RETURN CODES FOR XWSSRROI ARE: UERCNORM EQU X'00' | | | | |
| UEPCHANN DS A ADDRESS OF NAME OF CHANNEL | | | | |
| UEPCONTR DS A ADDRESS OF CONTAINER NAME | | | | |
| XWSSRRWI PARAMETERS VALID RETURN CODES FOR XWSSRRWI ARE: UERCNORM EQU X'00' | | | | |
| UEPCHANN DS A ADDRESS OF NAME OF CHANNEL | | | | |
| UEPCONTR DS A ADDRESS OF CONTAINER NAME | | | | |
| XFCRLSCO PARAMETERS Exit specific parameters are: UEPFILEN - Address of 8 byte field containing the file name UEPDSNAME - Address of 44 byte field containing the DSNAME UEPFSERV - Address of the file servreqs flag UEPFDSACC - Address of the file access method flag - 2 pointers reserved UEPRECUR - Address of halfword recursion level VALID RETURN CODES FOR XFCSREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS THE OPEN FAILURE | | | | |
| (30) | ADDRESS | 4 | UEPFILEN | Address of 8 character file name |
| (34) | ADDRESS | 4 | UEPDSNAME | Address of 44 character DSNAME |
| (38) | ADDRESS | 4 | UEPFSERV | Address of file servreqs flag |
| Valid values for UEPFSERV are: | | | | |
| (38) | 1... | | UEPFRDIM | "X'80" Read Valid Indicator |
| (38) | ..1. | | UEPFUPDIM | "X'20" Update Valid Indicator |
| (38) | ...1 | | UEPFADDIM | "X'10" Add Valid Indicator |
| (38) | 1... | | UEPFDELIM | "X'08" Delete Valid Indicator |
| (38) |1. | | UEPFBRZIM | "X'02" Browse Valid Indicator |
| (3C) | ADDRESS | 4 | UEPFDSACC | Address of file access method flag |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| Valid values for UEPFDSACC are: | | | | |
| (3C) | 1... | | UEPFVSAM | "X'80'" VSAM File Indicator |
| (3C) | ..1. | | UEPFDTBL | "X'20'" Data table File Indicator |
| (3C) | ...1 | | UEPFDTUM | "X'10'" User Data table File Indicator |
| (3C) | 1.. | | UEPFRLS | "X'04'" RLS File Indicator |
| (3C) |1. | | UEPFCFDT | "X'02'" CFDT File Indicator |
| (40) | ADDRESS | 4 | | Reserved |
| (44) | ADDRESS | 4 | | Reserved |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| XEPCAP PARAMETERS VALID RETURN CODES FOR XEPCAP ARE: UERCNORM EQU X'00' NORMAL (default). | | | | |
| (40) | ADDRESS | 4 | | UEPLOAD - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPRSA - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | UEPEPTASK | Address of the current task number |
| (4C) | ADDRESS | 4 | UEPEPCX | Address of the EPCX |
| (B0) | FULLWORD | 4 | UEPEPEND (0) | END OF TYPE = EP DSECT |
| (B0) | 1.11 | | UEPEPLEN | "UEPEPEND-UEPEXN" |
| RETURN CODE EQUATES All RC Equates except UERCNORM which is above | | | | |
| (B0) | .... .... |  | UERCYSYS | "X'00'" TAKE SYSTEM ACTION |
| (B0) | .... .... |  | UERC DTAC | "X'00'" Accept record |
| (B0) | 1.. | | UERC DTRJ | "X'04'" Reject record |
| (B0) | 1.. | | UERC DTCL | "X'04'" Close file |
| (B0) | .... .... |  | UERC DTOK | "X'00'" File open OK |
| (B0) | 1... | | UERC DTOP | "X'08'" Optimise data table add |
| (B0) | 11.. | | UERC DTEX | "X'0C'" Extension for data tables |
| (B0) | 1... | | UERC DTSH | "X'08'" Shared data table load |
| (B0) | .... .... |  | UERCNOAC | "X'00'" NO ACTION |
| (B0) | 1.. | | UERC TDOK | "X'04'" Quit TD processing - return "normal" to caller |
| (B0) | 1.. | | UERC SWCH | "X'04'" SWITCH TO ALTERNATE OR DON'T SWITCH AUTOSWITCH OFF. |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (B0) | 1.. | | UERCBYP | "X'04'" BYPASS (NO ACTION) |
| (B0) | 1... | | UERCBYPL | "X'08'" BYPASS AND KEEP MIRROR |
| (B0) | 1.. | | UERCRESU | "X'04'" Resource unavailable for request |
| (B0) | 1.. | | UERCCOIG | "X'04'" IGNORE |
| (B0) | 1.. | | UERCQUE | "X'04'" QUEUE THE REQUEST |
| (B0) | 1.. | | UERCMEA | "X'04'" PROGRAM CONTROL ADDRESS MODIFIED |
| (B0) | 1.. | | UERCSWAP | "X'04'" ISSUE SYSEVENT TO ALLOW ADDRESS-SPACE SWAP |
| (B0) | 1... | | UERCTDNA | "X'08'" Quit TD processing - return "notauth" to caller |
| (B0) | .... .... |  | UERCFAIL | "X'00'" TREAT AS BACKOUT FAILURE |
| (B0) | 1.. | | UERCLDEL | "X'04'" LOGICALLY DELETE RECORD BY REAPPLYING |
| (B0) | 1.. | | UERCCKO | "X'04'" PERFORM THE BACKOUT OF THE LOG RECORD |
| (B0) | 1... | | UERCIGN | "X'08'" IGNORE, RETURN SYSIDERR |
| (B0) | 1... | | UERCABNO | "X'08'" ABEND CICS WITHOUT DUMP |
| (B0) | 1... | | UERCNOSW | "X'08'" SYSEVENT TO SUPPRESS ADDRESS-SPACE SWAP |
| (B0) | 11.. | | UERCABDU | "X'0C'" ABEND CICS WITH DUMP |
| (B0) | .... .... |  | UERCTEUN | "X'00'" TERMINAL UNKNOWN |
| (B0) | 1.. | | UERCNETN | "X'04'" TERMINAL KNOWN, NETNAME RETURNED |
| (B0) | 1... | | UERCYSI | "X'08'" TERMINAL KNOWN, SYSID RETURNED |
| (B0) | ..1. | | UERCPURG | "X'20'" TASK BEING PURGED |
| (B0) | .... .... |  | UERCAQUE | "X'00'" Queue allocate request |
| (B0) | 1.. | | UERCAPUR | "X'04'" Purge allocate request |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (B0) | 1... | | UERCALL | "X'08" Kill queued tasks for connection |
| (B0) | 11.. | | UERCALML | "X'0C" Kill queued tasks for modegrp |
| (B0) | 1... | | UERCSCPE | "X'08" Scope returned |
| (B0) |1.. | | UERCPRV | "X'04" Pre-2.1 SIGNON behavior |
| (B0) | .... .... |  | UERCNOCA | "X'00" Abend task ASRB, don't cancel exits |
| (B0) |1.. | | UERCCANC | "X'04" Abend task ASRB, cancel exits |
| (B0) | 1... | | UERCCICS | "X'08" Abend CICS |
| (B0) |1.. | | UERCBARR | "X'04" Remote host name is barred |
| (B0) | 1... | | UERCPRX | "X'08" Proxy information provided |
| (B0) | 11.. | | UERCERR | "X'0C" Error occurred in exit processing |
| (B0) |1.. | | UERCRIPI | "X'04" Return pipe |
| END OF RETURN CODE EQUATES FILE CONTROL RETURN CODE EQUATES FOR UEPFCRSP | | | | |
| (B0) | ...1 | | UEDUPREC | "X'10" DUPLICATE KEY ON UNIQUE AIX |
| (B0) | ..1. | | UENOSPAC | "X'20" NO SPACE AVAILABLE |
| (B0) | ..1. .1.. | | UEIOEROR | "X'24" I/O ERROR |
| (B0) | .1.. | | UENOLDEL | "X'40" LOGICAL DELETE BYPASSED |
| (B0) | .1.. ...1 | | UENBWBAK | "X'41" NON-BWO BACKUP IN PROGRESS |
| (B0) | 1.11 | | UEDLOCK | "X'B0" DEADLOCK |
| (B0) | 11.. | | UERLSERR | "X'C0" VSAM RLS FAILURE DETECTED |
| (B0) | 11.. ...1 | | UERLSDIS | "X'C1" VSAM RLS ACCESS DISABLED |
| (B0) | 11.. .1. | | UERLSCON | "X'C2" CONTINUATION OF RLS REQUEST DISABLED |
| (B0) | 11.. ..11 | | UECACHE | "X'C3" VSAM RLS CACHE FAILURE |
| (B0) | 11.. .1.. | | UELCKFUL | "X'C4" VSAM LOCK STRUCTURE FULL |
| (B0) | 1111 | | UEAIXFUL | "X'F0" NO SPACE IN NON_UNIQUE AIX |
| (B0) | 1111 1.11 | | UEOPENER | "X'FB" FILE OPEN ERROR |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (B0) | 1111 111. | | UEUNEXP | "X'FE'" UNEXPECTED ERROR |
| END OF FILE CONTROL RETURN CODE EQUATES FILE CONTROL ERROR TYPE BYTE EQUATES FOR UEPERR THE ERROR TYPE INDICATES THE STAGE DURING BACKOUT AT WHICH THE FAILURE OCCURRED | | | | |
| (B0) | .... .... |  | XBFENO | "X'00'" NO ERROR |
| (B0) |1 | | XBFERU | "X'01'" READ UPDATE ERROR |
| (B0) |1.. | | XBFERE | "X'04'" REWRITE ERROR |
| (B0) | 1... | | XBFEWR | "X'08'" WRITE ERROR |
| (B0) | ..1. | | XBFEDL | "X'20'" DELETE ERROR |
| END OF FILE CONTROL ERROR TYPE BYTE EQUATES | | | | |
| (B0) | 1... | | UERTPREP | "X'80'" PREPARE |
| (B0) | .1.. | | UERTCOMM | "X'40'" COMMIT UNCONDITIONALLY |
| (B0) | ..1. | | UERTBACK | "X'20'" BACKOUT |
| (B0) | ...1 | | UERTDGCS | "X'10'" LOST TO CICS INITIAL START |
| (B0) | 1... | | UERTDGNK | "X'08'" RM SHOULD NOT BE IN-DOUBT |
| (B0) |1.. | | UERTWAIT | "X'04'" RM WILL HAVE TO WAIT FOR OUTCOME |
| (B0) |1. | | UERTRSYN | "X'02'" RESYNC |
| (B0) |1 | | UERTLAST | "X'01'" LAST COMMIT/ABORT IN THREAD |
| (B0) | 1... | | UERTONLY | "X'80'" RM IS ONLY UPDATER - TRUE CAN PERFORM SINGLE PHASE COMMIT |
| (B0) | .1.. | | UERTELUW | "X'40'" RM IS READ ONLY - TRUE CAN INVOKE RM WITH END LUW CALL. |
| (B0) |1.. | | UERFPREP | "4" VOTE-YES |
| (B0) | 1... | | UERFBACK | "8" VOTE-NO |
| (B0) | 11.. | | UERFNLOG | "12" VOTE-YES-BUT-DO-NOT-LOG |
| (B0) |1.. | | UERFDONE | "4" COMMIT/ABORT COMPLETE |
| (B0) | 1... | | UERFHOLD | "8" REMEMBER COMMIT/ABORT |
| (B0) |1.. | | UERFOK | "4" SINGLE PHASE (UERTONLY): COMMITTED OK |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|------------|---|
| (B0) | 1... | | UERFBOUT | "8" SINGLE PHASE (UERTONLY): BACKED OUT |
| (B0) | 1... | | UERTEOTR | "X'80" END OF THREAD |
| (B0) | .1.. | | UERTSOTR | "X'40" START OF TASK |
| (B0) | 1... ..1. | | UERTRTTR | "X'82" no longer used |
| (B0) | .1.. ..1. | | UERTRTST | "X'42" no longer used |
| (B0) |1.. | | UERFEOTR | "4" CALL UNDERSTOOD |
| (B0) | 1... | | UERTCONN | "X'80" EXTERNAL RESOURCE MANAGER IS |
| (B0) | .1.. | | UERTNCON | "X'40" EXTERNAL RESOURCE MANAGER IS NOT |
| (B0) | 1... | | UERTCORD | "X'80" CICS Orderly Termination |
| (B0) | .1.. | | UERTCIMM | "X'40" CICS Immediate Termination |
| (B0) | ..1. | | UERTCABY | "X'20" CICS ABEND (Retry possible - TCBs Dispatchable) |
| (B0) | ...1 | | UERTCABN | "X'10" CICS ABEND (Retry NOT possible - TCBs Dispatchable) |
| (B0) |1 | | UERTOPCA | "X'01" Operator Cancel (Retry NOT possible - TCBs NOT dispatchable) |
| EXITID EQU-LIST - Global User Exit Number | | | | |
| (B0) |1 | | XTCIN | "1" |
| (B0) |1. | | XTCOUT | "2" |
| (B0) |11 | | XTCAAT | "3" |
| (B0) |1.. | | XTCTIN | "4" |
| (B0) |1.1 | | XTCTOUT | "5" |
| (B0) |11. | | XDSBWT | "6" |
| (B0) |111 | | XDSAWT | "7" |
| (B0) | 1... | | XLGSTRM | "8" |
| (B0) | 1..1 | | XDUREQ | "9" |
| (B0) | 1.1. | | XDUCLSE | "10" |
| (B0) | 1.11 | | XDUOUT | "11" |
| (B0) | 11.. | | XMEOUT | "12" |
| (B0) | 11.1 | | XFCREQ | "13" |
| (B0) | 111. | | XFCREQC | "14" |
| (B0) | 1111 | | XTSPTOUT | "15" |
| (B0) | ...1 | | XGMTEXT | "16" |
| (B0) | ...1 ...1 | | XMNOUT | "17" |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (B0) | ...1 ..1. | | XRCINIT | "18" |
| (B0) | ...1 ..11 | | XRCINPT | "19" |
| (B0) | ...1 .1.. | | XICREQ | "20" |
| (B0) | ...1 .1.1 | | XICEXP | "21" |
| (B0) | ...1 .11. | | XISLCLQ | "22" |
| (B0) | ...1 .111 | | XPCFTCH | "23" |
| (B0) | ...1 1... | | XPCHAIR | "24" |
| (B0) | ...1 1..1 | | XPCTA | "25" |
| (B0) | ...1 1.1. | | XPCABND | "26" |
| (B0) | ...1 1.11 | | XPCREQ | "27" |
| (B0) | ...1 11.. | | XPCREQC | "28" |
| (B0) | ...1 11.1 | | XTDREQ | "29" |
| (B0) | ...1 111. | | XTDIN | "30" |
| (B0) | ...1 1111 | | XTDOUT | "31" |
| (B0) | ..1. | | XTSQRIN | "32" |
| (B0) | ..1. ...1 | | XTSQROUT | "33" |
| (B0) | ..1. ..1. | | XTSPTIN | "34" |
| (B0) | ..1. ..11 | | XZCIN | "35" |
| (B0) | ..1. .1.. | | XZCOUT | "36" |
| (B0) | ..1. .1.1 | | XZCATT | "37" |
| (B0) | ..1. .11. | | XZCOUT1 | "38" |
| (B0) | ..1. .111 | | XXRSTAT | "39" |
| (B0) | ..1. 1... | | XXDFA | "40" |
| (B0) | ..1. 1..1 | | XXDFB | "41" |
| (B0) | ..1. 1.1. | | XXDTO | "42" |
| (B0) | ..1. 1.11 | | XSTOUT | "43" |
| (B0) | ..1. 11.. | | XDLIPRE | "44" |
| (B0) | ..1. 11.1 | | XDLIPOST | "45" |
| (B0) | ..1. 111. | | XFCSREQ | "46" |
| (B0) | ..1. 1111 | | XEIIN | "47" |
| (B0) | ..11 | | XEIOUT | "48" |
| (B0) | ..11 ...1 | | XALTENF | "49" |
| (B0) | ..11 ..1. | | XICTENF | "50" |
| (B0) | ..11 ..11 | | XDTAD | "51" |
| (B0) | ..11 .1.. | | XDTRD | "52" |
| (B0) | ..11 .1.1 | | XDTLC | "53" |
| (B0) | ..11 .11. | | XSTERM | "54" |
| (B0) | ..11 .111 | | XSRAB | "55" |
| (B0) | ..11 1... | | XFCSREQC | "56" |
| (B0) | ..11 1..1 | | XSZBRQ | "57" |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (B0) | ..11 1.1. | | XSZARQ | "58" |
| (B0) | ..11 1.11 | | XISCONA | "59" |
| (B0) | ..11 11.. | | XRSINDI | "60" |
| (B0) | ..11 11.1 | | XXMATT | "61" |
| (B0) | ..11 111. | | XZIQUE | "62" |
| (B0) | ..11 1111 | | XTSEREQ | "63" |
| (B0) | .1.. | | XTSEREQC | "64" |
| (B0) | .1.. ...1 | | XTDEREQ | "65" |
| (B0) | .1.. ..1. | | XTDEREQC | "66" |
| (B0) | .1.. ..11 | | XICEREQ | "67" |
| (B0) | .1.. .1.. | | XICEREQC | "68" |
| (B0) | .1.. .1.1 | | XALCAID | "69" |
| (B0) | .1.. .11. | | XSNON | "70" |
| (B0) | .1.. .111 | | XSNOFF | "71" |
| (B0) | .1.. 1... | | XRMIIN | "72" |
| (B0) | .1.. 1..1 | | XRMIOUT | "73" |
| (B0) | .1.. 1.1. | | XAKUSER | "74" |
| (B0) | .1.. 1.11 | | XFCNREC | "75" |
| (B0) | .1.. 11.. | | XFCBFAIL | "76" |
| (B0) | .1.. 11.1 | | XFCLDEL | "77" |
| (B0) | .1.. 111. | | XFCBOVER | "78" |
| (B0) | .1.. 1111 | | XFCBOUT | "79" |
| (B0) | .1.1 | | XFCVSDS | "80" |
| (B0) | .1.1 ...1 | | XFCQUIS | "81" |
| (B0) | .1.1 ..1. | | XDUREQC | "82" |
| (B0) | .1.1 ..11 | | XFCAREQ | "83" |
| (B0) | .1.1 .1.. | | XFCAREQC | "84" |
| (B0) | .1.1 .1.1 | | XEISPIN | "85" |
| (B0) | .1.1 .11. | | XEISPOUT | "86" |
| (B0) | .1.1 .111 | | XNQEREQ | "87" |
| (B0) | .1.1 1... | | XNQEREQC | "88" |
| (B0) | .1.1 1..1 | | XFAINTU | "89" |
| (B0) | .1.1 1.1. | | XBMIN | "90" |
| (B0) | .1.1 1.11 | | XBMOUT | "91" |
| (B0) | .1.1 11.. | | XBADEACT | "92" |
| (B0) | .1.1 11.1 | | XLDLOAD | "93" |
| (B0) | .1.1 111. | | XLDELETE | "94" |
| (B0) | .1.1 1111 | | XSNEX | "95" |
| (B0) | .11. | | XFCFRIN | "96" |
| (B0) | .11. ...1 | | XFCFROUT | "97" |

Table 672. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (B0) | .11. ..1. | | XICERES | "98" |
| (B0) | .11. ..11 | | XPCERES | "99" |
| (B0) | .11. .1.. | | XWBOPEN | "100" |
| (B0) | .11. .1.1 | | XWBSNDO | "101" |
| (B0) | .11. .11. | | XWBAUTH | "102" |
| (B0) | .11. .111 | | XAPADMGR | "103" |
| (B0) | .11. 1... | | XISQUE | "104" |
| (B0) | .11. 1..1 | | XWSPRROO | "105" |
| (B0) | .11. 1.1. | | XWSPRRWI | "106" |
| (B0) | .11. 1.11 | | XWSPRROI | "107" |
| (B0) | .11. 11.. | | XWSPRRWO | "108" |
| (B0) | .11. 11.1 | | XWSRQRWO | "109" |
| (B0) | .11. 111. | | XWSRQROO | "110" |
| (B0) | .11. 1111 | | XWSRQROI | "111" |
| (B0) | .111 | | XWSRQRWI | "112" |
| (B0) | .111 ...1 | | XWSSRRWO | "113" |
| (B0) | .111 ..1. | | XWSSRROO | "114" |
| (B0) | .111 ..11 | | XWSSRROI | "115" |
| (B0) | .111 .1.. | | XWSSRRWI | "116" |
| (B0) | .111 .1.1 | | XISQLCL | "117" |
| (B0) | .111 .11. | | XFCRLSCO | "118" |
| (B0) | .111 .111 | | XEPCAP | "119" |

URL - User supplied route list entry

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DESCRIPTIVE NAME = CICS TS USER-SUPPLIED ROUTE LIST ENTRY
COPYBOOK DFHURLDS.

All programs which issue DFHBMS TYPE=ROUTE macro instructions must contain a user-supplied route list, defining the terminals and/or operator to which the logical message is to be routed. The entries in the route list must be formatted as described by this DSECT.

PN= REASON REL YYMMDD HDXIII : REMARKS

Table 673.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHURLDS | DUMMY SECTION - USER'S ROUTE LIST |
| (0) | CHARACTER | 4 | URLTRMID | TERMINAL IDENTIFICATION |
| (4) | CHARACTER | 2 | URLLDCMN | LOGICAL DEVICE MNEMONIC |

Table 673. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (6) | CHARACTER | 3 | URLOPID | OPERATOR IDENTIFICATION |
| (9) | BITSTRING | 1 | URLTSF | STATUS FLAG |
| (9) | 1... | | URLSKIP | "X'80" USER ROUTE LIST ENTRY SKIPPED |
| (9) | .1.. | | URLITI | "X'40" INVALID TERMINAL IDENTIFICATION |
| (9) | ..1. | | URLNS | "X'20" TERMINAL NOT SUPPORTED UNDER BMS |
| (9) | ...1 | | URLONSO | "X'10" OPERATOR NOT SIGNED ON |
| (9) | 1... | | URLSOUST | "X'08" OPERATOR SIGNED ON UNSUPPORTED TERMINAL |
| (9) |1.. | | URLINVMN | "X'04" INVALID LDC MNEMONIC |
| (A) | CHARACTER | 6 | URLRESV | RESERVED - MUST BE BLANKS |
| (A) | ...1 | | URLNEXT | "*" START NEXT ENTRY |
| (0) | CHARACTER | 2 | URLCHIND | URL CHAIN INDICATOR |
| THE FOLLOWING ARE ACCEPTABLE VALUES FOR 'URLCHIND' | | | | |
| (0) | BITSTRING | 0 | URLEND | "X'FFFF" END OF URL |
| (0) | BITSTRING | 0 | URLCONT | "X'FFFE" URL CONTINUED IN NEXT SEGMENT |
| (2) | CHARACTER | 2 | | RESERVED |
| (4) | CHARACTER | 4 | URLCHADR | URL CHAIN ADDRESS (NEEDED WHEN URLCHIND IS X'FFFE) |
| (4) | ...1 | | URLCAD | "*-DFHURLDS" LENGTH OF USER ROUTE LIST ENTRY |

VMID - Module identifier

CONTROL BLOCK NAME = DFHVMS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Module Identifier.
FUNCTION =
All CICS modules begin with a DFHVM macro that expands to generate the name of the module, its entry point address, the version, modification level and the date and time of assembly. The expansion of the macro is described by DFHVMS.

Table 674.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------|
| (0) | STRUCTURE | 0 | DFHVMS | MODULE IDENTIFIER |
| (0) | CHARACTER | 1 | VMSTART | "*" EYECATCHER |

Table 674. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (1) | CHARACTER | 8 | VMNAME | FULL NAME FIELD |
| (9) | ADDRESS | 4 | VMIPA31 | Entry point |
| (D) | CHARACTER | 4 | VMVERS | VERSION AND MOD LEVEL |
| (11) | CHARACTER | 1 | VMASM | ASSEMBLED BY USER |
| (12) | CHARACTER | 2 | VMTIME | ASSEMBLY TIME |
| (14) | CHARACTER | 2 | VMDATE | ASSEMBLY DATE |
| (16) | CHARACTER | 8 | VMPTFNO | PTF NUMBER |
| (1E) | BITSTRING | 1 | VMFLAG1 | FIRST FLAG FIELD |
| (1E) | .1.. | | VMDLIGEN | "X'40'" DL/I GENERATED |
| (1E) | ...1 | | VMMVSGEN | "X'10'" FOR MVS |
| (1E) | 1... | | VMSRBGEN | "X'08'" SRB GENERATED |
| (1E) |1.. | | VMMVS811 | "X'04'" FOR MVS/811 |
| (1F) | BITSTRING | 1 | VMFLAG2 | SECOND FLAG FIELD |
| (1F) | 1... | | VMAMODE1 | "X'80'" AMODE BIT 1 |
| (1F) | .1.. | | VMAMODE2 | "X'40'" AMODE BIT 2 |
| (1F) | ..1. | | VMRMODE | "X'20'" RMODE 31 |
| (20) | HALFWORD | 2 | (0) | |
| (20) | ..1. | | VMLNGTH | "*-DFHVMDS" MEMBER-DEPENDENT LENGTH |

VSWA - FC VSAM work area

CONTROL BLOCK NAME = DFHVSWS
 DESCRIPTIVE NAME = CICS/ESA (FC) VSAM WORK AREA
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 5655-Y04
 (C) Copyright IBM Corp. 1982, 2008

FUNCTION =
 The VSWA is the File Control VSAM Work Area.
 The VSAM Work Area is created by the File Control Program DFHFCVS at the start of processing of a VSAM request (GET, PUT) or series of requests (GET UPDATE - PUT UPDATE, STARTBR - READNEXT - END BROWSE, etc.) and contains information related to the request. The VSWA consists of a CICS part and a VSAM part. The VSAM part is the VSAM RPL that represents the request to VSAM. The VSWA is deleted when the request is terminated.

LIFETIME =
 Created by DFHFCVS at the start of a request or series of requests. Destroyed by FCVS when the request/series ends.

STORAGE CLASS =
 Above 16M line.

LOCATION =
 VSWA is pointed to by the field FRT_WORK_AREA_ADDRESS in the File Request Thread Element (FRTE).

INNER CONTROL BLOCKS =
 The VSWA contains within it (at offset 8) the VSAM Request Parameter List (RPL).

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = None
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = None.
 VSAM WORK AREA

Table 675.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | * | DFHVSWA | VSAM work area |
| (0) | CHARACTER | 8 | VSWA_SAA | This section replaces the old storage accounting area |
| (0) | CHARACTER | 1 | VSWACLS | Stg class |
| (1) | CHARACTER | 1 | * | Reserved |
| (2) | UNSIGNED | 2 | VSWALNTH | Length of VSWA |
| (4) | ADDRESS | 4 | VSWANXT | Next VSWA on free chain |
| (8) | CHARACTER | 76 | VSWARPL | VSAM Request Parameter List |
| (8) | FULLWORD | 4 | VSWAIDWD | RPL identification word |
| (8) | UNSIGNED | 1 | VSWAID | RPL identifier |
| (9) | UNSIGNED | 1 | VSWASTYP | RPL subtype |
| (A) | UNSIGNED | 1 | VSWAREQ | Request type |
| (B) | UNSIGNED | 1 | VSWARLEN | RPL length |
| (C) | ADDRESS | 4 | VSWAPLHP | PLH address |
| (10) | ADDRESS | 4 | VSWAECB | Event control block (ECB) or address of ECB if VSWAECBS = '1'B |
| (10) | CHARACTER | 4 | VSWAECBC | ECB as string |
| (14) | CHARACTER | 4 | VSWARESP | RPL response bytes |
| (14) | UNSIGNED | 1 | VSWASTAT | RPL status flags |
| (15) | CHARACTER | 3 | VSWAFDBK | RPL feedback area |
| (15) | UNSIGNED | 1 | VSWARTNC | RPL return code |
| (16) | CHARACTER | 2 | VSWACNDC | RPL condition code |
| (16) | UNSIGNED | 1 | VSWACMPN | Component issuing the code |
| (17) | UNSIGNED | 1 | VSWAERRC | Error Code |
| (18) | HALFWORD | 2 | VSWARKYL | RPL key length |
| (1A) | HALFWORD | 2 | VSWASTID | RPL string identifier |
| (1C) | ADDRESS | 4 | VSWACCHR | Control character address |
| (20) | ADDRESS | 4 | VSWAACB | ACB address |
| (24) | ADDRESS | 4 | VSWATCB | TCB address |
| (28) | ADDRESS | 4 | VSWAREA | Area Address |
| (2C) | ADDRESS | 4 | VSWAARG | Argument address |
| (30) | CHARACTER | 4 | VSWAOPTC | Option codes |

Table 675. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------|-----------|-----|------------------|-----------------------------------|
| (30) | UNSIGNED | 1 | VSWAOPT1 | Option code byte 1 |
| (30) | 1... | | * | Reserved |
| (30) | .1.. | | VSWADIR | Direct search access |
| (30) | ..1. | | VSWASEQ | Sequential access |
| (30) | ...1 | | * | Reserved |
| (30) | 1... | | VSWAASY | Asynchronous request |
| (30) |11. | | * | Reserved |
| (30) |1 | | VSWAECBS | VSWAECB has ADDR(ECB) |
| (31) | UNSIGNED | 1 | VSWAOPT2 | Option code byte 2 |
| (31) | 1111 11.. | | * | Reserved |
| (31) |1. | | VSWAUPD | Update Processing |
| (31) |1 | | * | Reserved |
| (32) | UNSIGNED | 1 | VSWAOPT3 | Option code byte 3 |
| (33) | UNSIGNED | 1 | VSWAOPT4 | Option code byte 4 |
| (34) | ADDRESS | 4 | VSWANRPL | Next RPL Address |
| (38) | FULLWORD | 4 | VSWALEN | Record length |
| (3C) | FULLWORD | 4 | VSWABUFL | Buffer length |
| (40) | FULLWORD | 4 | * | Reserved |
| (44) | CHARACTER | 8 | VSWARBAR | RBA return field |
| (44) | FULLWORD | 4 | * | |
| (48) | UNSIGNED | 4 | VSWALRBA | Record RBA |
| (4C) | UNSIGNED | 1 | * | Reserved |
| (4D) | UNSIGNED | 1 | VSWACTIV | Check not issued |
| (4E) | HALFWORD | 2 | VSWAEML | Error message length |
| (50) | ADDRESS | 4 | VSWAEMA | Error message area address |
| (54) | CHARACTER | 8 | VSWA_SUSPEND_CHN | VSWA suspend chain |
| (54) | ADDRESS | 4 | VSWA_NEXT_ACT | - Next in chain |
| (58) | CHARACTER | 4 | VSWA_TASK_TOK | - Task token END OF FIXED SECTION |
| VARIABLE SECTION | | | | |
| (5C) | CHARACTER | 20 | VSWAVRS0 | Variable section 0 |
| (5C) | ADDRESS | 4 | VSWAFCT | File control table entry addr |
| (60) | ADDRESS | 4 | VSWA_RECORD_LOCK | Addr record lock area |
| (64) | ADDRESS | 4 | VSWA_DELETE_LOCK | Addr delete lock area |
| (68) | HALFWORD | 2 | VSWAENQL | Length of ENQ argument |
| (6A) | HALFWORD | 2 | VSWA_BKL | Base key/RBA/RRN length |
| (6C) | ADDRESS | 4 | * | Reserved |
| (70) | CHARACTER | 12 | VSWAVRS2 | Variable section 2 |
| (70) | ADDRESS | 4 | VSWARIF | Record ID field address |
| (74) | CHARACTER | 1 | VSWAFLG1 | Flag byte 1 |

Table 675. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|--|
| (74) | 1... | | VSWABGEN | Generic browse |
| (74) | .1.. | | VSWABRBA | RBA browse |
| (74) | ..1. | | VSWABIP | Browse in progress |
| (74) | ...1 | | VSWA_SEQUENTIAL | Browse positioned for SEQ |
| (74) | 1... | | VSWA_XRBA_BROWSE | XRBA Browse |
| (74) |1.. | | VSWA_DT_WAIT | Data table open is waiting for this request to complete |
| (74) |1. | | VSWA_080X14 | Index and Base maybe out of sync |
| (74) |1 | | VSWA_INFLIGHT | VSAM request is in flight |
| (75) | CHARACTER | 1 | VSWAFLG2 | Flag byte 2 |
| (75) | 1... | | VSWA_SUSPENDED | Resume is required |
| (75) | .1.. | | VSWA_NQ_WAIT_REQD | NQ/busy abt to WAIT |
| (75) | ..1. | | VSWA_PURGE_PROTECT | Start Purge Prot |
| (75) | ...1 | | VSWA_REPAIR | Reposition needed |
| (75) | 1... | | VSWA_RETRY_USING_BASE | Use Base ACB |
| (75) |111 | | * | Reserved |
| (76) | HALFWORD | 2 | VSWAKEYL | Key length |
| (78) | ADDRESS | 4 | * | Reserved |
| (7C) | CHARACTER | 68 | VSWAVRS3 | Variable section 3 |
| (7C) | ADDRESS | 4 | VSWACHN | General VSWA chain field |
| (80) | ADDRESS | 4 | VSWANEXT | Pointer to next VSWA in base cluster chain. |
| (84) | ADDRESS | 4 | VSWAPREV | Pointer to previous VSWA in base cluster chain. |
| (88) | ADDRESS | 4 | VSWAXCHN | Pointer to next VSWA waiting for my owner. |
| (8C) | ADDRESS | 4 | VSWAOWND | Pointer to VSWA chain for me. |
| (90) | ADDRESS | 4 | VSWAOWNR | Pointer to VSWA for which I am waiting. |
| (94) | UNSIGNED | 1 | VSWA_VICTIM_COUNT | No. of attempts to kill this VSWA |
| (95) | CHARACTER | 1 | VSWAIND | VSAM work area indicators |
| (95) | 1... | | VSWAEREQ | VSAM ENDREQ is required |
| (95) | .1.. | | VSWABRZI | This is a browse VSWA |
| (95) | ..1. | | VSWAMASS | Mass insert VSWA |
| (95) | ...1 | | VSWAFRST | First request in BROWSE or MASS INSERT sequence or single ADD. |
| (95) | 1... | | VSWASTRG | VSAM string acquired |
| (95) |1.. | | * | Reserved |

Table 675. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------|---|
| (95) |1. | | VSWALSRP | Path browse request to LSR file. |
| (95) |1 | | VSWARLO | Record lock only update |
| (96) | HALFWORD | 2 | VSWASTG | Number of strings allocated to access request for a file using LSR. |
| (98) | FULLWORD | 4 | VSWARQST | VSAM Request code |
| (9C) | CHARACTER | 4 | VSWA_JECN | System log event number |
| (A0) | CHARACTER | 4 | VSWA_SAVE_OPTC | Saved RPL option bytes |
| (A4) | ADDRESS | 4 | VSWASV12 | TCA address |
| (A8) | ADDRESS | 4 | VSWA_FRTE | Address of related FRTE |
| (AC) | HALFWORD | 2 | VSWA_REQD_STRINGS | Number of strings required for a request (LSR only) |
| (AE) | BIT(8) | 1 | * | |
| (AE) | 1... | | VSWA_REM | Need to release exclusive conflict resources. |
| (AE) | .1.. | | VSWA_MASS_INSERT | Mass insert |
| (AE) | ..1. | | VSWA_ADD_DELETE | Single add or delete |
| (AE) | ...1 | | VSWALOCK | End of range id. is locked and must be released |
| (AE) | 1... | | VSWA_ESDS_LOCK | ESDS WRITE lock held |
| (AE) |1.. | | VSWA_UPDATE | Performing an update |
| (AE) |1. | | VSWA_NONRECOV_LOCK | Record lock held for duration of read update of non-recoverable file. |
| (AE) |1 | | VSWA_SET_BROWSE | 1st after STARTBR/RESETBR |
| (AF) | BIT(8) | 1 | * | |
| (AF) | 1... | | VSWA_0890_POST | DFHFCVR is waiting for this request to complete. Set by DFHFCVR to indicate its interest in completion of request |
| (AF) | .1.. | | VSWA_BACKWARDS | Backward browse |
| (AF) | ..11 1111 | | * | Reserved |
| (B0) | ADDRESS | 4 | VSWA_DATA_BUFFER1 | 1st work-buffer address |
| (B4) | ADDRESS | 4 | VSWA_DATA_BUFFER2 | 2nd work-buffer address |
| (B8) | HALFWORD | 2 | VSWA_LAST_LEN | Last specified keylength |
| (BA) | HALFWORD | 2 | VSWA_LOG_LENGTH | Length for logging |
| (BC) | CHARACTER | 4 | VSWA_SUSPEND_TOKEN | Suspend token for exclusive control conflict. |
| Ensure 32 byte boundary for dump viewing | | | | |
| (C0) | CHARACTER | 288 | VSWA_TRACE_TABLE | |
| (C0) | CHARACTER | 28 | VSWA_TRACE_DIAGS | Diags for this task |

Table 675. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---|---|
| (C0) | CHARACTER | 4 | VSWA_TASKID | owning taskid |
| (C4) | CHARACTER | 4 | VSWA_TRANID | owning tranid |
| (C8) | CHARACTER | 4 | VSWA_XTASKID | taskid of excl ctrl conflict owning VSWA |
| (CC) | CHARACTER | 4 | VSWA_XTRANID | tranid of excl ctrl conflict owning VSWA |
| (D0) | CHARACTER | 8 | VSWA_SUSP | last suspend call |
| (D8) | UNSIGNED | 1 | VSWA_DEADLOCK_RSN | deadlock reason |
| (D9) | CHARACTER | 3 | * | Spare |
| (DC) | ADDRESS | 4 | VSWA_TRACE_NEXT | Next trace entry |
| (E0) | CHARACTER | 0 | VSWA_TRACE_START | Start of trace table |
| (E0) | CHARACTER | 32 | VSWA_TRACE_RECORD (4294967303:341940320) | Trace table |
| (1C0) | CHARACTER | 0 | VSWA_TRACE_END | End of trace table |
| We used to have 8 trace entries above. The last one was split off and is now used to collect the parameters of the last call to UPADEXIT. The layout of this is below. | | | | |
| (1C0) | CHARACTER | 32 | VSWA_TRACE_UPAD | UPAD data |
| (1C0) | CHARACTER | 8 | VSWA_TRACE_UPAD_TOD | TOD |
| (1C8) | CHARACTER | 24 | VSWA_TRACE_UPAD_DATA | Rest of entry |
| (1C8) | ADDRESS | 4 | VSWA_TRACE_UPADRPLA | RPL address |
| (1CC) | ADDRESS | 4 | VSWA_TRACE_UPADACBA | ACB address |
| (1D0) | ADDRESS | 4 | VSWA_TRACE_UPADDECBA | ECB address |
| (1D4) | ADDRESS | 4 | VSWA_TRACE_UPADPRTN | POST return code |
| (1D8) | ADDRESS | 4 | VSWA_TRACE_UPAD_RSV | reserved |
| (1DC) | CHARACTER | 1 | VSWA_TRACE_UPADTYPE | X type(Wait/Post) |
| (1DD) | CHARACTER | 3 | * | unused |
| (1E0) | CHARACTER | * | VSWADBA | End of fixed part of VSWA |
| Reference key copy. | | | | |
| (1E0) | CHARACTER | * | VSWAXKEY | Reference key |

Extension for base key copy.

Table 676.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | * | VSWAENID | Enqueue identifier |
| (0) | ADDRESS | 4 | VSWABCAD | Addr of base cluster block |
| (4) | CHARACTER | * | VSWABKEY | Primary key of record |

Table 677.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------|
| (0) | STRUCTURE | 32 | VSWA_TRACE | |
| (0) | CHARACTER | 8 | VSWAT_TOD | TOD High Word |

Table 677. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|------------------------|
| (8) | ADDRESS | 4 | VSWAT_VSWAFCT | FCT address |
| (8) | CHARACTER | 1 | * | Hi bit used for |
| (8) | 1... .. | | VSWAT_BASE_RETRY | retry using base |
| (C) | FULLWORD | 4 | VSWAT_W2 | |
| (C) | CHARACTER | 1 | VSWAT_VSWAOPT1 | Opt code 1 |
| (D) | CHARACTER | 1 | VSWAT_VSWAOPT2 | Opt code 2 |
| (E) | CHARACTER | 1 | VSWAT_VSWAOPT3 | Opt code 3 |
| (F) | BIT(8) | 1 | VSWAT_VSWARQST | VSAM request code |
| (10) | CHARACTER | 4 | VSWAT_VSWA_TASKID | Task issuing request |
| (14) | CHARACTER | 4 | VSWAT_VSWARESP | FFFFFFFFx if inflight |
| (14) | UNSIGNED | 1 | VSWAT_VSWASTAT | RPL status flags |
| (15) | UNSIGNED | 1 | VSWAT_VSWARTNC | RPL return code |
| (16) | UNSIGNED | 1 | VSWAT_VSWACMPN | Component issuing code |
| (17) | UNSIGNED | 1 | VSWAT_VSWAERRC | Error Code |
| (18) | ADDRESS | 4 | VSWAT_VSWA_PLH | PLH address |
| (1C) | ADDRESS | 4 | VSWAT_VSWA_TCB | TCB address |
| (20) | CHARACTER | 0 | * | |

Constants

Table 678.

| Len | Type | Value | Name | Description |
|--|---------|-------|---------------------------|-----------------|
| 4 | DECIMAL | 7 | VSWAT_NRECS | # trace entries |
| 4 | DECIMAL | 32 | VSWAT_SIZE | Size of entries |
| Values of VSWA_DEADLOCK_RSN for deadlock handling We decide whether to terminate our task or the task that we are in deadlock with (the victim) The decision is based on whether either task has priority This table describes the options | | | | |
| 1 | DECIMAL | 0 | VSWA_DR_KILL_VICTIM | |
| 1 | DECIMAL | 1 | VSWA_DR_NO_VICTIM | |
| 1 | DECIMAL | 2 | VSWA_DR_MULTIPLE_OFFENDER | |
| 1 | DECIMAL | 3 | VSWA_DR_VICTIM_BROKE_AIX | |
| 1 | DECIMAL | 4 | VSWA_DR_BOTH_TASKS_NORMAL | |

WBCLB - Web client session

Table 679.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-----------------------------|
| (0) | STRUCTURE | 584 | WBO_SESSION | Outbound session data |
| (0) | HALFWORD | 2 | WBO_LEN | length of this session data |

Table 679. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------------------------|-----|-------------------------|----------------------------------|
| (2) | CHARACTER | 14 | WBO_EYECATCHER | Eyecatcher >DFHWBOSESSION |
| (10) | ADDRESS | 4 | WBO_WBA_NEXT | WBA chain: forward link |
| (14) | ADDRESS | 4 | WBO_WBA_PREV | WBA chain: backward link |
| (18) | ADDRESS | 4 | WBO_TXN_NEXT | TXN chain: forward link |
| (1C) | ADDRESS | 4 | WBO_TXN_PREV | TXN chain: backward link |
| (20) | STRUCTURE IsA(ETOKEN) | 8 | * | Reserved |
| (20) | ADDRESS | 4 | P | |
| (24) | FULLWORD | 4 | N | |
| (28) | STRUCTURE IsA(ETOKEN) | 8 | WBO_TXN | Transaction token |
| (28) | ADDRESS | 4 | P | |
| (2C) | FULLWORD | 4 | N | |
| (30) | BIT(8) | 1 | WBO_FLAG1 | Request status |
| (30) | 1... | | WBO_PROXY | Proxy required |
| (30) | .1.. | | WBO_HEADERS_SENT | Headers have been sent |
| (30) | ..1. | | WBO_ALLOW_TRAILERS | Allow chunk trailers |
| (30) | ...1 | | WBO_CONCLOSE_SENT | Connection: close sent |
| (30) | 1... | | WBO_VERSION_SAVED | Version already saved |
| (30) |1.. | | WBO_NATIVE_REQUEST | Don't translate request body |
| (30) |1. | | WBO_PROTOCOL_ISC | Protocol is ISC |
| (30) |1 | | WBO_CHUNKED_REQUEST | Send chunked data |
| (31) | UNSIGNED | 1 | WBO_FLAG2 | Response status |
| (31) | 1... | | WBO_HTTP11 | Server is at HTTP1.1 or later |
| (31) | .1.. | | WBO_HEADERS_RECEIVED | Headers have been received |
| (31) | ..1. | | WBO_TEXT_RESPONSE | Response is text-based |
| (31) | ...1 | | WBO_SESSION_CLOSED | Session closed by peer |
| (31) | 1... | | WBO_MBCS_RESPONSE | Response body is DBCS/MBCS |
| (31) |1.. | | WBO_NATIVE_RESPONSE | Don't translate response body |
| (31) |1. | | WBO_TRAILER_HEADERS | Trailer headers expected |
| (31) |1 | | WBO_CHUNKED_RESPONSE | Receive chunked data |
| (32) | UNSIGNED | 1 | WBO_SCHEME | URL scheme 1=HTTP, 2=HTTPS |
| (33) | UNSIGNED | 1 | WBO_METHOD | HTTP method |
| (34) | CHARACTER | 16 | WBO_BIN_IP_ADDRESS | Outbound IP address |
| (44) | UNSIGNED | 1 | WBO_CHAR_IP_ADDRESS_LEN | Char IP address length |
| (45) | CHARACTER | 39 | WBO_CHAR_IP_ADDRESS | Char IP address |
| (6C) | UNSIGNED | 1 | WBO_IP_ADDRESS_TYPE | Outbound IP address type |

Table 679. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------------------------|-----|-------------------------|------------------------------|
| (6D) | CHARACTER | 3 | * | Reserved |
| (70) | UNSIGNED | 2 | WBO_PORTNUMBER | Outbound port number |
| (72) | UNSIGNED | 1 | WBO_FLAG3 | Various flags |
| (72) | 1... | | WBO_OPTIONS_REQUEST | Request is options |
| (72) | .1.. | | WBO_CLOSE_HDR | Close hdr on resp |
| (72) | ..1. | | WBO_SUPPRESS_EXITS | Suppress user exits |
| (72) | ...1 | | WBO_SUPPRESS_MONITORING | Suppress monitoring |
| (72) | 1... | | WBO_USER_CT_HEADER | User written cont type hdr |
| (72) |1.. | | WBO_ADSFX_SET | connect with adsfx |
| (72) |1. | | WBO_IPV6_HOST | Hostname is IPv6 address |
| (72) |1 | | WBO_TRACE_SUPPRESSION | Suppress body trace |
| (73) | UNSIGNED | 1 | WBO_FLAG4 | More flags |
| (73) | 1... | | WBO_PROXY_HEADERS_X | Proxy headers exist |
| (73) | .1.. | | WBO_CONTENT_LENGTH_X | Content-len exists |
| (74) | FULLWORD | 4 | WBO_HEADER_LEN | Length of req/resp + hdrs |
| (78) | FULLWORD | 4 | WBO_RESP_HEADER_LEN | Length of resp headers |
| (7C) | FULLWORD | 4 | WBO_BODY_LEN | Len of request/response body |
| (80) | FULLWORD | 4 | WBO_PENDING_REQ_COUNT | Requests pending response |
| (84) | ADDRESS | 4 | WBO_REALM_PTR | Address of realm extensn |
| (88) | UNSIGNED | 4 | WBO_SOCKETPOOL_SIZE | Pool size used at open_ses |
| (8C) | UNSIGNED | 4 | WBO_REPOSITORY_TOKEN | Web repository token |
| (90) | CHARACTER | 4 | WBO_TRANNUM | Trannum |
| (94) | CHARACTER | 10 | WBO_HOST_CODEPAGE | host codepage |
| (9E) | CHARACTER | 2 | * | reserved |
| (A0) | STRUCTURE IsA(ETOKEN) | 8 | WBO_HOST_CCSTOKEN | CCS token for host |
| (A0) | ADDRESS | 4 | P | |
| (A4) | FULLWORD | 4 | N | |
| (A8) | ADDRESS | 4 | WBO_SOCKETPOOL_TOKEN | Token for socketpool |
| (AC) | CHARACTER | 4 | * | |
| (B0) | STRUCTURE IsA(ETOKEN) | 8 | WBO_HDRS_CCSTOKEN | CCS token for HTTP headers |
| (B0) | ADDRESS | 4 | P | |
| (B4) | FULLWORD | 4 | N | |
| (B8) | UNSIGNED | 4 | WBO_HOST_CCsid | Host IBM ccsid |
| (BC) | UNSIGNED | 4 | WBO_GUEST_CCsid | Guest IBM ccsid |
| (C0) | STRUCTURE IsA(BUFFER) | 16 | WBO_WORK_BUFFER | Addr(work buff) |
| (C0) | ADDRESS | 4 | P | |
| (C4) | FULLWORD | 4 | N | |

Table 679. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------------------------|-----|--------------------------|------------------------|
| (C8) | FULLWORD | 4 | M | |
| (CC) | FULLWORD | 4 | T | |
| (D0) | STRUCTURE IsA(BUFFER) | 16 | WBO_SET_BUFFER | Address of SET buffer |
| (D0) | ADDRESS | 4 | P | |
| (D4) | FULLWORD | 4 | N | |
| (D8) | FULLWORD | 4 | M | |
| (DC) | FULLWORD | 4 | T | |
| (E0) | STRUCTURE IsA(BUFFER) | 16 | WBO_EXCESS_BODY_ BUFFER | Excess body (NOTRUNC) |
| (E0) | ADDRESS | 4 | P | |
| (E4) | FULLWORD | 4 | N | |
| (E8) | FULLWORD | 4 | M | |
| (EC) | FULLWORD | 4 | T | |
| (F0) | ADDRESS | 4 | WBO_HDR_BROWSE_PTR | Header browse buffer |
| (F4) | ADDRESS | 4 | WBO_HDR_NEXT_PTR | Header browse cursor |
| (F8) | HALFWORD | 2 | WBO_HTTP_VNUM | http version |
| (FA) | HALFWORD | 2 | WBO_HTTP_RNUM | http release |
| (FC) | UNSIGNED | 4 | WBO_HOSTBUF_LEN | Length of hostname |
| (100) | STRUCTURE IsA(BLOCK) | 8 | WBO_HOSTNAME | host name |
| (100) | ADDRESS | 4 | P | |
| (104) | FULLWORD | 4 | N | |
| (108) | STRUCTURE IsA(BLOCK) | 8 | WBO_PROXY_URL | proxy url |
| (108) | ADDRESS | 4 | P | |
| (10C) | FULLWORD | 4 | N | |
| (110) | STRUCTURE IsA(BLOCK) | 8 | WBO_PATH | path |
| (110) | ADDRESS | 4 | P | |
| (114) | FULLWORD | 4 | N | |
| (118) | CHARACTER | 8 | WBO_URIMAP | Urimap |
| (120) | UNSIGNED | 4 | WBO_RESP_CCsid | Response ccsid |
| (124) | STRUCTURE IsA(ETOKEN) | 8 | WBO_EXCESS_TOKEN | DBCS/MBCS excess token |
| (124) | ADDRESS | 4 | P | |
| (128) | FULLWORD | 4 | N | |
| (12C) | ADDRESS | 4 | WBO_EXCESS_INPUT_PTR | Excess input pointer |
| (130) | UNSIGNED | 4 | WBO_EXCESS_INPUT_LEN | Excess input length |
| (134) | STRUCTURE IsA(BUFFER) | 16 | WBO_EXCESS_INPUT_ BUFFER | Excess input buffer |

Table 679. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------------------------|-----|-------------------------|----------------------|
| (134) | ADDRESS | 4 | P | |
| (138) | FULLWORD | 4 | N | |
| (13C) | FULLWORD | 4 | M | |
| (140) | FULLWORD | 4 | T | |
| (144) | STRUCTURE IsA(BUFFER) | 16 | WBO_SET_BUFFER2 | 2nd set buffer |
| (144) | ADDRESS | 4 | P | |
| (148) | FULLWORD | 4 | N | |
| (14C) | FULLWORD | 4 | M | |
| (150) | FULLWORD | 4 | T | |
| (154) | UNSIGNED | 2 | WBO_PROXY_PORTNUMBER | Proxy port num |
| (156) | UNSIGNED | 1 | WBO_SOIS_IPADDRESSTYPE | saving address type |
| (157) | UNSIGNED | 1 | WBO_CIPHER_COUNT | Number of ciphers |
| (158) | CHARACTER | 28 | WBO_CIPHER_SUITES | Cipher codes for SSL |
| (174) | STRUCTURE IsA(ETOKEN) | 8 | WBO_CIPHER_TOKEN | Cipher token |
| (174) | ADDRESS | 4 | P | |
| (178) | FULLWORD | 4 | N | |
| (17C) | CHARACTER | 32 | WBO_CERTLABEL | Certificate label |
| (19C) | ADDRESS | 4 | WBO_USER_TOKEN | User Token |
| (1A0) | STRUCTURE IsA(BLOCK) | 8 | WBO_PROXY_HEADERS | Address of proxy |
| (1A0) | ADDRESS | 4 | P | |
| (1A4) | FULLWORD | 4 | N | |
| The wbo_client_server_block is also mapped by cbs_client_server_block. A similar block is located in wbs (wbs_client_server_block). If one of these blocks is changed, the other two should also be changed. | | | | |
| (1A8) | CHARACTER | 124 | WBO_CLIENT_SERVER_BLOCK | |
| (1A8) | BIT(8) | 1 | WBO_PEEK_FLAGS | |
| (1A9) | CHARACTER | 3 | * | |
| (1AC) | STRUCTURE IsA(BUFFER) | 16 | WBO_PEEK_HEADER_BUFFER | |
| (1AC) | ADDRESS | 4 | P | |
| (1B0) | FULLWORD | 4 | N | |
| (1B4) | FULLWORD | 4 | M | |
| (1B8) | FULLWORD | 4 | T | |
| (1BC) | ADDRESS | 4 | WBO SOCK_TOKEN | |
| (1C0) | STRUCTURE IsA(ETOKEN) | 8 | WBO_SESSION_TOKEN | |
| (1C0) | ADDRESS | 4 | P | |

Table 679. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------------------------|-----|-------------------------------|-------------------------|
| (1C4) | FULLWORD | 4 | N | |
| (1C8) | FULLWORD | 4 | WBO_HEADERS_PROCESSED_OFFSET | |
| (1CC) | FULLWORD | 4 | WBO_LENGTH_OF_HEADERS | |
| (1D0) | FULLWORD | 4 | WBO_LENGTH_OF_BODY | |
| (1D4) | FULLWORD | 4 | WBO_LENGTH_OF_BODY_RECEIVED | |
| (1D8) | FULLWORD | 4 | WBO_LENGTH_OF_BODY_IN_BUFFER1 | |
| (1DC) | FULLWORD | 4 | WBO_BODY_OFFSET | |
| (1E0) | FULLWORD | 4 | WBO_MEDIATYPE_OFFSET | |
| (1E4) | FULLWORD | 4 | WBO_MEDIATYPE_LENGTH | |
| (1E8) | FULLWORD | 4 | * | |
| (1EC) | FULLWORD | 4 | * | |
| (1F0) | FULLWORD | 4 | WBO_CHARSET_OFFSET | |
| (1F4) | FULLWORD | 4 | WBO_CHARSET_LENGTH | |
| (1F8) | FULLWORD | 4 | WBO_STATUS_TEXT_OFFSET | |
| (1FC) | FULLWORD | 4 | WBO_STATUS_TEXT_LENGTH | |
| (200) | FULLWORD | 4 | WBO_STATUS_CODE | |
| (204) | STRUCTURE IsA(BUFFER) | 16 | WBO_SEND_HEADERS_BUFFER | |
| (204) | ADDRESS | 4 | P | |
| (208) | FULLWORD | 4 | N | |
| (20C) | FULLWORD | 4 | M | |
| (210) | FULLWORD | 4 | T | |
| (214) | STRUCTURE IsA(BUFFER) | 16 | WBO_DISCARD_BUFFER | |
| (214) | ADDRESS | 4 | P | |
| (218) | FULLWORD | 4 | N | |
| (21C) | FULLWORD | 4 | M | |
| (220) | FULLWORD | 4 | T | |
| (224) | ADDRESS | 4 | WBO_AC_STR_PTR | ARM correlator str ptr |
| (228) | FULLWORD | 4 | WBO_AC_STR_LEN | ARM correlator str len |
| (22C) | 1... | | WBO_PROCESS_AC | Process ARM correlator? |
| (22C) | .111 1111 | | * | Alignment padding |
| (22D) | CHARACTER | 16 | WBO_ADSFX | ApplData suffix |
| (23D) | UNSIGNED | 1 | WBO_OPEN_AUTHENTICATION | Open authentication |
| (23E) | CHARACTER | 10 | * | Alignment padding |
| (248) | CHARACTER | 0 | * | End of WBO |

Table 680.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|------------------------------|
| (0) | STRUCTURE | 128 | WBOX_SESSION_ EXTENSION | Web outbound extension |
| (0) | HALFWORD | 2 | WBOX_LEN | Length of WBO extension |
| (2) | CHARACTER | 14 | WBOX_EYECATCHER | Eyecatcher >DFHWBOSESSEXT |
| (10) | ADDRESS | 4 | WBOX_SESSION_PTR | Address of owning WBO |
| (14) | CHARACTER | 1 | WBOX_EXTENSION_TYPE | Type of extension |
| (15) | BIT(8) | 1 | WBOX_FLAGS | Extension flags |
| (16) | BIT(16) | 2 | * | Reserved |
| (18) | CHARACTER | 104 | WBOX_EXTENSION_ OVERLAY | |
| (18) | CHARACTER | 104 | WBOX_REALM_DATA | Realm extension overlay |
| (18) | HALFWORD | 2 | WBOX_REALM_LEN | Length of realm name |
| (1A) | CHARACTER | 102 | WBOX_REALM_NAME | Partner's realm name |
| (80) | CHARACTER | 0 | * | End of WBO extension |

Table 681.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|----------------------------|
| (0) | STRUCTURE | 32 | TXN_WBO_ANCHOR | |
| (0) | HALFWORD | 2 | TXN_WBO_LEN | length of this block |
| (2) | CHARACTER | 14 | TXN_WBO_EYECATCHER | Eyecatcher >DFHWBTXNWBO |
| (10) | ADDRESS | 4 | * | unused |
| (14) | ADDRESS | 4 | * | unused |
| (18) | ADDRESS | 4 | TXN_WBO_FIRST | TXN/WBO chain: first |
| (1C) | ADDRESS | 4 | TXN_WBO_LAST | TXN/WBO chain: last |

WBCLC - Web client parameter list

Table 682.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|-------------------------------|
| (0) | STRUCTURE | 160 | DFHWBCLI_ARG | |
| (0) | UNSIGNED | 1 | WBCLI_VERSION_NO | Parameter list version |
| (1) | UNSIGNED | 1 | WBCLI_FUNCTION | Function requested |
| (2) | UNSIGNED | 1 | WBCLI_METHOD | HTTP method requested |
| (3) | BIT(8) | 1 | WBCLI_FLAGS | Miscellaneous flags |
| (3) | 1... | | WBCLI_OFFSET_MODE | Pointers are commarea offsets |
| (3) | .1.. | | WBCLI_DOCUMENT | Request body is CICS document |
| (3) | ..1. | | WBCLI_USE_PROXY | Request is via a proxy |
| (3) | ...1 | | WBCLI_SET_RESP_BUFFER | CICS will get response buffer |

Table 682. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|-------------------------------|
| (3) | 11.. | | * | Reserved |
| (3) |1. | | WBCLI_NATIVE_REQUEST_BODY | Don't translate request |
| (3) |1 | | WBCLI_NATIVE_RESPONSE_BODY | Don't translate response |
| (4) | HALFWORD | 2 | WBCLI_RESPONSE | Function response code |
| (6) | HALFWORD | 2 | WBCLI_REASON | Function reason code |
| (8) | CHARACTER | 8 | WBCLI_SESSION_TOKEN | Session token |
| (10) | ADDRESS | 4 | WBCLI_URL_PTR | Address of requested URL |
| (14) | FULLWORD | 4 | WBCLI_URL_LEN | Length of requested URL |
| (18) | ADDRESS | 4 | WBCLI_PROXY_URL_PTR | Address of proxy URL |
| (1C) | FULLWORD | 4 | WBCLI_PROXY_URL_LEN | Length of proxy URL |
| (20) | ADDRESS | 4 | WBCLI_HEADER_PTR | Address of request headers |
| (24) | FULLWORD | 4 | WBCLI_HEADER_LEN | Length of request headers |
| (28) | CHARACTER | 16 | WBCLI_REQUEST_DOCTOKEN | Request body document token |
| (28) | CHARACTER | 8 | WBCLI_REQUEST_BODY | Request body buffer structure |
| (28) | ADDRESS | 4 | WBCLI_REQUEST_BODY_PTR | Address of request body |
| (2C) | FULLWORD | 4 | WBCLI_REQUEST_BODY_LEN | Length of request body |
| (38) | CHARACTER | 8 | WBCLI_RESPONSE_BODY | Response buffer structure |
| (38) | ADDRESS | 4 | WBCLI_RESPONSE_BODY_PTR | Address of response buffer |
| (3C) | FULLWORD | 4 | WBCLI_RESPONSE_BODY_LEN | Length of response buffer |
| (40) | CHARACTER | 40 | WBCLI_MEDIATYPE | IANA media type of body |
| (68) | CHARACTER | 40 | WBCLI_CHARSET | IANA charset of body |
| (90) | CHARACTER | 10 | WBCLI_HOST_CODEPAGE | EBCDIC codepage of CICS host |
| (9A) | CHARACTER | 3 | * | Reserved |
| (9D) | CHARACTER | 3 | WBCLI_HTTP_STATUS_CODE | HTTP status code |
| (A0) | CHARACTER | 0 | * | |

Constants

Table 683.

| Len | Type | Value | Name | Description |
|-----|---------|-------|------------------------------|-------------|
| 1 | DECIMAL | 1 | WBCLI_VERSION_CURRENT | |
| 1 | DECIMAL | 0 | WBCLI_FUNCTION_CONVERSE | |
| 1 | DECIMAL | 1 | WBCLI_FUNCTION_SEND | |
| 1 | DECIMAL | 2 | WBCLI_FUNCTION_RECEIVE | |
| 1 | DECIMAL | 3 | WBCLI_FUNCTION_INQUIRE_PROXY | |
| 1 | DECIMAL | 4 | WBCLI_FUNCTION_CLOSE | |

Table 683. (continued)

| Len | Type | Value | Name | Description |
|-----|---------|-------|------------------------------------|-------------|
| 1 | DECIMAL | 1 | WBCLI_METHOD_GET | |
| 1 | DECIMAL | 2 | WBCLI_METHOD_POST | |
| 1 | DECIMAL | 3 | WBCLI_METHOD_HEAD | |
| 1 | DECIMAL | 4 | WBCLI_METHOD_PUT | |
| 1 | DECIMAL | 5 | WBCLI_METHOD_DELETE | |
| 1 | DECIMAL | 6 | WBCLI_METHOD_LINK | |
| 1 | DECIMAL | 7 | WBCLI_METHOD_UNLINK | |
| 1 | DECIMAL | 8 | WBCLI_METHOD_REQUEUE | |
| 1 | DECIMAL | 9 | WBCLI_METHOD_OPTIONS | |
| 1 | DECIMAL | 10 | WBCLI_METHOD_TRACE | |
| 2 | DECIMAL | 0 | WBCLI_RESPONSE_OK | |
| 2 | DECIMAL | 4 | WBCLI_RESPONSE_EXCEPTION | |
| 2 | DECIMAL | 8 | WBCLI_RESPONSE_DISASTER | |
| 2 | DECIMAL | 1 | WBCLI_REASON_INVALID_URL | |
| 2 | DECIMAL | 2 | WBCLI_REASON_INVALID_HEADER | |
| 2 | DECIMAL | 3 | WBCLI_REASON_INVALID_DOCUMENT | |
| 2 | DECIMAL | 4 | WBCLI_REASON_GETMAIN_ERROR | |
| 2 | DECIMAL | 5 | WBCLI_REASON_PROXY_ERROR | |
| 2 | DECIMAL | 6 | WBCLI_REASON_SOCKET_ERROR | |
| 2 | DECIMAL | 7 | WBCLI_REASON_HTTP_ERROR | |
| 2 | DECIMAL | 8 | WBCLI_REASON_TRANSLATE_ERROR | |
| 2 | DECIMAL | 9 | WBCLI_REASON_TRUNCATED | |
| 2 | DECIMAL | 10 | WBCLI_REASON_INVALID_HEADER_LENGTH | |
| | | | | |
| 2 | DECIMAL | 11 | WBCLI_REASON_INVALID_BODY_LENGTH | |
| | | | | |

WBCDC - Web Interface Converter parms

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5655-Y04

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This copybook defines the parameter lists which are passed to the 2 functions

(DECODE and ENCODE)
of the user replaceable converter program.

The top level definition for dfhcommarea.

Table 684.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-------------|
| (0) | STRUCTURE | * | DFHCOMMAREA | |
| (0) | CHARACTER | * | COMM_PARMLIST | |

--

The fields at the start of the converter commarea must be accessible independent of the converter function being called. These declarations provide a definition of the commarea in terms of these common fields.

< Variable >
Meaning

< converter_parms >
The high-level definition of the parameter area passed to the converter in the COMMAREA.

< converter_eyecatcher >
The eyecatcher used to determine that the converter COMMAREA is not corrupt. The value it takes varies depending on the converter function involved. The possible values are defined in the DFHWBUCx copybook.

< converter_function >
The value used to determine which converter function is involved on this call. Possible values are the constants DECODE, ENCODE.

< converter_response >
The fullword response value produced by a converter which has not been passed a valid converter_function value. The recommended response in this circumstance is URP_INVALID.

< converter_reason >
The fullword reason value returned by a converter which has not been passed a valid converter_function value. No reason values are architected for this error situation in the CICS Web Browser Interface. Users may define their own values.

< converter_parmlist >
The rest of the parameters. The structure of this data varies depending on which converter function is involved.

Table 685.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|-------------|
| (0) | STRUCTURE | * | CONVERTER_PARMS | |
| (0) | CHARACTER | 8 | CONVERTER_EYECATCHER | |

Table 685. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-------------|
| (8) | CHARACTER | 1 | CONVERTER_VERSION | |
| (9) | CHARACTER | 1 | CONVERTER_VOLATILE | |
| (A) | HALFWORD | 2 | CONVERTER_FUNCTION | |
| (C) | UNSIGNED | 4 | CONVERTER_RESPONSE | |
| (10) | UNSIGNED | 4 | CONVERTER_REASON | |
| (14) | CHARACTER | * | CONVERTER_PARMLIST | |

--

These declarations define the parameter list which is passed to the DECODE function of the user replaceable converter program. It is called by the server controller.

The variables in the decode parameter list are as follows:

< Variable >
Meaning

< decode_eyecatcher > (input)
A character field to contain an eyecatcher to help with diagnostics and provide a sanity check for the Converter program if required. The Server Controller sets this to the value of constant DECODE_EYECATCHER_INIT before calling decode.

< decode_version > (input)
@LIC
A single-character parameter-list version identifier. It will change whenever the layout of the parameter list changes. Possible values:
Binary zero (X'00') -- pre-CICS/TS1.3 version parameter list
Character zero (X'F0') -- CICS/TS1.3 version parameter list
Character one (X'F1') -- CICS/TS4.1 version parameter list

< decode_volatile > (input)
A single-character code that indicates whether the data area pointed to by "decode_data_ptr" can be replaced or not:
'0' -- The area cannot be replaced: it is part of another commarea.
'1' -- The storage pointed to by "decode_data_ptr" can be freed and replaced by a different size workarea.

< decode_function > (input)
A halfword set to the constant value URP_DECODE . Set to indicate to the converter the function required.

< decode_response > (output)
The response value produced by decode.
Possible values are:

- URP_OK
- URP_EXCEPTION
- URP_INVALID
- URP_DISASTER

< decode_reason > (output)
The reason for a response produced by decode.
The architected values for EXCEPTION responses are:

- URP_SECURITY_FAILURE

Other values may be supplied and given user-defined meanings.

< decode_client_address > (input)

The IP address of the client (ipv4 only).

< decode_client_address_string > (input)

The IP address of the client in "ww.xx.yy.zz" format. (ipv4 only)

< decode_data_ptr > (input / output)

A pointer to the HTTP request sent by the client.

< decode_method_ptr > (input)

Pointer to the method specified on the HTTP request sent by the client.

< decode_http_version_ptr > (input)

Pointer to a string identifying the HTTP version supported by the client.

< decode_http_resource_ptr > (input)

Pointer to the CICS resource requested by the client. In HTTP protocol terminology, this is the "absolute path" information in the HTTP request. Because CICS does not have any concept of "paths" or the hierarchical file systems on which paths rely, we have elected to use a term more appropriate to CICS in our documentation.

< decode_request_header_ptr > (input)

Pointer to the first HTTP header in the HTTP request. There are usually multiple HTTP headers for each HTTP request. Each header is delimited by a CR+LF. The end of the header information is delimited by a null header (that is, an additional CR+LF following final HTTP header).

< decode_user_data_ptr > (input)

A pointer to any user data for this HTTP request.

< decode_method_length > (input)

Length of the method specified on the HTTP request sent by the client.

< decode_http_version_length > (input)

Length of the string identifying the version of HTTP supported by the client.

< decode_http_resource_length > (input)

Length of the string containing the HTTP header information for this HTTP request. This length includes the lengths of all the delimiting CR+LFs for all the headers, including the final CR+LF of the null header which signals the end of the headers.

< decode_request_header_length > (input)

Length of the string identifying the CICS resource requested by supported by the client.

< decode_user_data_length > (input)

Length of the user data.

< decode_input_data_len > (output)

The server input data length associated with the program processing the HTTP request. This is set to the default 32767, but can be overwritten in decode, possibly to reflect information contained in the client data. This length is used as INPUTDATALength on the EXEC CICS LINK to the user program.

< decode_output_data_len > (output)
The server output data length associated with the program processing the HTTP request. This is set to the default 32767, but can be overwritten in decode, possibly to reflect information contained in the client data. It is the size of the output commarea.

< decode_server_program > (input / output)
The CICS program invoked to process the incoming HTTP request. Initialised to the program name allocated by the ATTACH exit for the requested URL. The program name can be changed by the analyzer.

< decode_user_token > (input / output)
A token for use by users. Could for example identify any state data associated with this HTTP request.

< decode_entry_count > (input)
This parameter shows how many times the decode and encode converter functions have been executed in the current CWI execution. It is useful when looping back from encode.

< decode_client_ip_v6_address > (input)
@LIA
The IP address of the client. This field will contain either an ipv4 (in mapped format) or ipv6 client address.

< decode_client_address_ip_v6_string > (input)
@LIA
The IP address of the client in displayable format. If the client is ipv4 then a dotted decimal format will be storage here. And if the client is ipv6 then an IPV6 (colon formatted) address will be supplied.

Table 686.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|-------------|
| (0) | STRUCTURE | 160 | DECODE_PARMS | |
| (0) | CHARACTER | 8 | DECODE_EYECATCHER | |
| (8) | CHARACTER | 1 | DECODE_VERSION | |
| (9) | CHARACTER | 1 | DECODE_VOLATILE | |
| (A) | HALFWORD | 2 | DECODE_FUNCTION | |
| (C) | UNSIGNED | 4 | DECODE_RESPONSE | |
| (10) | UNSIGNED | 4 | DECODE_REASON | |
| (14) | UNSIGNED | 4 | DECODE_CLIENT_ADDRESS | |
| (18) | CHARACTER | 15 | DECODE_CLIENT_ADDRESS_STRING | |
| (27) | CHARACTER | 1 | * | |
| (28) | ADDRESS | 4 | DECODE_DATA_PTR | |
| (2C) | ADDRESS | 4 | DECODE_METHOD_PTR | |
| (30) | ADDRESS | 4 | DECODE_HTTP_VERSION_PTR | |
| (34) | ADDRESS | 4 | DECODE_RESOURCE_PTR | |
| (38) | ADDRESS | 4 | DECODE_REQUEST_HEADER_PTR | |

Table 686. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------------|------------------|
| (3C) | ADDRESS | 4 | DECODE_USER_DATA_PTR | |
| (40) | HALFWORD | 2 | DECODE_METHOD_LENGTH | |
| (42) | HALFWORD | 2 | DECODE_HTTP_VERSION_LENGTH | |
| (44) | HALFWORD | 2 | DECODE_RESOURCE_LENGTH | |
| (46) | HALFWORD | 2 | DECODE_REQUEST_HEADER_LENGTH | |
| (48) | FULLWORD | 4 | DECODE_INPUT_DATA_LEN | |
| (4C) | HALFWORD | 2 | DECODE_USER_DATA_LENGTH | |
| (4E) | CHARACTER | 2 | * | unused/reserved |
| (50) | FULLWORD | 4 | DECODE_OUTPUT_DATA_LEN | |
| (54) | CHARACTER | 8 | DECODE_SERVER_PROGRAM | |
| (5C) | CHARACTER | 8 | DECODE_USER_TOKEN | |
| (64) | FULLWORD | 4 | DECODE_ENTRY_COUNT | |
| (68) | CHARACTER | 16 | DECODE_CLIENT_IPV6_ADDRESS | ipv6 address |
| (68) | CHARACTER | 12 | DECODE_CLIENT_IPV6_IP6PFX | for ipv4 compatb |
| (74) | CHARACTER | 4 | DECODE_CLIENT_IPV6_IPADDR4 | |
| (78) | CHARACTER | 39 | DECODE_CLIENT_IPV6_ADDRESS_STRING | display addr |
| (9F) | CHARACTER | 1 | * | unused/reserved |

--

These declarations define the parameter list which is passed to the ENCODE function of the user replaceable Converter program. It is called by the alias program if data mapping of the remote procedure's output is required. The parameter list is passed as a commarea from the alias.

< Variable >
Meaning

< encode_eyecatcher >
A character field to contain an eyecatcher to help with diagnostics and provide a sanity check for the Converter program if required. The alias sets this to the value of constant ENCODE_EYECATCHER_INIT before calling encode.

< encode_version > (input)
A single-character parameter-list version identifier. It will change whenever the layout of the parameter list changes.
Possible values:
Binary zero (X'00') -- pre-CICS/TS1.3 version parameter list
Character zero (X'F0') -- CICS/TS1.3 version parameter list

< encode_volatile > (input)
A single-character code that indicates whether the data area pointed to by "encode_data_ptr" can be replaced or not:
'0' -- The area cannot be replaced: it is part of another commarea.
'1' -- The storage pointed to by "encode_data_ptr" can be freed

and replaced by a different size workarea.

< encode_function > (input)

A halfword set to the constant value URP_ENCODE .

This is set by the alias before linking to the converter program. It allows the converter to determine which function is being requested.

< encode_response > (output)

The fullword response value produced by decode.

Possible values are:

- URP_OK
- URP_EXCEPTION
- URP_INVALID
- URP_DISASTER

< encode_reason > (output)

The fullword reason value returned by encode for response values other than OK. No reason values are architected for encode in the CICS Web Browser Interface.

Users may define their own values.

< encode_data_ptr > (input)

A pointer reference to the storage area containing the output from the server program which is to be manipulated by the encode function

< encode_input_data_len > (input)

A fullword field indicating the length of the data to be encoded by the converter.

< encode_user_token > (input)

A token for use by users. Could for example identify any state data associated with this HTTP request.

< encode_entry_count > (input)

This parameter shows how many times the decode and encode converter functions have been executed in the current CWI execution. It is useful when looping back from encode.

Table 687.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|-------------|
| (0) | STRUCTURE | 40 | ENCODE_PARMS | |
| (0) | CHARACTER | 8 | ENCODE_EYECATCHER | |
| (8) | CHARACTER | 1 | ENCODE_VERSION | |
| (9) | CHARACTER | 1 | ENCODE_VOLATILE | |
| (A) | HALFWORD | 2 | ENCODE_FUNCTION | |
| (C) | UNSIGNED | 4 | ENCODE_RESPONSE | |
| (10) | UNSIGNED | 4 | ENCODE_REASON | |
| (14) | ADDRESS | 4 | ENCODE_DATA_PTR | |
| (18) | FULLWORD | 4 | ENCODE_INPUT_DATA_LEN | |
| (1C) | CHARACTER | 8 | ENCODE_USER_TOKEN | |
| (24) | FULLWORD | 4 | ENCODE_ENTRY_COUNT | |

WBEPC - Web Error Program parms

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These declarations define the commarea which is passed to the user replaceable Web Error program by the CICS WEB Interface via a Program Manager Domain EXEC_LINK call.

Variable
Meaning

< wbep_length > (input)
Length of DFHWBEP copybook

< wbep_eyecatcher >
A character field to contain an eyecatcher to help with diagnostics.
The caller sets this to '>wbepca '
before calling the Web Error Program

< wbep_version >
Version of DFHWBEP copybook being passed by CICS

< wbep_error_code > (input)
The two byte signed binary number indicating the cause of the original error. Constants which this field may contain can be found in copybook DFHWBUCC.

< wbep_abend_code > (input)
The four character abend code associated with this exception.

< wbep_message_number > (input)
Message number associated with this exception

< wbep_message_ptr > (input)
A pointer to the CICS message text associated with this exception

< wbep_response_len > (input)
The full word length of the HTTP error response to be returned to the HTTP client. On entry to DFHWBEP this contains the default CICS HTTP error response for the reported error.

< wbep_response_ptr > (input)
A pointer to the 32K buffer containing the HTTP error response to be returned to the HTTP client. On entry to DFHWBEP this contains the default HTTP error response returned by CICS for the reported error.

< wbep_response_len > (input)
The full word length of the response message text associated with this exception.

< wbep_client_address_len > (input)
One byte field containing the length of the address contained in wbep_client_address

< wbep_client_address > (input)

The 39 character TCPIP address of the client.

< wbep_server_address_len > (input)
One byte field containing the length of the address contained in
wbep_server_address

< wbep_server_address > (input)
The 39 character TCPIP address of the TCP/IP stack on which this
request was received

< wbep_tcpipservice_name > (input)
Name of the TCPIP SERVICE associated with the failing request

< wbep_converter_program > (input)
The 8 character name of the converter program associated with this
request

< wbep_target_program > (input)
The target program associated with the web request.

< wbep_failing_program > (input)
The program which CICS was invoking when the failure occurred

< wbep_http_response_code > (input)
HTTP error response code CICS is returning for this error.
This can be overridden by changing the content of the buffer
containing the HTTP response

< wbep_analyzer_response > (input)
Response code returned by analyzer program

< wbep_analyzer_reason > (input)
Reason code returned by analyzer program

< wbep_converter_response > (input)
Response code returned by converter program

< wbep_converter_reason > (input)
Reason code returned by converter program

Table 688.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------|-----------------|
| (0) | STRUCTURE | 208 | DFHWPBPC | |
| (0) | CHARACTER | 12 | WBEP_PREFIX | |
| (0) | HALFWORD | 2 | WBEP_LENGTH | |
| (2) | CHARACTER | 8 | WBEP_EYECATCHER | |
| (A) | HALFWORD | 2 | WBEP_VERSION | |
| (C) | CHARACTER | 196 | WBEP_DATA | |
| (C) | HALFWORD | 2 | WBEP_ERROR_CODE | |
| (E) | BIT(8) | 1 | WBEP_FLAGS | indicator flags |
| (E) | 1... | | WBEP_SUPPRESS_ABEND | suppress if set |
| The filler bits in WBEP_FLAGS are permanently reserved due to complexity of bit manipulation in cobol. | | | | |
| (E) | .111 1111 | | * | DO NOT USE |
| (F) | UNSIGNED | 1 | WBEP_ACTIVITY | |

Table 688. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|-----------------|
| (10) | CHARACTER | 4 | WBEP_ABEND_CODE | |
| (14) | FULLWORD | 4 | WBEP_MESSAGE_NUMBER | |
| (18) | ADDRESS | 4 | WBEP_MESSAGE_PTR | |
| (1C) | FULLWORD | 4 | WBEP_MESSAGE_LEN | |
| (20) | ADDRESS | 4 | WBEP_RESPONSE_PTR | |
| (24) | FULLWORD | 4 | WBEP_RESPONSE_LEN | |
| (28) | UNSIGNED | 1 | WBEP_CLIENT_ADDRESS_LEN | |
| (29) | CHARACTER | 15 | WBEP_CLIENT_ADDRESS | |
| (38) | UNSIGNED | 1 | WBEP_SERVER_ADDRESS_LEN | |
| (39) | CHARACTER | 15 | WBEP_SERVER_ADDRESS | |
| (48) | CHARACTER | 8 | WBEP_TCIPSERVICE_NAME | |
| (50) | CHARACTER | 8 | WBEP_CONVERTER_PROGRAM | |
| (58) | CHARACTER | 8 | WBEP_TARGET_PROGRAM | |
| (60) | CHARACTER | 8 | WBEP_FAILING_PROGRAM | |
| (68) | FULLWORD | 4 | WBEP_HTTP_RESPONSE_CODE | |
| (6C) | FULLWORD | 4 | WBEP_ANALYZER_RESPONSE | |
| (70) | FULLWORD | 4 | WBEP_ANALYZER_REASON | |
| (74) | FULLWORD | 4 | WBEP_CONVERTER_RESPONSE | |
| (78) | FULLWORD | 4 | WBEP_CONVERTER_REASON | |
| (7C) | CHARACTER | 1 | WBEP_CLOSE_CONN | |
| (7D) | CHARACTER | 3 | * | unused/reserved |
| (80) | UNSIGNED | 1 | WBEP_CLIENT_IPV6_ADDRESS_LEN | length next fld |
| (81) | CHARACTER | 39 | WBEP_CLIENT_IPV6_ADDRESS | client addr |
| (A8) | UNSIGNED | 1 | WBEP_SERVER_IPV6_ADDRESS_LEN | length next fld |
| (A9) | CHARACTER | 39 | WBEP_SERVER_IPV6_ADDRESS | server addr |
| (D0) | CHARACTER | 0 | * | |

Constants

Table 689.

| Len | Type | Value | Name | Description |
|---------------------------------------|---------|-------|----------------------|------------------|
| ----- WBEP Version number ----- | | | | |
| 2 | DECIMAL | 1 | WBEP_VERSION_CTS130 | |
| 2 | DECIMAL | 2 | WBEP_VERSION_CTS410 | |
| 2 | DECIMAL | 2 | WBEP_CURRENT_VERSION | |
| 4 | DECIMAL | 0 | WBEP_ACTIVITY_SERVER | Acting as server |

Table 689. (continued)

| Len | Type | Value | Name | Description |
|-----|---------|-------|---------------------------|-----------------------|
| 4 | DECIMAL | 1 | WBEP_ACTIVITY_CLIENT | Acting as client |
| 4 | DECIMAL | 2 | WBEP_ACTIVITY_PIPELINE | |
| | | | | Acting as pipeline |
| 4 | DECIMAL | 3 | WBEP_ACTIVITY_ATOMSERVICE | |
| | | | | Acting as atomservice |

WBGDS - Web Domain (URIMAP)

CONTROL BLOCK NAME = DFHWBGDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHWBGPS
 DESCRIPTIVE NAME = CICS TS Web Domain (Urimap) Global Statistics
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 (C) Copyright IBM Corp. 2004, 2013
 FUNCTION =
 This data area contains the web urimap global statistics provided by the Web Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the Web Domain to store statistics to be passed to the user in response to a for urimap global statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHWBGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 690.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|--------------------------------|
| (0) | STRUCTURE | 0 | DFHWBGDS | Web Urimap Global stats record |
| (0) | HALFWORD | 2 | WBGDS_LEN | Web Urimap stats record length |
| (2) | ADDRESS | 2 | WBGDS_ID | Web Urimap stats id |
| (4) | CHARACTER | 1 | WBGDS_VERS | Web Urimap stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | WBG_URIMAP_REFERENCE_COUNT | Urimap reference count |

Table 690. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|----------------------------|---|
| (C) | FULLWORD | 4 | WBG_URIMAP_MATCH_DISABLED | Urimap host/path match disabled |
| (10) | FULLWORD | 4 | WBG_URIMAP_NO_MATCH_COUNT | Urimap host/path no match |
| (14) | FULLWORD | 4 | WBG_URIMAP_MATCH_COUNT | Urimap host/path match |
| (18) | FULLWORD | 4 | WBG_URIMAP_MATCH_REDIRECT | Urimap host/path match redirect |
| (1C) | FULLWORD | 4 | WBG_URIMAP_MATCH_ANALYZER | Urimap host/path match analyzer |
| (20) | FULLWORD | 4 | WBG_URIMAP_STATIC_CONTENT | Urimap static content |
| (24) | FULLWORD | 4 | WBG_URIMAP_DYNAMIC_CONTENT | Urimap dynamic content |
| (28) | FULLWORD | 4 | WBG_URIMAP_PIPELINE_REQS | Urimap pipeline requests |
| (2C) | FULLWORD | 4 | WBG_URIMAP_SCHEME_HTTP | Urimap scheme(http) requests |
| (30) | FULLWORD | 4 | WBG_URIMAP_SCHEME_HTTPS | Urimap scheme(https) requests |
| (34) | FULLWORD | 4 | | Reserved |
| (38) | FULLWORD | 4 | WBG_HOST_DISABLED_COUNT | Host disabled count |
| (3C) | FULLWORD | 4 | WBG_URIMAP_ATOMSERV_REQS | Urimap atomservice requests |
| (40) | FULLWORD | 4 | WBG_URIMAP_JVMSEVER_REQS | Urimap JVMServer requests |
| (44) | FULLWORD | 4 | WBG_URIMAP_ENTRYPOINT_REF | Urimap entryptpoint ref count |
| (48) | BITSTRING | 8 | | Reserved |
| (50) | BITSTRING | 16 | | Reserved |
| (50) | .11. | | WBGDS_END | "1&1" |
| (50) | .11. | | WBGDS_LENGTH | "*-WBGDS_LEN" Web Urimap Global record length |
| Constants that denote a WB urimap global stats record | | | | |
| (50) | .11. .1.1 | | WBGIDE | "101" Web Urimap global stats id |
| (50) |1 | | WBG_VERS | "X'01" Record version number |

WBRDS - Web Domain (URIMAP)

CONTROL BLOCK NAME = DFHWBRDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHWBRPS
 DESCRIPTIVE NAME = CICS TS Web Domain (Urimap) Statistics
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 (C) Copyright IBM Corp. 2004, 2013
 FUNCTION =
 This data area contains the web urimap statistics provided by the Web Domain.

It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.

There is a single instance of this data block.

LIFETIME =

This data block is created by the Web Domain to store statistics to be passed to the user in response to a for urimap statistics. The storage is released when the user task is detached.

The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =

LOCATION =

The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = None

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHWBRDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 691.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|--------------------------------|
| (0) | STRUCTURE | 0 | DFHWBRDS | Web Urimap Resid stats record |
| (0) | HALFWORD | 2 | WBRDS_LEN | Web Urimap stats record length |
| (2) | ADDRESS | 2 | WBRDS_ID | Web Urimap stats id |
| (4) | CHARACTER | 1 | WBRDS_VERS | Web Urimap stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | WBR_URIMAP_NAME | Urimap name |
| (10) | BITSTRING | 1 | WBR_URIMAP_USAGE | Urimap usage |
| (11) | BITSTRING | 1 | WBR_URIMAP_SCHEME | Urimap scheme |
| (12) | BITSTRING | 1 | WBR_URIMAP_ANALYZER_USE | Urimap analyzer program use |
| (13) | BITSTRING | 1 | WBR_URIMAP_REDIRECT_TYPE | Urimap redirection type |
| (14) | BITSTRING | 1 | WBR_URIMAP_AUTHENTICATE | Urimap authenticate |
| (15) | BITSTRING | 2 | | Reserved |
| (17) | BITSTRING | 1 | WBR_URIMAP_ENTRYPOINT | Urimap app entry point |
| (18) | BITSTRING | 116 | WBR_URIMAP_HOSTNAME | Urimap hostname |
| (8C) | FULLWORD | 4 | WBR_URIMAP_PORT | Urimap port |
| (90) | BITSTRING | 255 | WBR_URIMAP_PATH | Urimap path |
| (18F) | BITSTRING | 1 | | Reserved |
| (190) | BITSTRING | 48 | WBR_URIMAP_TEMPLATENAME | Urimap templatenam |
| (1C0) | BITSTRING | 255 | WBR_URIMAP_HFSFILE | Urimap hfsfile |
| (2BF) | BITSTRING | 1 | | Reserved |
| (2C0) | BITSTRING | 255 | WBR_URIMAP_LOCATION | Urimap location |
| (3BF) | BITSTRING | 1 | | Reserved |

Table 691. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|--------------------------------|--|
| (3C0) | BITSTRING | 4 | | Reserved |
| (3C4) | CHARACTER | 4 | WBR_URIMAP_TRANS_ID | Urimap transaction id |
| (3C8) | CHARACTER | 8 | WBR_URIMAP_TCPIPSERVICE | Urimap tcpip service name |
| (3D0) | CHARACTER | 8 | WBR_URIMAP_CONVERTER | Urimap converter name |
| (3D8) | CHARACTER | 8 | WBR_URIMAP_PROGRAM_NAME | Urimap program name |
| (3E0) | CHARACTER | 32 | WBR_URIMAP_WEBSERVICE | Urimap webservice name |
| (400) | CHARACTER | 8 | WBR_URIMAP_PIPELINE | Urimap pipeline name |
| (408) | CHARACTER | 8 | WBR_URIMAP_ATOMSERVICE | Urimap atom service name |
| (410) | FULLWORD | 4 | WBR_URIMAP_REFERENCE_COUNT | Urimap reference count |
| (414) | FULLWORD | 4 | WBR_URIMAP_MATCH_DISABLED | Urimap host/path match disabled |
| (418) | FULLWORD | 4 | WBR_URIMAP_MATCH_REDIRECT | Urimap host/path match redirect |
| (41C) | BITSTRING | 4 | | Reserved |
| (420) | FULLWORD | 4 | WBR_URIMAP_SOCKETCLOSE | Timeout value |
| (424) | FULLWORD | 4 | WBR_URIMAP_SOCKETPOOLSIZE | Curr no. in pool |
| (428) | FULLWORD | 4 | WBR_URIMAP_SOCKETPOOLSIZE_PEAK | Peak in pool |
| (42C) | FULLWORD | 4 | WBR_URIMAP_SOCKETS_RECLAIMED | Reclaimed from the pool |
| (430) | FULLWORD | 4 | WBR_URIMAP_SOCKETS_TIMEDOUT | Timedout while in pool |
| (434) | BITSTRING | 12 | | Reserved |
| (440) | CHARACTER | 39 | WBR_URIMAP_IP_ADDRESS | Urimap IP Address |
| (467) | CHARACTER | 1 | WBR_URIMAP_IP_FAMILY | Urimap IP Family |
| (468) | BITSTRING | 16 | | Reserved |
| (478) | CHARACTER | 8 | WBR_URIMAP_DEFINE_SOURCE | Group installed from |
| (480) | BITSTRING | 8 | WBR_URIMAP_CHANGE_TIME | Change/create time |
| (488) | CHARACTER | 8 | WBR_URIMAP_CHANGE_USERID | Change userid |
| (490) | BITSTRING | 2 | WBR_URIMAP_CHANGE_AGENT | Change agent |
| (492) | BITSTRING | 2 | WBR_URIMAP_INSTALL_AGENT | Install agent |
| (494) | BITSTRING | 8 | WBR_URIMAP_INSTALL_TIME | Install/Create time |
| (49C) | CHARACTER | 8 | WBR_URIMAP_INSTALL_USERID | Install userid |
| (49C) | | 0 | WBRDS_END | "*" |
| (49C) | | 0 | WBRDS_LENGTH | "*-WBRDS_LEN" Web Urimap record length |
| Constants that denote a WB urimap stats record | | | | |
| (49C) | .11. 1... | | WBRIDR | "104" Web Urimap resid stats id |
| (49C) |1 | | WBR_VERS | "X'01" Record version number |

Table 691. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------------------|--|
| (49C) |1 | | WBR_USAGE_SERVER | "X'01" Urimap usage - Server |
| (49C) |1. | | WBR_USAGE_CLIENT | "X'02" Urimap usage - Client |
| (49C) |11 | | WBR_USAGE_PIPELINE | "X'03" Urimap usage - Pipeline |
| (49C) |1.. | | WBR_USAGE_ATOM | "X'04" Urimap usage - Atom |
| (49C) |1.1 | | WBR_USAGE_JVMSEVER | "X'05" Urimap usage - JVMServer |
| (49C) |1 | | WBR_SCHEME_HTTP | "X'01" Urimap scheme - HTTP |
| (49C) |1. | | WBR_SCHEME_HTTPS | "X'02" Urimap scheme - HTTPS |
| (49C) |1 | | WBR_ANALYZER_NO | "X'01" Urimap Analyzer use - No |
| (49C) |1. | | WBR_ANALYZER_YES | "X'02" Urimap Analyzer use - Yes |
| (49C) |1 | | WBR_REDIRECTION_NONE | "X'01" Urimap Redirection type - None |
| (49C) |1. | | WBR_REDIRECTION_TEMP | "X'02" Urimap Redirection type - Temporary |
| (49C) |11 | | WBR_REDIRECTION_PERM | "X'03" Urimap Redirection type - Permanent |
| (49C) | .... .... |  | WBR_AUTHENTICATE_NONE | "X'00" Urimap Authenticate - None |
| (49C) |1 | | WBR_AUTHENTICATE_BASIC | "X'01" Urimap Authenticate - Basic |
| (49C) |1 | | WBR_ENTRYPOINT_NO | "X'01" Urimap App entry point - No |
| (49C) |1. | | WBR_ENTRYPOINT_YES | "X'02" Urimap App entry point - Yes |
| (49C) | .... .... |  | WBR_IP_FAMILY_UNKNOWN | "X'00" Urimap IP family = Unknown |
| (49C) |1 | | WBR_IP_FAMILY_IPV4 | "X'01" Urimap IP family = IPv4 |
| (49C) |1. | | WBR_IP_FAMILY_IPV6 | "X'02" Urimap IP family = IPv6 Change Agents |
| (49C) |1 | | WBR_CSDAPI_CHANGE | "0001" CSD API |
| (49C) |1. | | WBR_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (49C) |11 | | WBR_DREPAPI_CHANGE | "0003" DREP API |
| (49C) |1.. | | WBR_CREATE_CHANGE | "0004" EXEC CREATE SPI |
| (49C) | 1... | | WBR_DYNAMIC_CHANGE | "0008" DYNAMIC Install Agents |
| (49C) |1 | | WBR_CSDAPI_INSTALL | "0001" CSD API |
| (49C) |1.. | | WBR_CREATE_INSTALL | "0004" EXEC CREATE SPI |

Table 691. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|----------------|
| (49C) | 1.1 | | WBR_GRPLIST_INSTALL | "0005" GRPLIST |
| (49C) | 1... | | WBR_DYNAMIC_INSTALL | "0008" DYNAMIC |
| (49C) | 1..1 | | WBR_BUNDLE_INSTALL | "0009" BUNDLE |

WBTDC - Web Interface Analyzer Parms

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5655-Y04

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These declarations define the parameter list which is passed to the ANALYZER program by the server controller component on an EXEC CICS LINK.

< Variable >

Meaning

< wbra_eyecatcher >

A character field to contain an eyecatcher to help with diagnostics and provide a sanity check for the analyzer. Server Controller sets this to the value of constant WBRA_EYECATCHER_INIT before calling the analyzer.

< wbra_response > (output)

The fullword response value produced by the analyzer. Possible values are:

- URP_OK
- URP_EXCEPTION
- URP_INVALID
- URP_DISASTER

< wbra_reason > (output)

The fullword reason value returned by the analyzer for response values other than OK. No reason values are architected for the analyzer in the CICS Web Browser Interface. Users may define their own values.

< wbra_server_program > (input output)

@PQC

The CICS program to be used for this HTTP request.

< wbra_converter_program > (input output)

@PQC

The converter to be used for this HTTP request.

< wbra_userid > (input output)

@PQC

The userid which is to be used on the EXEC CICS START for the alias transaction for this HTTP request.

< wbra_alias_tranid > (input output)

@PQC

The alias transaction ID to be used for this HTTP request.

< wbra_alias_termid > (output)

The termid to be used on the START request for the alias.

< wbra_user_token > (output)
A char(8) token which uniquely identifies the HTTP request being processed.

< wbra_dfhcnv_key > (output)
A char(8) name to be used as the key into the DFHCNV table for the codepage translation of the user data for this request.

< wbra_version > (input)
@LIA
A single-character parameter-list version identifier.
It will change whenever the layout of the parameter list changes.
Possible values:
Binary zero (X'00') -- pre-CICS/TS4.1 version parameter list
Character one (X'F1') -- CICS/TS4.1 version parameter list

< wbra_client_ip_address > (input)
The TCP/IP address of the client.

< wbra_server_ip_address > (input)
The TCP/IP address of the CICS system.

< wbra_resource_escaped_ptr > (input)
@P7C
Pointer to a copy of the HTTP headers which have not been unescaped

< wbra_method_ptr > (input)
Pointer to the method specified on the HTTP request sent by the client.

< wbra_http_version_ptr > (input)
Pointer to a string identifying the HTTP version supported by the client.

< wbra_http_resource_ptr > (input)
Pointer to the CICS resource requested by the client. In HTTP protocol terminology, this is the "absolute path" information in the HTTP request. Because CICS does not have any concept of "paths" or the hierarchical file systems on which paths rely, we have elected to use a term more appropriate to CICS in our documentation.

< wbra_request_header_ptr > (input)
Pointer to the first HTTP header in the HTTP request. There are usually multiple HTTP headers for each HTTP request. Each header is delimited by a CR+LF. The end of the header information is delimited by a null header (that is, an additional CR+LF following final HTTP header).

< wbra_user_data_ptr > (input)
Pointer to the user data section of the input data. For a non-HTTP request this will point to the start of the received data.

< wbra_method_length > (input)
Length of the method specified on the HTTP request sent by the client.

< wbra_http_version_length > (input)
Length of the string identifying the version of HTTP supported by the client.

< wbra_http_resource_length > (input)
Length of the string containing the HTTP header information for this HTTP request.

< wbra_request_header_length > (input)
 Length of the string identifying the
 CICS resource requested by supported by the client.
 This length includes the lengths of all the delimiting CR+LFs
 for all the headers, including the final CR+LF of the null header
 which signals the end of the headers.

< wbra_user_data_length > (input output)
 @01C
 Length of the user data section of the input data. For a non-HTTP
 request this will be the length of the entire received block.

< wbra_old_request_type > (input)
 @07C
 A value indicating whether the request to be analyzed is HTTP
 @07C
 or non-HTTP(note that this parameter has been relocated to
 @07C
 the end of the parameter list. This is because it was
 @07A
 defined as bin(8) which when converted for the PL/1
 @07A
 version of the commarea caused misalignment.
 @07A

< wbra_unescape > (output)
 @L9A
 A value indicating whether the user forms data is to be unescaped
 by CICS.
 @01A
 < wbra_content_length > (input)
 @01A
 Length of the user data section of the input data as
 @01A
 specified in the <Content-Lenth> HTTP header.
 @01A

< wbra_urimap > (input)
 @LB A
 The URIMAP associated with the request.

< wbra_commarea > (output)
 @LCA
 A flag indicating that the server application is commarea style
 @LCA
 and we should therefore process as for HTTP/1.0
 @LCA
 Not setting this bit causes the default setting to apply - the
 @LCA
 application will be assumed to be WEB API style.
 @LCA

< wbra_characterset > (output)
 @POC
 The IANA character set to be used during data conversion.

< wbra_hostcodepage > (output)
 @POC
 The host IBM codepage to be used during data conversion.

< wbra_hostname_ptr > (input)
 Pointer to the hostname on the HTTP request sent by the
 client. This will have been taken from the URI if it is
 absolute or from the host header if not.

< wbra_querystring_ptr > (input)
 Pointer to the querystring (if any) on the HTTP request

sent by the client.

< wbra_hostname_length > (input)
Length of the hostname.

< wbra_querystring_length > (input)
Length of the querystring.

@07A

< wbra_request_type > (input)

@07A

A value indicating whether the request to be analyzed is

@07A

HTTP or non-HTTP.

@07A

< wbra_client_ipv6_address > (input)

@LIA

The TCP/IP address of the client. If the client is ipv4 then a mapped formatted of the ipv4 address will be available here.

< wbra_server_ipv6_address > (input)

@LIA

The TCP/IP address of the CICS system. If the server is ipv4 then a mapped formatted of the ipv4 address will be available here.

The top level definition for dfhcommarea.

Table 692.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-------------|
| (0) | STRUCTURE | * | DFHCOMMAREA | |
| (0) | CHARACTER | * | COMM_PARMLIST | |

--

Table 693.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|-------------|
| (0) | STRUCTURE | 224 | WBRA_PARMs | |
| (0) | CHARACTER | 8 | WBRA_EYECATCHER | Constant |
| (8) | UNSIGNED | 4 | WBRA_FUNCTION | Input |
| (C) | UNSIGNED | 4 | WBRA_RESPONSE | Output |
| (10) | UNSIGNED | 4 | WBRA_REASON | Output |
| (14) | CHARACTER | 8 | WBRA_SERVER_PROGRAM | In \| Output |
| (1C) | CHARACTER | 8 | WBRA_CONVERTER_ PROGRAM | In \| Output |
| (24) | CHARACTER | 8 | WBRA_USERID | In \| Output |
| (2C) | CHARACTER | 4 | WBRA_ALIAS_TRANID | In \| Output |
| (30) | CHARACTER | 4 | WBRA_ALIAS_TERMID | Output |
| (34) | CHARACTER | 8 | WBRA_USER_TOKEN | Output |
| (3C) | CHARACTER | 8 | WBRA_DFHCNV_KEY | Output |
| (44) | UNSIGNED | 4 | WBRA_CLIENT_IP_ ADDRESS | Input |
| (48) | UNSIGNED | 4 | WBRA_SERVER_IP_ ADDRESS | Input |

Table 693. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|-----------------|
| (4C) | ADDRESS | 4 | WBRA_RESOURCE_ESCAPED_PTR | Input |
| (50) | ADDRESS | 4 | WBRA_METHOD_PTR | Input |
| (54) | ADDRESS | 4 | WBRA_HTTP_VERSION_PTR | Input |
| (58) | ADDRESS | 4 | WBRA_RESOURCE_PTR | Input |
| (5C) | ADDRESS | 4 | WBRA_REQUEST_HEADER_PTR | Input |
| (60) | ADDRESS | 4 | WBRA_USER_DATA_PTR | Input |
| (64) | HALFWORD | 2 | WBRA_METHOD_LENGTH | Input |
| (66) | HALFWORD | 2 | WBRA_HTTP_VERSION_LENGTH | Input |
| (68) | HALFWORD | 2 | WBRA_RESOURCE_LENGTH | Input |
| (6A) | HALFWORD | 2 | WBRA_REQUEST_HEADER_LENGTH | Input |
| (6C) | HALFWORD | 2 | WBRA_USER_DATA_LENGTH | In \| Output |
| (6E) | CHARACTER | 1 | WBRA_OLD_REQUEST_TYPE | Input |
| (6F) | CHARACTER | 1 | WBRA_UNESCAPE | |
| (70) | UNSIGNED | 4 | WBRA_CONTENT_LENGTH | Input |
| (74) | CHARACTER | 8 | WBRA_URI_MAP | Input |
| (7C) | BIT(8) | 1 | WBRA_APPLICATION_STYLE | Output |
| (7C) | 1... | | WBRA_COMMAREA | Output |
| (7C) | .111 1111 | | * | Reserved |
| (7D) | CHARACTER | 40 | WBRA_CHARACTERSET | Output |
| (A5) | CHARACTER | 10 | WBRA_HOSTCODEPAGE | Input |
| (AF) | CHARACTER | 1 | WBRA_VERSION | Input |
| (B0) | ADDRESS | 4 | WBRA_HOSTNAME_PTR | Input |
| (B4) | ADDRESS | 4 | WBRA_QUERYSTRING_PTR | Input |
| (B8) | HALFWORD | 2 | WBRA_HOSTNAME_LENGTH | Input |
| (BA) | HALFWORD | 2 | WBRA_QUERYSTRING_LENGTH | Input |
| (BC) | HALFWORD | 2 | WBRA_REQUEST_TYPE | Input |
| (BE) | CHARACTER | 2 | * | Unused(aligned) |
| (C0) | CHARACTER | 16 | WBRA_CLIENT_IPV6_ADDRESS | Input |
| (C0) | CHARACTER | 12 | WBRA_CLIENT_IPV6_IP6PFX | Input |
| (CC) | CHARACTER | 4 | WBRA_CLIENT_IPV6_IPADDR4 | Input |
| (D0) | CHARACTER | 16 | WBRA_SERVER_IPV6_ADDRESS | Input |
| (D0) | CHARACTER | 12 | WBRA_SERVER_IPV6_IP6PFX | Input |
| (DC) | CHARACTER | 4 | WBRA_SERVER_IPV6_IPADDR4 | Input |
| (E0) | CHARACTER | 0 | * | End of struct |

WBTL - Web Interface Template Manager

Table 694.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|-------------|
| (0) | STRUCTURE | 56 | DFHWBTL_ARG | |
| (0) | UNSIGNED | 2 | WBTL_VERSION_NO | |
| (2) | HALFWORD | 2 | WBTL_FUNCTION | |
| (4) | HALFWORD | 2 | WBTL_RESPONSE | |
| (6) | HALFWORD | 2 | WBTL_REASON | |
| (8) | CHARACTER | 8 | WBTL_CONNECT_TOKEN | |
| (10) | CHARACTER | 8 | WBTL_TEMPLATE_NAME | |
| (18) | CHARACTER | 8 | WBTL_TEMPLATE_ABSTIME | |
| (20) | ADDRESS | 4 | WBTL_TEMPLATE_BUFFER_PTR | |
| (24) | FULLWORD | 4 | WBTL_TEMPLATE_BUFFER_LEN | |
| (28) | ADDRESS | 4 | WBTL_SYMBOL_LIST_PTR | |
| (2C) | FULLWORD | 4 | WBTL_SYMBOL_LIST_LEN | |
| (30) | ADDRESS | 4 | WBTL_HTML_BUFFER_PTR | |
| (34) | FULLWORD | 4 | WBTL_HTML_BUFFER_LEN | |
| (38) | CHARACTER | 0 | * | |

Constants

Table 695.

| Len | Type | Value | Name | Description |
|---|---------|-------|-------------------------|-------------|
| <p>Licensed Materials - Property of IBM</p> <p>5655-Y04</p> <p>(C) Copyright IBM Corp. 1996, 2009 All Rights Reserved.</p> <p>This is the parameter list for the CICS Web Interface Template Manager, DFHWBTL.</p> <p>-----</p> <p>The Template Manager supports the following functions:</p> <p>BUILD_HTML_PAGE This function builds a whole HTML page from a specified template, using optional symbol substitution. This function is a composite of all the other HTML building functions of this module.</p> <p>START_HTML_PAGE This function initializes an environment for the ADD_HTML_TEMPLATE function, and optionally builds an symbol table from the list supplied in the parameter SYMBOL_LIST. It returns a token in CONNECT_TOKEN that represents the created environment.</p> <p>ADD_HTML_SYMBOLS This function adds further symbols to the symbol table created by START_HTML_PAGE. The names of the symbols are case-sensitive. If a symbol is added with the same name as one that is already defined, the new symbol definition replaces the old one.</p> <p>READ_HTML_TEMPLATE This function reads a named HTML template into main storage. If the template named in WBTL_TEMPLATE_NAME exists as a member of the partitioned dataset allocated to the DFHHTML data definition statement, it is read into main storage. The address and length of the storage containing the buffer are returned in WBTL_TEMPLATE_BUFFER_PTR and WBTL_TEMPLATE_BUFFER_LEN, and the template name is cleared to binary zeroes.</p> <p>ADD_HTML_TEMPLATE This function interprets an HTML template by substituting into it the current values of the symbols.</p> <p>END_HTML_PAGE This function destroys the environment created by the START_HTML_PAGE function, and releases any storage acquired by earlier functions in the sequence.</p> <p>-----</p> | | | | |
| 2 | DECIMAL | 1 | WBTL_BUILD_HTML_PAGE | |
| 2 | DECIMAL | 2 | WBTL_START_HTML_PAGE | |
| 2 | DECIMAL | 3 | WBTL_ADD_HTML_SYMBOLS | |
| 2 | DECIMAL | 4 | WBTL_READ_HTML_TEMPLATE | |
| 2 | DECIMAL | 5 | WBTL_ADD_HTML_TEMPLATE | |
| 2 | DECIMAL | 6 | WBTL_END_HTML_PAGE | |
| <p>The following is the value that should be specified in WBTL_VERSION_NO to show the level at which the calling module was compiled.</p> <p>-----</p> | | | | |
| 2 | DECIMAL | 0 | WBTL_CURRENT_VERSION | |

Table 695. (continued)

| Len | Type | Value | Name | Description |
|--|---------|-------|--------------------------|-------------|
| 2 | DECIMAL | 56 | WBTL_PARAMETER_LEN | |
| The following are the possible responses from the DFHWBTL program. | | | | |
| ----- | | | | |
| 2 | DECIMAL | 0 | WBTL_OK | |
| 2 | DECIMAL | 4 | WBTL_EXCEPTION | |
| 2 | DECIMAL | 8 | WBTL_INVALID | |
| 2 | DECIMAL | 12 | WBTL_DISASTER | |
| The following are the possible responses from the DFHWBTL program, if the returned reason is not OK. | | | | |
| ----- | | | | |
| 2 | DECIMAL | 1 | WBTL_INVALID_FUNCTION | |
| 2 | DECIMAL | 2 | WBTL_INVALID_TOKEN | |
| 2 | DECIMAL | 3 | WBTL_INVALID_SYMBOL_LIST | |
| 2 | DECIMAL | 4 | WBTL_INVALID_BUFFER_PTR | |
| 2 | DECIMAL | 5 | WBTL_FEATURE_INACTIVE | |
| 2 | DECIMAL | 6 | WBTL_TEMPLATE_NOT_FOUND | |
| 2 | DECIMAL | 7 | WBTL_TEMPLATE_TRUNCATED | |
| 2 | DECIMAL | 8 | WBTL_PAGE_TRUNCATED | |
| 2 | DECIMAL | 9 | WBTL_GETMAIN_ERROR | |
| 2 | DECIMAL | 10 | WBTL_FREEMAIN_ERROR | |
| 2 | DECIMAL | 11 | WBTL_INVALID_VERSION | |

W2AP - Web2.0 DFHATOMPARMS container

CONTROL BLOCK NAME = DFHW2APC
 DESCRIPTIVE NAME = CICS TS (W2) DFHATOMPARMS container
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 5655-Y04
 (C) Copyright IBM Corp. 2008
 FUNCTION = Mapping of DFHATOMPARMS container passed to
 resource-dependent Atom service routines.
 NOTES :
 DEPENDENCIES = z/Arch
 RESTRICTIONS =
 MODULE TYPE = Control block definition

DFHATOMPARMS container

This copybook contains a mapping of fields in the DFHATOMPARMS container, which is intended to be used at the parameter list for the resource-dependent service routine called by the Atomservice feed manager.

ATMP_OPTIONS

Address of a double word containing 64 option bits.

The first word is used to send options to the service routine, and the second word is used to receive options from the service routine.

ATMP_RESPONSE

Address of a double word in which the response and reason code can be returned. These are both initialized to zero, indicating successful completion.

ATMP_RESNAME

Address of a double word containing a pointer to the CICS resource name, followed by its length.

ATMP_RESTYPE

Address of a double word containing a pointer to the CICS resource type name in uppercase, followed by its length. The type can be PROGRAM, FILE, or TSQUEUE.

ATMP_ATOMTYPE

Address of a double word containing a pointer to the type of Atom document being processed, in lowercase, followed by its length. The value of the type string is either "entry" or "feed".

ATMP_ATOMID

Address of a triple word containing the address of a buffer containing Atom request identifier from the atom:id element, followed by its length, followed by the total length of the containing buffer. When handling a POST request, you can use this buffer to return a new atom id to represent the newly constructed resource.

ATMP_HTTPMETH

Address of a double word containing a pointer to the HTTP method padded with spaces, followed by its length. It is one of GET, POST, PUT or DELETE.

ATMP_TAG_AUTHORITY

Address of a double word containing a pointer to a URI authority name, followed by its length. The authority name is a host name or email address that can be used by the service routine to construct tag scheme URIs as described in RFC4151.

ATMP_TAG_DATE

Address of a double word containing a pointer to a date associated with ATMP_TAG_AUTHORITY, followed by its length. The date is in ISO8601 format (YYYY-MM-DD) and is a date at which this system is permitted to use the authority named in ATMP_TAG_AUTHORITY for minting tag scheme URIs.

ATMP_XMLTRANSFORM

Address of a double word containing a pointer to the name of an XMLTRANSFORM resource, followed by its length. The XMLTRANSFORM resource describes the layout of records within the CICS resource being externalized in the feed. If the length of this name is zero, it indicates that no bindfile was specified for the resource, and the service routine must perform its own mapping.

ATMP_ROOT_ELEMENT

Address of a double word containing a pointer to the name of the root element of the XML structure being mapped by the XMLTRANSFORM resource, followed by its length.

ATMP_MTYPEIN

Address of a double word containing a pointer to the mediatype of the incoming HTTP request body, if any, followed by its length. It is only meaningful if the HTTP method is POST or PUT, otherwise the pointer and length are both zero.

ATMP_MTYPEOUT

Address of a double word containing a pointer to an area in which the routine must return the mediatype of the data being returned in the DFHATOMCONTENT container, followed by the length of that area (56 bytes). On entry to the service routine, this area contains the requested content type: "text", "html", "xhtml", or a mediatype such as "text/xml", that can be used to control the format of document returned.

ATMP_PUBLISHED

Address of a double word containing a pointer to an area in which the routine must return the date and time at which the

returned document was first published, followed by the length of that area (32 bytes). The value must be returned in xs:dateTime format, which is the same as RFC3339 format, (namely yyyy-mm-ddThh:mm:ss.fffZ) or as spaces. The .fff fractional seconds are optional, and may be omitted. If spaces are returned, the current time is assumed.

ATMP_UPDATED

Address of a double word containing a pointer to an area in which the routine must return the date and time at which the returned document was last updated, followed by the length of that area (32 bytes). The value must be returned in xs:dateTime format, which is the same as RFC3339 format, (namely yyyy-mm-ddThh:mm:ss.fffZ) or as spaces. The .fff fractional seconds are optional, and may be omitted. If spaces are returned, the current time is assumed.

ATMP_EDITED

Address of a double word containing a pointer to an area in which the routine must return the date and time at which the returned document was last edited, followed by the length of that area (32 bytes). The value must be returned in xs:dateTime format, which is the same as RFC3339 format, (namely yyyy-mm-ddThh:mm:ss.fffZ) or as spaces. The .fff fractional seconds are optional, and may be omitted. If spaces are returned, the current time is assumed.

ATMP_ETAGVAL

Address of a double word containing a pointer to the Etag value for the selected record, followed by its length. The Etag (or entity tag) is any string that can be used to identify the record instance uniquely.

ATMP_WINSIZE

Address of a double word containing a pointer to the feed window size, followed by its length. The value is a numeric string that contains the default number of entries to be returned in each feed.

ATMP_SELECTOR

Address of a double word containing a pointer to the selector value from the URL, followed by its length. This parameter is used to select the record in the CICS resource that is to be accessed.

ATMP_NEXTSEL

Address of a double word into which the service routine should set a pointer and length of a selector value for the next record in the resource, if any.

ATMP_PREVSEL

Address of a double word into which the service routine should set a pointer and length of a selector value for the previous record in the resource, if any.

ATMP_FIRSTSEL

Address of a double word into which the service routine should set a pointer and length of a selector value for the first (newest) record in the resource, if any.

ATMP_LASTSEL

Address of a double word into which the service routine should set a pointer and length of a selector value for the last (oldest) record in the resource, if any.

ATMP_ID_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains the atom identifier from the atom:id element, if present, followed by its length. If it is present, the service routine should use this named field to store the contents of the atom:id element

ATMP_PUBLISHED_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains the time when the resource was first published, if present, followed by its length. If no such field exists, the pointer and length are

both zero. If it is present, the service routine should use this named field to locate the value of the timestamp that can be used to construct the value returned in the ATMP_PUBLISHED parameter. This parameter may be all spaces if the resource does not contain such a field.

ATMP_UPDATED_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains the time when the resource was last updated, if present, followed by its length. If no such field exists, the pointer and length are both zero. If it is present, the service routine should use this named field to locate the value of the timestamp that can be used to construct the value returned in the ATMP_UPDATED parameter. This parameter may be all spaces if the resource does not contain such a field.

ATMP_EDITED_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains the time when the resource was last edited, if present, followed by its length. If no such field exists, the pointer and length are both zero. If it is present, the service routine should use this named field to locate the value of the timestamp that can be used to construct the value returned in the ATMP_EDITED parameter. This parameter may be all spaces if the resource does not contain such a field.

ATMP_KEY_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains the key (RIDFLD) for File Control operations, if any, followed by its length. This is only relevant for key-sequenced VSAM files (KSDS).

ATMP_TITLE_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains the Atom title of the represented entry, if present, followed by its length. If it is present, the service routine should use this named field to locate the entry title, and return it in the DFHATOMTITLE container.

ATMP_SUBTITLE_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains the Atom subtitle of the represented entry, if present, followed by its length. If it is present, the service routine should use this named field to locate the entry subtitle, and return it in the DFHATOMSUBTITLE container.

ATMP_SUMMARY_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains the Atom summary of the represented entry, if present, followed by its length. If it is present, the service routine should use this named field to locate the entry summary, and return it in the DFHATOMSUMMARY container.

ATMP_CONTENT_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains the whole content of the represented entry, if present, followed by its length. If this field is not present, the entire contents of the record will be returned.

ATMP_CONTENT_TYPE_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains the content type of the represented entry, if present, followed by its length. This field is used in combination with ATMP_CONTENT_FLD when you are returning data that is not structured XML, such as plain text or escaped HTML. If this field is not present, a content type of "application/xml" is assumed.

ATMP_CATEGORY_FLD

Address of a double word containing a pointer to the name of

the field within the resource that contains the Atom categories of the represented entry, if present, followed by its length. If it is present, the service routine should use this named field to locate the entry summary, and return it in the DFHATOMCATEGORY container.

ATMP_AUTHOR_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains the name of the principal author of the record, followed by its length.

ATMP_AUTHORURI_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains a URI for the principal author of the record, followed by its length.

ATMP_EMAIL_FLD

Address of a double word containing a pointer to the name of the field within the resource that contains an email address for the principal author of the record, followed by its length.

Table 696.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|--------------------------------|
| (0) | STRUCTURE | 148 | ATMP_PARAMETER_LIST | |
| (0) | ADDRESS | 4 | ATMP_OPTIONS | Options bitstip |
| (4) | ADDRESS | 4 | ATMP_RESPONSE | Response/reason doubleword |
| (8) | ADDRESS | 4 | ATMP_RESNAME | CICS resource name |
| (C) | ADDRESS | 4 | ATMP_RESTYPE | CICS resource type |
| (10) | ADDRESS | 4 | ATMP_ATOMTYPE | Atom document type |
| (14) | ADDRESS | 4 | ATMP_ATOMID | Atom identifier |
| (18) | ADDRESS | 4 | ATMP_HTTPMETH | HTTP method |
| (1C) | ADDRESS | 4 | ATMP_TAG_AUTHORITY | Authority for tag URIs |
| (20) | ADDRESS | 4 | ATMP_TAG_DATE | Date for tag URIs |
| (24) | ADDRESS | 4 | ATMP_XMLTRANSFORM | XMLTRANSFORM resource name |
| (28) | ADDRESS | 4 | ATMP_ROOT_ELEMENT | Root element in bind file |
| (2C) | ADDRESS | 4 | ATMP_MTYPEIN | Mediatype of input |
| (30) | ADDRESS | 4 | ATMP_MTYPEOUT | Mediatype of output |
| (34) | ADDRESS | 4 | ATMP_PUBLISHED | Datestamp when first published |
| (38) | ADDRESS | 4 | ATMP_UPDATED | Datestamp when last updated |
| (3C) | ADDRESS | 4 | ATMP_EDITED | Datestamp when last edited |
| (40) | ADDRESS | 4 | ATMP_ETAGVAL | Entity tag value |
| (44) | ADDRESS | 4 | ATMP_WINSIZE | Feed window size |
| (48) | ADDRESS | 4 | ATMP_SELECTOR | Selector for current item |
| (4C) | ADDRESS | 4 | ATMP_NEXTSEL | Selector for next item |
| (50) | ADDRESS | 4 | ATMP_PREVSEL | Selector for previous item |
| (54) | ADDRESS | 4 | ATMP_FIRSTSEL | Selector for first item |
| (58) | ADDRESS | 4 | ATMP_LASTSEL | Selector for last item |
| (5C) | ADDRESS | 4 | ATMP_ID_FLD | Name of field for Atom id |

Table 696. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|-----------------------|--------------------------------|
| (60) | ADDRESS | 4 | ATMP_PUBLISHED_FLD | Name of field for PUBLISHED |
| (64) | ADDRESS | 4 | ATMP_UPDATED_FLD | Name of field for UPDATED |
| (68) | ADDRESS | 4 | ATMP_EDITED_FLD | Name of field for EDITED |
| (6C) | ADDRESS | 4 | ATMP_KEY_FLD | Name of field for KEY |
| (70) | ADDRESS | 4 | ATMP_TITLE_FLD | Name of field for TITLE |
| (74) | ADDRESS | 4 | ATMP_SUBTITLE_FLD | Name of field for SUBTITLE |
| (78) | ADDRESS | 4 | ATMP_SUMMARY_FLD | Name of field for SUMMARY |
| (7C) | ADDRESS | 4 | ATMP_CONTENT_FLD | Name of field for CONTENT |
| (80) | ADDRESS | 4 | ATMP_CONTENT_TYPE_FLD | Name of field for CONTENT TYPE |
| (84) | ADDRESS | 4 | ATMP_CATEGORY_FLD | Name of field for CATEGORY |
| (88) | ADDRESS | 4 | ATMP_AUTHOR_FLD | Name of field for AUTHOR |
| (8C) | ADDRESS | 4 | ATMP_AUTHORURI_FLD | Name of field for AUTHORURI |
| (90) | ADDRESS | 4 | ATMP_EMAIL_FLD | Name of field for AUTHOREMAIL |

Table 697.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|----------------------------|
| (0) | STRUCTURE | 8 | ATMP_RESPONSES | Addressed by ATMP_RESPONSE |
| (0) | UNSIGNED | 4 | ATMP_RESPONSE_CODE | Response code |
| (4) | UNSIGNED | 4 | ATMP_REASON_CODE | Reason code |

Table 698.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-------------------------------|
| (0) | STRUCTURE | 8 | ATMP_PARAMETER | Parameter locator double word |
| (0) | ADDRESS | 4 | ATMP_PARAMETER_PTR | Parameter address |
| (4) | FULLWORD | 4 | ATMP_PARAMETER_LEN | Parameter length |

Table 699.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|------------------------------------|
| (0) | STRUCTURE | 8 | ATMP_OPTIONS_BITS | Bits addressed by ATMP_OPTIONS |
| (0) | BIT(32) | 4 | ATMP_OPTIONS_INBIT | |
| (0) | BIT(8) | 1 | ATMP_INOPT_BYTE0 | |
| (0) | 1111 1... | | * | High five bits not usable in COBOL |

Table 699. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|------------------------------------|
| (0) | 1.. | | OPTFIRST | First entry within a feed |
| (1) | BIT(8) | 1 | ATMP_INOPT_BYTE1 | |
| (1) | 1... | | OPTSELHEX | Selector encoded in hexadecimal |
| (1) | .1.. | | OPTSELDEC | Selector encoded in decimal |
| (2) | BIT(8) | 1 | ATMP_INOPT_BYTE2 | |
| (3) | BIT(8) | 1 | ATMP_INOPT_BYTE3 | |
| (4) | BIT(32) | 4 | ATMP_OPTIONS_OUTBIT | |
| (4) | BIT(8) | 1 | ATMP_OUTOPT_BYTE0 | |
| (4) | 1111 1... | | * | High five bits not usable in COBOL |
| (4) | 1.. | | OPTPRVFEED | Prev link is for feed, not entry |
| (5) | BIT(8) | 1 | ATMP_OUTOPT_BYTE1 | |
| (5) | 1... | | OPTTITLE | DFHATOMTITLE container returned |
| (5) | .1.. | | OPTSUBTI | DFHATOMSUBTITLE container retn'd |
| (5) | ..1. | | OPTSUMMA | DFHATOMSUMMARY container returned |
| (5) | ...1 | | OPTCATEG | DFHATOMCATEGORY container retn'd |
| (5) | 1... | | OPTAUTHOR | DFHATOMAUTHOR container returned |
| (5) | 1.. | | OPTAUTHFML | DFHATOMEMAIL container returned |
| (5) |1. | | OPTAUTHURI | DFHATOMAUTHORURI container retn'd |
| (5) |1 | | * | Reserved |
| (6) | BIT(8) | 1 | ATMP_OUTOPT_BYTE2 | |
| (7) | BIT(8) | 1 | ATMP_OUTOPT_BYTE3 | |

Table 700.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---------------------------------|
| (0) | STRUCTURE | 8 | ATMP_OPTIONS_WORDS | Words addressed by ATMP_OPTIONS |
| (0) | UNSIGNED | 4 | ATMP_OPTIONS_IN | Input request bits (not used) |
| (4) | UNSIGNED | 4 | ATMP_OPTIONS_OUT | Output response bits |

W2AP - Web2.0 DFHATOMPARMS constant definitions

Constants

Table 701.

| Len | Type | Value | Name | Description |
|--|---------|----------|---------------------------|-------------------------|
| CONTROL BLOCK NAME = DFHW2CNC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHW2CND DESCRIPTIVE NAME = CICS TS (W2) DFHATOMPARMS constants Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 2008, 2009 STATUS = 6.9.0 FUNCTION = LIFETIME = STORAGE CLASS = LOCATION = INNER CONTROL BLOCKS = NOTES : DEPENDENCIES = z/Arch RESTRICTIONS = MODULE TYPE = Constant definitions PROCESSOR = PL/X ----- ATMP-OPTIONS-IN in COBOL, which cannot handle bit settings. | | | | |
| 4 | DECIMAL | 67108864 | OPTFIRST_NUM | OPTFIRST value |
| 4 | DECIMAL | 8388608 | OPTSELHEX_NUM | OPTSELHEX value |
| 4 | DECIMAL | 4194304 | OPTSELDEC_NUM | OPTSELDEC value |
| The following values can be used to set ATMP-OPTIONS-OUT in COBOL, which cannot handle bit settings. | | | | |
| 4 | DECIMAL | 67108864 | OPTPRVFEED_NUM | OPTPRVFEED value |
| 4 | DECIMAL | 8388608 | OPTTITLE_NUM | OPTTITLE value |
| 4 | DECIMAL | 4194304 | OPTSUBTI_NUM | OPTSUBTI value |
| 4 | DECIMAL | 2097152 | OPTSUMMA_NUM | OPTSUMMA value |
| 4 | DECIMAL | 1048576 | OPTCATEG_NUM | OPTCATEG value |
| 4 | DECIMAL | 524288 | OPTAUTHOR_NUM | OPTAUTHOR value |
| 4 | DECIMAL | 262144 | OPTAUTHEMPL_NUM | OPTAUTHEMPL value |
| 4 | DECIMAL | 131072 | OPTAUTHURI_NUM | OPTAUTHURI value |
| The following values specify the return codes that can be set in DFHATMP_RESPONSE. | | | | |
| 4 | DECIMAL | 0 | ATMP_RESP_NORMAL | Normal success response |
| 4 | DECIMAL | 4 | ATMP_RESP_NOT_FOUND | Resource not found |
| 4 | DECIMAL | 8 | ATMP_RESP_NOT_AUTH | Resource not authorized |
| 4 | DECIMAL | 12 | ATMP_RESP_DISABLED | Resource is disabled |
| 4 | DECIMAL | 16 | ATMP_RESP_ALREADY_EXISTS | |
| | | | | Resource already exists |
| 4 | DECIMAL | 20 | ATMP_RESP_ETAG_NO_MATCH | |
| | | | | If-Match compare failed |
| 4 | DECIMAL | 24 | ATMP_RESP_INVALID_REQUEST | |
| | | | | Request not valid |

Table 701. (continued)

| Len | Type | Value | Name | Description |
|--|---------|-------|-----------------------------|-------------------------|
| 4 | DECIMAL | 32 | ATMP_RESP_ACCESS_ERROR | |
| | | | | Other resource error |
| 4 | DECIMAL | 36 | ATMP_RESP_CONVERSION_FAILED | |
| | | | | XML Conversion error |
| 4 | DECIMAL | 40 | ATMP_RESP_UNUSABLE | Resource is unusable |
| The following values specify the reason codes that can be set in DFHATMP_REASON. | | | | |
| 4 | DECIMAL | 1 | ATMP_REAS_MALFORMED_REQUEST | |
| | | | | Malformed request XML |
| 4 | DECIMAL | 2 | ATMP_REAS_OMITTED_ENTRY | |
| | | | | No atom:entry element |
| 4 | DECIMAL | 3 | ATMP_REAS_OMITTED_CONTENT | |
| | | | | No atom:content element |
| 4 | DECIMAL | 4 | ATMP_REAS_UNSUPPORTED_TYPE | |
| | | | | Unknown content type |
| 4 | DECIMAL | 5 | ATMP_REAS_OMITTED_CICS_DATA | |
| | | | | No cics root element |
| 4 | DECIMAL | 6 | ATMP_REAS_TRANSFORM_ERROR | |
| | | | | XMLTRANSFORM error |

W2PC - Web2.0 ATOMPARAMETERS container

DESCRIPTIVE NAME = Web 2.0 Sample - ATOMPARAMETERS container
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DESCRIPTION

This copybook maps the parameters passed in the ATOMPARAMETERS container from DFH\$W2FD to the resource service routine. Each parameter passed in this container is a pointer to an eight byte area. The first parameter is a pointer to a 64-bit options string, whose definition is mapped by the ATMP_OPTIONS_BITS dsect. The second parameter is a pointer to two fullwords in which the response and reason code can be returned. The remaining parameters are pointers to pointer+length structures, in which the first word contains a pointer to the parameter's value and the second word contains its length.

The parameters in the container are as follows:

ATMP_OPTIONS

Address of a double word containing 64 option bits.
 The first word is used to send options to the service

routine, and the second word is used to receive options from the service routine.

ATMP_RESPONSE
Address of a double word in which the response and reason code can be returned. These are both initialized to zero, indicating successful completion.

ATMP_RESNAME
Address of a double word containing a pointer to the CICS resource name, followed by its length.

ATMP_RESTYPE
Address of a double word containing a pointer to the CICS resource type name in uppercase, followed by its length. The type can be PROGRAM, TSQUEUE, or FILE.

ATMP_ATOMTYPE
Address of a double word containing a pointer to the type of Atom document being processed, in lowercase, followed by its length. It is either entry or feed.

ATMP_ATOMID
Address of a double word containing a pointer to the unique Atom request identifier (from the atom:id element), followed by its length.

ATMP_SELECTOR
Address of a double word containing a pointer to the selector value from the URL, followed by its length. This parameter is used to select the record within the CICS resource that is to be accessed. In this implementation, the selector is the operand of the "s=" keyword within the querystring section of the URL.

ATMP_HTTPMETH
Address of a double word containing a pointer to the the HTTP method padded, followed by its length
It is GET, POST, PUT or DELETE.

ATMP_RLM
Address of a double word containing a pointer to the Resource Layout Mapping area, followed by its length.

ATMP_MTYPEIN
Address of a double word containing a pointer to the the mediatype of the incoming HTTP request body, if any, followed by its length. It is only meaningful if the HTTP method is POST or PUT, otherwise the pointer and length are both zero.

ATMP_MTYPEOUT
Address of a double word containing a pointer to an area in which the routine must return the mediatype of the data being returned in the ATOMCONTENT container, followed by the length of that area (56 bytes).

ATMP_UPDATED
Address of a double word containing a pointer to an area in which the routine must return the date and time at which the returned document was last updated, followed by the length of that area (32 bytes).
The value must be returned in xs:dateTime format, which is the same as RFC3339 format, namely yyyy-mm-ddThh:mm:ss.fffZ, or as spaces. (The .fff fractional seconds are optional, and may be omitted.)
If spaces are returned, the current time is assumed.

ATMP_ETAGVAL
Address of a double word containing a pointer to the Etag value for the selected record, followed by its length. The Etag (or entity tag) is any string that can be used to identify the record instance uniquely. It could be based on an accurate timestamp or version number, but in this implementation it is the hexadecimal value of the binary checksum of the record derived by the CKSM machine instruction.
The checksum may theoretically sometimes be the same

for different record instances, but this is likely to be rare. It is "probably good enough" for its primary purpose of guarding against the updating of data in a PUT operation that was derived from data that was previously obtained in a GET operation but is now stale (i.e. it was updated by someone else since the GET request had completed).

ATMP_WINSIZE

Address of a double word containing a pointer to the feed window size, followed by its length. The value is a numeric string that contains the default number of entries to be returned in each feed,

ATMP_NEXTSEL

Address of a double word into which the service routine should set a pointer and length of a selector value for the next record in the resource, if any.

ATMP_PREVSEL

Address of a double word into which the service routine should set a pointer and length of a selector value for the previous record in the resource, if any.

ATMP_FIRSTSEL

Address of a double word into which the service routine should set a pointer and length of a selector value for the first (newest) record in the resource, if any.

ATMP_LASTSEL

Address of a double word into which the service routine should set a pointer and length of a selector value for the last (oldest) record in the resource, if any.

ATMP_ID_FLD

Address of a double word containing a pointer to the NAME OF THE FIELD within the resource that contains the atom identifier (from the atom:id element), if present, followed by its length. If it is present, the service routine should use this named field to store the contents of the atom:id element.

ATMP_UPDATED_FLD

Address of a double word containing a pointer to the NAME OF THE FIELD within the resource that contains the time when the resource was last updated, if present, followed by its length. If no such field exists, the pointer and length are both zero. If it is present, the service routine should use this named field to locate the value of the timestamp that can be used to construct the value returned in the UPDATED parameter. This may be all spaces if the resource does not contain such a field.

ATMP_KEY_FLD

Address of a double word containing a pointer to the NAME OF THE FIELD within the resource that contains the key (RIDFLD) for File Control operations, if any, followed by its length. Only relevant when the resource type is FILE.

ATMP_TITLE_FLD

Address of a double word containing a pointer to the NAME OF THE FIELD within the resource that contains the Atom title of the represented entry, if present, followed by its length. If it is present, the service routine should use this named field to locate the entry title, and return it in the ATOMTITLE container.

ATMP_SUBTITLE_FLD

Address of a double word containing a pointer to the NAME OF THE FIELD within the resource that contains the Atom subtitle of the represented entry, if present, followed by its length.

If it is present, the service routine should use this named field to locate the entry subtitle, and return it in the ATOMSUBTITLE container.

ATMP_SUMMARY_FLD

Address of a double word containing a pointer to the NAME OF THE FIELD within the resource that contains the Atom summary of the represented entry, if present, followed by its length.

If it is present, the service routine should use this named field to locate the entry summary, and return it in the ATOMSUMMARY container.

Table 702.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|--|
| (0) | STRUCTURE | 100 | ATMP_PARAMETER_LIST | |
| (0) | ADDRESS | 4 | ATMP_OPTIONS | Address of 64-bit options bitmap |
| (4) | ADDRESS | 4 | ATMP_RESPONSE | Address of response/reason doubleword |
| (8) | ADDRESS | 4 | ATMP_RESNAME | Address of resource name ptr/length |
| (C) | ADDRESS | 4 | ATMP_RESTYPE | Address of resource type ptr/length |
| (10) | ADDRESS | 4 | ATMP_ATOMTYPE | Address of atom document type ptr/len |
| (14) | ADDRESS | 4 | ATMP_ATOMID | Address of atom id ptr/length |
| (18) | ADDRESS | 4 | ATMP_SELECTOR | Address of entry selector ptr/length |
| (1C) | ADDRESS | 4 | ATMP_HTTPMETH | Address of HTTP method ptr/length |
| (20) | ADDRESS | 4 | ATMP_RLM | Address of Resource Layout Mapping pt/ln |
| (24) | ADDRESS | 4 | ATMP_MTYPEIN | Address of inbound mediatype ptr/length |
| (28) | ADDRESS | 4 | ATMP_MTYPEOUT | Address of outbound mediatype ptr/len |
| (2C) | ADDRESS | 4 | ATMP_UPDATED | Address of updated timestamp ptr/len |
| (30) | ADDRESS | 4 | ATMP_ETAGVAL | Address of Etag value ptr/len |
| (34) | ADDRESS | 4 | ATMP_WINSIZE | Address of window size ptr/len |
| (38) | ADDRESS | 4 | ATMP_NEXTSEL | Address of next feed selector ptr/len |
| (3C) | ADDRESS | 4 | ATMP_PREVSEL | Address of prev feed selector ptr/len |
| (40) | ADDRESS | 4 | ATMP_FIRSTSEL | Address of first feed selector ptr/len |
| (44) | ADDRESS | 4 | ATMP_LASTSEL | Address of last feed selector ptr/len |

Table 702. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|-------------------|---------------------------------------|
| (48) | ADDRESS | 4 | ATMP_ID_FLD | Address of atom id fieldname ptr/len |
| (4C) | ADDRESS | 4 | ATMP_UPDATED_FLD | Address of updated fieldname ptr/len |
| (50) | ADDRESS | 4 | ATMP_KEY_FLD | Address of key fieldname ptr/length |
| (54) | ADDRESS | 4 | ATMP_TITLE_FLD | Address of title fieldname ptr/length |
| (58) | ADDRESS | 4 | ATMP_SUBTITLE_FLD | Address of subtitle fieldname ptr/len |
| (5C) | ADDRESS | 4 | ATMP_SUMMARY_FLD | Address of summary fieldname ptr/len |
| (60) | ADDRESS | 4 | ATMP_PARAMETER_25 | Address of URM parameter 25 (unused) |

Table 703.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|----------------------------|
| (0) | STRUCTURE | 8 | ATMP_RESPONSES | Addressed by ATMP_RESPONSE |
| (0) | UNSIGNED | 4 | ATMP_RESPONSE_CODE | Response code |
| (4) | UNSIGNED | 4 | ATMP_REASON_CODE | Reason code |

Table 704.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-------------------------------|
| (0) | STRUCTURE | 8 | ATMP_PARAMETER | Parameter locator double word |
| (0) | ADDRESS | 4 | ATMP_PARAMETER_PTR | Parameter address |
| (4) | FULLWORD | 4 | ATMP_PARAMETER_LEN | Parameter length |

Table 705.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|---------------------------------|
| (0) | STRUCTURE | 8 | ATMP_OPTIONS_BITS | Bits addressed by ATMP_OPTIONS |
| (0) | BIT(32) | 4 | ATMP_OPTIONS_INBIT | |
| (4) | BIT(32) | 4 | ATMP_OPTIONS_OUTBIT | |
| (4) | BIT(8) | 1 | ATMP_OUTOPT_BYTE0 | High byte not usable in COBOL |
| (5) | BIT(8) | 1 | ATMP_OUTOPT_BYTE1 | |
| (5) | 1... | | OPTTITLE | ATOMTITLE container returned |
| (5) | .1.. | | OPTSUBTI | ATOMSUBTITLE container returned |
| (5) | ..1. | | OPTSUMMA | ATOMSUMMARY container returned |

Table 705. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|-------------|
| (5) | ...1 1111 | | * | |
| (6) | BIT(8) | 1 | ATMP_OUTOPT_BYTE2 | |
| (7) | BIT(8) | 1 | ATMP_OUTOPT_BYTE3 | |

Table 706.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---------------------------------|
| (0) | STRUCTURE | 8 | ATMP_OPTIONS_WORDS | Words addressed by ATMP_OPTIONS |
| (0) | UNSIGNED | 4 | ATMP_OPTIONS_IN | Input request bits (not used) |
| (4) | UNSIGNED | 4 | ATMP_OPTIONS_OUT | Output response bits |

W2LC - Web2.0 Resource Layout Mapping

DESCRIPTIVE NAME = Web 2.0 Samples - Common macros

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FUNCTION = Common macros for use by SupportPac CA8K samples

DESCRIPTION

This copybook describes the layout of the Resource Layout Mapping structure that is passed to the Resource Service Routine from the Atom feed document generator sample program (DFH\$W2FD).

The RLM is used to specify the conversions from character-based items, such as those in an XML file, into the equivalent binary representations in a CICS resource, such as a TSqueue or file, and the reverse transformation from binary to character.

Table 707.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|-----------------------------|
| (0) | STRUCTURE | 80 | DFHRLM_HEADER | RLM header |
| (0) | CHARACTER | 8 | RLM_EYE_CATCHER | >DFHRLM< eyecatcher |
| (8) | FULLWORD | 4 | RLM_VERSION_MAJOR | Major version number |
| (C) | FULLWORD | 4 | RLM_VERSION_MINOR | Minor version number |
| (10) | FULLWORD | 4 | * | Reserved |
| (14) | FULLWORD | 4 | RLM_LENGTH | Total length of RLM |
| (18) | CHARACTER | 32 | RLM_NAME | Name of this RLM |
| (38) | FULLWORD | 4 | * | Reserved |
| (3C) | FULLWORD | 4 | RLM_STRUCT_SIZE | Size of described structure |
| (40) | CHARACTER | 16 | * | Reserved |

Table 708.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-------------|
| (0) | STRUCTURE | 1 | DFHRLM_ENTRY | |

Table 708. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|----------------|-------------|
| (0) | UNSIGNED | 1 | RLM_ENTRY_TYPE | |

 Type 1 record structure
 Data entry structure defining a single field to be converted.

Table 709.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|--------------------------------|
| (0) | STRUCTURE | 64 | DFHRLM_DATA_ENTRY | |
| (0) | UNSIGNED | 1 | RLM1_ENTRY_TYPE | Data entry, type='X'01' |
| (1) | UNSIGNED | 1 | RLM1_CONVERT_TYPE | Conversion type |
| (2) | HALFWORD | 2 | RLM1_DATA_COUNT | Length, or decimal digit count |
| (4) | UNSIGNED | 1 | RLM1_DATA_FRACT | Decimal fraction digit count |
| (5) | UNSIGNED | 1 | * | Reserved |
| (6) | HALFWORD | 2 | RLM1_NAMESPACE_LEN | Namespace URI length |
| (8) | HALFWORD | 2 | RLM1_LOCAL_NAME_LEN | Local name length |
| (A) | HALFWORD | 2 | * | Reserved |
| (C) | HALFWORD | 2 | RLM1_DEFAULT_LEN | Length of default value |
| (E) | BIT(8) | 1 | RLM1_DATA_FLAGS | Flag byte |
| (E) | 1... | | * | Reserved |
| (E) | .1.. | | RLM1_SIGN_LEADING | Leading sign |
| (E) | ..1. | | RLM1_SIGN_SEPARATE | Separate sign |
| (F) | CHARACTER | 13 | * | Reserved |
| (1C) | ADDRESS | 4 | RLM1_NAMESPACE_PTR | Address of namespace URI |
| (20) | FULLWORD | 4 | * | Reserved |
| (24) | ADDRESS | 4 | RLM1_LOCAL_NAME_PTR | Address of local name |
| (28) | CHARACTER | 12 | * | Reserved |
| (34) | ADDRESS | 4 | RLM1_DEFAULT_VALUE_PTR | Address of default value |
| (38) | CHARACTER | 8 | * | Reserved |

 Type 2 record structure - Fixed Repeat

Table 710.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|--------------------------------|
| (0) | STRUCTURE | 56 | DFHRLM_FIXED_REPEAT_ENTRY | |
| (0) | UNSIGNED | 1 | RLM2_ENTRY_TYPE | Fixed repeat entry, type='X'02 |
| (1) | BIT(8) | 1 | RLM2_CONTENT_DESC | Content description |
| (1) | 1... | | * | Reserved |
| (1) | .1.. | | RLM2_INLINE_VAR | Separate count field |
| (1) | ..1. | | RLM2_CONTENT_MIXED | Can contain mixed content |

Table 710. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|--------------------------|
| (1) | ...1 | | RLM2_CONTENT_STRUCT | Content is a structure |
| (2) | HALFWORD | 2 | RLM2_CONTENT_COUNT | Array dimension |
| (4) | CHARACTER | 3 | * | Reserved |
| (7) | UNSIGNED | 1 | RLM2_STRUCT_NAME_LEN | Length of structure name |
| (8) | FULLWORD | 4 | RLM2_VAR_COUNT_OFFSET | Offset of optional |
| (C) | ADDRESS | 4 | RLM2_CONTENT_LEN | Size of one element |
| (10) | CHARACTER | 20 | * | Reserved |
| (24) | ADDRESS | 4 | RLM2_STRUCT_NAME | |
| (28) | CHARACTER | 16 | * | Reserved |

Table 711.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|------------------------------|
| (0) | STRUCTURE | 8 | DFHRLM_END_REPEAT_ENTRY | |
| (0) | UNSIGNED | 1 | RLM4_ENTRY_TYPE | End Repeat entry, type=X'04' |
| (1) | CHARACTER | 7 | * | Padding to doubleword |

Type 5 record structure - End of File

Table 712.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|-------------------------------|
| (0) | STRUCTURE | 8 | DFHRLM_END_OF_FILE_ENTRY | |
| (0) | UNSIGNED | 1 | RLM5_ENTRY_TYPE | End of File entry, type=X'05' |
| (1) | CHARACTER | 7 | * | Padding to doubleword |

W2RDS - Web2.0 Domain (ATOMSERVICE)

CONTROL BLOCK NAME = DFHW2RDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHW2RPS
DESCRIPTIVE NAME = CICS TS Web 2.0 Domain (Atomservice) Statistics
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 2008, 2009
FUNCTION =
This data area contains the web 2.0 atomservice statistics provided by the Web 2.0 Domain.
It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.
There is a single instance of this data block.
LIFETIME =
This data block is created by the Web 2.0 Domain to store statistics to be passed to the user in response to a for atomservice statistics. The storage is released when the user task is detached.
The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.
STORAGE CLASS =

LOCATION =
 The user is passed a pointer to the head of the storage
 block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHW2RDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 713.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|-----------------------------------|
| (0) | STRUCTURE | 0 | DFHW2RDS | Web 2.0 Domain Resid stats record |
| (0) | HALFWORD | 2 | W2RDS_LEN | Web 2.0 Domain stats record len |
| (2) | ADDRESS | 2 | W2RDS_ID | Web 2.0 Domain stats id |
| (4) | CHARACTER | 1 | W2RDS_VERS | Web 2.0 Domain stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | W2R_ATOMSERV_NAME | Atomservice name |
| (10) | BITSTRING | 1 | W2R_ATOMSERV_TYPE | Atomservice type |
| (11) | BITSTRING | 3 | | Reserved |
| (14) | BITSTRING | 255 | W2R_ATOMSERV_ BINDING_ FILE | Atomservice binding file |
| (113) | BITSTRING | 1 | | Reserved |
| (114) | BITSTRING | 255 | W2R_ATOMSERV_CONFIG_ FILE | Atomservice configuration file |
| (213) | BITSTRING | 1 | | Reserved |
| (214) | BITSTRING | 1 | W2R_ATOMSERV_RESTYPE | Atomservice resource type |
| (215) | BITSTRING | 3 | | Reserved |
| (218) | CHARACTER | 16 | W2R_ATOMSERV_RESNAME | Atomservice resource name |
| (228) | CHARACTER | 8 | | Reserved |
| (230) | FULLWORD | 4 | W2R_ATOMSERV_REF_ COUNT | Reference count |
| (234) | FULLWORD | 4 | W2R_ATOMSERV_REF_ DISABLED | Reference disabled |
| (238) | FULLWORD | 4 | | Reserved |
| (23C) | FULLWORD | 4 | W2R_ATOMSERV_POST_ FEED_ CNT | POST issued for feed |
| (240) | FULLWORD | 4 | W2R_ATOMSERV_GET_ FEED_ CNT | GET issued for feed |
| (244) | FULLWORD | 4 | W2R_ATOMSERV_GET_ ENTRY_ CNT | GET issued for entry |
| (248) | FULLWORD | 4 | W2R_ATOMSERV_PUT_ ENTRY_ CNT | PUT issued for entry |
| (24C) | FULLWORD | 4 | W2R_ATOMSERV_DEL_ ENTRY_ CNT | DELETE issued for entry |
| (250) | CHARACTER | 16 | | Reserved |
| (260) | CHARACTER | 8 | W2R_ATOMSERV_DEFINE_ SOURCE | Group installed from |

Table 713. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------------------|--|
| (268) | BITSTRING | 8 | W2R_ATOMSERV_CHANGE_TIME | Change/create time |
| (270) | CHARACTER | 8 | W2R_ATOMSERV_CHANGE_USERID | Change userid |
| (278) | BITSTRING | 2 | W2R_ATOMSERV_CHANGE_AGENT | Change agent |
| (27A) | BITSTRING | 2 | W2R_ATOMSERV_INSTALL_AGENT | Install agent |
| (27C) | BITSTRING | 8 | W2R_ATOMSERV_INSTALL_TIME | Install/Create time |
| (284) | CHARACTER | 8 | W2R_ATOMSERV_INSTALL_USERID | Install userid |
| (28C) | CHARACTER | 8 | W2R_ATOMSERV_URIMAP | URIMAP |
| (294) | CHARACTER | 32 | W2R_ATOMSERV_XMLTRANSFORM | XMLTRANSFORM |
| (294) | | 0 | W2RDS_END | "*" |
| (294) | | 0 | W2RDS_LENGTH | "*-W2RDS_LEN" W2 Atomservice record length |
| Constants that denote a W2 atomservice stats record | | | | |
| (294) | .11. 111. | | W2RIDR | "110" W2 Atomservice resid stats id |
| (294) |1 | | W2R_VERS | "X'01" Record version number |
| (294) |1 | | W2R_ATOMTYPE_CATEGORY | "X'01" Atomservice type - Category |
| (294) |1. | | W2R_ATOMTYPE_COLLECTION | "X'02" Atomservice type - Collection |
| (294) |11 | | W2R_ATOMTYPE_FEED | "X'03" Atomservice type - Feed |
| (294) |1.. | | W2R_ATOMTYPE_SERVICE | "X'04" Atomservice type - Service |
| (294) |1 | | W2R_RESTYPE_FILE | "X'01" Atomservice restype - File |
| (294) |1. | | W2R_RESTYPE_PROGRAM | "X'02" Atomservice restype - Program |
| (294) |11 | | W2R_RESTYPE_TSQUEUE | "X'03" Atomservice restype - Tsqueue |
| (294) |1.. | | W2R_RESTYPE_NOTAPPLIC | "X'04" Atomservice restype - N/A Change Agents |
| (294) |1 | | W2R_CSDAPI_CHANGE | "0001" CSD API |
| (294) |1. | | W2R_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (294) |11 | | W2R_DREPAPI_CHANGE | "0003" DREP API |
| (294) |1.. | | W2R_CREATE_CHANGE | "0004" EXEC CREATE SPI Install Agents |
| (294) |1 | | W2R_CSDAPI_INSTALL | "0001" CSD API |
| (294) |1.. | | W2R_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (294) |1.1 | | W2R_GRPLIST_INSTALL | "0005" GRPLIST |

Table 713. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---------------|
| (294) | 1..1 | | W2R_BUNDLE_INSTALL | "0009" BUNDLE |

WCG - XRF Global control block

```

CONTROL BLOCK NAME = DFHWCGPS
DESCRIPTIVE NAME = CICS TS (XRF) Global Control Block
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1985, 1987
FUNCTION =
    XRF surveillance/state management mechanism analogue of
    the CICS CSA. A single instance of this block is created
    at XRF SIGNON.
LIFETIME =
    Created by XRF SIGNON and destroyed by SIGNOFF (NORMAL)
STORAGE CLASS =
    Non-CICS storage. In MVS subpool 0 storage above 16M line.
LOCATION =
    Located either via WCSGLBLA in the XRF Static storage
    (DFHWCSPPS) addressed by SSZXRF in the SSA, or via
    WXBGLBLA in the XRF process block in the case of
    code running as an XRF process.
INNER CONTROL BLOCKS =
    None.
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
        None.
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES =
    None
DATA AREAS =
    None
CONTROL BLOCKS =
    None
GLOBAL VARIABLES (Macro pass) =
    None
-----

```

Table 714.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 144 | DFHWCGPS | CAVM Global Control Block |
| (0) | CHARACTER | 8 | WCGIDENT | Eye Catcher XRF-GLBL |
| (8) | ADDRESS | 4 | WCGSTATA | CAVM Static Area address |
| (C) | ADDRESS | 4 | WCGCKDA | Pointer to TOD Clock Difference Data (BACKUP systems only) |
| (10) | ADDRESS | 4 | WCGNTA | Entry table for routines above 16M line. |
| (14) | ADDRESS | 4 | WCGXRFNT | Entry table for routines below 16M line (copy of CSZXRFNT in CSAOPFL). |
| (18) | ADDRESS | 4 | WCGDA | Process Management data |
| (1C) | ADDRESS | 4 | WCGFA | Status and State file data |

Table 714. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (20) | ADDRESS | 4 | WCGMA | Message data |
| (24) | ADDRESS | 4 | WCGTRA | Trace control area |
| (28) | ADDRESS | 4 | WCGLFA | LIFO work area |
| (2C) | ADDRESS | 4 | WCGSA | Status control area |
| (30) | ADDRESS | 4 | WCGSXA | Surveillance exits control area |
| (34) | CHARACTER | 8 | WCGSAPPL | System's Specific APPLID |
| (3C) | CHARACTER | 84 | WCGCS | Common services area |
| (3C) | CHARACTER | 72 | WCGCSSVA | Common services save area |
| (84) | CHARACTER | 12 | WCGCSPRM | Common services parameter area. |
| (90) | CHARACTER | 0 | WCGEND | |

Entry Table.

This is the definition of the list of entry points to XRF modules located above the 16M line.

Table 715.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------|
| (0) | STRUCTURE | 32 | WCGENTAB | |
| (0) | ADDRESS | 4 | WCGELGET | Entry to DFHWLGET |
| (4) | ADDRESS | 4 | WCGELFRE | DFHWLFRE |
| (8) | ADDRESS | 4 | WCGEDATT | DFHWDATT |
| (C) | ADDRESS | 4 | WCGEDWAT | DFHWDWAT |
| (10) | ADDRESS | 4 | WCGEMS20 | DFHWMS20 |
| (14) | ADDRESS | 4 | WCGETRP | DFHWTRP |
| (18) | ADDRESS | 4 | WCGEDISP | DFHWDISP |
| (1C) | ADDRESS | 4 | WCGECCS | DFHWCCS |

Common service Interface

This defines the parameter area to be passed to the Common Services routine DFHWCCS.

Table 716.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 12 | DFHWCIPS | XRF Common Services parameter block |
| (0) | FULLWORD | 4 | WCIPID | Request Identifier |
| (4) | ADDRESS | 4 | WCIPSA | Storage area address |
| (4) | ADDRESS | 4 | WCIPECBA | Address of ECB |
| (4) | ADDRESS | 4 | WCIPMSGA | Address of message |
| (4) | ADDRESS | 4 | WCIPXPBA | Address of XPB |
| (8) | FULLWORD | 4 | WCIPSL | Storage area length |
| (8) | FULLWORD | 4 | WCIPCOMP | POST completion code |
| (8) | ADDRESS | 4 | WCIPSVA | Address of Save area |

Table 716. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------|-------------------|
| (8) | FULLWORD | 4 | WCIPABCD | ABEND code |
| (8) | BIT(8) | 1 | WCIPDOPT | Dump options |
| (9) | BIT(12) | 2 | WCIPSABC | System ABEND code |
| (A) | BIT(12) POS(5) | 2 | WCIPUABC | User ABEND code |

Table 717.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 12 | * | XRF Common Services parameter block |
| (0) | FULLWORD | 4 | * | Request Identifier |
| (4) | CHARACTER | 8 | WCIPCHAR | Character result |
| (4) | CHARACTER | 4 | WCIPHEX | Hex source |

Constants

Table 718.

| Len | Type | Value | Name | Description |
|---------------------------------|---------|-------|----------|---|
| Request IDs (values for WCIPID) | | | | |
| 4 | DECIMAL | 0 | WCIINTER | Internal error detected |
| 4 | DECIMAL | 1 | WCIGETM | MVS GETMAIN for subpool 0 storage above 16M line. |
| 4 | DECIMAL | 2 | WCIFREEM | MVS FREEMAIN |
| 4 | DECIMAL | 3 | WCIPOST | MVS Hand POST |
| 4 | DECIMAL | 4 | WCIXCONV | Convert hex to character |
| 4 | DECIMAL | 5 | WCIBLDPC | Build XPB for CICS TCB |
| 4 | DECIMAL | 6 | WCIBLDPX | Build XPB for XRF TCB |
| 4 | DECIMAL | 7 | WCIMSGAB | Message/ABEND |

WCS - XRF CAVM static control block

```

CONTROL BLOCK NAME = DFHWCSDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHWCSPS
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM Static Control Block
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1985, 1987
FUNCTION =
    The CAVM Static Control Block provides a common anchor to
    enable CAVM State Management and Message Management
    functions to be invoked from code running in a CICS
    environment. It resides below the 16M line and includes
    the few items of CAVM data referenced by AMODE 24 routines.
    Each XRF system contains a single CAVM Static Control Block.
LIFETIME =
    The CAVM Static Control Block is created by DFHWSSN1 at
    the beginning of SIGNON and destroyed by DFHWSRTR at the
    end of SIGNOFF.
STORAGE CLASS =

```

Non-CICS storage. In MVS subpool 0 below 16M line.

LOCATION =
Fields SSAXRF in the CICS SSA (DFHSSADS) and WCGSTATA in the CAVM Global Control Block (DFHWCGDS) both contain a pointer to the CAVM Static Control Block.

INNER CONTROL BLOCKS =
None.

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
None.
MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
None.
DATA AREAS =
None.
CONTROL BLOCKS =
None.
GLOBAL VARIABLES (Macro pass) =
None.

Table 719.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHWCSDS | CAVM Static Control Block |
| (0) | CHARACTER | 8 | WCSIDENT | Eye Catcher XRF-STAT |
| (8) | ADDRESS | 4 | WCSGLBLA | Pointer to CAVM Global Control Block |
| (C) | ADDRESS | 4 | WCSXTCBP | Pointer to CAVM TCB |
| (10) | ADDRESS | 4 | WCSETECB | End of task ECB for CAVM TCB |
| (14) | BITSTRING | 1 | WCSSMRST | State Management record status |
| (14) | .... .... |  | WCSSSOFN | "0" Signed off normally or did not sign on (must be zero) |
| (14) |1 | | WCSSSON | "1" Signed on |
| (14) |1. | | WCSSSOFA | "2" Signed off abnormally |
| (14) | 1... ...1 | | WCSSSNIP | "X'81" SIGNON in progress |
| (14) | 1111 1111 | | WCSSSFIP | "X'FF" SIGNOFF in progress |
| (15) | BITSTRING | 1 | WCSCSAVM | CAVM Services available mask |
| (15) | 1... | | WCSSMMAV | "X'80" State and message management services are available |
| (15) | .1.. | | WCSPUTAV | "X'40" Message management PUT is available |
| (16) | HALFWORD | 2 | WCSSOFML | Length of TAKEOVER message for ACTIVE job if it signs off during TAKEOVER |
| (18) | ADDRESS | 4 | WCSSOFMP | Pointer to TAKEOVER message for ACTIVE job |

Table 719. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---|
| (1C) | ADDRESS | 4 | WCSTCECB | TAKEOVER response or SIGNON ECB |
| (20) | ADDRESS | 4 | WCSTXECB | TAKEOVER request ECB |
| (24) | ADDRESS | 4 | WCSTKVPP | Pointer to TAKEOVER parameter area |
| (28) | HALFWORD | 2 | WCSRESP (0) | |
| (28) | FULLWORD | 1 | | Response code for CAVM request |
| (29) | FULLWORD | 1 | WCSREASC | Reason code for CAVM request |
| (2A) | BITSTRING | 1 | WCSTKRID | TAKEOVER request ID |
| (2B) | CHARACTER | 1 | WCSSOFCD | SIGNOFF code (normal or abnormal) |
| (2B) | 11.. ...1 | | WCSRSOFA | "C'A" Request for SIGNOFF ABNORMAL |
| (2B) | 11.1 .1.1 | | WCSRSOFN | "C'N" Request for SIGNOFF NORMAL |
| (2C) | ADDRESS | 4 | | Reserved |
| (30) | ADDRESS | 4 | WCSACSVC | Pointer to CSVC's SVC instruction in the CICS CSA |
| (30) | ..11 .1.. | | WCSL | "*-DFHWCSDS" |

Table 720.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------------|
| (0) | STRUCTURE | 0 | WCSENTAB | Entry point table for code below 16M |
| (0) | ADDRESS | 4 | WCSEMS | Message management services EPA |
| (4) | ADDRESS | 4 | | Not used |
| (8) | ADDRESS | 4 | | Not used |

WDG - XRF Process block

CONTROL BLOCK NAME = DFHWDGPS
 DESCRIPTIVE NAME = CICS TS (XRF) Process Block
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1985
 FUNCTION =
 XRF process dispatcher control area.
 There is a single instance of this control block in a CICS system which has successfully signed on to XRF. It contains state information for the XRF process dispatcher such as the currently dispatched process, head and tail of the chain of extant processes etc..
 LIFETIME =
 Created by INIT_ATTACH (DFHWDINA) and destroyed when XRF TCB terminates.
 STORAGE CLASS =

Non-CICS storage. MVS subpool 0 storage above 16M line.
LOCATION =
Address is in WCGDA in XRF Global area DFHWCGPS.
INNER CONTROL BLOCKS =
WDGP
Definition of internal dispatcher parameter block format.
WDGLOCKH
Lock hierarchy table (set up by DFHWDINA).
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
DATA AREAS =
None
CONTROL BLOCKS =
None
GLOBAL VARIABLES (Macro pass) =
None

Fixed part of Dispatcher Global Area (in XRF Global area)

Table 721.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|--|
| (0) | STRUCTURE | 120 | DFHWDGPS | Addressed from WS Global |
| (0) | CHARACTER | 64 | WDGEXTNL | This substructure contains data which are maintained across dispatcher calls |
| (0) | ADDRESS | 4 | WDGFXPB | First process in dispatch chain. |
| (4) | ADDRESS | 4 | WDGLXPB | Last process in dispatch chain. |
| (8) | ADDRESS | 4 | WDGCXPB | Currently dispatched process. |
| (C) | ADDRESS | 4 | WDGIAR13 | Save slot for Reg 13 of issuer of INIT_ATTACH |
| (10) | ADDRESS | 4 | WDGESTA | ESTAE PARAM area |
| (14) | ADDRESS | 4 | WDGESPA | ESPIE PARAM area |
| (18) | ADDRESS | 4 | * (4294967298:341913880) | Reserved |
| (20) | BIT(32) | 4 | WDGGLKSM | Granted locks mask |
| (24) | HALFWORD | 2 | WDGXPBNO | Last allocated process id |
| (26) | HALFWORD | 2 | * | Reserved |
| (28) | CHARACTER | 24 | WDGXPB | Space for the base part of a dummy XPB used by the dispatcher for tracing |
| (40) | CHARACTER | 56 | WDGLOCAL | This substructure contains data which are local to a single dispatcher call |
| (40) | BIT(32) | 4 | WDGLKACC | Lock table work area used by DFHWDINA. |
| (40) | BIT(32) | 4 | WDGLKTMP | Lock temporary used by DFHWDWAT. |
| (44) | HALFWORD | 2 | * | Reserved |

Table 721. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|---------------------------|
| (46) | HALFWORD | 2 | WDGWLL | Number items in WAIT list |
| (46) | HALFWORD | 2 | WDGLKI | Lock level counter |
| (48) | ADDRESS | 4 | WDGWL (4294967308:341913600) | WAIT List |
| (78) | CHARACTER | 0 | WDGEND | End of fixed part of area |

Dispatcher internal parameter block.

Table 722.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 12 | WDGP | |
| (0) | FULLWORD | 4 | WDGPID | Request identifier |
| (4) | ADDRESS | 4 | WDGPEPRM | ESPIE/ESTAE parameter |
| (4) | ADDRESS | 4 | WDGPEDA | Error data - SDWA or EPIE |
| (8) | ADDRESS | 4 | WDGPSRPA | SRP Area address |
| (8) | ADDRESS | 4 | WDGPIDA | ATTACH initial data |
| (8) | ADDRESS | 4 | WDGPNPSW | New IA for retry PSW |

Constants

Table 723.

| Len | Type | Value | Name | Description |
|----------------------------------|---------|----------|----------|---------------------|
| Request IDs (values for WDGPID). | | | | |
| 4 | DECIMAL | 0 | WDGPSINT | Initialize DFHWDSRP |
| 4 | DECIMAL | 1 | WDGPSTRM | Terminate DFHWDSRP |
| 4 | DECIMAL | 2 | WDGPSESP | ESPIE |
| 4 | DECIMAL | 3 | WDGPSEST | ESTAE |
| Lock and event record values | | | | |
| 4 | HEX | 00000000 | WDGNOEVS | All events set OFF |
| 4 | HEX | FFFFFFFF | WDGALEVS | All events set ON |
| 4 | HEX | 00000000 | WDGNOLKS | All locks set OFF |
| 4 | HEX | FFFFFFFF | WDGALLKS | All locks set ON |

WDI - XRF Dispatcher interface

```

CONTROL BLOCK NAME = DFHWDSPPS
DESCRIPTIVE NAME = CICS TS (XRF) Dispatcher interface
                    block definitions.
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FUNCTION =
  Defines interface to XRF dispatcher for ATTACH and WAIT.
  Caller provides storage for an instance of the interface
  block and sets parameters as required.
LIFETIME =
  Duration of XRF dispatcher call.
```


STORAGE CLASS =
 Caller's choice. Usually above 16M line.
 LOCATION =
 Passed to dispatcher as address in R1.
 INNER CONTROL BLOCKS =
 None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None

ATTACH Request Parameter Block

Table 724.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 28 | DFHWDIPS | Addressed from WS Global |
| (0) | ADDRESS | 4 | WDIGA | WS Global address (for INITIAL_ATTACH call only) |
| (4) | ADDRESS | 4 | WDIEPA | Process entry address |
| (8) | ADDRESS | 4 | WDIIDA | Initial data address |
| (C) | ADDRESS | 4 | WDIESPIE | ESPIE exit addr. |
| (10) | ADDRESS | 4 | WDIESPDA | ESPIE parameter. |
| (14) | ADDRESS | 4 | WDIESTAE | ESTAE exit addr. |
| (18) | ADDRESS | 4 | WDIESTDA | ESTAE parameter. |
| (1C) | CHARACTER | 0 | WDIEND | |

WAIT Request Parameter Block

Table 725.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 32 | DFHWDSPS | Addressed from WS Global |
| (0) | ADDRESS | 4 | WDSTYPE | Reserved - must be zero |
| (4) | ADDRESS | 4 | WDSEECBA | External event address |
| (8) | ADDRESS | 4 | WDSIECBA | Internal event address |
| (C) | BIT(32) | 4 | WDSWEVM | Awaited broadcast events |
| (10) | BIT(32) | 4 | WDSPEVM | Events to be broadcast |
| (14) | BIT(32) | 4 | WDSREVM | Broadcast events to reset for this process. |
| (18) | BIT(32) | 4 | WDSFLKM | Locks to be freed |
| (1C) | BIT(32) | 4 | WDSGLKM | Locks to be acquired |
| (20) | CHARACTER | 0 | WDSSEND | |

Constants

Table 726.

| Len | Type | Value | Name | Description |
|-------------------------|---------|-------|----------|---|
| Broadcast event numbers | | | | |
| 4 | DECIMAL | 1 | WDSBTICK | Timer cycle |
| 4 | DECIMAL | 2 | WDSBCHNG | Some change in partner status other than ones with specific events. |
| 4 | DECIMAL | 3 | WDSBSON | Partner has signed on |
| 4 | DECIMAL | 4 | WDSBSOF | Partner has signed off |
| 4 | DECIMAL | 5 | WDSBRSV1 | No longer used - reserved |
| 4 | DECIMAL | 6 | WDSBBPSA | BACKUP public status now available. |
| 4 | DECIMAL | 7 | WDSBFASA | Final ACTIVE public status now available (during TAKEOVER) |
| 4 | DECIMAL | 8 | WDSBPRST | Please read ACTIVE's latest status |
| 4 | DECIMAL | 9 | WDSBSSR | Start Status Reader processes |
| 4 | DECIMAL | 25 | WDSBPWC1 | Primary write complete - odd cycle. |
| 4 | DECIMAL | 26 | WDSBPWE1 | Primary write completed with error - odd cycle. |
| 4 | DECIMAL | 27 | WDSBPWC2 | Primary write complete - even cycle. |
| 4 | DECIMAL | 28 | WDSBPWE2 | Primary write completed with error - even cycle. |
| 4 | DECIMAL | 29 | WDSBSWC1 | Secondary write complete - odd cycle. |
| 4 | DECIMAL | 30 | WDSBSWE1 | Secondary write completed with error - odd cycle. |
| 4 | DECIMAL | 31 | WDSBSWC2 | Secondary write complete - even cycle. |
| 4 | DECIMAL | 32 | WDSBSWE2 | Secondary write completed with error - even cycle. |
| Lock numbers | | | | |
| 4 | DECIMAL | 1 | WDSLPSTW | Primary status write lock |
| 4 | DECIMAL | 2 | WDSLSSTW | Secondary status write lock |

WFG - XRF CAVM file control block

CONTROL BLOCK NAME = DFHWFGDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHWFGPS
 DESCRIPTIVE NAME = CICS TS (XRF) - CAVM File Control Block
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 FUNCTION =

The CAVM File Control Block contains data relating to the CAVM Control data set and Message data set such as ACB pointers, CI size, RBAs of certain records and a pointer to the RESERVE parameter list used to serialise accesses to the Control data set during SIGNON, SIGNOFF and TAKEOVER. Each XRF system contains a single CAVM File Control Block.

LIFETIME =
The CAVM File Control Block is created by DFHWSSN3 during CAVM SIGNON.

STORAGE CLASS =
Non-CICS storage. MVS subpool 0 above 16M line.

LOCATION =
Field WCGFA in the CAVM Global Control Block (DFHWCGBS) contains a pointer to the CAVM File Control Block.

INNER CONTROL BLOCKS =
None.

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
None.
MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
None.
DATA AREAS =
None.
CONTROL BLOCKS =
None.
GLOBAL VARIABLES (Macro pass) =
None.

Table 727.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHWFGBS | CAVM File Control Block |
| (0) | ADDRESS | 4 | WFGPACB | Pointer to Message File ACB |
| (4) | ADDRESS | 4 | WFGSACB | Pointer to Control File ACB |
| (8) | FULLWORD | 4 | WFGCISIZ | Control interval size of both files |
| (C) | FULLWORD | 4 | WFGHARBA | High allocated RBA of Message File |
| (10) | FULLWORD | 4 | WFGHORBA | Lowest RBA available for use by Message Management in Message File |
| (14) | FULLWORD | 4 | WFGHURBA | High used RBA of Message File |
| (18) | FULLWORD | 4 | WFGRPLL | Length of an RPL |
| (1C) | FULLWORD | 4 | WFGSMRBA | RBA of State Management Record in Control File |
| (20) | FULLWORD | 4 | WFGASRBA | RBA of ACTIVE's status CI in either file |
| (24) | ADDRESS | 4 | WFGRSVPP | Pointer to RESERVE parameter list |
| (24) | ..1. 1... | | WFG | "*-DFHWFGBS" |

WDL - XRF LIFO workspace

CONTROL BLOCK NAME = DFHWLGPS
DESCRIPTIVE NAME = CICS TS (XRF) LIFO Workspace
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5655-Y04
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FUNCTION =
Workspace for XRF trace calls from LIFO and dispatcher
services. Single instance.
LIFETIME =
Created by XRF INITIAL ATTACH (DFHWDINA) and destroyed
by XRF SIGNOFF.
STORAGE CLASS =
Non-CICS storage above 16M line. Suballocated from XRF
WS Global allocation created at XRF SIGNON.
LOCATION =
Addressed by WCGLFA in DFHWCGPS
INNER CONTROL BLOCKS =
WLGSA Standards OS Register save area.
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
DATA AREAS =
None
CONTROL BLOCKS =
DFHWTRPS. An instance of an XRF Trace parameter area
is imbedded.
GLOBAL VARIABLES (Macro pass) =
None

Table 728.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (0) | STRUCTURE | 100 | DFHWLGPS | Addressed from WS Global |
| (0) | CHARACTER | 72 | WLGSAVE | Standard OS Save Area |
| (48) | CHARACTER | 28 | WLGTRACE | Space for trace parameter block. |
| (64) | CHARACTER | 0 | WLGEND | |

Standard OS Save Area

Table 729.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 72 | WLGSA | Standard Save Area |
| (0) | ADDRESS | 4 | * | |
| (4) | ADDRESS | 4 | WLGSABCN | backward chain |
| (8) | ADDRESS | 4 | WLGSAFCN | forward chain |
| (C) | CHARACTER | 60 | WLGSAREG | Registers 14-12 |
| (C) | ADDRESS | 4 | WLGSA R14 | R14 |
| (10) | ADDRESS | 4 | WLGSA R15 | R15 |
| (14) | ADDRESS | 4 | WLGSA R00 | R0 |

Table 729. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|--------------------------|-------------|
| (18) | ADDRESS | 4 | WLGSAR01 | R1 |
| (1C) | ADDRESS | 4 | * (4294967305:341915408) | R2 - R10 |
| (40) | ADDRESS | 4 | WLGSAR11 | R11 |
| (44) | ADDRESS | 4 | WLGSAR12 | R12 |

WMG - XRF Message manager global area

CONTROL BLOCK NAME = DFHWMGPS
 DESCRIPTIVE NAME = CICS TS (XRF) Message manager global area
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FUNCTION =
 Anchor for all XRF message management control information.
 There is a single instance of this block.

LIFETIME =
 Created by DFHWM1 when it is called as part of the XRF
 SIGNON process. It then remains for the life of the CICS
 system.

STORAGE CLASS =
 Non-CICS storage. Usually above the 16M line.

LOCATION =
 Addressed by WCGMA in XRF Global area.

INNER CONTROL BLOCKS =
 WMGPUT Control area specific to PUTMSG processing.
 A single instance created by DFHWM1 when called
 during SIGNON by DFHWM1, and addressed by WMGPUTA
 in DFHWMGPS. It contains, among other things, the
 PUTMSG work queue anchor for the queued request
 interface between XRF server and CICS user TCBs.

WMGGET Control area specific to GETMSG processing.
 A single instance created by DFHWM1 when called
 during SIGNON by DFHWM1, and addressed by WMGGETA
 in DFHWMGPS. It contains, among other things, the
 hash table which is contains anchors for chains
 of message queue anchor blocks (DFHWMMPs).

WMGRQR Control area specific to PUTREQ/PUTRSP processing.
 A single instance created by DFHWM1 when called
 during SIGNON by DFHWM1, and addressed by WMGRQRA
 in DFHWMGPS. It contains, among other things, the
 PUTREQ and PUTRSP anchors for the queued request
 between the XRF server and CICS user TCBs.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None

Message Manager Global Area (in XRF Global area)
 Common area

Table 730.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 40 | DFHWMGPS | Addressed from WS Global |
| (0) | CHARACTER | 40 | WMGCOMM | Common data |
| (0) | ADDRESS | 4 | WMGCFKB | Free 1K block chain |
| (4) | ADDRESS | 4 | WMGCFMQE | Free message queue element chain |
| (8) | BIT(8) | 1 | WMGCFLG1 | Flags |
| (8) | 1... | | WMGCFMOV | Moving data |
| (8) | .111 1111 | | * | Reserved |
| (9) | CHARACTER | 3 | * | Reserved |
| (C) | ADDRESS | 4 | WMGPUTA | Address of PUTMSG area |
| (10) | ADDRESS | 4 | WMGGETA | Address of GETMSG area |
| (14) | ADDRESS | 4 | WMGRQRA | Address of RQR area |
| (18) | ADDRESS | 4 | WMGPMECB | PUTMSG Start ECB |
| (1C) | ADDRESS | 4 | WMGCWAIT | Work element waiting for MQS to post it. |
| (20) | ADDRESS | 4 | WMGCPOST | Work element MQS is about to post. |
| (24) | FULLWORD | 4 | WMGCINST | Current ACTIVE message source instance number. |
| (28) | CHARACTER | 0 | * | |

PUTMSG area

Table 731.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|---------------------------------------|
| (0) | STRUCTURE | 40 | WMGPUT | PUTMSG data |
| (0) | CHARACTER | 16 | WMGPUTQ | PUTMSG request queue anchor area. |
| (10) | ADDRESS | 4 | WMGPMTA | Message transmission state data. |
| (14) | CHARACTER | 12 | WMGPID | Initial parameters for PUTMSG process |
| (20) | ADDRESS | 4 | * (4294967298:341922120) | Reserved |
| (28) | CHARACTER | 0 | WMGPEND | End of fixed part |

Table 732.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 4 | WMGPB (*) | Alternate specific data for PUT process. |
| (0) | UNSIGNED | 4 | WMGPCLCK | Start time for rejection of non-crucial messages. |

GETMSG area

Table 733.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 52 | WMGGET | GETMSG data |
| (0) | ADDRESS | 4 | WMGGMTA | Message transmission state data. |
| (4) | ADDRESS | 4 | * | Reserved |
| (8) | BIT(8) | 1 | * | Flags |
| (8) | 1... | | WMGGFASA | Final ACTIVE status seen |
| (8) | .111 1111 | | * | Reserved |
| (9) | UNSIGNED | 1 | * | Reserved |
| (A) | CHARACTER | 2 | WMGGRESP | Response data - like WMSRESP. |
| (C) | CHARACTER | 12 | WMGGID | Initial parameters for GETMSG process |
| (18) | ADDRESS | 4 | WMGGHA | Address of hash table |
| (1C) | FULLWORD | 4 | WMGGINDX | BACKUP index number |
| (20) | FULLWORD | 4 | WMGGINST | BACKUP instance number |
| (24) | ADDRESS | 4 | WMGGWAIT | Queue anchor waiting for MQH to post it. |
| (28) | ADDRESS | 4 | WMGGPOST | Queue anchor MQH is about to post. |
| (2C) | ADDRESS | 4 | * | Reserved |
| (30) | ADDRESS | 4 | * | Reserved |

Hash table for message queue anchor chains.

Table 734.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------------|----------------------------------|
| (0) | STRUCTURE | 8 | WMGGH | |
| (0) | FULLWORD | 4 | WMGGHTNM | Number of entries in hash table. |
| (4) | ADDRESS | 4 | WMGGHT (4294967297:341920888) | Hash table entry array |
| (4) | 1... | | WMGGHTCL | 'Closed' indicator |

PUTREQ, PUTRSP area

Table 735.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | * | WMGRQR | PUTREQ, PUTRSP data |
| (0) | CHARACTER | 16 | WMGREQQ | PUTREQ request queue anchor area. |
| (10) | CHARACTER | 16 | WMGRSPQ | PUTRSP request queue anchor area. |
| (20) | HALFWORD | 2 | WMGRMINC | Minimum source channel - 0 for BACKUP, 1 for ACTIVE |
| (22) | HALFWORD | 2 | WMGRMAXC | Maximum source channel - 0 for BACKUP, WSAGBN for ACTIVE. |

Table 735. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------------|---|
| (24) | CHARACTER | 12 | WMGRID (4294967299:341926848) | Initial parameters for PUTREQ, PUTRSP and RECEIVE |
| (48) | CHARACTER | 8 | WMGRIVN | Target of last PUTREQ |
| (48) | FULLWORD | 4 | WMGRINST | Instance number |
| (4C) | FULLWORD | 4 | WMGRVERN | Version Number |
| (50) | CHARACTER | 0 | WMGREND | |
| (50) | CHARACTER | 4 | WMGRQA (*) | Channel status array |

Table 736.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 4 | WMGRQ | Status of channel with individual partner |
| (0) | UNSIGNED | 1 | WMGRQIST | Inbound State |
| (1) | UNSIGNED | 1 | WMGRQOST | Outbound State |
| (2) | HALFWORD | 2 | * | Reserved |

Request Queue Anchor Block

Table 737.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 16 | WMGQANCH | Addressed from message manager global area. |
| (0) | ADDRESS | 4 | WMGQFRST | Address of first (newest) entry in request chain. |
| (0) | 1... | | WMGQCLSD | Service is closed |
| (4) | ADDRESS | 4 | WMGQLAST | Address of last (oldest) entry in request chain. |
| (4) | CHARACTER | 2 | * | |
| (6) | CHARACTER | 2 | WMGQRESP | Termination response like WMSRESP. |
| (8) | ADDRESS | 4 | WMGQECB | MVS ECB posted by issuer of request. |
| (C) | ADDRESS | 4 | WMGQLSEL | Address of latest entry selected for processing |

Constants

Table 738.

| Len | Type | Value | Name | Description |
|---------------------------------|---------|-------|----------|----------------------------------|
| 2 | DECIMAL | 1 | WMGGHTN | Number of entries in hash table. |
| Constants for WMGRQIST/WMGRQOST | | | | |
| 1 | DECIMAL | 0 | WMGRQNTR | No traffic |
| 1 | DECIMAL | 1 | WMGRQRSP | Response pending |

Table 738. (continued)

| Len | Type | Value | Name | Description |
|---|------|----------|----------|-------------|
| Constants for setting WMGQCLSD and WMGGHTCL | | | | |
| 4 | HEX | 80000000 | WMGQCLON | |
| 4 | HEX | 7FFFFFFF | WMGQCLOF | |

WMI - XRF Internal interface block

CONTROL BLOCK NAME = DFHWMIPS
 DESCRIPTIVE NAME = CICS TS (XRF) Internal interface block
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 FUNCTION =
 Defines a three word parameter block which is used throughout XRF message management as the interface between the various modules of which it is composed. The block has many different overlays depending on the function being invoked. However, excepting the special case of the call from DFHWMS, the first word, WMIPID, always a function code. The function code values are named WMIxxyy where xx is the module supporting the function (DFHWMxx) and yyy is the specific function requested.
 LIFETIME =
 Created by caller of a routine and lasts for duration of call.
 STORAGE CLASS =
 User choice. Usually in storage above the 16M line.
 LOCATION =
 Conventionally addressed by R1 when passed to callee.
 INNER CONTROL BLOCKS =
 None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None

Table 739.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 12 | DFHWMIPS | XRF Message manager parameter block |
| (0) | FULLWORD | 4 | WMIPID | Request Identifier |
| (0) | CHARACTER | 2 | * | |
| (2) | CHARACTER | 2 | WMIPRESP | Response (like WMSRESP) |
| (4) | ADDRESS | 4 | WMIPWQE | Work queue element addr |
| (4) | ADDRESS | 4 | WMIPRB | User Request block addr |

Table 739. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (4) | ADDRESS | 4 | WMIPCCA | CI Control area address |
| (4) | CHARACTER | 2 | * | |
| (6) | CHARACTER | 2 | WMIPTRSP | Termination response |
| (8) | ADDRESS | 4 | WMIPQA | Work queue anchor addr |
| (8) | ADDRESS | 4 | WMIPTGT | Target for message copy |
| (8) | FULLWORD | 4 | WMIPOPTC | RPL type (PUT or GET) |
| (8) | CHARACTER | 4 | WMIPQNAM | Message queue name |
| (8) | CHARACTER | 2 | * | |
| (A) | CHARACTER | 2 | WMIPCRSP | Completion response |

Table 740.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (0) | STRUCTURE | 12 | * | Parameter block |
| (0) | FULLWORD | 4 | * | Request Identifier |
| (4) | ADDRESS | 4 | WMIPEPA | EPIE/SDWA |
| (8) | ADDRESS | 4 | WMIPIDA | Initial data of process |
| (8) | ADDRESS | 4 | WMIPNPSW | New PSW for ESPIE return |

Constants

Table 741.

| Len | Type | Value | Name | Description |
|-------------------------|---------|-------|----------|----------------------------|
| Request IDs for DFHWMG1 | | | | |
| 4 | DECIMAL | 0 | WMIG1INT | Initialize |
| 4 | DECIMAL | 1 | WMIG1GET | GETMSG process |
| 4 | DECIMAL | 2 | WMIG1EST | ESTAE exit |
| Request IDs for DFHWMMT | | | | |
| 4 | DECIMAL | 1 | WMIMTBLD | Build CI areas |
| 4 | DECIMAL | 2 | WMIMTPUT | Issue VSAM PUT |
| 4 | DECIMAL | 3 | WMIMTGET | Issue VSAM GET |
| 4 | DECIMAL | 4 | WMIMTFMT | Format message dataset |
| Request IDs for DFHWMPG | | | | |
| 4 | DECIMAL | 1 | WMIPGWRT | Copy data to target |
| 4 | DECIMAL | 2 | WMIPGESP | Program check has occurred |
| Request IDs for DFHWMP1 | | | | |
| 4 | DECIMAL | 0 | WMIP1INT | Initialize |
| 4 | DECIMAL | 1 | WMIP1PUT | PUTMSG process |
| 4 | DECIMAL | 2 | WMIP1EST | ESTAE exit |
| 4 | DECIMAL | 3 | WMIP1ESP | ESPIE exit |
| Request IDs for DFHWMQH | | | | |

Table 741. (continued)

| Len | Type | Value | Name | Description |
|-------------------------|---------|-------|----------|---|
| 4 | DECIMAL | 0 | WMIQHINT | Initialize |
| 4 | DECIMAL | 1 | WMIQHENQ | Place message on queue |
| 4 | DECIMAL | 2 | WMIQHLOC | Locate/Create queue anchor |
| 4 | DECIMAL | 3 | WMIQHTRM | Terminate |
| Request IDs for DFHWMQS | | | | |
| 4 | DECIMAL | 1 | WMIQSGN | Get next queue element |
| 4 | DECIMAL | 2 | WMIQSCMP | Complete request |
| 4 | DECIMAL | 3 | WMIQSCMB | Complete batch of requests |
| 4 | DECIMAL | 4 | WMIQSTRM | Close down queue and post any remaining requests. |
| Request IDs for DFHWMRD | | | | |
| 4 | DECIMAL | 0 | WMIRDINT | Initialize |
| 4 | DECIMAL | 1 | WMIRDGET | Read message |
| Request IDs for DFHWMR1 | | | | |
| 4 | DECIMAL | 0 | WMIR1INT | Initialize |
| 4 | DECIMAL | 1 | WMIR1REQ | PUTREQ process |
| 4 | DECIMAL | 2 | WMIR1RSP | PUTRSP process |
| 4 | DECIMAL | 3 | WMIR1RCV | RECEIVE process |
| 4 | DECIMAL | 4 | WMIR1ESP | ESPIE exit |
| 4 | DECIMAL | 5 | WMIR1EST | ESTAE exit |
| Request IDs for DFHWMWR | | | | |
| 4 | DECIMAL | 0 | WMIWRINT | Initialize |
| 4 | DECIMAL | 1 | WMIWRPUT | Write message |
| 4 | DECIMAL | 2 | WMIWRHDN | Harden messages |

WMM - XRF Message queue anchor block

CONTROL BLOCK NAME = DFHWMMP5
 DESCRIPTIVE NAME = CICS TS (XRF) Message queue anchor block
 Licensed Materials - Property of IBM
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 5655-Y04
 (C) Copyright IBM Corp. 1985, 1987
 FUNCTION =
 Anchor for chain of in core message elements built by the XRF GETMSG process.
 An instance of this block is created for each distinct message queue name for which either the reader process retrieves messages from the message dataset, or for which GETMSG requests are issued by the CICS TCB. Each such block serves as an anchor for the chain of messages yet to be read, and contains the ECB on which a CICS transaction will wait if it issues a GETMSG for a queue with no messages pending.
 LIFETIME =
 Created by either the XRF message reader process under the XRF TCB, or by GETMSG under the CICS TCB, at the first appearance of a message queue name.
 Destroyed when the BACKUP either signs off, or takes over.

This is done only under the CICS TCB at a time when it is known that no other CICS transactions have references to the block or anything depending on it.

STORAGE CLASS =
Non-CICS storage. Usually in MVS subpool 0 storage above 16M line.

LOCATION =
The anchor blocks are formed into hash chains using WMMAHASH as chain field and WMGGHT (in DFHWMGPS) as hash table.

INNER CONTROL BLOCKS =
WMME is the message queue element description. These blocks form chains from the message anchor blocks and contain the individual messages waiting to be read. They are created by the reader process when it reads a message, and destroyed by GETMSG when the message has been delivered.

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
DATA AREAS =
None
CONTROL BLOCKS =
None
GLOBAL VARIABLES (Macro pass) =
None

Message Manager Message Queue Anchor Block

Table 742.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------|---|
| (0) | STRUCTURE | 24 | DFHWMMP5 | |
| (0) | ADDRESS | 4 | WMMANEXT | Address of next anchor block (first in chain is addressed from hash table in GETMSG global area). |
| (4) | CHARACTER | 4 | WMMAQNAM | Queue name. |
| (8) | ADDRESS | 4 | WMMAFRST | First element in message chain for this queue. |
| (C) | ADDRESS | 4 | WMMALAST | Last element in message chain for this queue. |
| (10) | HALFWORD | 2 | WMMAHASH | Hash table index |
| (12) | BIT(16) | 2 | * | |
| (12) | 1... | | WMMAEOD | Flag set by reader process if EOD/SIGNOFF or an error occurs. |
| (12) | BIT(15) POS(2) | 2 | * | Reserved |
| (14) | ADDRESS | 4 | WMMAECEB | ECB posted at 'End-of-data or whenever this queue becomes non-empty. |
| (14) | 1... | | * | |
| (14) | .1.. | | WMMAPOST | POST bit in ECB |
| (14) | BIT(30) POS(3) | 4 | * | |

Table 744.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------|---|
| (0) | STRUCTURE | 48 | DFHWMQPS | |
| (0) | CHARACTER | 24 | WMQECTL | Control part of element |
| (0) | ADDRESS | 4 | WMQEOLDR | Next older element |
| (4) | ADDRESS | 4 | WMQENWR | Next newer element |
| (8) | ADDRESS | 4 | * | Reserved |
| (C) | ADDRESS | 4 | WMQEQAA | Queue anchor address |
| (10) | ADDRESS | 4 | WMQEECB | ECB on which requesting CICS Xaction will wait. |
| (10) | 1... | | * | |
| (10) | .1.. | | WMQEPOST | POST bit in ECB |
| (10) | BIT(30) POS(3) | 4 | * | |
| (14) | BIT(32) | 4 | WMQECSWD | This field is subject of a CS instruction and is described by WMQECS. |
| (18) | CHARACTER | 24 | WMQEPARM | Copy of request parameter block. |
| (30) | CHARACTER | 0 | WMQEEND | |

Overlay for word containing 'cancelled' and 'about to post' flags (WMQECSWD).

Table 745.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------|--|
| (0) | STRUCTURE | 6 | WMQECS | |
| (0) | BIT(16) | 2 | WMQEFLGS | This field is subject of a CS instruction. |
| (0) | 1... | | WMQEFATP | About-to-post |
| (0) | .1.. | | WMQEFCAN | Request cancelled |
| (2) | BIT(14) | 2 | * | Reserved |
| (3) | BIT(16) POS(7) | 3 | * | Reserved |

Block chain. Chain of free 4K blocks used by DFHWS10 as XPBs.

Table 746.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 4 | WMQB | |
| (0) | ADDRESS | 4 | WMQBNEXT | Address of next free block |

WMR - XRF Message record

CONTROL BLOCK NAME = DFHWMRPS
 DESCRIPTIVE NAME = CICS TS (XRF) Message Record
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 FUNCTION =

Defines the format of an XRF Message Management message record.

Message records do not exist as independent control blocks in their own right. The definition here is of the message record component of other structures. Such components exist as records within the XRF status VSAM dataset, as the data part of in-core message blocks (WMME) created by the XRF reader process, and as the message part of the report data in a status CI (WSAR).

Message records contain the data which are transmitted between ACTIVE and BACKUP systems by means of the PUTMSG, GETMSG, PUTREQ and PUTRSP message manager requests.

LIFETIME =

Same as containing structure.

STORAGE CLASS =

Same as containing structure.

LOCATION =

Same as containing structure.

INNER CONTROL BLOCKS =

WMRCR Format of control record which is the first in each message dataset CI.

WMRCIDF Defines the format of a VSAM CIDF

WMRRDF Defines the format of a VSAM RDF

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS =

None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

DATA AREAS =

None

CONTROL BLOCKS =

None

GLOBAL VARIABLES (Macro pass) =

None

Message Data Record

Table 747.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 16 | DFHWMRPS | |
| (0) | UNSIGNED | 1 | WMRTYPE | Record type |
| (1) | BIT(8) | 1 | WMRRFLGS | Reserved |
| (2) | HALFWORD | 2 | WMRDATLN | Message data length i.e. number of bytes in record following WMREND |
| (4) | FULLWORD | 4 | WMRSEQNO | Message sequence number |
| (8) | CHARACTER | 8 | WMRIVN | Instance and version/queue |
| (8) | FULLWORD | 4 | WMRINSTN | Applicable instance number |
| (C) | FULLWORD | 4 | WMRVERSN | Version number |
| (C) | CHARACTER | 4 | WMRQNAME | Queue name |
| (10) | CHARACTER | 0 | WMREND | Start of message data |

Message Control Record

Table 748.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 8 | WMRCR | |
| (0) | BIT(8) | 1 | * | Record type - WMRTCNO |
| (1) | CHARACTER | 3 | * | Reserved |
| (4) | FULLWORD | 4 | WMRCRCNO | Message cycle number |
| (8) | CHARACTER | 0 | WMRCREND | |

VSAM Cidf Format

Table 749.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 4 | WMRCIDF | |
| (0) | HALFWORD | 2 | WMRCIDFO | Offset of start of unused space in this CI. |
| (2) | HALFWORD | 2 | WMRCIDFL | Length of unused space in this CI. |

VSAM RDF Format

Table 750.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 3 | WMRRDF | Cancel data passed to KCP at WAIT. |
| (0) | BIT(8) | 1 | WMRRDFF | Flags - always zero in the subset used by XRF message manager. |
| (1) | HALFWORD | 2 | WMRRDFL | Length of record which corresponds to this RDF. |

Constants

Table 751.

| Len | Type | Value | Name | Description |
|--|---------|-------|----------|----------------|
| Message Dataset Record Types (WMRTYPE) | | | | |
| 1 | DECIMAL | 0 | WMRTDATA | Message record |
| 1 | DECIMAL | 1 | WMRTCNO | Control record |

WMS - XRF Message manager request

CONTROL BLOCK NAME = DFHWMSPS
 DESCRIPTIVE NAME = CICS TS (XRF) Message manager request
 interface block.

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FUNCTION =
 Defines the format of the parameter block passed by the
 user of XRF message services.
 Since the user's parameter block is usually copied into

a work queue element the definition of such an element,
DFHWMQPS, includes an area to which this definition
applies.
LIFETIME =
Created by caller of message services and lasts for the
duration of the processing of the request.
STORAGE CLASS =
User choice.
LOCATION =
Usually in caller's LIFO.
INNER CONTROL BLOCKS =
None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
DATA AREAS =
None
CONTROL BLOCKS =
None
GLOBAL VARIABLES (Macro pass) =
None

Table 752.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 24 | DFHWMSPS | XRF Message manager parameter block |
| (0) | FULLWORD | 4 | WMSREQID | Request Identifier |
| (4) | BIT(8) | 1 | WMSRQFL1 | Request flag byte 1 |
| (4) | 1... | | WMSCRUCL | CRUCIAL Message (PUTMSG) |
| (4) | .111 1111 | | * | Reserved |
| (5) | BIT(8) | 1 | WMSRQFL2 | Request flag byte 2 |
| (5) | 1... | | WMSFORCE | Harden message before returning (PUTMSG) |
| (5) | .111 1111 | | * | Reserved |
| (6) | CHARACTER | 2 | WMSRC | Response field |
| (8) | ADDRESS | 4 | WMSDATAD | Data area address |
| (C) | HALFWORD | 2 | WMSDATSZ | Size of data area |
| (E) | HALFWORD | 2 | WMSDATLN | Data length |
| (10) | CHARACTER | 8 | WMSIVN | Instance and version/queue |
| (10) | FULLWORD | 4 | WMSINSTN | Instance number |
| (14) | FULLWORD | 4 | WMSVERSN | Version no (PUTREQ, PUTRSP) |
| (14) | CHARACTER | 4 | WMSQNAME | Queue name (GETMSG, PUTMSG) |
| (18) | CHARACTER | 0 | WMSSEND | |

Response field

Table 753.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 2 | WMSRESP | Response |
| (0) | UNSIGNED | 1 | WMSRETC | Return code |
| (1) | UNSIGNED | 1 | WMSREASN | Reason code |

Constants

Table 754.

| Len | Type | Value | Name | Description |
|---|---------|-------|----------|---|
| Request Identifier (WMSREQID) definitions | | | | |
| 4 | DECIMAL | 1 | WMSPMMSG | PUTMSG |
| 4 | DECIMAL | 2 | WMSGMSG | GETMSG |
| 4 | DECIMAL | 3 | WMSPREQ | PUTREQ |
| 4 | DECIMAL | 4 | WMSPRSP | PUTRSP |
| Return Codes (WMSRETC) definitions | | | | |
| 1 | DECIMAL | 0 | WMSNORML | Normal |
| 1 | DECIMAL | 4 | WMSEXCPN | Exception |
| 1 | DECIMAL | 8 | WMSFAIL | Failed |
| Reason Codes (WMSREASN) definitions If WMSRETC = WMSEXCP | | | | |
| 1 | DECIMAL | 1 | WMSNORML | XRF not active |
| 1 | DECIMAL | 2 | WMSEOD | End of data. We are about to take over. The active will send no more records. |
| 1 | DECIMAL | 3 | WMSSGNOF | Backup has SIGNED OFF from XRF. No more records will be presented. |
| If WMSRETC = WMSFAIL | | | | |
| 1 | DECIMAL | 1 | WMSINVRC | Invalid request code |
| 1 | DECIMAL | 2 | WMSCLOSD | Service closed |
| 1 | DECIMAL | 3 | WMSCANCL | Task cancelled |
| 1 | DECIMAL | 4 | WMSDLERR | Data length error. Either too large or -ve. |
| 1 | DECIMAL | 5 | WMSOVLAP | ACTIVE reject non-crucial message rather than risk damaging a BACKUP. BACKUP lapped by ACTIVE message writer. |
| 1 | DECIMAL | 6 | WMSNODST | No SIGNED-ON destination exists for this message |
| 1 | DECIMAL | 7 | WMSBUSY | Message queue busy |
| 1 | DECIMAL | 8 | WMSCHECK | Program check while copying message data. |
| 1 | DECIMAL | 9 | WMSABEND | XRF TCB Abend |
| 1 | DECIMAL | 10 | WMSIOER | Message dataset I/O error |

Table 755. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | ADDRESS | 4 | * | Reserved for chain ptr |
| (4) | BIT(8) | 1 | WMT CFLGS | Flags |
| (4) | 1... | | WMT CFCHG | CI has been changed |
| (4) | .1.. | | WMT CFSAF | CI can be written without impacting any backup. |
| (4) | ..1. | | WMT CFUWM | CI contains unwritten complete messages. |
| (5) | CHARACTER | 3 | WMT CFDBK | VSAM feedback data copied from RPL. |
| (5) | UNSIGNED | 1 | WMT CRTNC | VSAM return code |
| (6) | UNSIGNED | 1 | * | VSAM component code |
| (7) | UNSIGNED | 1 | WMT CRSNC | VSAM reason code |
| (8) | ADDRESS | 4 | WMT CBUFA | Address of CI buffer |
| (C) | ADDRESS | 4 | WMT CIDFA | Address of CIDF in buffer |
| (10) | ADDRESS | 4 | WMT CECB | ECB for VSAM to post |
| (14) | UNSIGNED | 4 | WMT CRBA | RBA argument for VSAM requests. |
| (18) | ADDRESS | 4 | WMT CWQEF | Address of queue element of most recent record in CI which specified FORCE |
| (18) | ADDRESS | 4 | WMT CRDFA | Address of last used RDF |
| (1C) | HALFWORD | 2 | WMT COFF | Offset of end of last complete message record in CI - 0 if none. |
| (1E) | HALFWORD | 2 | WMT CICL | Length of CI control area |
| (20) | FULLWORD | 4 | WMT CCNO | Cycle to which CI belongs |
| (24) | CHARACTER | 128 | WMT CMSG A | VSAM request message area |
| (A8) | CHARACTER | 0 | WMT CRPL | End of fixed part. Start of associated RPL. |

PUTMSG Transmission control data

Table 756.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 24 | WMT P | |
| (0) | CHARACTER | 8 | WMT PAWC | Active write cursor of end of latest complete message |
| (0) | FULLWORD | 4 | WMT PWCNO | Active write cycle number |
| (4) | UNSIGNED | 4 | WMT PWRBA | Active write RBA |
| (8) | FULLWORD | 4 | WMT PSEQN | Message sequence number |
| (C) | ADDRESS | 4 | WMT PCCCA | Current CI control area |
| (10) | FULLWORD | 4 | WMT PCCNO | Current write cycle number |
| (14) | BIT(16) | 2 | WMT PFLGS | |
| (14) | 1... | | WMT PFM OV | Moving user data |

Table 756. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------|---|
| (14) | .1.. | | WMTPFMDS | 'Multiple discard' - the previous non-crucial msg was also discarded. |
| (14) | BIT(14) POS(3) | 2 | * | Reserved |
| (16) | HALFWORD | 2 | WMTPMAXL | Maximum record length |
| (18) | CHARACTER | 0 | WMTPEND | |

GETMSG Transmission control data

Table 757.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------|---|
| (0) | STRUCTURE | 28 | WMTG | |
| (0) | CHARACTER | 8 | WMTGBRC | Backup read cursor |
| (0) | FULLWORD | 4 | WMTGRCNO | Backup read cycle number |
| (4) | UNSIGNED | 4 | WMTGRRBA | Backup read RBA |
| (8) | CHARACTER | 8 | WMTGAWC | Active write cursor when current CI was read. |
| (8) | FULLWORD | 4 | WMTGWCNO | Active write cycle number |
| (C) | UNSIGNED | 4 | WMTGWRBA | Active write RBA |
| (10) | FULLWORD | 4 | WMTGSEQN | Message sequence number |
| (14) | ADDRESS | 4 | WMTGCCCA | Current CI control area |
| (18) | BIT(16) | 2 | WMTGFLGS | |
| (18) | 1... | | WMTGFMV | Moving user data |
| (18) | .1.. | | WMTGFFMR | First message received |
| (18) | BIT(14) POS(3) | 2 | * | Reserved |
| (1A) | HALFWORD | 2 | * | Reserved |
| (1C) | CHARACTER | 0 | WMTGEND | |

WNF - XRF CAVM notify exit

CONTROL BLOCK NAME = DFHWNFPS

DESCRIPTIVE NAME = CICS TS (XRF) - CAVM NOTIFY Exit

Parameter Block

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FUNCTION =

CAVM uses the NOTIFY Exit Parameter Block to describe an event it has detected which needs to be brought to the attention of the user of CAVM.

LIFETIME =

The duration of the call to the NOTIFY exit.

STORAGE CLASS =

Non-CICS storage. Usually in the automatic storage (managed by the CAVM LIFO mechanism) of the NOTIFY exit's caller.

LOCATION =

On entry to the NOTIFY exit, R1 contains the address of its

```

        parameter block.
INNER CONTROL BLOCKS =
    None.
NOTES :
    DEPENDENCIES = S/370
    MODULE TYPE = Control block definition

```

```

-----
EXTERNAL REFERENCES =
    DATA AREAS =
        None.
    CONTROL BLOCKS =
        None.
    GLOBAL VARIABLES (Macro pass) =
        None.
-----

```

Table 758.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 24 | DFHWNFPS | |
| (0) | FULLWORD | 4 | WNFRSV1 | Reserved - must be zero |
| (4) | UNSIGNED | 1 | WNFEVENT | Event code |
| (5) | BIT(8) | 1 | WNFEVNTM | Event modifier bits |
| (5) | 1... | | WNFMDCEC | Event was in different CEC |
| (5) | .1.. | | WNFMICPA | Event refers to an incipient ACTIVE |
| (5) | ..1. | | WNFMSYSD | If on, event refers to a sign-off due to MVS failure |
| (5) | ...1 1111 | | * | Reserved |
| (6) | BIT(8) | 1 | WNFXBITS | Existence bits for other fields |
| (6) | 1... | | WNFIX | Index exists |
| (6) | .1.. | | WNFD1X | DATA1 exists |
| (6) | ..1. | | WNFD2X | DATA2 exists |
| (6) | ...1 | | WNFDAX | Additional DATA exists |
| (6) | 1111 | | * | Reserved |
| (7) | UNSIGNED | 1 | WNFINDEX | Index identifying BACKUP slot - zero for ACTIVE |
| (8) | FULLWORD | 4 | WNFDATA1 | First data word |
| (8) | FULLWORD | 4 | WNFINST# | Instance no. for signon, signoff etc |
| (8) | FULLWORD | 4 | WNFHBLAT | No. of seconds 'heart-beat' is late |
| (8) | FULLWORD | 4 | WNFABCC | ABEND code (WNFEFAIL) |
| (C) | FULLWORD | 4 | WNFDATA2 | Second data word |
| (C) | FULLWORD | 4 | WNFVERN# | Version no. for signon, signoff etc |
| (C) | CHARACTER | 4 | WNFQNAME | New queue name (WNFENEWQ) |
| (10) | ADDRESS | 4 | WNFDATAA | Address of additional data |
| (14) | FULLWORD | 4 | WNFDATAL | Length of additional data |

Table 758. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (18) | CHARACTER | 0 | WNFEND | |

Constants

Table 759.

| Len | Type | Value | Name | Description |
|--------------------------|---------|-------|----------|---|
| Event codes for WNFEVENT | | | | |
| 1 | DECIMAL | 1 | WNFESON | Signon |
| 1 | DECIMAL | 2 | WNFESOFN | Signoff normal |
| 1 | DECIMAL | 3 | WNFESOFA | Signoff abnormal |
| 1 | DECIMAL | 7 | WNFECKDC | The TOD clock difference has changed |
| 1 | DECIMAL | 8 | WNFEIHRC | The 'Inquire Health' response has changed |
| 1 | DECIMAL | 9 | WNFEHBOD | Heart-beat is overdue |
| 1 | DECIMAL | 10 | WNFEHBRS | Heart-beat has restarted |
| 1 | DECIMAL | 15 | WNFERQTK | This system wants to take over from you. |
| 1 | DECIMAL | 16 | WNFEICPA | You are now the incipient active but your TOD clock might be behind |
| 1 | DECIMAL | 17 | WNFECKAS | Your TOD clock is now ahead of active's at signoff |
| 1 | DECIMAL | 18 | WNFEACTV | You are now the active in all respects except that your TOD clock might still be behind |
| 1 | DECIMAL | 19 | WNFECKAT | Your TOD clock is now ahead of active's at job termination |
| 1 | DECIMAL | 20 | WNFEPRMT | Another BACKUP pre-empted you after your TAKEOVER request had been accepted |
| 1 | DECIMAL | 21 | WNFETKFL | Takeover failed because of an error detected after the request had been accepted |
| 1 | DECIMAL | 24 | WNFEFAIL | CAVM has failed |
| 1 | DECIMAL | 25 | WNFEINVL | Active has invalidated you |
| 1 | DECIMAL | 32 | WNFENEWQ | Message arrival has caused a new message queue to be created |
| 1 | DECIMAL | 33 | WNFEREQM | Request message arrived |
| 1 | DECIMAL | 34 | WNFERSPM | Response message received |
| 1 | DECIMAL | 35 | WNFERSPX | Expected responder to a PUTREQ has gone away |

Table 759. (continued)

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|--|
| 1 | DECIMAL | 36 | WNFENEWA | A message has arrived from a new ACTIVE instance |

WSA - XRF CAVM surveillance status

```

CONTROL BLOCK NAME = DFHWSADS
NAME OF MATCHING PLS CONTROL BLOCK = DFHWSAPS
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM Surveillance Status
                    Control Blocks
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                    (C) Copyright IBM Corp. 1985, 1990
FUNCTION =
    The various CAVM Surveillance Status Control Blocks exist
    to permit the 4 independent CAVM surveillance processes
    (2 status writers and 2 status readers) to communicate with
    other CAVM processes and with each other.
    Each XRF system contains a single set of these Surveillance
    Status Control Blocks.
LIFETIME =
    The Surveillance Status Control Block, Public Status Area
    Descriptors and Public Status Areas in a given XRF system
    are all created at the same time during CAVM SIGNON by
    DFHWSSN2.
    The actual Status CIs are created by DFHWSSN3 as records
    filled with binary zeroes when it formats a new CAVM Control
    or Message Data Set. They are never destroyed except by
    deletion of the data set.
STORAGE CLASS =
    Non-CICS storage. In MVS subpool 0 above the 16M line.
    The Status CIs themselves reside on DASD in the CAVM Control
    or Message Data Sets or in I/O buffers in MVS subpool 0
    above the 16M line.
LOCATION =
    Field WCGSA in the CAVM Global Control Block (DFHWCGBS)
    contains a pointer to the Surveillance Status Control
    Block (DFHWSADS), which itself includes an array of Public
    Status Area Descriptors (WSADs) starting at WSAGWSAD.
INNER CONTROL BLOCKS =
    See FUNCTION and LOCATION.
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
        Status Record must not become too large to fit in a 4K CI.
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES =
    None.
DATA AREAS =
    None.
CONTROL BLOCKS =
    None.
GLOBAL VARIABLES (Macro pass) =
    None.
-----

```


Table 760.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (0) | STRUCTURE | 0 | DFHWSADS | CAVM Surveillance Status Control Block |
| (0) | CHARACTER | 8 | WSAGID | Eye Catcher DFHWSAPS |
| (8) | BITSTRING | 1 | WSAGWRQD | Status Write Required Mask |
| (8) | 1... | | WSAGPSWR | "X'80" Status Write to Control File needed |
| (8) | .1.. | | WSAGSSWR | "X'40" Status Write to Message File needed |
| (9) | BITSTRING | 1 | WSAGVRQD | Status Verification Required Mask |
| (9) | 1... | | WSAGPSVR | "X'80" Control File status verify needed |
| (9) | .1.. | | WSAGSSVR | "X'40" Message File status verify needed |
| (A) | BITSTRING | 1 | WSAGWSTK | Status Writers Stuck Mask |
| (B) | BITSTRING | 1 | WSAGRSTK | Status Readers Stuck Mask |
| (C) | HALFWORD | 2 | WSAGBN | Maximum number of concurrent BACKUPs |
| (E) | HALFWORD | 2 | WSAGINDX | Index to this system's entry in the array of status descriptors (zero origin) |
| (10) | HALFWORD | 2 | WSAG#BSU | No. of BACKUPs whose Public Status is not yet available - WDSBBPSA is broadcast when this reaches zero |
| (12) | BITSTRING | 1 | WSAGSRFL | Flags for controlling Status Readers |
| (12) | 1... | | WSAGQBSR | "X'80" Quiesce Backup Status Readers |
| (13) | BITSTRING | 1 | WSAGPRST | Flags for recording the progress of a request to read the ACTIVE's latest status |
| (14) | FULLWORD | 4 | (0) | Ensure full word alignment |
| (14) | BITSTRING | 4 | WSAGRES | Internal ECB POSTed when request to read the ACTIVE's latest status has been completed |
| (18) | BITSTRING | 4 | WSAGWEP | Internal ECB POSTed to request a Status Write to the Control File |
| (1C) | BITSTRING | 4 | WSAGWES | Internal ECB POSTed to request a Status Write to the Message File |
| (20) | BITSTRING | 8 | WSAGPWCM (0) | Control File Write Complete Masks |

Table 760. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (20) | BITSTRING | 4 | WSAGWCP | Mask defining event which will be broadcast when next Status Write to Control File completes successfully |
| (24) | BITSTRING | 4 | WSAGWCEP | Mask defining event which will be broadcast when next Status Write to Control File completes with error |
| (28) | BITSTRING | 8 | WSAGSWCM (0) | Message File Write Complete Masks |
| (28) | BITSTRING | 4 | WSAGWCS | Mask defining event which will be broadcast when next Status Write to Message File completes successfully |
| (2C) | BITSTRING | 4 | WSAGWCES | Mask defining event which will be broadcast when next Status Write to Message File completes with error |
| (30) | FULLWORD | 4 | (0) | Ensure full word alignment |
| (30) | CHARACTER | 8 | WSAGPAIV | Instance & version no. of previous ACTIVE job which has either signed off or is no longer executing according to JES (BACKUPs only) |
| (38) | ADDRESS | 4 | WSAGP (0) | Start of Array of Status Descriptors |
| (38) | ADDRESS | 4 | WSAGWSAD (0) | Start of Array of Status Descriptors |
| (38) | ..11 1... | | WSAGHDRL | "*-DFHWSADS" |

Table 761.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | WSAD | CAVM Public Status Area Descriptor |
| (0) | ADDRESS | 4 | WSADPB (0) | Alternative Name |
| (0) | ADDRESS | 4 | WSADPSA | Address of Public Status Area |
| (4) | HALFWORD | 2 | WSADTOTL | Total length of Public Status |
| (6) | HALFWORD | 2 | WSADSHRL | Length of shared Status section |
| (8) | HALFWORD | 2 | WSADIDVL | Length of individual Status section |
| (A) | HALFWORD | 2 | WSADPOFF | Offset to my individual section in partner's Public Status |
| (C) | ADDRESS | 4 | WSADSRCP | Pointer to Communications Area for Status Reader and Writer Processes |

Table 761. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (C) | ...1 | | WSADL | "*-WSAD" |

Table 762.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (0) | STRUCTURE | 0 | WSAS | Common Shared Section of Status |
| (0) | FULLWORD | 1 | WSASST1 | System Status 1 |
| (0) | .... .... |  | WSASSOFN | "0" Signed off normally (must be zero) |
| (0) |1 | | WSASSON | "1" Signed on |
| (0) |1. | | WSASSOFA | "2" Signed off abnormally |
| (1) | FULLWORD | 1 | WSASST2 | System Status 2 |
| (1) |1 | | WSASACT | "1" System is ACTIVE |
| (1) |1. | | WSASINCP | "2" System is incipient ACTIVE |
| (1) |11 | | WSASBKUP | "3" System is a BACKUP |
| (2) | BITSTRING | 1 | WSASST3 | System status 3 |
| (2) | 1... | | WSASXCFA | "X'80" System has XCF services avail. |
| (3) | BITSTRING | 1 | | Reserved |
| (4) | CHARACTER | 8 | WSASI#V# (0) | Instance and Version number |
| (4) | CHARACTER | 8 | WSASIVN (0) | Alternative name for I & V |
| (4) | FULLWORD | 4 | WSASINST | System's Instance number |
| (8) | FULLWORD | 4 | WSASVERN | System's Version number (always 1 for BACKUPs) |
| (C) | CHARACTER | 16 | WSASM (0) | Message state data (meaningful only for ACTIVE system) |
| (C) | FULLWORD | 4 | WSASMCID | CIDF corresponding to AWC |
| (10) | CHARACTER | 8 | WSASMAWC (0) | ACTIVE Write Cursor |
| (10) | FULLWORD | 4 | WSASMCNO | Message cycle number |
| (14) | FULLWORD | 4 | WSASMRBA | RBA of end of last message |
| (18) | FULLWORD | 4 | WSASMSQN | Sequence no. of last message |
| (1C) | CHARACTER | 12 | WSASMVSI | MVS System Identification - SMF ID and time & date of IPL |
| (28) | CHARACTER | 8 | WSASSPLX | XCF Sysplex name |
| (30) | CHARACTER | 8 | WSASSNAM | MVS System name |
| (38) | CHARACTER | 4 | WSASSTOK | MVS Instance token |
| (3C) | FULLWORD | 4 | WSASHBI | 'Heart-beat' interval |
| (40) | FULLWORD | 4 | WSASHBC | 'Heart-beat' counter |

Table 762. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (44) | HALFWORD | 2 | | Reserved |
| (46) | HALFWORD | 2 | WSASIHLL | Length of local 'Inquire Health' data |
| (48) | CHARACTER | 256 | WSASIHLD | Local 'Inquire Health' data |
| (148) | HALFWORD | 2 | | Reserved |
| (14A) | HALFWORD | 2 | WSASIHGL | Length of global 'Inquire Health' data |
| (14C) | CHARACTER | 128 | WSASIHGD | Global 'Inquire Health' data |
| (14C) | | 0 | WSASL | "*-WSAS" |

Table 763.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (0) | STRUCTURE | 0 | WSAR | Specific Partner's Section of Status |
| (0) | HALFWORD | 2 | | Reserved |
| (2) | HALFWORD | 2 | WSARQROF | Offset to Message Management PUTREQ data (WSARQR) |
| (4) | CHARACTER | 16 | WSARM (0) | Message state data |
| (4) | CHARACTER | 8 | WSARMBRC (0) | BACKUP Read Cursor or Initial Read Cursor |
| (4) | FULLWORD | 4 | WSARMCNO | Message file cycle number |
| (8) | FULLWORD | 4 | WSARMRBA | RBA of end of last message read or of 1st message to be read |
| (C) | FULLWORD | 4 | WSARINST | Instance Number |
| (10) | FULLWORD | 4 | | Reserved |
| (10) | ...1 .1.. | | WSARL | "*-WSAR" |

Table 764.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | WSARIV | Invalidation Message from ACTIVE |
| (0) | FULLWORD | 4 | WSARIVI# | Instance number of BACKUP which is now invalid |
| (4) | CHARACTER | 12 | WSARIVRC | Invalidation reason code |
| (4) | ...1 | | WSARIVL | "*-WSARIV" |

Table 765.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (0) | STRUCTURE | 0 | WSARTM | TAKEOVER message from BACKUP |
| (0) | HALFWORD | 2 | | Reserved |

Table 765. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (2) | HALFWORD | 2 | WSARTMLN | Length of message |
| (4) | FULLWORD | 4 | WSARTMSI | Instance number of BACKUP trying to take over |
| (8) | CHARACTER | 8 | WSARTMIV (0) | |
| (8) | FULLWORD | 4 | WSARTMI# | Instance number of ACTIVE to be taken over |
| (C) | FULLWORD | 4 | WSARTMV# | Version number of ACTIVE to be taken over |
| (10) | CHARACTER | 128 | WSARTMSG | Takeover message |
| (10) | 1..1 | | WSARTML | "*-WSARTM" |

Table 766.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | WSARQR | Message Management PUTREQ & PUTRSP messages |
| (0) | 1... | | WSARQRL | "128" Length of a Request or Response Message |
| (0) | CHARACTER | 128 | WSARREQ | Request message (PUTREQ) |
| (80) | FULLWORD | 4 | (0) | Ensure full word alignment |
| (80) | CHARACTER | 1 | WSARRSP | Response message (PUTRSP) |

Table 767.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (0) | STRUCTURE | 0 | WSASV1 | Version 1 WSAS |
| (0) | FULLWORD | 1 | WSV1ST1 | System Status 1 |
| (0) | .... .... |  | WSV1SOFN | "0" Signed off normally (must be 0) |
| (0) |1 | | WSV1SON | "1" Signed on |
| (0) |1. | | WSV1SOFA | "2" Signed off abnormally |
| (1) | FULLWORD | 1 | WSV1ST2 | System Status 2 |
| (1) |1 | | WSV1ACT | "1" System is ACTIVE |
| (1) |1. | | WSV1INCP | "2" System is incipient ACTIVE |
| (1) |11 | | WSV1BKUP | "3" System is a BACKUP |
| (2) | HALFWORD | 2 | | Reserved |
| (4) | CHARACTER | 8 | WSV1I#V# (0) | Instance and Version number |
| (4) | CHARACTER | 8 | WSV1IVN (0) | Alternative name for I & V |
| (4) | FULLWORD | 4 | WSV1INST | System's Instance number |
| (8) | FULLWORD | 4 | WSV1VERN | System's Version number (always 1 for BACKUPs) |

Table 767. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (C) | CHARACTER | 16 | WSV1M (0) | Message state data (meaningful only for ACTIVE system) |
| (C) | FULLWORD | 4 | WSV1MCID | CIDF corresponding to AWC |
| (10) | CHARACTER | 8 | WSV1MAWC (0) | ACTIVE Write Cursor |
| (10) | FULLWORD | 4 | WSV1MCNO | Message cycle number |
| (14) | FULLWORD | 4 | WSV1MRBA | RBA of end of last message |
| (18) | FULLWORD | 4 | WSV1MSQN | Sequence no. of last message |
| (1C) | CHARACTER | 12 | WSV1MVSI | MVS System Identification - SMF ID and time & date of IPL |
| (28) | FULLWORD | 4 | WSV1HBI | 'Heart-beat' interval |
| (2C) | FULLWORD | 4 | WSV1HBC | 'Heart-beat' counter |
| (30) | HALFWORD | 2 | | Reserved |
| (32) | HALFWORD | 2 | WSV1IHLL | Length of local 'Inquire Health' data |
| (34) | CHARACTER | 256 | WSV1IHLD | Local 'Inquire Health' data |
| (134) | HALFWORD | 2 | | Reserved |
| (136) | HALFWORD | 2 | WSV1IHGL | Length of global 'Inquire Health' data |
| (138) | CHARACTER | 128 | WSV1IHGD | Global 'Inquire Health' data |
| (138) | | 0 | WSV1L | "*-WSASV1" |

WSC - XRF CAVM Time-of-day clock difference

CONTROL BLOCK NAME = DFHWSCDS
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS (XRF) - CAVM TOD Clock Difference
 Control Area
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1985
 FUNCTION =
 A BACKUP system uses this control block to keep track of the difference between the ACTIVE system's TOD clock and its own when they are running in different CECs.
 There is one instance of this control block per BACKUP.
 LIFETIME =
 DFHWSXPI creates this control block when a BACKUP system signs on to CAVM and DFHWSTKV destroys it when the BACKUP takes over from the ACTIVE.
 STORAGE CLASS =
 Non-CICS storage. In MVS subpool 0 above 16M line.
 LOCATION =
 Field WCGCKDA in the XRF Global Control Block (DFHWCGDS) contains a pointer to the TOD Clock Difference Control Area.
 INNER CONTROL BLOCKS =
 None.
 NOTES :

```
EXTERNAL REFERENCES =
    None.
DATA AREAS =
    None.
CONTROL BLOCKS =
    None.
GLOBAL VARIABLES (Macro pass) =
    None.
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | WSCKD | TOD Clock Difference Control Area |
| (0) | DBL WORD | 8 | CKDLTMIN | Current minimum estimate of amount by which ACTIVE's TOD clock is ahead of this BACKUP's |
| (8) | DBL WORD | 8 | CKDLTMAX | Current maximum estimate of amount by which ACTIVE's TOD clock is ahead of this BACKUP's |
| (10) | FULLWORD | 4 | CKDTOD | ACTIVE's TOD clock reading corresponding to the current deltas to permit compensation for relative gain or loss of TOD clocks |
| (10) | 1.1. | | CKDSHIFT | "10" Shift value corresponding to max. assumed relative rate of gain or loss of two TOD clocks (1 in 1024) |
| (14) | CHARACTER | 12 | CKDMVSI | MVS instance (SMF ID, IPL time & date) to which clock difference refers |
| (14) | ..1. | | WSCKDL | "*-WSCKD" |

CONTROL BLOCK NAME = DFHWSMDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM State Management
Record Description

Data Areas **1141**

Control Data Set. It contains just one instance of SMDESCR and instances of WSJDESC for each ACTIVE or BACKUP job which CAVM will allow to sign on concurrently using that particular CAVM Control Data Set. The instance of WSJDESC which immediately follows SMDESCR always refers to the ACTIVE job.

LIFETIME =

The State Management Record is created by DFHWSSN3 when it formats a new CAVM Control Data Set and is initialised by DFHWSSN2 during the first successful SIGNON.

It is never destroyed except by deletion of the data set.

STORAGE CLASS =

This control block resides on DASD in the CAVM Control Data Set or in an I/O buffer or work area in MVS subpool 0 above the 16M line.

LOCATION =

Field WFGSMRBA in the CAVM File Control Block (DFHWFGBS) contains the RBA of the State Management Record within the CAVM Control Data Set. It is always the second CI in the data set.

INNER CONTROL BLOCKS =

None.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS =

None.

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

None.

DATA AREAS =

None.

CONTROL BLOCKS =

None.

GLOBAL VARIABLES (Macro pass) =

None.

Table 769.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (0) | STRUCTURE | 0 | SMDESCR | State Management Record Global Data |
| (0) | FULLWORD | 4 | SMDSECCT | Security count updated whenever the State Management Record is updated |
| (4) | FULLWORD | 4 | SMDINST# | Instance Number assigned to last system which signed on (ACTIVE or BACKUP) |
| (8) | CHARACTER | 8 | SMDAI#V# (0) | Last ACTIVE instance & version |
| (8) | FULLWORD | 4 | SMDAINST | Instance no. of current (or last) ACTIVE system |
| (C) | FULLWORD | 4 | SMDAVERN | Version no. of current (or last) ACTIVE system |
| (10) | DBL WORD | 8 | SMDR#TOD (0) | Array of resource time-stamps |

Table 769. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (10) | DBL WORD | 8 | SMDR1TOD | Time-stamp for resource set R1 - estimated reading of last updater's TOD clock when he signed off from CAVM |
| (18) | DBL WORD | 8 | SMDR2TOD | Time-stamp for resource set R2 - estimated reading of last updater's TOD clock when his job terminated |
| (20) | HALFWORD | 2 | SMDR#NDX (0) | Array of resource ownership indices in same order as time-stamps |
| (20) | HALFWORD | 2 | SMDR1NDX | Index to the job description of the current owner of resource set R1 or 1's complement of last owner's index if R1 is free |
| (22) | HALFWORD | 2 | SMDR2NDX | Index to the job description of the current owner of resource set R2 or 1's complement of last owner's index if R2 is free |
| (24) | HALFWORD | 2 | SMDTKNDX | Index to the job description of the BACKUP which is performing TAKEOVER or 1's complement of index of last BACKUP to attempt it |
| (26) | HALFWORD | 2 | SMD#JOBS | Number of job descriptions in the State Management Record |
| (28) | DBL WORD | 8 | SMDSMJ0 (0) | Start of ACTIVE's job description |
| (28) | ..1. 1... | | SMDL | "*-SMDESCR" |

Table 770.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | WSJDESC | State Management Record Job Description |
| (0) | CHARACTER | 8 | WSJSAPPL | Specific APPLID |
| (8) | CHARACTER | 8 | WSJOBNAM | Job Name |
| (10) | CHARACTER | 8 | WSJOBID | JES Job Identifier |
| (10) | ...1 1... | | WSJS1END | "*g1" |
| (8) | CHARACTER | 16 | WSJOBID | |
| (18) | FULLWORD | 4 | WSJSTIME | Job submission time (from JMR) |
| (1C) | FULLWORD | 4 | WSJSDATE | Job submission date (from JMR) |
| (20) | FULLWORD | 4 | WSJATIME | Time when job-step task was ATTACHed |

Table 770. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (24) | CHARACTER | 4 | WSJSSNAM | MVS subsystem name of job's JES |
| (28) | CHARACTER | 12 | WSJMVSID | MVS system instance - SMF ID and time & date of IPL |
| (28) | ..11 .1.. | | WSJS2END | "*" |
| (24) | CHARACTER | 16 | WSJMVSII | |
| (34) | CHARACTER | 8 | WSJCANNM | Name to use in MVS CANCEL command to cancel this job (from CSCB) |
| (3C) | HALFWORD | 2 | WSJASID | ASID of job's address space |
| (3C) | ..11 111. | | WSJS3END | "*" |
| (8) | CHARACTER | 54 | WSJOBSTI | |
| (3E) | CHARACTER | 1 | WSJSIND | System Indicator |
| (3E) | 1... | | WSJXCFA | "X'80'" XCF available in MVS release |
| (3F) | FULLWORD | 1 | WSJSTAT | Job status - signed on, signed off normally or signed off abnormally |
| (40) | DBL WORD | 8 | WSJSNTOD | TOD clock reading when CAVM SIGNON processing started |
| (48) | CHARACTER | 4 | WSJRST (0) | Restart information field |
| (48) | CHARACTER | 3 | WSJEYECA | Restart Eyecatcher '>RS' |
| (4B) | CHARACTER | 1 | WSJRSTYP | Restart type indicator |
| (4B) |1 | | WSJRSJOB | "X'01'" Restart as JOB |
| (4B) |1. | | WSJRSSTC | "X'02'" Restart as Started Task |
| (4C) | FULLWORD | 4 | | Spare |
| (50) | DBL WORD | 8 | (0) | Force length to double word multiple |
| (50) | .1.1 | | WSJLVER1 | "*-WSJDESC" Len of pre-CICS/ESA 3.2 job desc |
| (50) | CHARACTER | 8 | WSJSPLX | XCF Sysplex Name |
| (58) | CHARACTER | 8 | WSJSNAM | MVS Sytem name |
| (60) | CHARACTER | 4 | WSJSTOK | MVS System Instance token |
| (68) | DBL WORD | 8 | (0) | Force length to double word |
| (68) | .11. 1... | | WSJS4END | "*" |
| (50) | CHARACTER | 24 | WSJXCFD | XCF Details |
| (58) | CHARACTER | 16 | WSJSDET | MVS System details |
| (58) | .11. 1... | | WSJL | "*-WSJDESC" Len of CICS/ESA 3.2 job desc. |

The following DSECT describes the control CI of the CAVM control and message datasets. All the fields are set by DFHWSSN3 when it opens a new pair of CAVM datasets for the first time and the contents are verified on all subsequent SIGNON's.

Table 772.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (0) | STRUCTURE | 0 | SMENTAB | Table of entry points in DFHWSMS |
| (0) | ADDRESS | 4 | SMSESTKV | EPA of DFHWSTKV |
| (4) | ADDRESS | 4 | SMSESSW | EPA of DFHWSSW |
| (8) | ADDRESS | 4 | SMSESSR | EPA of DFHWSSR |
| (C) | ADDRESS | 4 | SMSEMMI | EPA of DFHWMMI |

WSR - XRF CAVM surveillance

```

CONTROL BLOCK NAME = DFHWSDRS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM Surveillance
                                     Communications Area
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1985, 1990
FUNCTION =
    The Surveillance Communications Areas are needed to allow
    the 4 independent CAVM surveillance processes (2 status
    writers and 2 status readers) to share some common data.
    In each XRF system, there are separate Surveillance
    Communications Areas referring to each actual or potential
    partner XRF system as well as a single Surveillance
    Communications Area referring to that system itself.
    The Status Record Header contains a TOD clock reading used
    in clock difference calculations and a sequence number used
    to determine which of two status records contains the more
    up-to-date information. It is built immediately before
    writing an XRF system's status to its Status CI in the
    CAVM Control Data Set or Message Data Set.
LIFETIME =
    All the Surveillance Communications Areas in a given XRF
    system are created at the same time during CAVM SIGNON by
    DFHWSSN2.
STORAGE CLASS =
    Non-CICS storage. In MVS subpool 0 above 16M line.
LOCATION =
    Field WSADSRCP in each Public Status Area Descriptor (WSAD)
    contains a pointer to the corresponding XRF system's
    Surveillance Communications Area.
INNER CONTROL BLOCKS =
    None.
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
        None.
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES =
    None.
DATA AREAS =
    None.
CONTROL BLOCKS =
    None.
GLOBAL VARIABLES (Macro pass) =
    None.

```

Table 773.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | SRHEADER | Status Record Header |
| (0) | DBL WORD | 8 | SRHTOD | Latest TOD clock reading |
| (8) | FULLWORD | 4 | SRHSEQ# | Sequence number of Status Write |
| (8) | 11.. | | SRHEADRL | "*-SRHEADER" Length of Status Record Header |
| (8) | 11.. | | SRHWSAS | "*" Start of common shared section of Status (WSAS) |

Table 774.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | SRVCOM | Surveillance Communications Area |
| (0) | CHARACTER | 1 | SRVCHBOD | Indicator that 'heart-beat overdue' NOTIFY has been issued |
| (1) | CHARACTER | 1 | SRVCSOFA | Indicator that 'sign-off' abnormal NOTIFY has been issued |
| (2) | CHARACTER | 1 | SRVCSVCF | Indicator that DFH6646 msg has been issued as a result of SVC failureL1A |
| (3) | BITSTRING | 1 | SRVCHBPM | 'Heart-beat' position mask showing which CAVM file is being read to track this partner's 'heart-beat' |
| (4) | BITSTRING | 1 | SRVCHBLM | 'Heart-beat' late mask showing which files have been read without finding this partner's 'heart-beat' |
| (5) | BITSTRING | 1 | SRVCIOEM | I/O error mask showing which files have had an I/O error during the last read or write of this status CI |
| (8) | FULLWORD | 4 | SRVCLIHT | TOD when most recent indication that this partner's 'INQUIRE HEALTH' exit had run was detected |
| (C) | FULLWORD | 4 | SRVCPBS# | Status write sequence no. of Public Status |
| (10) | FULLWORD | 4 | SRVCLS#P | Sequence no. of latest status read from or written to the control file |
| (14) | FULLWORD | 4 | SRVCLS#S | Sequence no. of latest status read from or written to the message file |
| (14) | ...1 1... | | SRVCOML | "*-SRVCOM" |

WSS - XRF CAVM state manager parameter list

```

CONTROL BLOCK NAME = DFHWSSDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHWSSPS
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM State Management
                                Parameter Block
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1985, 1990
FUNCTION =
    The CAVM State Management Parameter Block is used to
    describe a CAVM SIGNON, SIGNOFF or TAKEOVER request.
LIFETIME =
    Determined by the user of CAVM.
STORAGE CLASS =
    Determined by the user of CAVM.
LOCATION =
    On entry to CAVM code, R1 points at the parameter block.
INNER CONTROL BLOCKS =
    None.
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
        None.
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES =
    None.
DATA AREAS =
    None.
CONTROL BLOCKS =
    None.
GLOBAL VARIABLES (Macro pass) =
    None.

```

Table 775.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHWSSDS | State management parameter block - pointed to by R1 |
| (0) | FULLWORD | 4 | WSSFUNC | Function |
| (4) | HALFWORD | 2 | WSSFUNCM | Function modifier |
| (6) | FULLWORD | 1 | WSSRESP | Response |
| (7) | FULLWORD | 1 | WSSREASC | Reason code |
| (8) | ADDRESS | 4 | WSSUNIQA | Addr. of section unique to function |
| (C) | FULLWORD | 4 | WSSUNIQL | Length of section unique to function |
| (C) | ...1 ... | | WSSCOMND | "*" End of common section |
| (C) | ...1 ... | | WSSCOMLN | "*-DFHWSSDS" Length of common section |

Table 776.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (0) | STRUCTURE | 0 | WSSSONDS | Unique parameters for SIGNON |

Table 776. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | CHARACTER | 8 | WSSGAPPL | Generic APPLID |
| (8) | CHARACTER | 8 | WSSSAPPL | Specific APPLID |
| (10) | ADDRESS | 4 | WSSNFEPa | Address of NOTIFY exit routine |
| (14) | FULLWORD | 4 | WSSNFPRM | Parameter for NOTIFY exit |
| (18) | ADDRESS | 4 | WSSIHEPA | Address of INQUIRE HEALTH exit |
| (1C) | FULLWORD | 4 | WSSIHPRM | Parameter for INQUIRE HEALTH exit |
| (20) | FULLWORD | 4 | WSSHBINT | Heart-beat interval in seconds |
| (24) | CHARACTER | 4 | WSSMVID | MVS SMF id. returned to caller |
| (28) | CHARACTER | 4 | WSSJSID | JES subsystem id. ret to caller |
| (2C) | CHARACTER | 8 | WSSSPLX | XCF Sysplex name |
| (34) | CHARACTER | 8 | WSSSNAM | MVS System name |
| (3C) | CHARACTER | 4 | WSSSTOK | MVS System Instance token |
| (40) | BITSTRING | 1 | WSSSIND | MVS System Indicator byte |
| (40) | 1... | | WSSXCFA | "X'80" ... XCF services available |
| (40) | .1.. ...1 | | WSSSONND | "*" End of section unique to SIGNON |
| (40) | .1.. ...1 | | WSSSONLN | "*-WSSSONDS" Length of section unique to SIGNON |

Table 777.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | WSSSOFDS | Unique parameters for SIGNOFF |
| (0) | ADDRESS | 4 | | Reserved - must be zero |
| (4) | HALFWORD | 2 | | Reserved half-word - must be zero |
| (6) | HALFWORD | 2 | | Reserved - must be zero |
| (8) | ADDRESS | 4 | WSSSFMAA | Address of my response msg buffer |
| (C) | HALFWORD | 2 | WSSSFMBL | Length of my response msg buffer |
| (E) | HALFWORD | 2 | WSSSFMLL | Length of msg received from partner |
| (E) | ...1 | | WSSSOFND | "*" End of section unique to SIGNOFF |
| (E) | ...1 | | WSSSOFLN | "*-WSSSOFDS" Length of section unique to SIGNOFF |

Table 778.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|------------|--|
| (0) | STRUCTURE | 0 | WSSTKVDS | Unique parameters for TAKEOVER |
| (0) | FULLWORD | 4 | WSSINST# | Instance number of ACTIVE |
| (4) | FULLWORD | 4 | WSSVER# | Version number of ACTIVE (ignored if request is pre-emptive) |
| (8) | FULLWORD | 4 | WSSJTMTL | Job termination time limit (seconds) |
| (C) | ADDRESS | 4 | WSSTKVMA | Address of 'TAKEOVER' msg for ACTIVE |
| (10) | HALFWORD | 2 | | Reserved half-word - must be zero |
| (12) | HALFWORD | 2 | WSSTKVML | Length of 'TAKEOVER' msg for ACTIVE |
| (12) | ...1 .1.. | | WSSTKVND | "*" End of section unique to TAKEOVER |
| (12) | ...1 .1.. | | WSSTKVLN | "*-WSSTKVDS" Length of section unique to TAKEOVER |
| Function codes - values for WSSFUNC | | | | |
| (12) |1 | | WSSFSON | "1" SIGNON |
| (12) |1. | | WSSFSOFF | "2" SIGNOFF |
| (12) |11 | | WSSFTKVR | "3" TAKEOVER |
| Function modifiers - values for WSSFUNCM | | | | |
| (12) | .... .... |  | WSSMSONA | "0" SIGNON as ACTIVE |
| (12) |1 | | WSSMSONB | "1" SIGNON as BACKUP |
| (12) | .... .... |  | WSSMSOFN | "0" SIGNOFF NORMAL |
| (12) |1 | | WSSMSOFA | "1" SIGNOFF ABNORMAL |
| (12) | .... .... |  | WSSMTKVN | "0" Non-pre-emptive TAKEOVER |
| (12) |1 | | WSSMTKVP | "1" Pre-emptive TAKEOVER |

WST - XRF takeover parameter area

CONTROL BLOCK NAME = DFHWSTDS
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS (XRF) - Takeover Parameter Area
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 (C) Copyright IBM Corp. 1985
 FUNCTION =

The Takeover Parameter Area is a storage area belonging to the CAVM TCB which is used to keep copies of the parameters CICS specified on the TAKEOVER request that the CAVM TCB is currently working on. DFHWSRTR makes the copies of the TAKEOVER parameters while running under the CICS TCB and the requesting TCA. If a subsequent failure in this TCA should lead to the freeing of the storage it owns, the CAVM TCB's processing of the TAKEOVER request will not be

affected.
Each XRF BACKUP system has a single TAKEOVER parameter area.
To avoid the problems which might arise from concurrent use of the Takeover Parameter Area, the CAVM TCB does not reference it unless the POST bit in WCSTXECB is 1, whereas the CICS TCB does not reference it unless this bit is 0 and also issues a CICS ENQ on WCSTCECB to serialise with other CICS TCAs which might be issuing TAKEOVER requests.

LIFETIME =
The Takeover Parameter Area is created by DFHWSXPI when a BACKUP system signs on to CAVM and is destroyed by DFHWSTKV during TAKEOVER processing.

STORAGE CLASS =
Non-CICS storage. In MVS subpool 0 above 16M line.

LOCATION =
Field WCSTKVPP in the XRF Static Area (DFHWCSDS) contains a pointer to the Takeover Parameter Area.

INNER CONTROL BLOCKS =
None.

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
None.
MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
None.
DATA AREAS =
None.
CONTROL BLOCKS =
None.
GLOBAL VARIABLES (Macro pass) =
None.

Table 779.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | TKVPA | TAKEOVER parameter area |
| (0) | HALFWORD | 2 | TKVFUNC | Copy of TAKEOVER modifier from State Management parameter list |
| (2) | HALFWORD | 2 | | Reserved - must be zero |
| (4) | FULLWORD | 4 | TKVINST# | Instance no. of ACTIVE system to be taken over |
| (8) | FULLWORD | 4 | TKVVER# | Version no. of ACTIVE system to be taken over (ignored if pre-emption is requested) |
| (C) | FULLWORD | 4 | TKVJTMTL | Time limit for termination of the ACTIVE job after which operator assistance is sought (seconds) |
| (10) | FULLWORD | 4 | TKVMSSL | Length of TAKEOVER message to send to the ACTIVE job |
| (14) | CHARACTER | 128 | TKVMSG | TAKEOVER message for ACTIVE job |
| (14) | 1..1 .1.. | | TKVPALEN | "*-TKVPA" |

WSX - XRF CAVM surveillance exits

```

CONTROL BLOCK NAME = DFHWSXDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHWSXPS
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM Surveillance Exits
                                     Control Area
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    5655-Y04
    (C) Copyright IBM Corp. 1985
FUNCTION =
    The Surveillance Exits Control Area contains the entry
    point addresses and parameter values that the user
    specified at CAVM SIGNON for the NOTIFY and INQUIRE HEALTH
    exits, which are driven under the CAVM TCB during
    surveillance processing.
    Each XRF system contains a single Surveillance Exits
    Control Area.
LIFETIME =
    The Surveillance Exits Control Area is created by DFHWSSN2
    during CAVM SIGNON.
STORAGE CLASS =
    Non-CICS storage. In MVS subpool 0 above 16M line.
LOCATION =
    Field WCGSXA in the XRF Global Control Block (DFHWCGRS)
    contains a pointer to the Surveillance Exits Control Area.
INNER CONTROL BLOCKS =
    None.
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
        None.
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES =
    None.
DATA AREAS =
    None.
CONTROL BLOCKS =
    None.
GLOBAL VARIABLES (Macro pass) =
    None.

```

Table 780.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--------------------------------------|
| (0) | STRUCTURE | 0 | DFHWSXDS | Surveillance Exits Control Area |
| (0) | DBL WORD | 8 | WSXNFEPM (0) | Data for NOTIFY exit |
| (0) | ADDRESS | 4 | WSXNFEPa | NOTIFY exit entry point |
| (4) | ADDRESS | 4 | WSXNFPRM | NOTIFY exit parameter (R0) |
| (8) | DBL WORD | 8 | WSXIHEPM (0) | Data for INQUIRE HEALTH exit |
| (8) | ADDRESS | 4 | WSXIHEPa | INQUIRE HEALTH exit entry point |
| (C) | ADDRESS | 4 | WSXIHPRM | INQUIRE HEALTH exit parameter (R0) |
| (C) | ...1 ... | | WSXEND | "*" |
| (C) | ...1 ... | | WSXLLEN | "*-DFHWSXDS" Length of control block |

WS2 - XRF DFHWSSN2 parameter list

CONTROL BLOCK NAME = DFHWS2DS
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS (XRF) - Parameter list for DFHWSSN2
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 FUNCTION =
 This parameter list is used to provide DFHWSSN2 with the
 data it needs to process a CAVM SIGNON request.
 It is used just once during every CAVM SIGNON.
 LIFETIME =
 The DFHWSSN2 parameter list is created by DFHWSSN1,
 completed by DFHWSRTR, which issues the call to DFHWSSN2,
 and destroyed by DFHWSSN1.
 STORAGE CLASS =
 Non-CICS storage. In DFHWSSN1's automatic storage.
 LOCATION =
 On entry to DFHWSSN2, R1 contains a pointer to its parameter
 list.
 INNER CONTROL BLOCKS =
 None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None.
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 None.
 DATA AREAS =
 None.
 CONTROL BLOCKS =
 None.
 GLOBAL VARIABLES (Macro pass) =
 None.

Table 781.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | SN2PLIST | Parameter List for DFHWSSN2 |
| (0) | FULLWORD | 4 | SN2FUNC | Zero entry point address to tell DFHWSRTR to process a SIGNON request |
| (4) | ADDRESS | 4 | SN2ENTBP | Pointer to entry point table |
| (8) | ADDRESS | 4 | SN2WSSPP | Pointer to State Management parameter list for SIGNON received by DFHWSSN1 |
| (C) | ADDRESS | 4 | SN2STATA | Pointer to XRF Static Area built by DFHWSSN1 |
| (10) | ADDRESS | 4 | SN2XRFNT | Pointer to table of entry points of routines below 16M line (copy of CSAXRFNT in the CICS CSA) |

Table 781. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (14) | ADDRESS | 4 | SN2ESSOF | Entry point address of DFHWSSOF |
| (14) | ...1 1... | | SN2PLL | "*-SN2PLIST" |

Table 782.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 0 | SONENTAB | Table of entry points in DFHWSSON |
| (0) | ADDRESS | 4 | SONESSN2 | EPA of DFHWSSN2 |
| (4) | ADDRESS | 4 | SONEDINA | EPA of DFHWDINA |
| (8) | ADDRESS | 4 | SONESXPI | EPA of DFHWSXPI |

WS3 - XRF DFHWSSN3 parameter list

```

CONTROL BLOCK NAME = DFHWS3DS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XRF) - Parameter list for DFHWSSN3
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    5655-Y04
    (C) Copyright IBM Corp. 1986
FUNCTION =
    This parameter list is used to provide DFHWSSN3 with the
    data it needs to prepare the CAVM control and message data
    sets for use by SIGNON.
    It is used just once in every CAVM SIGNON.
LIFETIME =
    The DFHWSSN3 parameter list is both created and destroyed
    by DFHWSSN2.
STORAGE CLASS =
    Non-CICS storage. In DFHWSSN2's automatic storage.
LOCATION =
    On entry to DFHWSSN3, R1 contains a pointer to its parameter
    list.
INNER CONTROL BLOCKS =
    None.
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
        None.
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES =
    None.
DATA AREAS =
    None.
CONTROL BLOCKS =
    None.
GLOBAL VARIABLES (Macro pass) =
    None.
-----

```

Table 783.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | 0 | SN3PLIST | Parameter List for DFHWSSN3 |

Table 783. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | CHARACTER | 8 | SN3GAPPL | Generic APPLID of system signing on |
| (8) | CHARACTER | 8 | SN3SAPPL | Specific APPLID of system signing on |
| (10) | CHARACTER | 12 | SN3MVSID | MVS system identification - SMF ID and time & date of IPL |
| (1C) | FULLWORD | 4 | SN3#CIS | No. of CIs required for use by State Management in each CAVM file |
| (20) | ADDRESS | 4 | SN3CIBFP | Pointer to CI buffer allocated by DFHWSSN3 |
| (24) | ADDRESS | 4 | SN3VSAMB | Pointer to VSAM Request Block built by DFHWSSN3 |
| (28) | ADDRESS | 4 | SN3FAA | Pointer to CAVM File Control Area built by DFHWSSN3 |
| (28) | ..1. 11.. | | SN3PLL | "*-SN3PLIST" |

Table 784.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---------------------------------------|
| (0) | STRUCTURE | 0 | VSAMRQB | VSAM Request Block |
| (0) | FULLWORD | 4 | VSAMRBA | RBA of record to read or write |
| (4) | ADDRESS | 4 | VSAMECB | External ECB for asynchronous request |
| (8) | FULLWORD | 4 | VSAMRPL (0) | Start of RPL for VSAM request |
| (8) | 1... | | VSAMRQBL | "*-VSAMRQB" |

WTA - XRF takeover initiation argument block

CONTROL BLOCK NAME = DFHWTADS
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS XRF Takeover Initiation
 Argument Block
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 5655-Y04
 (C) Copyright IBM Corp. 1985, 1989
 FUNCTION =
 Used to specify arguments for a request to
 XRF Takeover Initiation Program (DFHWTI).
 Requests are:
 o Takeover Initiation
 o Verify CLT
 o Overseer Operator Command
 o Inquire Job Status
 o Process CLT
 o Issue MODIFY USERVAR
 o Terminate External Subsystem
 o Verify AXI

```

        o Issue subsystem command
        o Disable XRF services
    There is one instance of this control block per request.
    LIFETIME =
        Created and destroyed by caller.
    STORAGE CLASS =
        MVS program key storage.
    LOCATION =
        Pointed to by R1 on entry to Takeover Initiation Program.
    INNER CONTROL BLOCKS =
        None.
    NOTES :
        DEPENDENCIES = S/370 XA
        RESTRICTIONS =
        MODULE TYPE = Control block definition
-----
    EXTERNAL REFERENCES =
        DATA AREAS =
        CONTROL BLOCKS =
        GLOBAL VARIABLES (Macro pass) =
-----

```

Table 785.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------|--|
| (0) | STRUCTURE | 0 | DFHWTADS | |
| REQUEST TYPE | | | | |
| (0) | FULLWORD | 4 | WTAREQ (0) | |
| (0) | BITSTRING | 1 | WTAFUNC | Function |
| (1) | BITSTRING | 1 | WTAMOD | Modifier |
| (2) | CHARACTER | 1 | (2) | Reserved |
| ARGUMENTS: | | | | |
| (4) | FULLWORD | 4 | WTAARGS (0) | |
| Takeover Initiation Inquire Job Status Process CLT | | | | |
| (4) | .... .... |  | WTACLLEN | "*-WTAARGS" Length of arguments for |
| (4) | CHARACTER | 1 | WTAICIND | CEC indicators Treat old active job as.. |
| (4) | 1... | | WTAICISA | "X'80'" ..same MVS instance |
| (4) | .1.. | | WTAISYSA | "X'40'" ..same XCF Sysplex |
| (6) | HALFWORD | 2 | WTAISCMD | Command code (Issue subsys cmd) |
| (8) | CHARACTER | 4 | WTAICMVS | MVS system identifier if active |
| (C) | FULLWORD | 4 | WTAICTOD | Most significant fullword of |
| (10) | CHARACTER | 8 | WTAIJOBN | Job name as known by JES |
| (18) | CHARACTER | 8 | WTAIJOBI | Job identifier as known by JES |
| (20) | CHARACTER | 8 | WTAISNAM | MVS System name (CVTSNAM) |
| (28) | CHARACTER | 4 | WTAISTOK | MVS Instance Token (QUASSID) |

Table 785. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| (2C) | BITSTRING | 1 | WTAISTAT | MVS System State |
| (2C) | 1... | | WTAISPRT | "X'80" ..In Sysplex Partitioning |
| (2C) | .1.. | | WTAILOCL | "X'40" ..In XCFLOCAL mode |
| (2D) | CHARACTER | 1 | (3) | Reserved |
| (2D) | ..1. 11.. | | WTAIJLEN | "*-WTAARGS" Length of arguments for |
| (30) | CHARACTER | 8 | WTAITCAN | Job name for CANCEL command |
| (38) | CHARACTER | 4 | WTAITJES | JES subsystem name |
| (3C) | HALFWORD | 2 | WTAITASI | Address space identifier |
| (3E) | HALFWORD | 2 | | Reserved OLD CICS ACTIVE WAIT FOR TERMINATION DATA: |
| (40) | FULLWORD | 4 | WTAIJESI | JES delay interval |
| (40) | .1.. | | WTATILEN | "*-WTAARGS" Length of arguments for |
| (40) | .1.. | | WTAVCLEN | "*-WTAARGS" Length of arguments for |
| (44) | CHARACTER | 4 | WTAISSID | External subsystem id. |
| (44) | .1.. .1.. | | WTASCLEN | "*-WTAARGS" Length of arguments for |
| (44) | .1.. .1.. | | WTATELEN | "*-WTAARGS" Length of arguments for |
| (44) | .1.. .1.. | | WTAVALLEN | "*-WTAARGS" Length of arguments for |
| Modify Uservar Overseer Operator Command Disable XRF services | | | | |
| (44) | .... .... |  | WTADXLLEN | "*-WTAARGS" Length of arguments for |
| (44) | .... .... |  | WTAMULEN | "*-WTAARGS" Length of arguments for |
| (4) | CHARACTER | 5 | WTAOCOMD (0) | Command data |
| (4) | ADDRESS | 4 | WTAOCAD | Address of command string |
| (8) | BITSTRING | 1 | WTAOCCL | Command string length (Maximum) |
| (8) |1.1 | | WTAOCLEN | "*-WTAARGS" Length of arguments for |
| Inquire System Details | | | | |
| (4) | CHARACTER | 8 | WTAGSNAM | MVS System Name (CVTSNAM) |
| (C) | CHARACTER | 4 | WTAGSTOK | MVS Instance Token (QUASSID) |
| (10) | BITSTRING | 1 | WTAGSTAT | MVS System State |

Table 785. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|------------|--|
| (10) | 1... | | WTAGSPRT | "X'80'" ...In Sysplex Partitioning |
| (10) | .1.. | | WTAGLOCL | "X'40'" ...In XCFLOCAL mode |
| (10) | 11.1 | | WTAGSLEN | "*-WTAARGS" Length of arguments for |
| (10) | .1.. 1... | | WTALEN | "*-DFHWTADS" Overall length |
| ...as in MVS DSECT SS0B Request Function codes (WTAFUNC) | | | | |
| (10) |1 | | WTAFTI | "X'01'" Takeover Initiation |
| (10) |1. | | WTAFJS | "X'02'" Inquire Job Status |
| (10) |11 | | WTAFVC | "X'03'" Verify CLT |
| (10) |1.. | | WTAFOC | "X'04'" Overseer Operator Command |
| (10) |1.1 | | WTAFMU | "X'05'" Issue 'F USERVAR' |
| (10) |11. | | WTAFLCL | "X'06'" Process CLT only |
| (10) |111 | | WTAFTTE | "X'07'" Terminate External Subsystem |
| (10) | 1... | | WTAFVA | "X'08'" Verify AXI |
| (10) | 1..1 | | WTAFSC | "X'09'" Issue subsystem command |
| (10) | 1.1. | | WTAFDX | "X'0A'" Disable XRF services |
| (10) | 1.11 | | WTAFFIS | "X'0B'" Inquire MVS system details |
| Request Modifiers Takeover initiation | | | | |
| (10) |1 | | WTATICM | "X'01'" Do not terminate active job |
| (10) |1. | | WTATIPC | "X'02'" Do not process CLT |
| (10) |1.. | | WTATICS | "X'04'" Process CLT for same CEC only |
| Process CLT | | | | |
| (10) |1.. | | WTATPCS | "WTATICS" Process CLT for same CEC only |
| Takeover external subsystem | | | | |
| (10) |1 | | WTATECM | "WTATICM" Do not terminate active system |
| Verify AXI | | | | |
| (10) |1 | | WTAVANCN | "X'01'" Do not check cancel name in AXI |
| (10) |1. | | WTAVANSS | "X'02'" Do not check subsystem id. |
| Command Codes (WTAISCMD) Issue Subsystem Command | | | | |

Table 785. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---------------------------------------|
| (10) |1 | | WTASCERE | "1" /ERE |
| (10) |1. | | WTASCSWT | "2" /SWITCH STANDBY SYSTEM |
| RETURN CODES: Contents of register 15 on return | | | | |
| (10) | .... .... |  | WTARCO | "0" Successful: Warning reason |
| (10) | 1... | | WTARCF | "8" Failure: Failure reason |
| Contents of register zero on return Byte 0 Original function code Byte 1 Original modifier Bytes 2-3 Reason code as below Reason code values Any request type Failures | | | | |
| (10) |1.. | | WTARISD | "X'0004" Service disabled |
| (10) | 1... | | WTARIIA | "X'0008" Invalid request or argument |
| Takeover Initiation Warnings | | | | |
| (10) | 11.. | | WTARIDV | "X'000C" CEC Dead Data request failed |
| (10) | ...1 | | WTARIDG | "X'0010" CEC Dead Data PUT failed due |
| (10) | ...1 .1.. | | WTARITF | "X'0014" Terminate command failed |
| Failures | | | | |
| (10) | ...1 1... | | WTARIAF | "X'0018" Authorization check failed |
| (10) | ...1 11.. | | WTARIAS | "X'001C" AFCs not found |
| Inquire Job Status Successful: | | | | |
| (10) | .... .... |  | WTARJNX | "X'0000" Job not executing - says JES |
| (10) | ..1. | | WTARJSX | "X'0020" Job executing |
| (10) | ..1. ...1 | | WTARXNX | "X'0021" Job not executing - says XCF |
| Failures | | | | |
| (10) | ..1. ..11 | | WTARJXF | "X'0023" IXCQUERY failure |
| (10) | ..1. .1.. | | WTARJNU | "X'0024" JES not up |
| (10) | ..1. .1.1 | | WTARJSSG | "X'0025" subt. stor. Getmain failed |
| (10) | ..1. .11. | | WTARJSAT | "X'0026" Subtask Attach failed |
| (10) | ..1. .111 | | WTARJSTO | "X'0027" Subtask TimeOut |
| (10) | ..1. 1... | | WTARJSE | "X'0028" Subtask error |
| (10) | ..1. 1..1 | | WTARJJDE | "X'0029" JES Detected Error |

Table 785. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| Verify CLT Failures: | | | | |
| (10) | ...1 1... | | WTARVAF | "WTARIAF" Authorization check failed |
| (10) | ...1 11.. | | WTARVAS | "WTARIAS" AFCS not found |
| (10) | ..1. 11.. | | WTARVNF | "X'002C'" Cancel name check failed |
| (10) | ..11 | | WTARVMF | "X'0030'" MVS SID check failed |
| (10) | ..11 .1.. | | WTARVJF | "X'0034'" JES subsystem name check failed |
| (10) | ..11 1... | | WTARVSF | "X'0038'" Subsystem name check failed |
| Overseer Operator Command Failures: | | | | |
| (10) | ..11 11.. | | WTARONA | "X'003C'" Not authorised |
| Process CLT Failures: | | | | |
| (10) | ...1 1... | | WTARPAF | "WTARIAF" Authorization check failed |
| (10) | ...1 11.. | | WTARPAS | "WTARIAS" AFCS not found |
| (10) | .1.. | | WTARIMC | "X'0040'" Modify uservar CSCB not found |
| (10) | .1.. .1.. | | WTARIMB | "X'0044'" Modify uservar command too long |
| (10) | .1.. 1... | | WTARIMS | "X'0048'" Modify uservar MGCR SVC error |
| (10) | .1.. 11.. | | WTARIMV | "X'004C'" Modify uservar ISTAVT not found |
| Issue Subsystem Command Failures: | | | | |
| (10) | .1.1 | | WTARCSF | "X'0050'" SSI failure |
| (10) | .1.1 .1.. | | WTARCCF | "X'0054'" Command failure |
| Inquire System Details command Successful: | | | | |
| (10) | .11. | | WTARSOK | "X'0060'" Inquire system details OK |
| (10) | .11. ...1 | | WTARSNFN | "X'0061'" Named system not in sysplex |
| Failures: | | | | |
| (10) | .11. .1.1 | | WTARSLOG | "X'0065'" IXCQUERY Logic error |

Contents of register 1 on return
Subtask failure indicators
For Takeover Initiation, Terminate Subsystem
and Inquire Job Status :-
SSI/Subtask error status data

Table 786.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|--------------|---|
| (0) | STRUCTURE | 0 | WTARCR1 | |
| (0) | FULLWORD | 4 | WTARSSRC (0) | SSI/Subtask error flags |
| (0) | BITSTRING | 1 | WTARSJND | STATUS error indicators: |
| (0) | 1... | | WTARSJNC | "X'80'" STATUS has hung. When caller TCB |
| (0) |1 | | WTARSJNJ | "X'01'" SSOBRETN byte 3 from IEFSSREQ |
| (0) |1. | | WTARSJNS | "X'02'" R15 byte 3 from IEFSSREQ |
| (0) |1.. | | WTARSJNG | "X'04'" Subtask/exit routine storage |
| (0) | 1... | | WTARSJNA | "X'08'" Subtask ATTACH failed |
| (0) | ...1 | | WTARSJNT | "X'10'" Subtask timeout occurred |
| (1) | BITSTRING | 1 | WTARSJSE | SSI return code from STATUS |
| (2) | BITSTRING | 1 | WTARSVND | SSI VERIFY/COMMAND errors |
| (2) |1 | | WTARSVNJ | "X'01'" SSOBRETN byte 3 from IEFSSREQ |
| (2) |1. | | WTARSVNS | "X'02'" R15 byte 3 after IEFSSREQ |
| (2) |1.. | | WTARSVNM | "X'04'" CICS not an MVS subsystem |
| (3) | BITSTRING | 1 | WTARSVSE | SSI return code from VERIFY/COMMAND |

WTG - XRF trace control area

CONTROL BLOCK NAME = DFHWTGPS
DESCRIPTIVE NAME = CICS TS (XRF) Trace Control area
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 1985, 1987
FUNCTION =
Contains description of the XRF Trace area. There is
a single instance.
LIFETIME =
Created on first call to XRF Trace (normally the result
of the call to GET LIFO (DFHWLGET) made by XRF ATTACH
(DFHWDATT) when called from INITIAL ATTACH (DFHWDINA)
during the XRF SIGNON process.
Destroyed during XRF SIGNOFF.
STORAGE CLASS =
Non-CICS storage. Usually above 16M line.

LOCATION =
 Addressed by WCGTRA in XRF Global area DFHWCGPS.
 INNER CONTROL BLOCKS =
 WTGAREA When DFHWTRP allocates the Trace control area
 it also allocates the trace area itself.
 WTGAREA describes the header of the trace area.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 WCGTRA Base for trace control area.

Table 787.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------|--|
| (0) | STRUCTURE | 64 | DFHWTGPS | Addressed from WS Global |
| (0) | CHARACTER | 16 | WTGAHDNG | Heading text - text is defined in WTGATEXT |
| (10) | ADDRESS | 4 | WTGSTART | Start of trace table |
| (14) | ADDRESS | 4 | WTGEND | End of trace table |
| (18) | ADDRESS | 4 | WTGNEXT | Next trace table entry |
| (1C) | BIT(16) | 2 | WTGFLAGS | |
| (1C) | 1... | | WTGFWRAP | Table has wrapped |
| (1C) | BIT(15) POS(2) | 2 | * | Reserved |
| (1E) | HALFWORD | 2 | * | Reserved |
| (20) | CHARACTER | 8 | WTGCLOCK | Target for STCK instrn issued by DFHWTRP. |
| (28) | ADDRESS | 4 | * | Reserved |
| (2C) | UNSIGNED | 4 | * | Reserved |
| (30) | CHARACTER | 8 | WTGCOPY | Shifted copy of STCK |
| (30) | UNSIGNED | 4 | WTG1647 | STCK bits 16-47 |
| (38) | ADDRESS | 4 | WTGCSTEP | Address of latest clock step entry. |
| (3C) | ADDRESS | 4 | WTGENTRY | Work space for trace |

Constants

Table 788.

| Len | Type | Value | Name | Description |
|------------------------------------|-----------|---------------------|----------|--------------|
| Size of trace area to be allocated | | | | |
| 4 | DECIMAL | 65536 | WTGASIZE | Allocate 64K |
| Heading text | | | | |
| 16 | CHARACTER | *** XRF TRACE ** | WTGATEXT | |

WTR - XRF trace interface

CONTROL BLOCK NAME = DFHWTRPS
DESCRIPTIVE NAME = CICS TS (XRF) XRF Trace Interface
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 1985
FUNCTION =
XRF Trace parameter block description used by a caller
of trace as a template to build a parameter block to
pass to trace (DFHWTRP).
LIFETIME =
Duration of this particular use of storage is a single
call to trace.
STORAGE CLASS =
User's discretion subject to lifetime constraint.
LOCATION =
Address is passed to DFHWTRP in Register 1.
INNER CONTROL BLOCKS =
WTRENTY This defines the structure of the entries in
the XRF trace area and includes DFHWTRPS itself.
WTRXxx Several definitions of the contents of the user
parts of trace entries for the various primary
entry types. DFHWTRPS also contains declarations
of the values for the primary types and subtypes
of the trace table entries.
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
None
MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
DATA AREAS =
None
CONTROL BLOCKS =
None
GLOBAL VARIABLES (Macro pass) =
None

Interface to trace and user data part of trace entry

Table 789.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 28 | DFHWTRPS | |
| (0) | CHARACTER | 2 | WTRTYPE | Entry type |
| (0) | UNSIGNED | 1 | WTRPRITP | Primary type code |
| (1) | UNSIGNED | 1 | WTRSUBTP | Subtype code |
| (2) | HALFWORD | 2 | WTRXPBNO | Process id. (set by trace routine not caller) |
| (4) | CHARACTER | 24 | WTRUSFLD | User fields |

Trace Entry format

Table 790.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------|
| (0) | STRUCTURE | 32 | WTRENTY | |
| (0) | CHARACTER | 28 | WTRUDATA | User data part |

Table 790. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (1C) | UNSIGNED | 4 | WTRCLOCK | Bits 15-46 of STCK value relative to last midnight |
| (20) | CHARACTER | 0 | WTREND | |

Linkage

Table 791.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (0) | STRUCTURE | 12 | WTRX01 | Call |
| (0) | CHARACTER | 8 | WTRX01NM | Module name |
| (8) | ADDRESS | 4 | WTRX01LA | LIFO allocation address |

Dispatcher

Usage is: WTRSTAT - WTRX021 = WDSIEPA (ATTACH argument)
 22 = WDSIIDA
 23 = WDSIESPIE
 24 = WDSSESTAE
 25 = Addr of attached process XPB
 26 = Process id. of attached proc.

WTRSTDET - No data

WTRSTDSP - WTRX021 = WXBEECBA

22 = WXBIECBA

23 = WXBWEVM

24 = WXBPEVM

25 = Addr of process XPB

26 = WXBHLKM

WTRSTXWE - WTRX021 = WDSEECBA (WAIT arguments)

22 = WDSIECBA

23 = WDSWEVM

24 = WDSPEVM

25 = WDSREVM

WTRSTXWL - WTRX021 = WDSFLKM (WAIT arguments)

22 = WDSGLKM

25 = WDGGLKSM

26 = WXBHLKM

WTRSTEND - No data

WTRSTOSW - WTRX025 = Addr of MVS WAIT list

26 = Number of events in list

WTRSTOSR - No data

Table 792.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 24 | WTRX02 | Dispatcher |
| (0) | ADDRESS | 4 | WTRX021 | Field 1 |
| (4) | ADDRESS | 4 | WTRX022 | Field 2 |
| (8) | ADDRESS | 4 | WTRX023 | Field 3 |
| (C) | ADDRESS | 4 | WTRX024 | Field 4 |
| (10) | ADDRESS | 4 | WTRX025 | Field 5 |
| (14) | ADDRESS | 4 | WTRX026 | Field 6 |

Message Manager I/O

Table 793.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------|
| (0) | STRUCTURE | 12 | WTRX03 | Call |
| (0) | ADDRESS | 4 | WTRX03RP | RPL address |
| (4) | ADDRESS | 4 | WTRX03RB | RBA of CI |
| (8) | CHARACTER | 1 | * | Reserved |
| (9) | CHARACTER | 3 | WTRX03FB | VSAM Feedback |

Message Manager Requests

Usage is: WTRSTENQ - WTRX042 = Queue name

43 = Message sequence number

44 = Address of message block

WTRSTWRT - WTRX042 = QUEUE name

43 = Message sequence number

44 = Message cycle number

45 = RBA of message

46 = Response to request

WTRSTRQ0 - WTRX041 = Instance number

42 = Version number

43 = Message sequence number

44 = Channel number

45 = Channel status

46 = Response to request

WTRSTRP0, WTRSTRQI, WTRSTRPI same as WTRSTRQ0

Table 794.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (0) | STRUCTURE | 24 | WTRX04 | Message manager requests |
| (0) | CHARACTER | 8 | WTRX04IV | Instance/Version |
| (0) | ADDRESS | 4 | WTRX041 | Field 1 |
| (4) | ADDRESS | 4 | WTRX042 | Field 2 |
| (8) | ADDRESS | 4 | WTRX043 | Field 3 |
| (C) | ADDRESS | 4 | WTRX044 | Field 4 |
| (10) | ADDRESS | 4 | WTRX045 | Field 5 |
| (14) | ADDRESS | 4 | WTRX046 | Field 6 |
| (14) | CHARACTER | 2 | * | Filler |
| (16) | CHARACTER | 2 | WTRX046R | Field 6R |

Clock step

Table 795.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 20 | WTRXFE | Clock step |
| (0) | CHARACTER | 8 | WTRXFECK | Actual STCK value |
| (8) | UNSIGNED | 4 | WTRXFEOM | Old midnight value |
| (C) | UNSIGNED | 4 | WTRXFENM | New midnight value |
| (10) | ADDRESS | 4 | WTRXFEPE | Previous clock step entry |

Reserved

Table 796.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 0 | WTRXFF | Reserved |
| (0) | CHARACTER | 0 | * | Reserved |

Constants

Table 797.

| Len | Type | Value | Name | Description |
|---|---------|-------|----------|--------------------------|
| Trace types codes - Values for WTRPRITP and WTRSUBTP. | | | | |
| 1 | DECIMAL | 1 | WTRPTLNK | Link |
| 1 | DECIMAL | 1 | WTRSTCAL | Link - Call |
| 1 | DECIMAL | 2 | WTRSTRTN | Link - Return |
| 1 | DECIMAL | 2 | WTRPTDSP | Dispatcher |
| 1 | DECIMAL | 1 | WTRSTATT | Disp - Process Attach |
| 1 | DECIMAL | 2 | WTRSTDET | Disp - Process Detach |
| 1 | DECIMAL | 3 | WTRSTDSP | Disp - Process Dispatch |
| 1 | DECIMAL | 4 | WTRSTXWE | Disp - XRF Wait (events) |
| 1 | DECIMAL | 5 | WTRSTXWL | Disp - XRF Wait (locks) |
| 1 | DECIMAL | 6 | WTRSTEND | Disp - No process |
| 1 | DECIMAL | 7 | WTRSTOSW | Disp - OS WAIT |
| 1 | DECIMAL | 8 | WTRSTOSR | Disp - OS dispatch |
| 1 | DECIMAL | 3 | WTRPTMMV | Message Manager I/O |
| 1 | DECIMAL | 1 | WTRSTVGT | MMV - VSAM GET Request |
| 1 | DECIMAL | 2 | WTRSTVPT | MMV - VSAM PUT Request |
| 1 | DECIMAL | 3 | WTRSTVRP | MMV - VSAM Response |
| 1 | DECIMAL | 4 | WTRPTMMR | Message Manager Requests |
| 1 | DECIMAL | 1 | WTRSTENQ | MMR - GET Message ENQ |
| 1 | DECIMAL | 2 | WTRSTWRT | MMR - PUT Message out |
| 1 | DECIMAL | 3 | WTRSTRQO | MMR - RQR Request Out |
| 1 | DECIMAL | 4 | WTRSTRPO | MMR - RQR Response Out |
| 1 | DECIMAL | 5 | WTRSTRQI | MMR - RQR Request In |
| 1 | DECIMAL | 6 | WTRSTRPI | MMR - RQR Response In |
| 1 | DECIMAL | 254 | WTRPTCLK | Clock step |
| 1 | DECIMAL | 255 | WTRPTRSV | Reserved |

WXB - XRF process block

CONTROL BLOCK NAME = DFHWXBPS
 DESCRIPTIVE NAME = CICS TS (XRF) Process Block
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1985
 FUNCTION =
 XRF process analogue of the CICS TCA supporting the XRF

LIFO mechanism and process dispatching.

LIFETIME =
 Created by XRF ATTACH (DFHWDATT) and destroyed when process returns (DFHWDISP).
 Artificial instances are sometimes created by other modules, e.g. DFHWS10, when they wish to create an environment in which the XRF LIFO mechanism can be used, though such instances are never visible to the XRF process dispatcher.

STORAGE CLASS =
 Non-CICS storage. Usually in MVS subpool 0 storage above 16M line.

LOCATION =
 Conventionally addressed by R12. Those created by ATTACH are also on the XRF dispatcher chain WDGFXPB.

INNER CONTROL BLOCKS =
 None

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 None
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None.
 GLOBAL VARIABLES (Macro pass) =
 None

Table 798.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|----------------|-----|------------|------------------------------|
| (0) | STRUCTURE | 144 | DFHWXBPS | XRF Process block (XPB) |
| (0) | CHARACTER | 48 | WXBDSTAT | Dispatcher state data |
| Dispatcher chain and LIFO anchors | | | | |
| (0) | CHARACTER | 24 | WXBBASE | Basic part |
| (0) | ADDRESS | 4 | WXBCHAIN | Next XPB in dispatcher chain |
| (4) | FULLWORD | 4 | WXBSIZE | Size of block |
| (8) | ADDRESS | 4 | WXBLA | Current LIFO addr |
| (C) | ADDRESS | 4 | WXBGLBLA | WS Global address |
| (10) | HALFWORD | 2 | WXBXPBNO | Process identifier |
| (12) | BIT(16) | 2 | WXBPFGLS | Flags |
| (12) | 1... | | WXBFWAIT | Process issued a WAIT |
| (12) | .1.. | | WXBFXRF | XRF Process XPB |
| (12) | BIT(14) POS(3) | 2 | * | Spare |
| (14) | ADDRESS | 4 | WXBLBLKA | Current LIFO block addr |
| Locks and events | | | | |
| (18) | CHARACTER | 24 | WXBLED | Lock and event data |
| (18) | ADDRESS | 4 | WXBEECBA | External event address |
| (1C) | ADDRESS | 4 | WXBIECBA | Internal event address |
| (20) | BIT(32) | 4 | WXBWEVM | Broadcast events waited |

Table 798. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------------|--------------------------------|
| (24) | BIT(32) | 4 | WXBPEVM | Broadcast events posted |
| (28) | BIT(32) | 4 | WXBRLKM | Freed locks mask |
| (2C) | BIT(32) | 4 | WXBHLKM | Locks held mask |
| Dispatcher save area | | | | |
| (30) | CHARACTER | 64 | WXBDSVA | Dispatcher register save area. |
| (30) | ADDRESS | 4 | WXBDSV00 | Register 0 save slot |
| (34) | ADDRESS | 4 | WXBDSV01 | Register 1 save slot |
| (38) | ADDRESS | 4 | WXBDSV02 | Register 2 save slot |
| (3C) | ADDRESS | 4 | WXBDSV03 | Register 3 save slot |
| (40) | ADDRESS | 4 | WXBDSV04 | Register 4 save slot |
| (44) | ADDRESS | 4 | WXBDSV05 | Register 5 save slot |
| (48) | ADDRESS | 4 | WXBDSV06 | Register 6 save slot |
| (4C) | ADDRESS | 4 | WXBDSV07 | Register 7 save slot |
| (50) | ADDRESS | 4 | WXBDSV08 | Register 8 save slot |
| (54) | ADDRESS | 4 | WXBDSV09 | Register 9 save slot |
| (58) | ADDRESS | 4 | WXBDSV10 | Register 10 save slot |
| (5C) | ADDRESS | 4 | WXBDSV11 | Register 11 save slot |
| (60) | ADDRESS | 4 | WXBDSV12 | Register 12 save slot |
| (64) | ADDRESS | 4 | WXBDSV13 | Register 13 save slot |
| (68) | ADDRESS | 4 | WXBDSV14 | Register 14 save slot |
| (6C) | ADDRESS | 4 | WXBDSV15 | Register 15 save slot |
| Data from ATTACH | | | | |
| (70) | ADDRESS | 4 | WXBIDA | Initial data parameter |
| (74) | ADDRESS | 4 | WXBESPIE | ESPIE exit address |
| (78) | ADDRESS | 4 | WXBESPDA | ESPIE parameter |
| (7C) | ADDRESS | 4 | WXBESTAE | ESTAE exit address |
| (80) | ADDRESS | 4 | WXBESTDA | ESTAE parameter |
| (84) | ADDRESS | 4 | * (4294967299:341913600) | Reserved |
| Dummy stack block starts at end of XPB. | | | | |
| (90) | CHARACTER | 0 | WXBISB | Dummy stack block |

Overlay of status used when XPB is a dummy built simply to gain access to LIFO support.

Table 799.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (18) | STRUCTURE | 8 | WXBCICS | |
| (18) | ADDRESS | 4 | WXBTC A | TCA address of task which is using this XPB. |
| (1C) | ADDRESS | 4 | WXBCSA | CSA address |

Constants

Table 800.

| Len | Type | Value | Name | Description |
|---|---------|-------|----------|---------------------------|
| Special process number values (WXBXPBNO). | | | | |
| 2 | DECIMAL | -1 | WXBPNDSP | Dispatcher pseudo-process |
| 2 | DECIMAL | -2 | WXBPNSRP | Error pseudo-process |

WXL - XRF LIFO stack area

CONTROL BLOCK NAME = DFHWXLPS
 DESCRIPTIVE NAME = CICS TS (XRF) XRF LIFO Stack Areas
 Licensed Materials - Property of IBM
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 5655-Y04
 (C) Copyright IBM Corp. 1985
 FUNCTION =
 Control data at the beginning of a block of storage from which XRF LIFO storage is allocated.
 LIFETIME =
 Created by GET LIFO (DFHWLGET) when a new stack block is acquired for an XRF process.
 Destroyed by FREE LIFO (DFHWLFRE) when a all allocations of LIFO in the block have been released.
 An instance is also imbedded within an XRF process block (DFHWXBPS) to provide a first block containing space for just a standard OS Save Area used when a process is first dispatched.
 STORAGE CLASS =
 Non-CICS storage. MVS subpool 0 storage above 16M line.
 LOCATION =
 WXBBLKA addresses the currently active stack block for a given XRF process.
 INNER CONTROL BLOCKS =
 WXLHDR Describes the allocation header which precedes each individual LIFO allocation within a LIFO stack block. The current allocation for a given XRF process is addressed by WXBLA.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 WXBBLKA
 WXBLA
 GLOBAL VARIABLES (Macro pass) =
 None

Stack Block header

Table 801.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (0) | STRUCTURE | 16 | DFHWXLPS | XRF LIFO Stack block hdr |
| (0) | ADDRESS | 4 | WXLPREV | Previous block address |
| (4) | ADDRESS | 4 | WXLBOS | Bottom of this block |

Table 801. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (8) | ADDRESS | 4 | WXLEOS | End of this block |
| (C) | ADDRESS | 4 | WXLNAB | Next available byte in the block. |
| (10) | CHARACTER | 0 | WXLEND | |

Allocation header

Table 802.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 16 | WXLAHDR | XRF LIFO Allocation header |
| (0) | CHARACTER | 8 | WXLAHID | Module identifier |
| (8) | ADDRESS | 4 | WXLAHPLA | Previous LIFO allocation |
| (C) | FULLWORD | 4 | WXLAHALN | Length of allocation (not including this header). |
| (10) | CHARACTER | 0 | WXLAHEND | |

XCTRC - DFHXCTRA parameter list definition

CONTROL BLOCK NAME = DFHXCTRC
 DESCRIPTIVE NAME = CICS TS External CICS Interface, DFHXCTRA
 Parameter list definition.
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1992, 2010
 FUNCTION = This file contains the XCTRA_PLIST definition. This DSECT defines the parameter list between DFHXCTRP (the EXCI trace module) and DFHXCTRA (the EXCI global trap module). Akin the CICS trap module DFHTRAP.
 If DFHXCTRA is active, (by having TRAP=ON defined in DFHXCOPTS), then DFHXCTRA will be invoked for every trace entry put out by the EXCI facility.
 LIFETIME = The storage mapped by this DSECT is GETMAINED by DFHXCTRI on the very first Init user request on every TCB, and kept until TCB termination.
 LOCATION = The XCTRA_PLIST dsect is actually part of a larger control block called TRAP_WA (also included in this copy book), which includes the areas pointed at by fields in XCTRA_PLIST. TRAP_WA is chained off the XCGLOBAL for the TCB.
 NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition

XCTRL - Mapping of LIFO storage required by DFHXCTRP, DFHXCTRI and DFHXCDMP.

Table 803.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (0) | STRUCTURE | 580 | XCTRL | |
| (0) | CHARACTER | 72 | RSA | Save Area for external calls |
| (0) | FULLWORD | 4 | * | Reserved |

Table 803. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|------------------------------|
| (4) | FULLWORD | 4 | RSACB | Backward Pointer |
| (8) | FULLWORD | 4 | RSACF | Forward Pointer |
| (C) | FULLWORD | 4 | * (4294967311:341954192) | Regs 14 - 12 |
| (48) | ADDRESS | 4 | PLIST_PTR | Pointer to base plist on |
| (4C) | FULLWORD | 4 | AREA_LENGTH | Used in table initialisation |
| (50) | FULLWORD | 4 | BLOCK_COUNT | Used in table initialisation |
| (54) | FULLWORD | 4 | I | Loop Index |
| (58) | FULLWORD | 4 | J | Loop Index |
| (5C) | FULLWORD | 4 | * | Reserved |
| (60) | ADDRESS | 8 | SAVEGR14 | area to save R14 |
| (68) | ADDRESS | 8 | SAVE2GR14 | area to save R14 |
| (70) | ADDRESS | 8 | BACKPTR | Used in table initialisation |
| (78) | ADDRESS | 8 | TR_BLOCK_PTR | Base for DFHTRBL structure |
| (80) | ADDRESS | 8 | ENTRY_PTR | Ptr to entry in table |
| (88) | FULLWORD | 4 | ENTRY_LEN | Entry length |
| (8C) | BIT(8) | 1 | FOOTPRINTS | Footprint flags |
| (8C) | 1... | | TRA_FREEMAIN_REQ | Freemain of DFHTRA required |
| (8C) | .1.. | | TABLE_FREEMAIN_REQ | Freemain of Trace table req. |
| (8C) | ..1. | | TRAP_WA_FREEMAIN_REQ | Freemain of trap wa required |
| (8C) | ...1 | | GTF_BUF_FREEMAIN_REQ | Freemain of GTF buffer req. |
| (8C) | 1... | | MOVING_DATA | Moving Data into trace table |
| (8C) |1.. | | TRAP_IN_CONTROL | Control passed to DFHXCTRA. |
| (8C) |1. | | OVERLENGTH_ENTRY | overlength entry detected |
| (8C) |1 | | * | Reserved |
| (8D) | BIT(8) | 1 | * (4294967299:341954192) | Reserved |
| (90) | CHARACTER | 16 | XCSVC_PLIST | Parameter list to call XCSVC |
| (90) | ADDRESS | 4 | XCSVC_CODEP | Pointer to dump code |
| (94) | ADDRESS | 4 | XCSVC_IDP | Pointer to dump id |
| (98) | ADDRESS | 4 | XCSVC_USERP | Pointer to user name |
| (9C) | ADDRESS | 4 | XCSVC_TCBP | Pointer to TCB address |
| (A0) | CHARACTER | 8 | WORK8 | Work area for CVD and unpack |
| (A8) | CHARACTER | 8 | TCBA_STR | Char form of TCB address |
| (B0) | CHARACTER | 3 | WORK3 | work area |
| (B3) | CHARACTER | 4 | SDUMP_RC | Save area for SDUMP rc |
| (B7) | CHARACTER | 9 | WORK9 | Work area |
| (C0) | CHARACTER | 5 | WORK5 | Work area |
| (C5) | CHARACTER | 4 | WORK4 | work area |

Table 803. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|--------------------------------|
| (C9) | CHARACTER | 3 | * | reserved |
| (CC) | HALFWORD | 2 | INDEX | Index into string |
| (CE) | HALFWORD | 2 | RETRY_TIME_TO_GO | SDUMP retry time left |
| (D0) | ADDRESS | 4 | MSG_PLIST_PTR | Pointer to mebm plist |
| (D4) | BIT(8) | 1 | XCDMP_FOOTPRINTS | footprints for XCDMP |
| (D4) | 1... | | STIMERM_FAILED | remember STIMERM failed |
| (D4) | .1.. | | BUSY_MSG_ISSUED | Only issue busy msg once |
| (D4) | ..1. | | SYSTEM_DUMP_TKN | sdump has been taken |
| (D4) | ...1 1111 | | * | Reserved |
| (D5) | BIT(8) | 1 | *(4294967299:341954192) | Reserved |
| (D8) | CHARACTER | 184 | MSG_PARM_AREA | plist for MEBM |
| (190) | ADDRESS | 4 | MEBM_TEMP_PTR | temp ptr used for mebm |
| (194) | CHARACTER | 132 | XCTRL_MSG | Message buffer |
| (194) | HALFWORD | 2 | XCTRL_MSG_LEN | LL |
| (196) | HALFWORD | 2 | XCTRL_MSG_0 | BB |
| (198) | CHARACTER | 124 | XCTRL_MSG_TEXT | Maximum size msg output |
| (214) | CHARACTER | 4 | XCTRL_MSG_WTO_PARMS | Space for extra WTO parms |
| (218) | UNSIGNED | 4 | * | Reserved |
| (220) | ADDRESS | 8 | GTF_PTR | Address of data for GTRACE |
| (228) | UNSIGNED | 4 | GTF_LEN | Length of data for GTRACE * |
| (22C) | UNSIGNED | 4 | GTF_LTG | Length-to-go for GTRACE |
| (230) | CHARACTER | 8 | GTRACE_AUTO | Parameter area for GTRACE * |
| (238) | CHARACTER | 12 | XCTRL_SYMP_STR | symptom string |
| (238) | CHARACTER | 8 | XCTRL_SYMP_STR_USER | user name |
| (240) | CHARACTER | 2 | XCTRL_SYMP_STR_TPT | trace point id |
| (242) | CHARACTER | 2 | * | Reserved |

XCTRA_PLIST - Parameter list passed to Global trap DFHXCTRA

Table 804.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-------------|
| (0) | STRUCTURE | 72 | XCTRA_PLIST | |

Table 804. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------|------------------------------|
| <p>XCTRA_FLGSA Address of return actions flag word Return actions flag settings are in the byte addressed from field XCTRA_FLGSA in the parameter list to DFHXCTRA. The individual flag settings are as follows, and are declared as constants at the end of the structure. XCTRA_FTRE EQU X'80' .. Make further trace entry on behalf of trap exit XCTRA_DUMP EQU X'40' .. Take a system dump XCTRA_SKIP EQU X'20' .. Skip putting current trace entry out to GTF XCTRA_DISA EQU X'10' .. Disable trap so that it cannot be used again under this TCB. Any combination of these flags may be set and wherever possible all requested actions will be honoured upon return to DFHXCTRP.</p> | | | | |
| (0) | ADDRESS | 4 | XCTRA_FLGSA | A(Return actions flag word) |
| (4) | ADDRESS | 4 | * | Reserved |
| <p>XCTRA_CURTA Address of current entry in internal trace table This field points to the trace entry constructed by DFHXCTRP on the same invocation for which it is calling DFHXCTRA. This entry should not be modified by DFHXCTRA. Its structure is mapped by the DSECT DFHTREN.</p> | | | | |
| (8) | ADDRESS | 8 | XCTRA_CURTA | A(Current entry) |
| <p>XCTRA_WORKA Address of 80-byte work area for DFHXCTRA. This work area is acquired when DFHXCTRA is activated and is not changed by the EXCI until DFHXCTRA is de-activated, so it may be used for saving information between invocations of DFHXCTRA.</p> | | | | |
| (10) | ADDRESS | 4 | XCTRA_WORKA | A(80-byte work area) |
| <p>TRAD1A/L, TRAD2A/L and TRAD3A/L These six fields are used in conjunction with the setting of XCTRA_FTRE in the return actions flag byte. This flag indicates that DFHXCTRP should make a further trace entry. TRADnA/L are address and length pairs for the data fields to be included in this entry. If XCTRA_FTRE is set, DFHXCTRP examines the length fields in turn. All fields up to the first with a zero length will be included in the extra trace entry.</p> | | | | |
| (14) | CHARACTER | 24 | XCTRA_TRDAT | Total length of data fields |
| (14) | ADDRESS | 4 | XCTRA_TRAD1A | Address of DATA1 information |
| (18) | UNSIGNED | 4 | XCTRA_TRAD1L | Length of DATA1 information |
| (1C) | ADDRESS | 4 | XCTRA_TRAD2A | Address of DATA2 information |
| (20) | UNSIGNED | 4 | XCTRA_TRAD2L | Length of DATA2 information |
| (24) | ADDRESS | 4 | XCTRA_TRAD3A | Address of DATA3 information |
| (28) | UNSIGNED | 4 | XCTRA_TRAD3L | Length of DATA3 information |
| <p>XCTRA_XCGBALA - Address of the XCGBAL block for this TCB. Address may be 0 if block not set up yet.</p> | | | | |
| (2C) | ADDRESS | 4 | XCTRA_XCGBALA | A(XCGBAL block) |

Table 804. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------|-------------------------------|
| XCTRA_XCUSERA - Address of the XCUSER block representing the particular user on whose behalf this request is running. Address may be 0 if block not set up yet. | | | | |
| (30) | ADDRESS | 4 | XCTRA_XCUSERA | A(XCUSER bloc) |
| XCTRA_XCPIPEA - Address of the XCPIPE block representing the particular pipe being used for this request for this user. Address may be 0 if block not set up yet. | | | | |
| (34) | ADDRESS | 4 | XCTRA_XCPIPEA | A(XCPIPE) |
| XCTRA_XCPRH_WAA - Address of the working storage of the program request handler. Address may be 0 if block not set up yet. | | | | |
| (38) | ADDRESS | 4 | XCTRA_XCPRH_WAA | A(DFHXCPRH's working storage) |
| XCTRA_XCEIP_WAA - Address of the working storage of the EXEC Interface program. Address may be 0 if block not set up yet, or the EXCI EXEC Interface is not being used. | | | | |
| (3C) | ADDRESS | 4 | XCTRA_XCEIP_WAA | A(DFHXCEIP's working storage) |
| XCTRA_RSAA - Address of the register save area to be used by DFHXCTRA. | | | | |
| (40) | ADDRESS | 4 | XCTRA_RSAA | RSA address |
| (44) | ADDRESS | 4 | * | Reserved |
| (48) | CHARACTER | 0 | XCTRA_PLIST_END | Ending address |

TRAP_WA - Work areas for Global trap DFHXCTRA

Table 805.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|------|------------------|--|
| (0) | STRUCTURE | 1024 | TRAP_WA | |
| (0) | CHARACTER | 72 | TRAP_REGSAVE | RSA for DFHXCTRA |
| (48) | CHARACTER | 72 | TRAP_PLIST | |
| (90) | BIT(8) | 1 | TRAP_FLAGS | Trap return action flags |
| (90) | 1... | | TRAP_TRACE | Further trace entry required |
| (90) | .1.. | | TRAP_DUMP | system dump required |
| (90) | ..1. | | TRAP_SKIP_GTF | Skip outputting entry to GTF |
| (90) | ...1 | | TRAP_DISABLE | Disable the trap |
| (90) | 1111 | | * | Reserved |
| (91) | BIT(24) | 3 | * | Reserved |
| (94) | CHARACTER | 128 | TRAP_TR_DU_PLIST | Area for plist for calling trace and dump |
| (114) | CHARACTER | 580 | TRAP_TR_DU_WS | Working stg required for recursive Trace call. |
| (358) | CHARACTER | 72 | TRAP_TR_DU_RSA | RSA for recursive trace call |

Table 805. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-------------------------------|
| (3A0) | CHARACTER | 96 | TRAP_WORK | Force D-word alignment for.. |
| (3A0) | CHARACTER | 16 | TRAP_WORK_EYEC | '>DFHXCTRA_WKAREA' eyecatcher |
| (3B0) | CHARACTER | 80 | TRAP_WORKAREA | Work area for DFHXCTRA |

Constants

Table 806.

| Len | Type | Value | Name | Description |
|--|------|-------|-----------------------------|-------------|
| Constants for use with XCTRA_FLGSA | | | | |
| 1 | HEX | 80 | XCTRA_FTRE | |
| 1 | HEX | 40 | XCTRA_DUMP | |
| 1 | HEX | 20 | XCTRA_SKIP | |
| 1 | HEX | 10 | XCTRA_DISA | |
| External CICS Interface Trace Points Note: The exception trace point IDs correspond to the EXCI return code values for the particular error. Please consult DFHXCRC if any changes are made. | | | | |
| 2 | HEX | 0001 | XCPRH_PIPE_ALREADY_OPEN | |
| 2 | HEX | 0002 | XCPRH_PIPE_ALREADY_CLOSED | |
| 2 | HEX | 0003 | XCPRH_VERIFY_BLOCK_FM_ERROR | |
| 2 | HEX | 0005 | XCPRH_XCP_FM_ERR | |
| 2 | HEX | 0006 | XCPRH_IRP_IOAREA_FM_ERR | |
| 2 | HEX | 0007 | XCPRH_SERVER_TERMINATED | |
| 2 | HEX | 0008 | XCPRH_XFRSTG1_FM_ERR | |
| 2 | HEX | 0201 | XCPRH_NO_CICS_IRC_STARTED | |
| 2 | HEX | 0202 | XCPRH_NO_PIPE | |
| 2 | HEX | 0203 | XCPRH_NO_CICS_ON_OPEN | |
| 2 | HEX | 0204 | XCPRH_NO_CICS_ON_DPL_1 | |
| 2 | HEX | 0205 | XCPRH_NO_CICS_ON_DPL_2 | |
| 2 | HEX | 0206 | XCPRH_NO_CICS_ON_DPL_3 | |
| 2 | HEX | 0403 | XCPRH_INVALID_APPL_NAME | |
| 2 | HEX | 0405 | XCPRH_PIPE_NOT_CLOSED | |
| 2 | HEX | 0406 | XCPRH_PIPE_NOT_OPEN | |
| 2 | HEX | 0407 | XCPRH_INVALID_USERID | |
| 2 | HEX | 0408 | XCPRH_INVALID_UOWID | |
| 2 | HEX | 0409 | XCPRH_INVALID_TRANSID | |
| 2 | HEX | 0414 | XCPRH_ABORT_RECEIVED | |
| 2 | HEX | 0415 | XCPRH_INVALID_CONNECTION | |

Table 806. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|-------------------------------|-------------|
| 2 | HEX | 0416 | XCPRH_INVALID_CICS_ RELEASE | |
| 2 | HEX | 0417 | XCPRH_PIPE_MUST_CLOSE | |
| 2 | HEX | 0418 | XCPRH_INVALID_PIPE_ TOKEN | |
| 2 | HEX | 0422 | XCPRH_SERVER_ABENDED | |
| 2 | HEX | 0423 | XCPRH_SURROGATE_CHECK_ FAILED | |
| 2 | HEX | 0426 | XCPRH_INVALID_TRANSID2 | |
| 2 | HEX | 0427 | XCPRH_INVALID_CCsid | |
| 2 | HEX | 0428 | XCPRH_INVALID_ENDIAN | |
| 2 | HEX | 0603 | XCPRH_XCUSER_GM_ERROR | |
| 2 | HEX | 0604 | XCPRH_XCPIPE_GM_ERROR | |
| 2 | HEX | 0605 | XCPRH_VERIFY_BLOCK_GM_ ERROR | |
| 2 | HEX | 0606 | XCPRH_SSI_VERIFY_ FAILED | |
| 2 | HEX | 0607 | XCPRH_SVC_CALL_FAILURE | |
| 2 | HEX | 0608 | XCPRH_IRP_LOGON_ FAILURE | |
| 2 | HEX | 0609 | XCPRH_IRP_CONNECT_FAIL | |
| 2 | HEX | 0610 | XCPRH_IRP_DISC_FAIL | |
| 2 | HEX | 0611 | XCPRH_IRP_LOGOFF_ FAILED | |
| 2 | HEX | 0612 | XCPRH_TRANSFORM_1_ ERROR | |
| 2 | HEX | 0613 | XCPRH_TRANSFORM_4_ERR | |
| 2 | HEX | 0614 | XCPRH_IRP_NULL_DATA | |
| 2 | HEX | 0615 | XCPRH_IRP_NEG_RESPONSE | |
| 2 | HEX | 0616 | XCPRH_IRP_SWITCH_PULL_ ERR | |
| 2 | HEX | 0617 | XCPRH_IRP_IOAREA_GM_ ERR | |
| 2 | HEX | 0619 | XCPRH_IRP_BAD_IOAREA | |
| 2 | HEX | 0620 | XCPRH_IRP_PROTOCOL_ERR | |
| 2 | HEX | 0621 | XCPRH_PIPE_RECOVERY_ FAILURE | |
| 2 | HEX | 0622 | XCPRH_ESTAE_SETUP_FAIL | |
| 2 | HEX | 0623 | XCPRH_ESTAE_INVOKED | |
| 2 | HEX | 0624 | XCPRH_TIMEDOUT | |
| 2 | HEX | 0625 | XCPRH_STIMER_SETUP_ FAIL | |
| 2 | HEX | 0626 | XCPRH_STIMER_CANCEL_ FAIL | |
| 2 | HEX | 0627 | XCPRH_INCORRECT_SVC_ LVL | |
| 2 | HEX | 0628 | XCPRH_INCORRECT_IRP_ LVL | |
| 2 | HEX | 0629 | XCPRH_SERVER_PROTOCOL_ ERR | |
| 2 | HEX | 0800 | XCPRH LENGERR | |
| 2 | HEX | 0801 | XCPRH_INVREQ | |

Table 806. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|----------------------------|-------------|
| 2 | HEX | 0802 | XCPRH_PGMIDERR | |
| 2 | HEX | 0803 | XCPRH_ROLDBACK | |
| 2 | HEX | 0804 | XCPRH_NOTAUTH | |
| 2 | HEX | 0805 | XCPRH_SYSIDER | |
| 2 | HEX | 0806 | XCPRH_TERMERR | |
| 2 | HEX | 0807 | XCPRH_RESUNAVAIL | |
| 2 | HEX | 1000 | XCPRH_ENTRY | |
| 2 | HEX | 1001 | XCPRH_EXIT | |
| 2 | HEX | 1010 | XCEIP_ENTRY | |
| 2 | HEX | 1011 | XCEIP_EXIT | |
| 2 | HEX | 2000 | XCPRH_IRP_LOGON | |
| 2 | HEX | 2001 | XCPRH_IRP_CONN | |
| 2 | HEX | 2002 | XCPRH_IRP_DISC | |
| 2 | HEX | 2003 | XCPRH_IRP_LOGOFF | |
| 2 | HEX | 2004 | XCPRH_IRP_SWITCH | |
| 2 | HEX | 2005 | XCPRH_IRP_SWITCH_DATA | |
| 2 | HEX | 2006 | XCPRH_IRP_DATA | |
| 2 | HEX | 2007 | XCPRH_PRE_URM | |
| 2 | HEX | 2008 | XCPRH_POST_URM | |
| 2 | HEX | 2009 | XCPRH_PRE_RACROUTE | |
| 2 | HEX | 200A | XCPRH_POST_RACROUTE | |
| 2 | HEX | 0900 | XCTRI_TRA_GM_ERROR | |
| 2 | HEX | 0901 | XCTRI_TRACE_TABLE_GM_ERROR | |
| 2 | HEX | 0902 | XCTRI_TRAP_WA_GM_ERROR | |
| 2 | HEX | 0903 | XCTRI_GTF_BUFFER_GM_ERROR | |
| 2 | HEX | 0904 | XCTRP_OVERLENGTH_ENTRY | |
| 2 | HEX | 0905 | XCTRA_REQUESTED_ENTRY | |
| 2 | HEX | 0906 | XCTRI_TIME_WA_GM_ERROR | |
| 2 | HEX | 3000 | XCEIP_ESTAE_SETUP_ERROR | |
| 2 | HEX | 3001 | XCEIP_ESTAE_INVOKED | |
| 2 | HEX | 3002 | XCEIP_INV_CTYPE_ON_INIT | |
| 2 | HEX | 3003 | XCEIP_INV_VNUM_ON_INIT | |
| 2 | HEX | 3004 | XCEIP_INV_ANAME_ON_INIT | |
| 2 | HEX | 3005 | XCEIP_INV_CTYPE_ON_ALLOC | |
| 2 | HEX | 3006 | XCEIP_INV_VNUM_ON_ALLOC | |
| 2 | HEX | 3007 | XCEIP_INV_UTOKEN_ON_ALLOC | |
| 2 | HEX | 3008 | XCEIP_INV_CTYPE_ON_OPEN | |

Table 806. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|---------------------------------|-------------|
| 2 | HEX | 3009 | XCEIP_INV_VNUM_ON_OPEN | |
| 2 | HEX | 3010 | XCEIP_INV_UTOKEN_ON_OPEN | |
| 2 | HEX | 3011 | XCEIP_INV_PTOKEN_ON_OPEN | |
| 2 | HEX | 3012 | XCEIP_INV_CTYPE_ON_DPL | |
| 2 | HEX | 3013 | XCEIP_INV_VNUM_ON_DPL | |
| 2 | HEX | 3014 | XCEIP_INV_UTOKEN_ON_DPL | |
| 2 | HEX | 3015 | XCEIP_INV_PTOKEN_ON_DPL | |
| 2 | HEX | 3017 | XCEIP_INV_USERID | |
| 2 | HEX | 3018 | XCEIP_PIPE_NOT_OPEN_ON_DPL | |
| 2 | HEX | 3019 | XCEIP_PIPE_MUST_CLOSE_ON_DPL | |
| 2 | HEX | 3020 | XCEIP_INV_CTYPE_ON_CLOSE | |
| 2 | HEX | 3021 | XCEIP_INV_VNUM_ON_CLOSE | |
| 2 | HEX | 3022 | XCEIP_INV_UTOKEN_ON_CLOSE | |
| 2 | HEX | 3023 | XCEIP_INV_PTOKEN_ON_CLOSE | |
| 2 | HEX | 3024 | XCEIP_INV_CTYPE_ON_DEALL | |
| 2 | HEX | 3025 | XCEIP_INV_VNUM_ON_DEALL | |
| 2 | HEX | 3026 | XCEIP_INV_UTOKEN_ON_DEALL | |
| 2 | HEX | 3027 | XCEIP_INV_PTOKEN_ON_DEALL | |
| 2 | HEX | 3028 | XCEIP_PIPE_NOT_CLOSED_ON_DEALL | |
| 2 | HEX | 3029 | XCEIP_RETRYING | |
| 2 | HEX | 3030 | XCEIP_SURROGATE_CHK_FAIL_ON_DPL | |
| 2 | HEX | 4000 | XCGUR_ENTRY | |
| 2 | HEX | 4001 | XCGUR_EXIT | |
| 2 | HEX | 4002 | XCGUR_PRE_SVC | |
| 2 | HEX | 4003 | XCGUR_POST_SVC | |
| 2 | HEX | 4004 | XCGUR_RRS_NOT_SUPPORTED | |
| 2 | HEX | 4005 | XCGUR_RRS_ERROR | |
| 2 | HEX | 4006 | XCGUR_SVC_EXCEPTION | |
| 2 | HEX | 4007 | XCGUR_GETMAIN_ERR | |

XFIOA - Transformed MRO function

MACRO NAME = DFHXFIOA

DESCRIPTIVE NAME = CICS TS DFHXFX TRANSFORMED MRO AND IPIC
FUNCTION SHIPPING REQUEST AND
REPLY DSECT

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(C) Copyright IBM Corp. 1982, 2013
 FUNCTION = THIS MACRO GENERATES THE DSECT USED BY THE FAST PATH
 MRO FUNCTION SHIPPING TRANSFORMER (DFHXFX) TO
 FORMAT TIOA'S USED TO SEND REQUESTS AND REPLIES FROM
 ONE MRO REGION TO ANOTHER.
 THE DSECT IS ALSO USED BY THE IPIC FUNCTION SHIPPING
 TRANSFORMER (DFHISFS) TO FORMAT THE BUFFERS USED TO
 SEND REQUESTS AND REPLIES VIA IPIC.
 INPUT = THERE ARE NO PARAMETERS ON THIS MACRO.
 OUTPUT = THE TIOA DSECT.
 EXTERNAL REFERENCES = NONE
 The Pre IDPROP TIOA consists of the following sections:
 TIOAHdr + FMH5 + 'FFFF'x + Request
 Because Request can be > max TIOA size we cannot add an ICRX
 to the end of the TIOA. If ICRX exist must be in 1st TIOA.
 Note that this is only done if both sides understand ICRXs.
 If ICRXs are understood by both sides and exist, TIOA is now:
 TIOAHdr + FMH5 + 'FFFF'x + 'FFFF00'x + offset + ICRX + oldTIOA
 FMH attach processing can then use TIOA with or without ICRX
 by rebasing depending whether or not 'FFFF00'X is present

Table 807.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|--|
| (0) | STRUCTURE | 0 | DFHXFIOA | TIOA DSECT |
| THIS PART OF THE DSECT DESCRIBES THE FORMAT OF THE TIOA USED TO SEND REQUESTS. IT IS USED BY TRANSFORMERS 1 AND 2 ONLY. | | | | |
| (0) | .... .. |  | XRQDS | "*" |
| (0) | FULLWORD | 4 | (3) | TIOA HEADER |
| (0) | 11.. | | XRQTHLEN | "*-XRQDS" Length of TIOA Header |
| (0) | 11.. | | XRQSTART | "*" START OF REQUEST DATA |
| COMMON REQUEST PARAMETERS | | | | |
| (C) | CHARACTER | 13 | XRQFMHAR | AREA FOR ATTACH FMH |
| (19) | CHARACTER | 2 | XRQTAG | X'FFFF' MEANS XFX TIOA |
| (19) | ...1 1.11 | | XRQTLEN | "*-XRQDS" Length of TIOA Attach Hdr |
| (1B) | CHARACTER | 9 | XRQARG0 | EIP'S ARG0 ON REQUESTS |
| (24) | HALFWORD | 2 | XRQDOFF | OFFSET OF DATA IN TIOA |
| (26) | HALFWORD | 2 | XRQPARMS (0) | GROUP SPECIFIC PARMS |
| ICRX Optional insert (must be full number of words) | | | | |
| (1B) | CHARACTER | 3 | XRQICRXH | X'FFFF00' means ICRX insert |
| (1E) | HALFWORD | 2 | XRQICRXO | TIOA offset to fake TIOA |
| (20) | HALFWORD | 2 | XRQICRXL | Length of ICRX |
| (22) | CHARACTER | 1 | XRQICRXD (0) | Data area for ICRX |
| (22) |111 | | XRQILEN | "*-XRQICRXH" Length of ICRX Header |
| ODR optional message insert (Note- must be full number of words) | | | | |
| (1B) | CHARACTER | 3 | XRQODRMH | X'FFFFEE' means ODR msg insert |
| (1E) | HALFWORD | 2 | XRQODRMO | TIOA offset to fake TIOA |

Table 807. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------|--|
| (20) | HALFWORD | 2 | XRQODRML | Length of ODR msg insert |
| (22) | CHARACTER | 1 | XRQODRMD (0) | Data area for ODR msg insert |
| (22) |111 | | XRQFLEN | "*-XRQODRMH" Length of ODR insert header |
| Adapter optional message insert (Note- must be full no. of words) | | | | |
| (1B) | CHARACTER | 3 | XRQADPTH | X'FFFFDD' means adapter insert |
| (1E) | HALFWORD | 2 | XRQADPTO | TIOA offset to fake TIOA |
| (20) | HALFWORD | 2 | XRQADPTL | Length of adapter msg insert |
| (22) | CHARACTER | 1 | XRQADPTD (0) | Data area for adapter msg insert |
| (22) |111 | | XRQALEN | "*-XRQADPTH" Length of adapter insert header |
| ACD optional message insert (Note- must be full number of words) ACD is used for Initial application context for a task | | | | |
| (1B) | CHARACTER | 3 | XRQACDMH | X'FFFFCC' means ACD msg |
| (1E) | HALFWORD | 2 | XRQACDMO | TIOA offset to fake TIOA |
| (20) | HALFWORD | 2 | XRQACDML | Length of ACD msg insert |
| (22) | CHARACTER | 1 | XRQACDMD (0) | Data area for ACD msg insert |
| (22) |111 | | XRQCLEN | "*-XRQACDMH" Length of ACD insert header |
| CAC optional message insert (Note- must be full number of words) CAC is used for Current application context for a task When a tasks current application context is the same as the tasks initial application context, we still send the message insert, but instead of sending the full context twice, we indicate via a flag that the initial context should be used | | | | |
| (1B) | CHARACTER | 3 | XRQCACMH | X'FFFFBB' means CAC msg |
| (1E) | HALFWORD | 2 | XRQCACMO | TIOA offset to fake TIOA |
| (20) | HALFWORD | 2 | XRQCACML | Length of CAC msg insert |
| (22) | CHARACTER | 1 | XRQCACMD (0) | Data area for CAC msg insert |
| (22) |111 | | XRQDLEN | "*-XRQCACMH" Length of CAC insert header |
| (22) | BITSTRING | 1 | XRQCACFL | CAC flags |
| (22) | 1... | | CURRENT_IS_INITIAL | "X'80'" Use initial ctxt as current |
| FILE CONTROL REQUEST PARAMETERS | | | | |
| (26) | CHARACTER | 8 | XRQFCDSN | DATA SET NAME |
| (2E) | HALFWORD | 2 | XRQFCDLN | DATA LENGTH |
| (30) | HALFWORD | 2 | XRQFCKLN | RIDFLD LENGTH |
| (32) | CHARACTER | 2 | XRQFCRQD | REQUEST ID |

Table 807. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| (34) | HALFWORD | 2 | XRQFCKOF | OFFSET OF KEY IN TIOA |
| (36) | CHARACTER | 1 | XRQFCKDA (0) | KEY FOLLOWED BY DATA |
| (36) | ..1. 1.1. | | XRQFCLN | "*-XRQSTART" LEN OF FIXED PART |
| (36) | ...1 1.11 | | XRQFCLNI | "*-XRQARG0" LEN OF FIXED PART FOR IPIC |
| TRANSIENT DATA REQUEST PARAMETERS | | | | |
| (26) | CHARACTER | 4 | XRQTDQNM | QUEUE NAME |
| (2A) | HALFWORD | 2 | XRQTDDLN | DATA LENGTH |
| (2C) | CHARACTER | 1 | XRQTDDA (0) | DATA AREA FOR WRITES |
| (2C) | ..1. | | XRQTDLEN | "*-XRQSTART" LEN OF FIXED PART |
| (2C) | ...1 ...1 | | XRQTDLNI | "*-XRQARG0" LEN OF FIXED PART FOR IPIC |
| TEMPORARY STORAGE REQUEST PARAMETERS | | | | |
| (26) | CHARACTER | 8 | XRQTSQNM | QUEUE NAME (8 BYTES ONLY) |
| (2E) | HALFWORD | 2 | XRQTSDLN | DATA LENGTH |
| (30) | HALFWORD | 2 | XRQTSITM | ITEM NUMBER |
| (32) | CHARACTER | 1 | XRQTSDA (0) | DATA AREA FOR WRITES |
| (32) | CHARACTER | 1 | XRQTSEND (0) | END OF FIRST PART OF TSRQ AREA |
| AN ADDITIONAL PARAMETER HAS BEEN ADDED AND SINCE THE ABOVE PARAMETER LIST IS FIXED LENGTH AND IS FOLLOWED BY DATA IT HAS HAD TO BE ADDED AFTER THE DATA. IT IS ADDRESSED BY XRQTSDA +XRQTSDLN (DATA ADDRESS + DATA LENGTH FOR WRITEQ TS OTHERWISE AT XRQTSQ16.) | | | | |
| (32) | CHARACTER | 16 | XRQTSQ16 (0) | 16 BYTE TS QUEUE NAME |
| (32) | CHARACTER | 8 | XRQTSQ8A | TS QUEUE NAME PART 1 |
| (3A) | CHARACTER | 8 | XRQTSQ8B | TS QUEUE NAME PART 2 |
| (3A) | ..11 .11. | | XRQTSLEN | "*-XRQSTART" TOTAL LENGTH OF FIXED PART |
| INTERVAL CONTROL REQUEST PARAMETERS | | | | |
| (26) | CHARACTER | 4 | XRQICTR | TRANSID |
| (2A) | CHARACTER | 4 | XRQICTE | TERMID |
| (2E) | CHARACTER | 4 | XRQICRTR | RTRANSID |
| (32) | CHARACTER | 4 | XRQICRTE | RTERMID |
| (36) | CHARACTER | 4 | XRQICIOT | INTERVAL OR TIME |
| (3A) | CHARACTER | 8 | XRQICQUE | QUEUE |
| (42) | CHARACTER | 8 | XRQICRQD | REQID |
| (4A) | HALFWORD | 2 | XRQICFLN | FROM LENGTH |
| (4C) | CHARACTER | 1 | XRQICFDA (0) | FROM DATA |
| (4C) | .1.. | | XRQICLEN | "*-XRQSTART" LEN OF FIXED PART |

Table 807. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|--|
| AN ADDITIONAL PARAMETER HAS BEEN ADDED AND SINCE THE ABOVE PARAMETER LIST IS FIXED LENGTH AND IS FOLLOWED BY DATA IT HAS HAD TO BE ADDED AFTER THE DATA. IT IS ADDRESSED BY ADDR(XRQICFDA)+XRQICFLN + (address of FROM data + length of FROM data) | | | | |
| (0) | CHARACTER | 8 | XRQICUID | USERID |
| (8) | CHARACTER | 8 | XRQICSYN | Applid of System |
| (10) | CHARACTER | 8 | XRQICTRN | Terminal netname |
| CHANNEL data has been added. Since this may overflow into second and further TIOAs, the beginning of the channel data must be the very last thing in the first TIOA. Field XRQICCTO gives the offset to the start of the CHANNEL data from the beginning of XRQICCTO. CHANNEL data is addressed by ADDR(XRQICCTO) + XRQICCTO Any new fields added in subsequent releases must be added AFTER XRQICCTO and before XRQCHAND. DFHXFX assumes that any fields added between XRQICCTO and XRQCHAND will always be present even if they are not used. | | | | |
| (18) | BITSTRING | 2 | XRQICCTO | Offset to CHANNEL data |
| (1A) | CHARACTER | 1 | XRQCHAND (0) | Channel data |
| IPIC TEMPORARY STORAGE REQUEST PARAMETERS | | | | |
| (26) | CHARACTER | 16 | XRQTSQNI | 16 BYTE TS QUEUE NAME |
| (38) | FULLWORD | 4 | XRQTSDLI | DATA LENGTH |
| (3C) | FULLWORD | 4 | XRQTSITI | ITEM NUMBER |
| (40) | CHARACTER | 1 | XRQTSDAI (0) | DATA AREA FOR WRITES |
| (40) | ..1. .1.1 | | XRQTSLNI | "*"-XRQARG0" TOTAL LENGTH OF IPIC FIXED PART |
| THIS PART OF THE DSECT DESCRIBES THE FORMAT OF THE TIOA USED TO SEND REPLIES. IT IS USED BY TRANSFORMERS 3 AND 4 ONLY. | | | | |
| (40) | .... .. |  | XRPDS | "*" |
| (0) | FULLWORD | 4 | (3) | TIOA HEADER |
| (0) | 11.. | | XRPSTART | "*" |
| COMMON REPLY PARAMETERS | | | | |
| (C) | CHARACTER | 6 | XRPEIBRC | EIP'S RETURN CODE |
| (12) | HALFWORD | 2 | XRPDOFF | OFFSET OF DATA IN TIOA |
| (14) | HALFWORD | 2 | XRPPARMS (0) | GROUP SPECIFIC PARMS |
| FILE CONTROL REPLY PARAMETERS | | | | |
| (14) | HALFWORD | 2 | XRPFCDLN | DATA LENGTH |
| (16) | HALFWORD | 2 | XRPFCKLN | RIDFLD LENGTH |
| (18) | HALFWORD | 2 | XRPFCNRC (0) | NUM OF DELETED RECORDS |
| (18) | HALFWORD | 2 | XRPFCUDL | UNTRUNCATED DATA LENGTH |
| (1A) | HALFWORD | 2 | XRPFCMRL | MAX REC LEN FOR V FORMAT |
| (1C) | HALFWORD | 2 | XRPFCKOF | OFFSET OF KEY IN TIOA |

Table 807. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------------|---|
| (1C) | ...1 111. | | XRPFCKOF53 | "*-XRPDS" VALUE OF XRPFCKOF IN CICS 5.3 AND EARLIER |
| (1E) | BITSTRING | 1 | XRPF_C_REPLY_FLAG1 | |
| (1E) | 1... | | XRPF_TERMINATE_ STRING | "X'80" |
| (1F) | BITSTRING | 1 | XRPF_C_REPLY_FLAG2 | |
| (20) | FULLWORD | 4 | XRPF_C_VERSION | |
| (20) |1 | | XRPF_C_VERSION_1 | "1" |
| (24) | BITSTRING | 1 | XRPF_C_RESPONSE | |
| (25) | BITSTRING | 1 | XRPF_C_REASON | |
| (26) | BITSTRING | 1 | XRPF_C_LENGTH_ERR_CODE | |
| (27) | BITSTRING | 1 | XRPF_C_DUPLICATE_KEY | |
| (26) | CHARACTER | 4 | XRPF_C_ACCMETH_RC | |
| (26) | ..1. 1.1. | | XRPFCKOF61 | "*-XRPDS" VALUE OF XRPFCKOF IN CICS 6.1 |
| (2A) | CHARACTER | 1 | XRPFCKDA (0) | KEY FOLLOWED BY DATA |
| (2A) | ...1 111. | | XRPF_CLEN | "*-XRPSTART" LEN OF FIXED PART |
| TRANSIENT DATA REPLY PARAMETERS | | | | |
| (14) | HALFWORD | 2 | XRPTDDLN | DATA LENGTH |
| (16) | HALFWORD | 2 | XRPTDUDL | UNTRUNCATED DATA LENGTH |
| (18) | CHARACTER | 1 | XRPTDDA (0) | DATA AREA FOR READS |
| (18) | 11.. | | XRPTDLEN | "*-XRPSTART" LEN OF FIXED PART |
| TEMPORARY STORAGE REPLY PARAMETERS | | | | |
| (14) | HALFWORD | 2 | XRPTSINIT | NUMITEMS |
| (16) | HALFWORD | 2 | XRPTSITM (0) | ITEM NUMBER WRITTEN |
| (16) | HALFWORD | 2 | XRPTSDLN | RETURNED DATA LENGTH |
| (18) | HALFWORD | 2 | XRPTSUDL | UNTRUNCATED DATA LENGTH |
| (1A) | CHARACTER | 1 | XRPTSDA (0) | READ DATA |
| (1A) | 111. | | XRPTSLEN | "*-XRPSTART" LEN OF FIXED PART |
| INTERVAL CONTROL REPLY PARAMETERS | | | | |
| (14) | CHARACTER | 8 | XRPICRQD | REQID ASSGND BY MIR SYS |
| (14) | ...1 | | XRPICLN | "*-XRPSTART" LEN OF FIXED PART |
| IPIC TEMPORARY STORAGE REPLY PARAMETERS | | | | |
| (14) | FULLWORD | 4 | XRPTSNI | NUMITEMS |
| (18) | FULLWORD | 4 | XRPTSITI (0) | ITEM NUMBER WRITTEN |

Table 807. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--------------------------------|
| (18) | FULLWORD | 4 | XRPTSDLI | RETURNED DATA LENGTH |
| (1C) | FULLWORD | 4 | XRPTSULI | UNTRUNCATED DATA LENGTH |
| (20) | CHARACTER | 1 | XRPTSDAI (0) | READ DATA |
| (20) | ...1 .1.. | | XRPTSLNI | "*-XRPSTART" LEN OF FIXED PART |

XFR - Function shipping request control block

CONTROL BLOCK NAME = DFHXFRDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Function Request Shipping Request
Control Block.

MACROS = DFHXFSTG

FUNCTION =

Defines the data transformation (XF) control block
as used in batch and online environments.

Table 808.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (0) | STRUCTURE | 0 | DFHXFRDS | |
| (0) | FULLWORD | 4 | XFRBEGIN (2) | ALLOW FOR USER STORAGE ACCOUNTING INFORMATION |
| (8) | DBL WORD | 8 | XFRSTART (0) | XF control block - start |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO AN ONLINE ENVIRONMENT NOTE: There is a copy of this storage up to XFRFLAGA in DFHEPC and up to XFRAADPT in DFHEIIC. These programs must also be changed if the offset of XFRFLAGA (or XFRAADPT for DFHEIIC) changes. The field names in these programs are TFRFLAGA and TFRAADPT. | | | | |
| SYSTEM/SESSION RELATED FIELDS | | | | |
| (8) | CHARACTER | 4 | XFRSYSNM | N(SYSID) |
| (C) | ADDRESS | 4 | XFRATCSE | A(TCTSE) |
| (10) | ADDRESS | 4 | XFRATCTE | A(TCTTE) OR 0 |
| (14) | ADDRESS | 4 | XFRATIOA | A(TIOA) OR 0 |
| (18) | CHARACTER | 4 | XFRLUCCD | LU6.2 ERROR (SENSE) CODE |
| (1C) | CHARACTER | 4 | XFRSTRAN | Server transaction code |
| (20) | BITSTRING | 1 | XFRFLAGA | |
| (20) | 1... | | XFRSEVR | "X'80'" Server transaction supplied |
| (20) | .1.. | | XFRNORM | "X'40'" Normal transformer to be used |
| (20) | ..1. | | XFRSYNC | "X'20'" SYNCONRETURN requested |

Table 808. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------|--|
| (20) | ...1 | | XFRNOATN | "X'10'" CONVERSE with NOATNI required |
| (20) | 1... | | XFRLINK | "X'08'" LINK request |
| (20) |1.. | | XFRRTDST | "X'04'" Dynamically routed START request |
| (20) |1. | | XFRRESUN | "X'02'" RESUNAVAIL condition supported |
| (20) |1 | | XFRCHAN | "X'01'" CHANNEL request |
| (22) | HALFWORD | 2 | XFRRTLNL | Length of router commarea or 0 |
| (24) | ADDRESS | 4 | XFRRTRAD | A(DFHDSRP) or 0 |
| (28) | BITSTRING | 4 | XFRCHTOK | Channel Token |
| (2C) | BITSTRING | 1 | XFRFLAGB | |
| (2C) | 1... | | XFRRSTRT | "X'80'" dynamic and routable start |
| (2D) | BITSTRING | 1 | | reserved |
| (2E) | HALFWORD | 2 | XFRADPLN | Length of adapter data |
| (30) | ADDRESS | 4 | XFRAADPT | Address of adapter data |
| (34) | FULLWORD | 4 | XFRFSPEC (0) | Origin for function specific storage |
| DL/I RELATED FIELDS | | | | |
| (34) | ADDRESS | 4 | XFRAUIB | A(UIB) |
| (38) | FULLWORD | 4 | XFRDLILN | Maximum length os SETS I/O area so far |
| FILE CONTROL RELATED FIELDS | | | | |
| (3C) | FULLWORD | 4 | FCBUFLN | Shipped buffer length |
| (40) | HALFWORD | 2 | FCKEYLEN | Shipped record identifier length |
| (42) | BITSTRING | 1 | FCEID (9) | ARG 0 OF EIP PARAMETER LIST (EID) |
| (4B) | BITSTRING | 1 | (17) | RESERVED |
| (5C) | FULLWORD | 4 | (0) | MAKE LENGTH MULTIPLE OF 4 |
| This DSECT describes the entries required for remote program link | | | | |
| (5C) | FULLWORD | 4 | DFHPCENT (0) | PC LINK entries begin here |
| (5C) | CHARACTER | 4 | XFR_PC_ATT_TRAN | Transaction code - for mirror attach FMH |
| (60) | CHARACTER | 4 | XFR_PC_EIB_TRAN | Transaction code - for mirror EIBTRNID |

Table 808. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------|---|
| (64) | FULLWORD | 4 | XFR_PC_CCSID | Character data conversion 0 => no conversion -1 => conversion required use client code page defined via DFHCNV n => conversion required use n as override to code page defined via DFHCNV |
| (68) | FULLWORD | 4 | XFR_PC_NDIAN | Binary data conversion 0 => no conversion X'01020304' => data held in big endian format X'04030201' => data held in little endian format |
| (6C) | CHARACTER | 8 | XFRPNAME | name of program |
| (74) | HALFWORD | 2 | XFRCOMML | length of commarea |
| (76) | HALFWORD | 2 | XFRDATAL | length of data to be sent |
| (78) | CHARACTER | 4 | XFRABCD | Abend code returned from mirror |
| (7C) | BITSTRING | 1 | XFRFLAG4 | Flag byte |
| (7C) | 1... | | XFRHTRAN | "X'80'" hex tranid present |
| (7C) | .1.. | | XFRDATAV | "X'40'" valid DATALENGTH supplied |
| (7C) | 1111 | | ESCARGN | "240" Special id for escape sequence |
| Fields used for passing terminal error information between MIRS/ISP and the transformer | | | | |
| (7D) | BITSTRING | 4 | XFRTCERR | Terminal error |
| (81) | CHARACTER | 4 | XFRTCABE | Terminal control abend code |
| (85) | BITSTRING | 4 | XFRCSNS | Terminal control sense data |
| (90) | DBL WORD | 8 | CONTAINER_LIST (0) | |
| (90) | ADDRESS | 4 | CONTAINER_LIST_P | Address of container list |
| (94) | FULLWORD | 4 | CONTAINER_LIST_N | Length of container list |
| (98) | FULLWORD | 4 | XFRCHOUT | # outbound channel bytes |
| (9C) | FULLWORD | 4 | XFRCHIN | # inbound channel bytes |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT | | | | |
| (8) | ADDRESS | 4 | XFRSTG1 | ADDRESS OF STG CONTAINING THE FLATTENED PLIST. THE TRANSFORMER GETS NEW STG IF XFRSTGE IS 0 OR REUSES THE CURRENT STG IF THIS PROVES LARGE ENOUGH |
| (C) | ADDRESS | 4 | XFRSTG4 | ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I. |

Table 808. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-------------|-----|------------|--|
| (10) | FULLWORD | 4 | XFRSTGL | LENGTH OF THE FLATTENED REPLY IN THE DL/I BUFFERS |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE COMMON TO A BATCH AND ONLINE ENVIRONMENTS | | | | |
| (A0) | ADDRESS | 4 | XFRPLIST | ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSF'R |
| (A4) | ADDRESS | 4 | XFRATABN | A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE |
| (A8) | ADDRESS | 4 | XFRATAB2 | A(2ND TABLE ENTRY) - E.G. PDIR OR 0 |
| (AC) | CHARACTER | 1 | XFRFORMN | THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS |
| (AC) | .... .... |  | XFRTRAN1 | "0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS |
| (AC) |1. | | XFRTRAN2 | "2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS |
| (AC) |1.. | | XFRTRAN3 | "4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES |
| (AC) |11. | | XFRTRAN4 | "6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES |
| (AD) | CHARACTER | 2 | XFRARCHD | USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE |
| (AF) | CHARACTER | 1 | XFRGROUP | THE GROUP IDENTIFIER FOR THE CURRENT REQUEST |
| (AF) |11. | | XFRFCGRP | "X'06'" - THE CICS FC GROUP |
| (AF) |1... | | XFRTDGRP | "X'08'" - THE CICS TD GROUP |
| (AF) |1.1. | | XFRTSGRP | "X'0A'" - THE CICS TS GROUP |
| (AF) | ...1 | | XFRICGRP | "X'10'" - THE CICS IC GROUP |
| (AF) | ...1 ..1.. | | XFRJCGRP | "X'14'" - THE CICS JC GROUP |
| (AF) | ..1.. | | XFRDLGRP | "X'40'" - THE DL/I GROUP |

Table 808. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (B0) | CHARACTER | 1 | XFRFUNCT | THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST |
| (B1) | CHARACTER | 1 | XFRFLAGS | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| (B1) | 1... | | XFREILST | "X'80" THE ARGUMENT LIST COMES FROM OR GOES TO EIP |
| (B1) | .1.. | | XFRDLLST | "X'40" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I |
| (B1) | ..1. | | XFRDLCNT | "X'20" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS |
| (B1) | ...1 | | XFRDLPLI | "X'10" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS |
| (B1) | 1.. | | XFRATHDR | "X'08" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA |
| (B1) |1.. | | XFRLNGRN | "X'04" THE MIRROR TASK NEEDS TO BE LONG RUNNING |
| (B1) |1. | | XFRNRPLY | "X'02" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED |
| (B1) |1 | | XFRPRTCT | "X'01" THE REQUEST IS TO BE SHIPPED PROTECTED |
| (B2) | CHARACTER | 1 | XFRFLAG1 | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| (B2) | 1... | | XFRLCLQ | "X'80" THE REQUEST MAY BE QUEUED BEFORE SHIPPING |
| (B2) | .1.. | | XFRFCTK | "X'40" FC Token can be shipped |
| (B2) | ..1. | | XFRFCRQ | "X'20" Shipped FC request |
| (B2) | ...1 | | XFRTMERR | "X'10" Terminal error in xformer layer |
| (B2) |1. | | XFRESCAP | "X'02" Escape sequence preceding 4-byte legths may be found |
| (B2) |1 | | XFRCHANL | "X'01" This is a CHANNEL request |

Table 808. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (B3) | CHARACTER | 1 | XFRFLAG2 | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| (B3) | 1... | | XFRHAENT | "X'80" DFHMIRVM has handled an abend; the abend code is to be found in the TACB |
| (B3) | .1.. | | XFRLENFD | "X'40" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally |
| (B3) | ..1. | | XFRCHNSP | "X'20" Other end of MRO link supports channels |
| (B3) | ...1 | | XFRICRX | "X'10" Other end of MRO link supports ICRXs |
| (B3) | 1... | | XFRLCHAN | "X'08" Link with prog or tran chan |
| (B3) |1.. | | XFRCACX | "X'04" Other end supports propagation of current app ctxt |
| (B3) |1. | | XFRODRP | "X'02" Other end supports propagation of Origin Data |
| (B3) |1 | | XFRCTX | "X'01" Other end supports propagation of initial app ctxt |
| (B4) | CHARACTER | 1 | XFRFLAG3 | PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED |
| (B5) | CHARACTER | 2 | XFRCODES (0) | FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER |
| (B5) | CHARACTER | 1 | XFRCODE1 | THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS |
| (B5) |1.. | | XFR1TO4 | "4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4 |
| (B5) | 1... | | XFR1TOC | "8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I |

Table 808. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (B5) |1. | | XFR1XLNF | "2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS |
| (B5) | 11.1 1.11 | | XFRLNKUN | "219" RESUNAVAIL condition raised in remote region |
| (B5) | ...1 111. | | XFRLNKAP | "30" Allocate request in ISP has been purged |
| (B5) | ...1 11.. | | XFRLNKAR | "28" Allocate request in ISP has been rejected |
| (B5) | ...1 1.1. | | XFRLNKNI | "26" no sessions immediately available for allocate request |
| (B5) | ...1 1... | | XFRLNKPf | "24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING |
| (B5) | ...1 .11. | | XFRLNKSV | "22" TRANSID invalid, we are already in session with a different mirror transaction. |
| (B5) | ...1 .1.1 | | XFRDWNLV | "21" The remote system does not support a keyword on this request |
| (B5) | ...1 .1.. | | XFRLNKGp | "20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID |
| (B5) | ...1 ..1. | | XFRLNKSP | "18" SYNCONRETURN invalid, we are already in session with a mirror |
| (B5) | ...1 | | XFRLNKLQ | "16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT |
| (B5) | 111. | | XFRLNKAB | "14" xform 4 has processed ABCODE data |
| (B5) | 11.. | | XFRLNKNA | "12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE |
| (B5) | 1.1. | | XFRLNKSF | "10" CONVERSE in DFHISP has failed |
| (B5) | 1..1 | | XFRLNKCp | "9" Special for CPSM only equ of XFRLNKSH. |
| (B5) | 1... | | XFRLNKSH | "8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE |

Table 808. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------|--|
| (B5) |11. | | XFRLNKNS | "6" Type of request (either LINK or START CHANNEL) is not supported over LU6.1 connections |
| (B5) |1.. | | XFRLNKSY | "4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE |
| (B6) | CHARACTER | 1 | XFRCODE2 | THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS |
| (B6) |1.. | | XFR2TO3 | "4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3 |
| (B6) | 1... | | XFRNEGR | "8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT |
| (B7) | CHARACTER | 1 | XFRABCDE | ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM |
| (B8) | ADDRESS | 4 | XFRRESR9 | resumption base for DL/I function shipping |
| (BC) | ADDRESS | 4 | XFRRESRE | resumption address for DL/I function shipping |
| (C0) | ADDRESS | 4 | XFRBEGOP | address of Arg0 options bytes |
| (C4) | FULLWORD | 4 | XFRARGS (0) | ORIGIN FOR ARGUMENTS |
| (C4) | 1.11 11.. | | XFRLNGTH | "*-XFRSTART" |
| STORAGE USED BY TRANSFORMER 2 TO CONSTRUCT A PARAMETER LIST FOR EXEC OR DL/I REQUESTS. THIS STORAGE IS APPENDED TO THE XF CONTROL BLOCK ADDRESSED FROM TCAXFS23 (IT IS ONLY NEEDED IN A MIRROR ENVIRONMENT) | | | | |
| (C4) | FULLWORD | 4 | (96) | see comment above |
| (C4) | | 0 | XFRLNG2 | "*-XFRSTART" |

XLT - Transaction list table

NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS Transaction List Table.
 Licensed Materials - Property of IBM
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Table 809.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHXLTD5 | DUMMY SECTION - TRANSACTION LIST TABLE * |
| (0) | CHARACTER | 4 | XLTXID | TRANSACTION IDENTIFICATION |
| (0) | 1.. | | XLTEL | "(*-XLTXID)" TRANSACTION LIST TABLE ENTRY LENGTH * |

XMCD5 - Transaction Manager Tclass Stats

CONTROL BLOCK NAME = DFHXMCD5
 NAME OF MATCHING PLS CONTROL BLOCK = DFHXMCD5
 DESCRIPTIVE NAME = CICS TS Tclass Statistics
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 CICS level at which this module was last updated

FUNCTION =
 This data area contains tclass statistics provided by the Transaction Manager Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.
 There is a single instance of this data block.

LIFETIME =
 This data block is created by the Transaction Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = none

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer

EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from transaction manager domain
 GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXMCD5 IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 810.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHXMCDs | Transaction Manager Domain Tclass Statistics DSECT |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | XMCLen | Length of data area |
| (0) | 11.. | | XMCIde | "0012" Tclass Statistics id mask |
| (2) | ADDRESS | 2 | XMCIID | Tclass Statistics id |
| (2) |1 | | XMCIvers | "X'01" Stats version number id mask |
| (4) | CHARACTER | 1 | XMCDvers | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 8 | XMCTCL | Tclass name |
| (10) | FULLWORD | 4 | XMCTAT | Total attach requests for trans- actions in this tclass |
| (14) | FULLWORD | 4 | XMCPi | Transactions purged immediately because threshold reached |
| (18) | FULLWORD | 4 | XMCTQ | Transactions that had to queue but are no longer queued |
| (1C) | FULLWORD | 4 | XMCAI | Transactions accepted immediately |
| (20) | FULLWORD | 4 | XMCAAQ | Transactions accepted after queuing |
| (24) | FULLWORD | 4 | XMCPWQ | Transactions purged while queuing |
| (28) | FULLWORD | 4 | XMCMXT | Max. number of transactions allowed |
| (2C) | FULLWORD | 4 | XMCTH | Purge threshold |
| (30) | FULLWORD | 4 | XMCIID | Installed transaction definitions in this tclass |
| (34) | FULLWORD | 4 | XMCPAT | Peak active user transactions |
| (38) | FULLWORD | 4 | XMCPQT | Peak queued user transactions |
| (3C) | FULLWORD | 4 | XMCTAMA | Times at max. active |
| (40) | FULLWORD | 4 | XMCTAPT | Times at purge threshold |
| (44) | FULLWORD | 4 | XMCCAT | Current active user transactions |
| (48) | FULLWORD | 4 | XMCCQT | Current queued user transactions |
| THE FOLLOWING CL8 DEFINITIONS ARE REALLY "STORE CLOCK" FORMAT | | | | |
| (4C) | CHARACTER | 8 | XMCTQTME | Total queuing time of those trans- actions that are no longer queuing |

Table 810. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-------------|-----|----------------------------|---|
| (54) | CHARACTER | 8 | XMCCQTME | Total queuing time of those trans- actions that are still queuing |
| (5C) | BITSTRING | 16 | | Reserved |
| (6C) | CHARACTER | 8 | XMC_TCLASS_DEFINE_ SOURCE | Group installed from |
| (74) | BITSTRING | 8 | XMC_TCLASS_CHANGE_ TIME | Change/create time |
| (7C) | CHARACTER | 8 | XMC_TCLASS_CHANGE_ USERID | Change userid |
| (84) | BITSTRING | 2 | XMC_TCLASS_CHANGE_ AGENT | Change agent |
| (84) |1 | | XMC_CSDAPI_CHANGE | "0001" CSD API |
| (84) |1. | | XMC_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (84) |11 | | XMC_DREPAPI_CHANGE | "0003" DREP API |
| (84) |1.. | | XMC_CREATE_CHANGE | "0004" EXEC CREATE SPI |
| (86) | BITSTRING | 2 | XMC_TCLASS_INSTALL_ AGENT | Install agent |
| (86) |1 | | XMC_CSDAPI_INSTALL | "0001" CSD API |
| (86) |1.. | | XMC_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (86) |1.1 | | XMC_GRPLIST_INSTALL | "0005" GRPLIST |
| (88) | BITSTRING | 8 | XMC_TCLASS_INSTALL_ TIME | Install/Create time |
| (90) | CHARACTER | 8 | XMC_TCLASS_INSTALL_ USERID | Install userid |
| (90) | 1..1 1... | | XMCCEND | "*" |
| (90) | 1..1 1... | | XMCCLEN | "*-XMCCLEN" Length of Tclass Stats |

XMGDS - Transaction Manager Global Stats

CONTROL BLOCK NAME = DFHXMGDS
 NAME OF MATCHING PLS CONTROL BLOCK = DFHXMGPS
 DESCRIPTIVE NAME = CICS TS Transaction Manager Statistics
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 (C) Copyright IBM Corp. 1993, 2013
 CICS level at which this module was last updated
 FUNCTION =
 This data area contains global statistics provided by the Transaction Manager Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the Transaction Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = none

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer

 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from transaction manager domain
 GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXMGDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 811.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (0) | STRUCTURE | 0 | DFHXMGDS | Transaction Manager Domain Global Statistics DSECT |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | XMGLLEN | Length of data area |
| (0) | 1.1. | | XMGIDE | "0010" Transaction Manager domain id mask |
| (2) | ADDRESS | 2 | XMGID | Transaction Manager domain id |
| (2) |1 | | XMGVERS | "X'01" Stats version number id mask |
| (4) | CHARACTER | 1 | XMGDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | FULLWORD | 4 | XMGNUM | Number of transactions (user + system) attached |
| (C) | FULLWORD | 4 | XMGMXT | Current MAXTASK value |
| (10) | FULLWORD | 4 | XMGCAT | Current active user transactions |
| (14) | FULLWORD | 4 | XMGCQT | Current queued user transactions |
| (18) | FULLWORD | 4 | XMGTAMXT | Times at MAXTASK |
| (1C) | FULLWORD | 4 | XMGPAT | Peak active user transactions |
| (20) | FULLWORD | 4 | XMGPQT | Peak queued user transactions |
| (24) | FULLWORD | 4 | XMGTAT | Total active user transactions |
| (28) | FULLWORD | 4 | XMGTDT | Total delayed user transactions note that this does not include those transactions currently queuing |
| THE FOLLOWING CL8 DEFINITIONS ARE REALLY "STORE CLOCK" FORMAT | | | | |
| (2C) | CHARACTER | 8 | XMGTQTME | Total time spent waiting by transactions that had to queue for MXT but not including transactions currently queued. |

Table 811. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (34) | CHARACTER | 8 | XMGCQTME | Total time spent by transactions currently queued for MXT |
| (3C) | FULLWORD | 4 | | Reserved |
| (40) | DBL WORD | 8 | XMGTNUM | Total number of transactions at the time of the last reset |
| (48) | CHARACTER | 8 | XMGGTAT | time last txn attached (GMT) |
| (50) | CHARACTER | 8 | XMGLTAT | time last txn attached(local) |
| (58) | CHARACTER | 8 | XMGGSMXT | time MXT set (GMT) |
| (60) | CHARACTER | 8 | XMGLSMXT | time MXT set (local) |
| (68) | CHARACTER | 8 | XMGGAMXT | time MXT reached (GMT) |
| (70) | CHARACTER | 8 | XMGLAMXT | time MXT reached (local) |
| (78) | BITSTRING | 1 | XMGATMXT | at MXT indicator |
| (78) | 1... | | XMGCAMXT | "X'80'" currently at MXT |
| (79) | CHARACTER | 7 | | Reserved |
| (79) | 1... | | XMGEND | "15" |

XMRDS - Transaction Manager Transaction Stats

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CONTROL BLOCK NAME = DFHXMRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHXMRPS
DESCRIPTIVE NAME = CICS TS Transaction Statistics
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    (C) Copyright IBM Corp. 1993, 2012
    CICS level at which this module was last updated
FUNCTION =
    This data area contains transaction statistics provided by
    the Transaction Manager Domain.
    It is provided for use in users monitoring applications
    to map the statistics returned via the API or the statistics
    exit.
    There is a single instance of this data block.
LIFETIME =
    This data block is created by the Transaction Manager
    Domain to store statistics to be passed to the user in
    response to a request for statistics. The storage is
    released when the user task is detached.
    The DSECT also maps the contents of part of the SMF buffer
    created by the statistics domain and is used in the
    statistics exit.
STORAGE CLASS =
LOCATION =
    The user is passed a pointer to the head of the storage
    block.
INNER CONTROL BLOCKS = none
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Domain call buffer
-----
EXTERNAL REFERENCES = none

```

DATA AREAS = none
CONTROL BLOCKS = from transaction manager domain
GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXRDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Table 812.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 0 | DFHXRDS | Transaction Manager Domain Transaction Statistics DSECT |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | XMRLLEN | Length of data area |
| (0) | 1.11 | | XMRIDE | "0011" Transaction Statistics id mask |
| (2) | ADDRESS | 2 | XMRID | Transaction Statistics id |
| (2) |1 | | XMRVERS | "X'01'" Stats version number id mask |
| (4) | CHARACTER | 1 | XMRDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 4 | XMRTI | Transaction ID |
| (C) | CHARACTER | 8 | XMRPN | Program name |
| (14) | CHARACTER | 8 | XMRTCL | Tclass name |
| (1C) | CHARACTER | 8 | XMRRNAM | Remote transid |
| (24) | CHARACTER | 4 | XMRRSYS | Remote sysid |
| (28) | HALFWORD | 2 | XMRPRTY | Transaction priority |
| (2A) | CHARACTER | 1 | XMRDYN | Dynamic indicator |
| (2A) | 111. 1... | | XMRDYN1 | "C'Y'" ...Dynamic = yes |
| (2A) | 11.1 .1.1 | | XMRDYN2 | "C'N'" ...Dynamic = no |
| (2B) | CHARACTER | 1 | | Filler |
| (2C) | FULLWORD | 4 | XMRAC | Attach count |
| (30) | FULLWORD | 4 | XMRRC | Restart count |
| (34) | FULLWORD | 4 | XMRDLC | Dynamic local count (the number of times the transaction routing exit decided to run this transaction locally) |
| (38) | FULLWORD | 4 | XMRDRC | Dynamic remote count (the number of times the transaction routing exit decided to run this transaction remotely) |
| (3C) | FULLWORD | 4 | XMRRSC | Remote start count |
| (40) | FULLWORD | 4 | XMR SVC | Storage Violation Count |
| (44) | FULLWORD | 4 | XMRITOV | Indoubt timeout value (in minutes) |
| (48) | CHARACTER | 1 | XMRIWTOP | IndoubtWait option |

Table 812. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|--------------------------|---------------------------------------|
| (48) | 111. 1... | | XMRIWTY | "C'Y" ...Indoubtwait = yes |
| (48) | 11.1 .1.1 | | XMRIWTN | "C'N" ...Indoubtwait = no |
| (49) | CHARACTER | 1 | XMRIACTN | Indoubt action (commit or backout) |
| (49) | 11.. ..11 | | XMRIACOM | "C'C" ...Indoubt Action = commit |
| (49) | 11.. ..1. | | XMRIABCK | "C'B" ...Indoubt Action = backout |
| (4A) | CHARACTER | 2 | | Filler |
| (4C) | FULLWORD | 4 | XMRIWAIT | Number of indoubt waits |
| (50) | FULLWORD | 4 | XMRFATXN | Forced action due to trandef |
| (54) | FULLWORD | 4 | XMRFAIT | Forced action due to indoubt timeout |
| (58) | FULLWORD | 4 | XMRFANW | Forced action due to no wait ability |
| (5C) | FULLWORD | 4 | XMRFAOP | Forced action due to operator |
| (60) | FULLWORD | 4 | XMRFAOT | Forced action due to other |
| (64) | FULLWORD | 4 | XMRAMISM | Number of Action mismatches |
| (68) | BITSTRING | 16 | | Reserved |
| (78) | CHARACTER | 8 | XMR_TRAN_DEFINE_ SOURCE | Group installed from |
| (80) | BITSTRING | 8 | XMR_TRAN_CHANGE_TIME | Change/create time |
| (88) | CHARACTER | 8 | XMR_TRAN_CHANGE_ USERID | Change userid |
| (90) | BITSTRING | 2 | XMR_TRAN_CHANGE_AGENT | Change agent |
| (90) |1 | | XMR_CSDAPI_CHANGE | "0001" CSD API |
| (90) |1. | | XMR_CSDBATCH_CHANGE | "0002" DFHCSDUP |
| (90) |11 | | XMR_DREPAPI_CHANGE | "0003" DREP API |
| (90) |1.. | | XMR_CREATE_CHANGE | "0004" EXEC CREATE SPI |
| (90) |111 | | XMR_SYSTEM_CHANGE | "0007" SYSTEM |
| (92) | BITSTRING | 2 | XMR_TRAN_INSTALL_ AGENT | Install agent |
| (92) |1 | | XMR_CSDAPI_INSTALL | "0001" CSD API |
| (92) |1.. | | XMR_CREATE_INSTALL | "0004" EXEC CREATE SPI |
| (92) |1.1 | | XMR_GRPLIST_INSTALL | "0005" GRPLIST |
| (92) |111 | | XMR_SYSTEM_INSTALL | "0007" SYSTEM |
| (92) | 1..1 | | XMR_BUNDLE_INSTALL | "0009" BUNDLE |
| (94) | BITSTRING | 8 | XMR_TRAN_INSTALL_TIME | Install/Create time |
| (9C) | CHARACTER | 8 | XMR_TRAN_INSTALL_ USERID | Install userid |
| (9C) | 1.1. .1.. | | XMREND | "*" |
| (9C) | 1.1. .1.. | | XMRCLN | "*-XMRLN" Length of Transaction Stats |

XMRSC - Transaction Restart Program Commarea

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%PRODUCT Commarea for Transaction Restart

This control block defines the commarea passed to the user-replaceable Transaction Restart program DFHREST.

Although provided as a sample, this control block is not to be used as a general programming interface. Refer to the CICS Customisation Guide to determine its intended usage.

Table 813.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|------------------------------|
| (0) | STRUCTURE | 20 | XMRS_COMMAREA | Transaction restart commarea |
| (0) | CHARACTER | 4 | XMRS_STANDARD_HEADER | Standard commarea header |
| (0) | CHARACTER | 1 | XMRS_FUNCTION | Function (always '1') |
| (1) | CHARACTER | 2 | XMRS_COMPONENT_CODE | Component (always 'XM') |
| (3) | CHARACTER | 1 | * | Reserved |
| (4) | CHARACTER | 1 | XMRS_READ | Terminal read done |
| (5) | CHARACTER | 1 | XMRS_WRITE | Terminal write done |
| (6) | CHARACTER | 1 | XMRS_SYNCPOINT | Syncpoint done |
| (7) | CHARACTER | 1 | XMRS_RESTART | Restart (output) |
| (8) | UNSIGNED | 2 | XMRS_RESTART_COUNT | No. of previous restarts |
| (A) | CHARACTER | 2 | * | Reserved |
| (C) | CHARACTER | 4 | XMRS_ORIGINAL_ABEND_CODE | Original abend code |
| (10) | CHARACTER | 4 | XMRS_CURRENT_ABEND_CODE | Current abend code |

Constants

Table 814.

| Len | Type | Value | Name | Description |
|-----|-----------|-------|--------------------------|-------------|
| 1 | CHARACTER | 1 | XMRS_TRANSACTION_RESTART | |
| 2 | CHARACTER | XM | XMRS_TRANSACTION_MANAGER | |
| 1 | CHARACTER | Y | XMRS_READ_YES | |
| 1 | CHARACTER | N | XMRS_READ_NO | |
| 1 | CHARACTER | Y | XMRS_WRITE_YES | |
| 1 | CHARACTER | N | XMRS_WRITE_NO | |
| 1 | CHARACTER | Y | XMRS_SYNCPOINT_YES | |

Table 814. (continued)

| Len | Type | Value | Name | Description |
|-----|-----------|-------|-------------------|-------------|
| 1 | CHARACTER | N | XMRS_SYNCPOINT_NO | |
| 1 | CHARACTER | Y | XMRS_RESTART_YES | |
| 1 | CHARACTER | N | XMRS_RESTART_NO | |

XQS1D - Shared TS Queue Server CF statistics

CONTROL BLOCK NAME = DFHXQS1D
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XQ) Statistics for list structure.
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FUNCTION = XQ Statistics for list structure usage and access.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
N/A
NOTES :
DEPENDENCIES = S/370
MODULE TYPE = Control block definition

Table 815.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---------------------------------------|
| (0) | STRUCTURE | 0 | DFHXQS1D | , XQ list structure statistics record |
| (0) | FULLWORD | 4 | S1 (0) | Start of record |
| (0) | HALFWORD | 2 | S1LEN | Length of data area |
| (0) | .111 1..1 | | S1IDE | "0121" List structure stats mask |
| (2) | ADDRESS | 2 | S1ID | List structure stats id |
| (2) |1 | | S1VERS | "X'01'" DSECT version number mask |
| (4) | CHARACTER | 1 | S1DVERS | List structure stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| Coupling facility list structure status information. | | | | |
| (8) | CHARACTER | 16 | S1NAME (0) | Full name of list structure |
| (8) | CHARACTER | 8 | S1PREF | First part of structure name |
| (10) | CHARACTER | 8 | S1POOL | Pool name part of structure name |
| (18) | CHARACTER | 16 | S1CNNAME (0) | Name for connection to structure |
| (18) | CHARACTER | 8 | S1CNPREF | Prefix for connection name |
| (20) | CHARACTER | 8 | S1CNSYSN | Own MVS system name from CVTSNAME |
| (28) | ADDRESS | 4 | S1SIZE | Structure size in 4K pages |
| (2C) | ADDRESS | 4 | S1SIZEMX | Maximum size in 4K pages |

Table 815. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|----------|-----|--------------|-------------------------------------|
| (30) | FULLWORD | 4 | S1HDRS | Maximum number of list headers |
| (34) | FULLWORD | 4 | S1HDRSCT | Headers used for control lists |
| (38) | FULLWORD | 4 | S1HDRSQD | Headers available for queue data |
| (3C) | FULLWORD | 4 | S1ELEMLN | Data element size as a fullword |
| (40) | ADDRESS | 4 | S1ELEMPW | Data element size as power of 2 |
| (44) | ADDRESS | 4 | S1ELEMPE | Max elements per entry (for 32K) |
| (48) | FULLWORD | 4 | S1ELEMRT | Element size of entry:element ratio |
| (4C) | FULLWORD | 4 | S1ENTRRT | Entry size of entry:element ratio |
| Usage statistics. Entry and element usage statistics. Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER. | | | | |
| (50) | FULLWORD | 4 | S1ENTRCT | Current number of entries in use |
| (54) | FULLWORD | 4 | S1ENTRHI | Highest number of entries in use |
| (58) | FULLWORD | 4 | S1ENTRLO | Lowest number of free entries |
| (5C) | FULLWORD | 4 | S1ENTRMX | Max entries returned by IXLCONN |
| (60) | FULLWORD | 4 | S1ELEMCT | Current number of elements in use |
| (64) | FULLWORD | 4 | S1ELEMHI | Highest number of elements in use |
| (68) | FULLWORD | 4 | S1ELEMLO | Lowest number of free elements |
| (6C) | FULLWORD | 4 | S1ELEMMX | Max elements returned by IXLCONN |
| List entry counts returned by IXLLIST requests. Note that when lists are moved from free to used and vice versa, IXLLIST only returns the target information, so the counts are often slightly inconsistent. | | | | |
| (70) | DBL WORD | 8 | S1USEVEC (0) | Usage vector, three pairs of words |
| (70) | FULLWORD | 4 | S1USEDCT | Number of entries on used list |
| (74) | FULLWORD | 4 | S1USEDHI | Highest entries on used list |
| (78) | FULLWORD | 4 | S1FREECT | Number of entries on free list |
| (7C) | FULLWORD | 4 | S1FREEHI | Highest entries on free list |

Table 815. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|----------|-----|------------|--|
| (80) | FULLWORD | 4 | S1INDXCT | Number of entries in queue index |
| (84) | FULLWORD | 4 | S1INDXHI | Highest entries in queue index |
| Coupling facility I/O statistics. Statistics for each main type of CF request. | | | | |
| (88) | FULLWORD | 4 | S1RDQCT | Read queue index entry |
| (8C) | FULLWORD | 4 | S1WRQCT | Write queue index entry |
| (90) | FULLWORD | 4 | S1DLQCT | Delete queue index entry |
| (94) | FULLWORD | 4 | S1CRLCT | Create list for a big queue |
| (98) | FULLWORD | 4 | S1DLLCT | Delete list (1 per overall delete) |
| (9C) | FULLWORD | 4 | S1RDLCT | Read list entry |
| (A0) | FULLWORD | 4 | S1WRLCT | Write list entry |
| (A4) | FULLWORD | 4 | S1RWLCT | Rewrite list entry |
| (A8) | FULLWORD | 4 | S1INQCT | Read queue index status only |
| (AC) | FULLWORD | 4 | S1INLCT | Inquire on list entry |
| Statistics for internal CF requests. | | | | |
| (B0) | FULLWORD | 4 | S1WRACT | Write queue index adjunct area only |
| (B4) | FULLWORD | 4 | S1RRQCT | Reread index data for full length |
| (B8) | FULLWORD | 4 | S1RRLCT | Reread list data for full length |
| (BC) | FULLWORD | 4 | S1ASYCT | Number of asynchronous requests |
| IXLLIST completion statistics indexed by internal response value. | | | | |
| (C0) | FULLWORD | 4 | S1RSP1CT | Normal response, everything OK |
| (C4) | FULLWORD | 4 | S1RSP2CT | Buffer length was too short for the data, needs full length reread |
| (C8) | FULLWORD | 4 | S1RSP3CT | No matching entry was found, indicates queue not found in index or end of queue for list |
| (CC) | FULLWORD | 4 | S1RSP4CT | Entry version did not match, indicates queue updated by another system or duplicate queue exists when attempting to create queue |
| (D0) | FULLWORD | 4 | S1RSP5CT | List authority comparison mismatch, indicates big queue was deleted |

Table 815. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (D4) | FULLWORD | 4 | S1RSP6CT | Maximum list key reached, indicates max queue size or max queues reached depending on list |
| (D8) | FULLWORD | 4 | S1RSP7CT | The list structure is out of space |
| (DC) | FULLWORD | 4 | S1RSP8CT | An IXLLIST return code occurred other than those described above |
| (E0) | FULLWORD | 4 | S1RSP9CT | Structure temporarily unavailable, for example during rebuild |
| (E0) | 111. .1.. | | S1END | "1*" |
| (E0) | 111. .1.. | | S1CLEN | "*-S1LEN" Length of this DSECT |

XQS2D - Shared TS Queue Server buffer statistics

CONTROL BLOCK NAME = DFHXQS2D
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS (XQ) Statistics for queue buffer pool.
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1995
 FUNCTION = XQ Statistics for queue index buffer pool usage.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 N/A
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

Table 816.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------------|
| (0) | STRUCTURE | 0 | DFHXQS2D | , XQ buffer pool statistics record |
| (0) | FULLWORD | 4 | S2 (0) | Start of record |
| (0) | ADDRESS | 2 | S2LEN | Length of data area |
| (0) | .111 1.1. | | S2IDE | "0122" XQ buffer pool stats mask |
| (2) | ADDRESS | 2 | S2ID | XQ buffer pool stats id |
| (2) |1 | | S2VERS | "X'01" DSECT version number mask |
| (4) | ADDRESS | 1 | S2DVERS | XQ buffer pool version number |
| (5) | BITSTRING | 3 | | Reserved |

Table 816. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|----------|-----|------------|-------------------------------------|
| <p>These statistics are for the queue index buffer pool, which is used to read and write queue index entries plus the associated data if the total queue size does not exceed 32K bytes. Buffers containing recently accessed queue index entries are added to a least recently used chain, which means that if another request for the same queue arrives shortly afterwards, it may be possible to optimize the processing based on the assumption that the copy in the buffer is probably already correct. If all other buffers are in used, a request for a new buffer will discard the contents of the least recently used buffer and reuse the storage as a free buffer. These statistics are returned by AXM buffer management interface. The queue server does not use some of the AXM buffer management functions (such as KEEP or PURGE) so those counters will be zero. These fields describe the current state of the buffer pool.</p> | | | | |
| (8) | FULLWORD | 4 | S2BFQTY | Total buffers defined |
| (C) | FULLWORD | 4 | S2BFENTH | Number of buffers used so far |
| (10) | FULLWORD | 4 | S2BFACTS | Active buffers owned by tasks |
| (14) | FULLWORD | 4 | S2BFLRUS | Valid buffers on LRU chain |
| (18) | FULLWORD | 4 | S2BFEMPS | Empty buffers on free chain |
| The following counters start again from zero after a reset. | | | | |
| (1C) | FULLWORD | 4 | S2BFPWTS | Waits on buffer pool lock |
| (20) | FULLWORD | 4 | S2BFGETS | GET requests |
| (24) | FULLWORD | 4 | S2BFHITS | GET which found a valid buffer |
| (28) | FULLWORD | 4 | S2BFGFRS | GETs which used a free buffer |
| (2C) | FULLWORD | 4 | S2BFGNWS | GETs which used a new buffer |
| (30) | FULLWORD | 4 | S2BFGLRS | GETs which used the LRU buffer |
| (34) | FULLWORD | 4 | S2BFLWTS | GET waits on buffer lock |
| (38) | FULLWORD | 4 | S2BFGNBS | GETs which returned no buffer |
| (3C) | FULLWORD | 4 | S2BFPUTS | PUTs (put back buffer as valid) |
| (40) | FULLWORD | 4 | S2BFKEPS | KEEPs (put back buffer as modified) |
| (44) | FULLWORD | 4 | S2BFFRES | FREEs (put back buffer as empty) |
| (48) | FULLWORD | 4 | S2BFFNOS | FREE errors, buffer not owned |
| (4C) | FULLWORD | 4 | S2BFPURS | PURGEs (mark buffer invalid) |
| (50) | FULLWORD | 4 | S2BFPNFS | PURGE with no matching buffer found |
| (54) | FULLWORD | 4 | S2BFPNOS | PURGE errors, buffer not owned |

Table 816. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (54) | .1.1 1... | | S2END | "1*1" |
| (54) | .1.1 1... | | S2CLEN | "1*-S2LEN" Length of this DSECT |

XQS3D - Shared TS Queue Server storage statistics

CONTROL BLOCK NAME = DFHXQS3D
 NAME OF MATCHING PLS CONTROL BLOCK = None
 DESCRIPTIVE NAME = CICS TS (XQ) Statistics for server storage.
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1995, 2002
 FUNCTION = XQ Statistics for server main storage usage.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 N/A
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

Table 817.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 0 | DFHXQS3D | , XQ main storage statistics record |
| (0) | FULLWORD | 4 | S3 (0) | Start of record |
| (0) | ADDRESS | 2 | S3LEN | Length of data area |
| (0) | .111 1.11 | | S3IDE | "0123" XQ main storage stats mask |
| (2) | ADDRESS | 2 | S3ID | XQ main storage stats id |
| (2) |1 | | S3VERS | "X'01" DSECT version number mask |
| (4) | ADDRESS | 1 | S3DVERS | XQ main storage stats version |
| (5) | BITSTRING | 3 | | Reserved |
| <p>These are the statistics returned by the AXM page pool management routines for the pools AXMPGANY and AXMPGLOW. Storage in these pools is allocated in multiples of 4K pages on a 4K boundary. The most frequent use is for segments of LIFO stack storage. Storage is initially allocated from the pool using a bit map. For faster allocation, free areas are not normally returned to the pool but are added to a vector of free chains depending on the size of the free area (1 to 32 pages). When storage is being acquired, this vector is checked before going to the pool bit map. If there are no free areas of the right size and there is not enough storage left in the pool, free areas in the vector are put back into the pool, starting from the smallest end, until a large enough area has been created. This action appears as a compress attempt in the statistics. If there is still insufficient storage to satisfy the request, the request is failed. Statistics for LOC=ANY storage pool.</p> | | | | |
| (8) | CHARACTER | 8 | S3ANYNAM | Pool name AXMPGANY |

Table 817. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-------------------------------------|
| (10) | FULLWORD | 4 | S3ANYSIZ | Size of storage pool area |
| (14) | ADDRESS | 4 | S3ANYPTR | Address of storage pool area |
| (18) | FULLWORD | 4 | S3ANYMX | Total pages in the storage pool |
| (1C) | FULLWORD | 4 | S3ANYUS | Number of used pages in the pool |
| (20) | FULLWORD | 4 | S3ANYFR | Number of free pages in the pool |
| (24) | FULLWORD | 4 | S3ANYLO | Lowest free pages (since reset) |
| (28) | FULLWORD | 4 | S3ANYRQG | Storage GET requests |
| (2C) | FULLWORD | 4 | S3ANYRQF | Storage FREE requests |
| (30) | FULLWORD | 4 | S3ANYRQS | GETs which failed to get storage |
| (34) | FULLWORD | 4 | S3ANYRQC | Compress (defragmentation) attempts |
| Statistics for LOC=BELOW storage pool. | | | | |
| (38) | CHARACTER | 8 | S3LOWNAM | Pool name AXMPGLOW |
| (40) | FULLWORD | 4 | S3LOWSIZ | Size of storage pool area |
| (44) | ADDRESS | 4 | S3LOWPTR | Address of storage pool area |
| (48) | FULLWORD | 4 | S3LOWMX | Total pages in the storage pool |
| (4C) | FULLWORD | 4 | S3LOWUS | Number of used pages in the pool |
| (50) | FULLWORD | 4 | S3LOWFR | Number of free pages in the pool |
| (54) | FULLWORD | 4 | S3LOWLO | Lowest free pages (since reset) |
| (58) | FULLWORD | 4 | S3LOWRQG | Storage GET requests |
| (5C) | FULLWORD | 4 | S3LOWRQF | Storage FREE requests |
| (60) | FULLWORD | 4 | S3LOWRQS | GETs which failed to get storage |
| (64) | FULLWORD | 4 | S3LOWRQC | Compress (defragmentation) attempts |
| (64) | .11. 1... | | S3END | "*" |
| (64) | .11. 1... | | S3CLEN | "*-S3LEN" Length of this DSECT |

XRH - Extended recovery facility

CONTROL BLOCK NAME = DFHXRHPS
 DESCRIPTIVE NAME = CICS TS - Extended Recovery Facility
 XRP - Health Data Definition
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 5655-Y04
 (C) Copyright IBM Corp. 1986

FUNCTION =
 DFHXRHPS contains the PL/S structure that describes the XRF health data managed by CICS.
 XRF health data can be set by

1. DFHXRRA
2. DFHXRRC
3. DFHXRCP
4. DFHXRSP

DFHXRRC, the health exit routine, passes XRF health data to the CAVM from whence it is written as part of the CAVM status data.

LIFETIME =
 There is only one instance of the control block - it forms part of XRP static storage which is allocated by DFHSIB1.

STORAGE CLASS =
 The control block forms part of XRP static storage.

LOCATION =
 The control block is addressed from XRSAXRHD in XRP static storage.

INNER CONTROL BLOCKS =
 There are no inner control blocks.

NOTES :
 DEPENDENCIES =
 S/370

RESTRICTIONS =
 There are no restrictions.

MODULE TYPE =
 Control block definition.
 PLS/3

EXTERNAL REFERENCES =
 None.

DATA AREAS =
 None.

CONTROL BLOCKS =
 None.

GLOBAL VARIABLES (Macro pass) =
 None.

Table 818.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------|
| (0) | STRUCTURE | 52 | DFHXRHPS | |
| (0) | CHARACTER | 8 | XRHDPFX | - prefix |
| (8) | CHARACTER | 16 | * | - "general" values |
| (8) | CHARACTER | 8 | XRHDGAPL | - generic applid |
| (10) | CHARACTER | 8 | XRHDSAPL | - specific applid |
| (18) | CHARACTER | 4 | * | - "control" values |
| (18) | CHARACTER | 1 | XRHDTAK | - TAKEOVER |
| (19) | CHARACTER | 1 | XRHDSUR | - SURVEILLANCE |
| (1A) | HALFWORD | 2 | * | - not used |
| (1C) | CHARACTER | 16 | * | - "control" values |
| (1C) | FULLWORD | 4 | XRHDADI | - ADI |
| (20) | FULLWORD | 4 | XRHDJDI | - JESDI |
| (24) | FULLWORD | 4 | XRHDPDI | - PDI |
| (28) | FULLWORD | 4 | XRHDHBI | - heartbeat interval |

Table 818. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (2C) | CHARACTER | 8 | * | - "clock" data |
| (2C) | FULLWORD | 4 | XRHDCLK1 | - "clock" for DFHXRSP - CICS TCB "time stamp" |
| (30) | FULLWORD | 4 | XRHDCLK2 | - "clock" for DFHXRC - CAVM TCB "time stamp" |
| (34) | CHARACTER | 0 | XRHDEND | |

Error data definition

Table 819.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------------|-----------------------------|
| (0) | STRUCTURE | 72 | XRHE | |
| (0) | FULLWORD | 4 | XRHDNRER | - total number |
| (4) | FULLWORD | 4 | XRHDIRER | - latest error - index to * |
| (8) | CHARACTER | 8 | XRHDRERR (4294967304:341918104) | - errors |
| (8) | CHARACTER | 4 | XRHDDOMI | - domain id |
| (C) | CHARACTER | 4 | XRHDERRI | - error id |

Extension descriptor

Table 820.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 8 | XRHX | |
| (0) | CHARACTER | 4 | * | - not used - 0 |
| (4) | HALFWORD | 2 | XRHXGN | - no. global elements |
| (6) | CHARACTER | 2 | * | - not used - 0 |
| (8) | CHARACTER | 0 | XRHXEND | |

Health work element

Table 821.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 84 | XRHW | |
| (0) | ADDRESS | 4 | XRHWNEXT | Chain (when free) |
| (0) | BIT(16) | 2 | XRHWFLG | Flags (when in use) |
| (0) | 1... | | XRHWSET | Data already passed to CAVM surveillance. |
| (2) | BIT(16) | 2 | * | Not used |
| (4) | CHARACTER | 72 | XRHWE | Error data |
| (4C) | CHARACTER | 8 | XRHWX | Extension data |
| (54) | CHARACTER | 0 | XRHWEND | Start of global data |

Global element definition

Table 822.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | * | XRHG | |
| (0) | CHARACTER | 8 | XRHGP | Prefix |
| (0) | HALFWORD | 2 | XRHGLTH | Total length of entry |
| (2) | BIT(16) | 2 | XRHGFLG | Flags |
| (2) | 1... | | XRHGFALT | - created when alt. |
| (4) | CHARACTER | 4 | XRHGDOMI | Domain id |
| (8) | CHARACTER | * | XRHGDATA | Data |

Table 823.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------|
| (0) | STRUCTURE | * | XRHGD | Data part |
| (0) | CHARACTER | 4 | XRHGDP | Prefix |
| (0) | HALFWORD | 2 | XRHGDDLN | Data length |
| (2) | HALFWORD | 2 | * | Reserved - 0 |
| (4) | CHARACTER | * | XRHGDTXT | Data text |

XRS - XRF static storage definition

CONTROL BLOCK NAME = DFHXRSPTS
 DESCRIPTIVE NAME = CICS TS (XRF) Static Storage Definition
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 5655-Y04
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FUNCTION =
 DFHXRSPTS defines the XRF static storage area managed by CICS and referred to as XRP static storage.
 XRP static storage contains

1. the communications area for DFHXRFB and DFHXRSPT
2. ECBs used to control the progress of alternate CICS before, during and after takeover
3. system status data for active CICS
4. system status data for alternate CICS
5. system health data

System status data for active CICS is maintained by alternate CICS and contains

1. status data - e.g. signed on / off
2. action flags - e.g. heartbeat overdue
2. action modifier flags - e.g. message sent

System status data for alternate CICS is maintained by active CICS and is very similar in content to system status data for active CICS.
 The structure XRS# provides the common definition for system status data.
 The structure DFHXRHPS, contained in DFHXRHPS, provides the definition for system health data.

LIFETIME =
 There is only one instance of the control block. It is allocated by DFHXRA in response to a DFHXRCTYPE=INITIALIZE call in DFHSIC1.

STORAGE CLASS =
 The control block is allocated by DFHSIC1.

LOCATION =
 The control block is addressed from SSAXRP in the

static storage address list.
 INNER CONTROL BLOCKS =
 XRP static storage contains inner control blocks.
 These are
 1. system status data for active CICS
 2. system status data for alternate CICS
 3. system health data

NOTES :
 DEPENDENCIES =
 S/370
 RESTRICTIONS =
 There are no restrictions.
 MODULE TYPE =
 Control block definition.

 EXTERNAL REFERENCES =
 None.
 DATA AREAS =
 None.
 CONTROL BLOCKS =
 None.
 GLOBAL VARIABLES (Macro pass) =
 None.
 DFHXRP - Static Storage Definition

Table 824.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|----------------|-----|------------|----------------------------|
| (0) | STRUCTURE | 176 | DFHXRSPS | |
| ... general values ... | | | | |
| (0) | CHARACTER | 12 | XRSGV | General Values |
| (0) | ADDRESS | 4 | XRSSXRSA | Status area anchor |
| (4) | CHARACTER | 4 | * | Reserved |
| (8) | CHARACTER | 1 | XRSXRF | - function |
| (9) | CHARACTER | 1 | XRSXRSNS | - signon |
| (A) | CHARACTER | 2 | * | Reserved |
| ... pointers ... | | | | |
| (C) | CHARACTER | 16 | XRSAX | Pointers |
| (C) | ADDRESS | 4 | XRSAXRS0 | - A(status data - act) |
| (10) | ADDRESS | 4 | XRSAXRS1 | - A(status data - alt 1) |
| (14) | ADDRESS | 4 | XRSAXRS2 | - A(status data - alt 2) |
| (18) | ADDRESS | 4 | XRSAXRHD | - A(health data) |
| ... DFHXRB / DFHXRSP communication area ... | | | | |
| (1C) | CHARACTER | 4 | XRSW | DFHXRB / DFHXRSP comm area |
| (1C) | ADDRESS | 4 | XRSWECHN | - work element queue |
| ... Event Control Blocks ... | | | | |
| (20) | CHARACTER | 16 | XRSTI | Takeover Initiated |
| (20) | CHARACTER | 4 | XRSTIPFX | - eye catcher |
| (24) | CHARACTER | 4 | XRSTIECB | - TI ECB (CICS posted) |
| (24) | 1... | | * | Reserved |
| (24) | .1.. | | XRSTIWT | - wait/post bit |
| (24) | BIT(22) POS(3) | 3 | * | Reserved |

Table 824. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------|------------------------------|
| (27) | BIT(8) | 1 | XRSTIRC | - return code |
| (28) | CHARACTER | 8 | XRSTITOD | - time TI ECB posted |
| (30) | CHARACTER | 16 | XRSIA | Incipient Active |
| (30) | CHARACTER | 4 | XRSIAPFX | - eye catcher |
| (34) | CHARACTER | 4 | XRSIAECB | - IA ECB (CICS posted) |
| (34) | 1... | | * | Reserved |
| (34) | .1.. | | XRSIAWT | - wait/post bit |
| (34) | BIT(22) POS(3) | 3 | * | Reserved |
| (37) | BIT(8) | 1 | XRSIARC | - return code |
| (38) | CHARACTER | 8 | XRSIATOD | - time IA ECB posted |
| (40) | CHARACTER | 16 | XRSTC | Takeover Completed |
| (40) | CHARACTER | 4 | XRSTCPFX | - eye catcher |
| (44) | CHARACTER | 4 | XRSTCECB | - TC ECB (CICS posted) |
| (44) | 1... | | * | Reserved |
| (44) | .1.. | | XRSTCWT | - wait/post bit |
| (44) | BIT(22) POS(3) | 3 | * | Reserved |
| (47) | BIT(8) | 1 | XRSTCRC | - return code |
| (48) | CHARACTER | 8 | XRSTCTOD | - time TC ECB posted |
| (50) | CHARACTER | 16 | XRSRA | RSD Available |
| (50) | CHARACTER | 4 | XRSRAPFX | - eye catcher |
| (54) | CHARACTER | 4 | XRSRAECB | - RA ECB (CICS posted) |
| (54) | 1... | | * | Reserved |
| (54) | .1.. | | XRSRAWT | - wait/post bit |
| (54) | BIT(22) POS(3) | 3 | * | Reserved |
| (57) | BIT(8) | 1 | XRSRARC | - return code |
| (58) | CHARACTER | 8 | XRSRATOD | - time RA ECB posted |
| (60) | CHARACTER | 16 | XRSSS | Synchronized wrt Signoff |
| (60) | CHARACTER | 4 | XRSSSPFX | - eye catcher |
| (64) | CHARACTER | 4 | XRSSSECB | - SS ECB (CICS posted) |
| (64) | 1... | | * | Reserved |
| (64) | .1.. | | XRSSSWT | - wait/post bit |
| (64) | BIT(22) POS(3) | 3 | * | Reserved |
| (67) | BIT(8) | 1 | XRSSSRC | - return code |
| (68) | CHARACTER | 8 | XRSSSTOD | - time SS ECB posted |
| (70) | CHARACTER | 16 | XRSST | Synchronized wrt Termination |
| (70) | CHARACTER | 4 | XRSSTPFX | - eye catcher |
| (74) | CHARACTER | 4 | XRSSTECB | - ST ECB (CICS posted) |
| (74) | 1... | | * | Reserved |
| (74) | .1.. | | XRSSTWT | - wait/post bit |

Table 824. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------|----------------|-----|------------|------------------------|
| (74) | BIT(22) POS(3) | 3 | * | Reserved |
| (77) | BIT(8) | 1 | XRSSTRC | - return code |
| (78) | CHARACTER | 8 | XRSSTOD | - time ST ECB posted |
| (80) | CHARACTER | 16 | XRSQS | Quiesce Surveillance |
| (80) | CHARACTER | 4 | XRSQSPFX | - eye catcher |
| (84) | CHARACTER | 4 | XRSQSECB | - QS ECB (CICS posted) |
| (84) | 1... | | * | Reserved |
| (84) | .1.. | | XRSQSWT | - wait/post bit |
| (84) | BIT(22) POS(3) | 3 | * | Reserved |
| (87) | BIT(8) | 1 | XRSQSRC | - return code |
| (88) | CHARACTER | 8 | XRSQSTOD | - time QS ECB posted |
| (90) | CHARACTER | 16 | XRSSD | Shut Down |
| (90) | CHARACTER | 4 | XRSSDPFX | - eye catcher |
| (94) | CHARACTER | 4 | XRSSDECB | - SD ECB (CICS posted) |
| (94) | 1... | | * | Reserved |
| (94) | .1.. | | XRSSDWT | - wait/post bit |
| (94) | BIT(22) POS(3) | 3 | * | Reserved |
| (97) | BIT(8) | 1 | XRSSDRC | - return code |
| (98) | CHARACTER | 8 | XRSSDOD | - time SD ECB posted |
| ... system health data ... | | | | |
| (A0) | CHARACTER | 16 | XRSH | |
| (A0) | CHARACTER | 8 | XRSHGAPL | Generic applid |
| (A8) | CHARACTER | 8 | XRSHSAPL | Specific applid |
| (B0) | CHARACTER | 0 | DFHXRSND | |

Anchor area addressed by XRSSXRSA in static area

Note: XRSA MUST end on a word boundary such that the XRS# status areas that follow are also word aligned.

Table 825.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|---------------------------|
| (0) | STRUCTURE | 84 | XRSA | |
| (0) | CHARACTER | 8 | XRSAPFX | - eye catcher |
| (8) | FULLWORD | 4 | XRSALN | Total area length |
| (C) | ADDRESS | 4 | * (4294967300:341942496) | QQQQ space for XRSAXRS0.. |
| (1C) | FULLWORD | 4 | XRSAGMAX | Global data area size |
| (20) | CHARACTER | 8 | XRSAF | Free health elements |
| (20) | ADDRESS | 4 | XRSAFREE | First free hwe |
| (24) | FULLWORD | 4 | XRSAFIDN | Guard for CDS |
| (28) | ADDRESS | 4 | XRSASHRD | Transferred hwe |
| (2C) | ADDRESS | 4 | XRSACAVM | CAVM's hwe |

Table 825. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (30) | ADDRESS | 4 | XRSAPTA | Program name table adr |
| (34) | CHARACTER | 4 | XRSAMVID | MVS SMF id. |
| (38) | CHARACTER | 4 | XRSAJSID | JES subsystem id. |
| (3C) | CHARACTER | 8 | XRSASPLX | XCF Sysplex name |
| (44) | CHARACTER | 8 | XRSASNAM | MVS System name |
| (4C) | CHARACTER | 4 | XRSASTOK | MVS System instance |
| (50) | CHARACTER | 4 | * | Status bytes |
| (50) | BIT(8) | 1 | XRSASIND | MVS System status |
| (50) | 1... | | XRSAXCFA | |
| (50) | .111 1111 | | * | Reserved |
| (51) | CHARACTER | 3 | * | Reserved |
| (54) | CHARACTER | 0 | * | force word allignment |

DFHGRP - System Status Definition

Table 826.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------|-------------------------|
| (0) | STRUCTURE | 76 | XRS# | Data for ... |
| (0) | CHARACTER | 8 | XRS#PFX | - eye catcher |
| (8) | FULLWORD | 4 | XRS#DI | - delay interval |
| (C) | CHARACTER | 12 | * | - status (wrt CAVM TCB) |
| (C) | FULLWORD | 4 | XRS#INS1 | - instance number |
| (10) | FULLWORD | 4 | XRS#VER1 | - version number |
| (14) | CHARACTER | 4 | * | - flags |
| (14) | 1... | | XRS#SON1 | - signed on |
| (14) | .1.. | | XRS#HBO1 | - heartbeat overdue |
| (14) | BIT(30) POS(3) | 4 | * | Reserved |
| (18) | CHARACTER | 20 | * | - status (wrt CICS TCB) |
| (18) | FULLWORD | 4 | XRS#INS2 | - instance number |
| (1C) | FULLWORD | 4 | XRS#VER2 | - version number |
| (20) | CHARACTER | 8 | XRS#APL2 | - specific applid |
| (28) | CHARACTER | 4 | * | - flags |
| (28) | 1... | | XRS#SON2 | - signed on |
| (28) | BIT(31) POS(2) | 4 | * | Reserved |
| (2C) | FULLWORD | 4 | XRS#NSON | - sign on count |
| (30) | CHARACTER | 8 | * | - Write to Operator |
| (30) | CHARACTER | 4 | XRS#ECB | - WTOR ECB (OS posted) |
| (30) | 1... | | XRS#WAIT | - wait bit |
| (30) | .1.. | | XRS#POST | - post bit |
| (30) | BIT(30) POS(3) | 4 | * | Reserved |
| (34) | FULLWORD | 4 | XRS#MID | - identification number |

Table 826. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------|---|
| (38) | CHARACTER | 3 | XRS#AFL | - action flags |
| (38) | 1... | | XRS#HBRS | - heartbeat resumed |
| (38) | .1.. | | XRS#HBOD | - heartbeat overdue |
| (38) | ..1. | | XRS#RQTP | - request takeover - process WTOR request |
| (38) | ...1 | | XRS#RQTG | - request takeover - precess WTOR reply |
| (38) | 1... | | XRS#INTK | - initiate takeover |
| (38) |1.. | | XRS#PSN | - sign on |
| (38) |1. | | XRS#PSFN | - sign off normal |
| (38) |1 | | XRS#PSFA | - sign off abnormal |
| (39) | 1... | | XRS#ATCX | - attach CXCUC |
| (39) | BIT(15) POS(2) | 2 | * | Reserved |
| (3B) | CHARACTER | 1 | XRS#MFL | - action modifier flags |
| (3B) | 1... | | XRS#SONP | - sign on - pending |
| (3B) | .1.. | | XRS#SOFI | - sign off - implicit |
| (3B) | ..1. | | XRS#ATER | - attach CXCUC failed |
| (3B) | ...1 | | XRS#6X16 | - heartbeat overdue |
| (3B) | ...1 | | XRS#6416 | - message DFH6416 |
| (3B) | ...1 | | XRS#6516 | - message DFH6516 |
| (3B) | 1... | | XRS#6X18 | - request takeover |
| (3B) | 1... | | XRS#6418 | - message DFH6418 |
| (3B) | 1... | | XRS#6518 | - message DFH6518 |
| (3B) |1.. | | XRS#DUMP | - request dump |
| (3B) |11 | | * | Reserved |
| (3C) | CHARACTER | 16 | * | - TOD clock difference |
| (3C) | CHARACTER | 8 | * | - wrt CAVM TCB |
| (3C) | FULLWORD | 4 | XRS#LBD1 | - lower bound |
| (40) | FULLWORD | 4 | XRS#UBD1 | - upper bound |
| (44) | CHARACTER | 8 | * | - wrt CICS TCB |
| (44) | FULLWORD | 4 | XRS#LBD2 | - lower bound |
| (48) | FULLWORD | 4 | XRS#UBD2 | - upper bound |

Constants

Table 827.

| Len | Type | Value | Name | Description |
|-----|-----------|-------|----------|--------------------------|
| 1 | CHARACTER | N | XRSXRNO | - not signed on |
| 1 | CHARACTER | A | XRSXRACT | - signed on as active |
| 1 | CHARACTER | B | XRSXRALT | - signed on as alternate |
| 1 | CHARACTER | A | XRSTAKEA | - TAKEOVER=AUTOMATIC |

Table 827. (continued)

| Len | Type | Value | Name | Description |
|-----|-----------|-------|----------|--------------------|
| 1 | CHARACTER | M | XRSTAKEM | - TAKEOVER=MANUAL |
| 1 | CHARACTER | C | XRSTAKEC | - TAKEOVER=COMMAND |
| 1 | CHARACTER | Y | XRSSURON | - SURVEILLANCE=ON |
| 1 | CHARACTER | N | XRSSUOFF | - SURVEILLANCE=OFF |
| 0 | BIT | 1 | XRS#ON | - action required |
| 0 | BIT | 0 | XRS#OFF | - action completed |

XRW - XRF work element definition

CONTROL BLOCK NAME = DFHXRWPS
 DESCRIPTIVE NAME = CICS TS (XRF) Work Element Definition
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1986, 1990

FUNCTION =
 DFHXRWPS defines the XRF work elements managed by CICS.
 XRF work elements are used to pass information from
 DFHXRFB, the notify exit program which runs under the
 CAVM TCB, to DFHXRSP, the surveillance program which
 runs under the CICS TCB.
 The information passed from DFHXRFB to DFHXRSP, and
 the action taken by DFHXRSP, depends on the event
 notified to DFHXRFB by the CAVM.

LIFETIME =
 XRF work elements are created by DFHXRFB and are
 destroyed by DFHXRSP.

STORAGE CLASS =
 XRF work elements are allocated from OS storage.

LOCATION =
 Two work element chains exist.
 1. The first chain, addressed from XRSWECHN in
 XRP static storage, contains those elements
 created by DFHXRFB ... but ... not yet seen
 by DFHXRSP - elements appear reverse order
 of creation.
 2. The second chain, addressed from DFHXRSP
 LIFO storage, contains those elements seen
 ... but ... not yet processed by DFHXRSP;
 elements appear in order of creation.

INNER CONTROL BLOCKS =
 There are no inner control blocks.

NOTES :
 DEPENDENCIES =
 S/370
 RESTRICTIONS =
 There are no restrictions.
 MODULE TYPE =
 Control block definition.

 EXTERNAL REFERENCES =
 None.
 DATA AREAS =
 None.
 CONTROL BLOCKS =
 None.
 GLOBAL VARIABLES (Macro pass) =
 None.

Table 828.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 28 | DFHXRWPS | XRP work element |
| (0) | FULLWORD | 4 | XRWETRRQ | - request - for trace |
| (0) | UNSIGNED | 1 | XRWERQ | - request |
| (1) | BIT(8) | 1 | XRWERQM | - request modifier |
| (1) | 1... | | XRWERQIM | - implicit request |
| (1) | .1.. | | XRWERQDU | - DUMP=YES specified |
| (1) | ..1. | | XRWERQMD | - MVS system gone |
| (1) | ...1 1111 | | * | Reserved |
| (2) | BIT(16) | 2 | * | Reserved |
| (4) | ADDRESS | 4 | XRWECHN | - A(next work element) |
| (8) | ADDRESS | 4 | XRWEASD | - A(system status data) |
| (C) | FULLWORD | 4 | XRWEINS | - instance number |
| (10) | FULLWORD | 4 | XRWEVER | - version number |
| (14) | CHARACTER | 8 | XRWEAPL | - specific applid |
| (14) | FULLWORD | 4 | XRWELBD | - TOD clock - lower bound |
| (14) | FULLWORD | 4 | XRWEHBL | - #(secs heartbeat late) |
| (14) | FULLWORD | 4 | XRWEABC | - abend code (ex CAVM) |
| (18) | FULLWORD | 4 | XRWEUBD | - TOD clock - upper bound |

Constants

Table 829.

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|-----------------------------|
| 1 | DECIMAL | 1 | XRWESON | - signon |
| 1 | DECIMAL | 2 | XRWESOFN | - signoff normal |
| 1 | DECIMAL | 3 | XRWESOFA | - signoff abnormal |
| 1 | DECIMAL | 7 | XRWECKDC | - TOD clock difference |
| 1 | DECIMAL | 8 | XRWEIHRC | - health response |
| 1 | DECIMAL | 9 | XRWEHBOD | - heartbeat overdue |
| 1 | DECIMAL | 10 | XRWEHBRS | - heartbeat resumed |
| 1 | DECIMAL | 15 | XRWERQTK | - request takeover |
| 1 | DECIMAL | 16 | XRWEICPA | - incipient active |
| 1 | DECIMAL | 17 | XRWEACTV | - active |
| 1 | DECIMAL | 18 | XRWECKAS | - TOD clock wrt signoff |
| 1 | DECIMAL | 19 | XRWECKAT | - TOD clock wrt termination |
| 1 | DECIMAL | 24 | XRWEFAIL | - CAVM failure |
| 1 | DECIMAL | 25 | XRWEINVL | - invalidated |

ATD - Attach table

CONTROL BLOCK NAME = DFHXTSPS
 DESCRIPTIVE NAME = CICS TS (TERMSHR) TRANSFORMER
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1986, 2010
 FUNCTION =
 DSECT for PLAS callers of DFHXTSP
 LIFETIME =
 Same as lifetime of caller's stack storage
 STORAGE CLASS =
 STACK
 LOCATION =
 In stack-storage of XTP's caller
 INNER CONTROL BLOCKS =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =

Table 830.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 156 | DFHXTSPS | |
| (0) | CHARACTER | 0 | XTSTART | |
| (0) | CHARACTER | 0 | XTSBEGIN | |
| (0) | ADDRESS | 4 | XTSATTEL | ADDR OF TCTTE TO BE USED FOR THIS CONVERSATION |
| (4) | ADDRESS | 4 | XTSATIOA | ADDR OF TIOA FOR REQUEST TO BE SHIPPED ACROSS LINK |
| (8) | ADDRESS | 4 | XTSATTES | ADDR OF SURROGATE TCTTE |
| (8) | ADDRESS | 4 | XTSATTEU | ADDR OF USERS TCTTE |
| (C) | ADDRESS | 4 | XTSMCRA | ADDRESS OF MCR |
| (10) | ADDRESS | 4 | XTSLUCPL | Address of LUC parameter list |
| (14) | CHARACTER | 6 | * | |
| (14) | ADDRESS | 4 | XTSINBPS | -> ZC BPS FOR INSTALL |
| (14) | CHARACTER | 6 | XTSPAGDS | PAGE DATA |
| (14) | ADDRESS | 4 | XTSPAGDA | ADDRESS OF PAGE DATA |
| (18) | CHARACTER | 2 | XTSPLDCM | LDC mnemonic for BMS page |
| (1A) | CHARACTER | 2 | * | |
| (1C) | CHARACTER | 2 | XTSLDCM | LDC mnemonic for non BMS |

Table 830. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (1E) | CHARACTER | 1 | XTSFORMN | TRANSFORMATION REQUIRED |
| (1F) | BIT(8) | 1 | XTSRQFRM | REQUEST FORMAT |
| (20) | CHARACTER | 31 | XTSRTEDS | ROUTE DATA |
| (20) | ADDRESS | 4 | XTSTTLA | ADDRESS OF TITLE |
| (24) | ADDRESS | 4 | XTSRTELA | ADDRESS OF ROUTE LIST |
| (28) | CHARACTER | 2 | XTSREQID | BMS REQUEST ID |
| (2A) | CHARACTER | 12 | XTSFQERT | FULLY QUALIFIED TERMINAL ID OF BMS ERROR TERMINAL (IE NETNAME.TERMID) |
| (36) | CHARACTER | 2 | XTSETLDC | BMS ERRTERM LDC |
| (38) | CHARACTER | 2 | XTSMCFL | MESSAGE CONTOL FLAGS |
| (38) | BIT(8) | 1 | XTSMCFL1 | MESSAGE CONTROL FLAGS 1 |
| (38) | 1... | | XTSRELSE | CTRL=RELEASE, OVERLAYS TITLE |
| (38) | .1.. | | XTSWBCUR | WRBRK=CURRENT, EQU MCRWBCUR. |
| (38) | ..1. | | XTSWBALL | WRBRK=ALL, EQU MCRWBALL. |
| (38) | ...1 | | XTSEODOP | EODPURG=OPER, EQU MCREODOP. |
| (38) | 1... | | XTSPAGE | CTRL=PAGING, EQU MCRPAGE. |
| (38) |1.. | | XTSAUTOP | CTRL=AUTOPAGE, EQU MCRAUTOP. |
| (38) |1. | | * | |
| (38) |1 | | XTSRTAIN | CTRL=RETAIN, EQU MCRRTAIN. |
| (39) | BIT(8) | 1 | XTSMCFL2 | MESSAGE CONTROL FLAGS 2 |
| (39) | 1... | | * | |
| (39) | .1.. | | * | |
| (39) | ..1. | | * | |
| (39) | ...1 | | * | |
| (39) | 1... | | XTSSCSZ | ALTERNATE SCREEN SIZE USED, EQU MCRSCSZ. |
| (39) |1.. | | * | |
| (39) |1. | | XTSBMSSM | BMS SYSTEM MESSAGE, EQU MCRBMSSM. |
| (39) |1 | | * | |
| (3A) | BIT(8) | 1 | XTSMCTRL | FLAGS FOR TCAMSTR6 |
| (3B) | BIT(8) | 1 | XTSMISC | Miscellaneous indicators |

Table 830. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| (3B) | 1... | | XTSTMERR | Terminal IO error |
| (3B) | .111 1111 | | * | Reserved |
| (3C) | CHARACTER | 3 | XTSOCL | OPERATOR CLASS |
| (3F) | CHARACTER | 4 | XTSSYSID | |
| (43) | CHARACTER | 6 | XTSTPOS1 | COPY OF TCATPOS1 etc. |
| (49) | CHARACTER | 2 | XTSTPCON | COPY OF TCATPCON & TCATPOC3 * |
| (49) | CHARACTER | 1 | * | |
| (4A) | CHARACTER | 1 | XTSTPOC3 | COPY OF TCATPOC3 |
| (4B) | CHARACTER | 1 | XTSRPOS2 | REQUEST SHIPPED |
| (4C) | BIT(8) | 1 | XTSTCOPC | TC OPERATION CODE |
| (4C) | 1... | | * | |
| (4C) | .1.. | | * | |
| (4C) | ..1. | | * | |
| (4C) | ...1 | | XTSTCRD | TC READ |
| (4C) | 1... | | * | |
| (4C) |1.. | | * | |
| (4C) |1. | | XTSTCCNV | TC CONVERSE |
| (4C) |1 | | XTSTCWRT | TC WRITE |
| (4D) | BIT(8) | 1 | XTSSTAT | TRANSFORM STATUS |
| (4D) | 1... | | XTSSTATR | REQUEST TRANSFORM |
| (4D) | .1.. | | XTSSTATATA | ATTACH TRANSFORM |
| (4D) | ..1. | | XTSSTATD | DETACH TRANSFORM |
| (4D) | ...1 | | XTSSTATF | FLUSH TRANSFORM |
| (4D) | 1... | | * | |
| (4D) |1.. | | XTSSTATO | Origin Data supported |
| (4D) |1. | | XTSSTATT | Time-out supported |
| (4D) |1 | | XTSSTATC | Terminal-owner is cold |
| (4E) | CHARACTER | 4 | XTSTRNID | REMOTE TRANSACTION ID |
| (52) | BIT(8) | 1 | XTSZIRSP | ZC RESPONSE |
| (53) | CHARACTER | 8 | XTSTPPNM | Prog. name for ISSUE LOAD |
| (5B) | CHARACTER | 1 | * | |
| (5C) | CHARACTER | 10 | * | |
| (5C) | CHARACTER | 8 | XTSLUNAM | LU name of target system |
| (64) | UNSIGNED | 2 | XTSDATAL | Length of logon data |
| (66) | CHARACTER | 1 | XTSLOGEX | LOGMODE EXISTENCE |
| (67) | CHARACTER | 8 | XTSLOGMD | LOGMODE FOR NEW SESS |
| (6F) | CHARACTER | 1 | * | |

Table 830. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (70) | FULLWORD | 4 | XTSDATAA | Address of logon data |
| (74) | CHARACTER | 8 | XTSTNNAM | Terminal netname |
| (7C) | UNSIGNED | 1 | XTSPAPR | TC response |
| (7D) | CHARACTER | 4 | XTSABEND | TC abend |
| (81) | UNSIGNED | 4 | XTSSENSE | TC sense |
| (85) | CHARACTER | 3 | * | |
| (88) | UNSIGNED | 4 | XTSCHANT | Channel token |
| (8C) | CHARACTER | 16 | XTSTBYTE | Total channel bytes |

Constants

Table 831.

| Len | Type | Value | Name | Description |
|--|------|-------|----------|-----------------------------|
| Values of XTIFORMN | | | | |
| 1 | HEX | 00 | XTSTRAN1 | Transformation 1 |
| 1 | HEX | 02 | XTSTRAN2 | Transformation 2 |
| 1 | HEX | 04 | XTSTRAN3 | Transformation 3 |
| 1 | HEX | 06 | XTSTRAN4 | Transformation 4 |
| Values of XTSTRQFRM | | | | |
| 1 | HEX | 00 | XTSRQRLY | Relay |
| TCTTE address for user terminal/surrogate is passed in XTSAATTEU. Data is sent over the link with a X'438000' FMH. | | | | |
| 1 | HEX | 01 | XTSRQTIQ | Inquire terminal |
| The terminal entry associated with this conversation is INQUIRED. | | | | |
| 1 | HEX | 02 | XTSRQTIN | Install terminal |
| Address of Builder Parameter Set is passed in XTINBPS. The BPS is sent over the link with a X'438002' FMH. This is not supported as the FMH 43 following a Task Attach. | | | | |
| 1 | HEX | 03 | XTSRQTDE | Delete terminal |
| The REMOTE entries named in the list (if any) attached to the system entry for the link TCTTE are to be deleted. This is only supported with a Task Attach. | | | | |
| 1 | HEX | 04 | XTSRQZIR | ZC install response message |
| ZC RESPONSE is passed in XTSCODE1, address of message-set or 0 is passed in XTSAATTEU. | | | | |
| 1 | HEX | 05 | XTSXLONG | Extract long fields |

ZCQ - Builder parameter set

Table 832.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 17 | ZCBPS | Root for overlay structure |

Table 832. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------------------------|
| (0) | ADDRESS | 4 | ZCQSPSTR | Address of BPS |
| (4) | ADDRESS | 4 | BPS_BIND_IN_USE | BPS Bind in use. Set by ZCQIS. |
| (8) | BIT(8) | 1 | * | |
| (8) | 1... | | BPS_NOREPLACE | Don't replace existing version |
| (8) | .1.. | | BPS_SHIPPED_X | Definition was shipped. |
| (8) | ..11 1... | | BPS_TYPE_BITS | |
| (8) | ..1. | | BPS_CONN | Connection definition |
| (8) | ...1 | | BPS_SESS | Session definition |
| (8) | 1... | | BPS_POOL | Pipeline definition |
| (8) |111 | | * | |
| (9) | CHARACTER | 8 | BPS_ATOM_ID | Related set of recoverable |

BPSes

Table 833.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|----------------------------|
| (0) | STRUCTURE | 10 | DFHZCQPS | BPS |
| (0) | ADDRESS | 4 | BPS_FORWARD_PTR | Next in chain, if any. |
| (4) | HALFWORD | 2 | BPS_LENGTH | Length of whole structure. |
| (6) | UNSIGNED | 1 | BPS_RTC | Resource Type Code. |
| (7) | UNSIGNED | 1 | BPS_SUBTYPE | Subtype. |
| (8) | UNSIGNED | 1 | BPS_OVERLAY_ID | Overlay Check Key. |
| (9) | BIT(8) | 1 | * | |
| (9) | 1... | | BPS_TRACE_YES_X | Trace this BPS |
| (A) | CHARACTER | 0 | ZCQPSOVL | Location of overlays. |

The existence bits define which options will be generated in the resulting terminal.
It also indicates if further information is contained within the fixed parameter area (BPS_FIXED_VARS).

Table 834.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|---------------------------|
| (0) | STRUCTURE | * | BPS_EXIST_BITS | BPS Existence Bits |
| (0) | UNSIGNED | 2 | ZCQPSXBL | Length of existence bits. |
| (2) | CHARACTER | * | ZCQPSXBA | Existence bits area. |

Table 835.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|----------------------------|
| (0) | STRUCTURE | * | BPS_FIXED_VARS | BPS Fixed Variables |
| (0) | UNSIGNED | 2 | ZCQPSFVL | Length of fixed-len parms. |
| (2) | CHARACTER | * | ZCQPSFVA | Fixed-length parm area. |

BIND-image. An image of the VTAM BIND

Table 836.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------|
| (0) | STRUCTURE | * | BPSBINDI | BPS Bind Image |
| (0) | UNSIGNED | 1 | BPSBINDL | Bind Image Length |
| (1) | CHARACTER | * | BPSBINDS | Bind Image String |

Table 837.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|----------------------------------|
| (0) | STRUCTURE | * | BPS_BIND_IMAGE | Usually BASED(ADDR(BPSBINDI)) |
| (0) | UNSIGNED | 1 | BPS_BIND_LENGTH | Bind Image Length |
| (1) | CHARACTER | 25 | BPS_BIND_STRING | Bind Image String |
| (1A) | BIT(8) | 1 | BPS_CRYPT | Byte 26 of BIND |
| (1A) | 1111 | | * | Cryptography options |
| (1A) | 1111 | | * | Contains len(BPS_CRYPT_MODE) |
| (1B) | CHARACTER | * | BPS_CRYPT_MODE | Cryptography method |

Optional BIND image fields

Table 838.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|------------------------|
| (0) | STRUCTURE | * | BPS_PLUNAME | Primary LU Name |
| (0) | UNSIGNED | 1 | BPS_PLUN_LENGTH | Primary LU Name length |
| (1) | CHARACTER | * | BPS_PLUN_STRING | Primary LU Name String |

Table 839.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-----------------|
| (0) | STRUCTURE | * | BPS_USERDATA | Userdata |
| (0) | UNSIGNED | 1 | BPS_USERD_LENGTH | Userdata Length |
| (1) | CHARACTER | * | BPS_USERD_STRING | Userdata string |

Table 840.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|--------------------------------|
| (0) | STRUCTURE | * | BPS_URCORRELATOR | User related correlation field |
| (0) | UNSIGNED | 1 | BPS_URC_LENGTH | UR corr. field length |
| (1) | CHARACTER | * | BPS_URC_STRING | UR Corr. field string |

Table 841.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------------------|
| (0) | STRUCTURE | * | BPS_SLU_NAME | Secondary LU Name |
| (0) | UNSIGNED | 1 | BPS_SLUN_LENGTH | Secondary LU Name length |
| (1) | CHARACTER | * | BPS_SLUN_STRING | Secondary LU Name String |

USERID as in the VTAM CINIT

Table 842.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-----------------------------|
| (0) | STRUCTURE | 21 | BPS_USID | USERID |
| (0) | UNSIGNED | 1 | BPS_USID_LENGTH | USERID Length |
| (1) | CHARACTER | 20 | BPS_USID_STRING | USERID Max. allowed in CICS |

PASSWORD as in the VTAM CINIT

Table 843.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|------------------------------|
| (0) | STRUCTURE | 17 | BPS_PWORD | PASSWORD |
| (0) | UNSIGNED | 1 | BPS_PWORD_LENGTH | PASSWORD Length |
| (1) | CHARACTER | 16 | BPS_PWORD_STRING | PASSWORD max allowed in CICS |

Overlay for terminals.

Generally, if it ends in _xxx_X (e.g._YES_X) and the bit is on then the appropriate option will be set in the TCTTE.

If it only ends in _X and the bit is on then additional information will be contained in the fixed length parameter area whose value will be set in the TCTTE.

Table 844.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---------------------------------|
| (0) | STRUCTURE | 25 | ZC_EXIST_BITS | Terminal Existence Bits overlay |
| (0) | 1... | | ZC_RESERVED_1_X | Reserved |
| (0) | .1.. | | ZC_NETNAME_X | Netname Var exists |
| (0) | ..1. | | ZC_CONSLID_X | Console ID var exists |
| (0) | ...1 | | ZC_RMTNAME_X | Remote Name var exists |
| (0) | 1.. | | ZC_SYSIDNT_X | Remote system name var exists |
| (0) |1.. | | ZC_POOLPTR_X | Pipeline pool pointer exists |
| (0) |1. | | ZC_PRINTTO_X | Printer var exists |
| (0) |1 | | ZC_ALTPRINT_X | Alt printer var exists |
| (1) | 1... | | ZC_SPOOLTO_X | DOS Spooler var exists |
| (1) | .1.. | | ZC_POOLID_X | POOLID var exists |
| (1) | ..1. | | * | Reserved |
| (1) | ...1 | | ZC_OPERPRI_X | Operator Priority var exists |
| (1) | 1.. | | * | Reserved |
| (1) |1.. | | * | Reserved |
| (1) |1. | | ZC_OPERID_X | Operator ID var exists |
| (1) |1 | | ZC_OPCLASS_X | Operator class exists |
| (2) | 1... | | ZC_NEPCCLASS_X | NEP class var exists |
| (2) | .1.. | | ZC_TRANSACTION_X | Tran ID var exists |

Table 844. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|------------------------------|
| (2) | ..1. | | ZC_TRMPRTY_X | Terminal Priority var exists |
| (2) | ...1 | | * | Reserved |
| (2) | 1... | | ZC_LDC_X | LDC var exists |
| (2) |1.. | | ZC_LOGMODE_X | LOGMODE var exists |
| (2) |1. | | ZC_PGESIZE_1_X | Page size var exists |
| (2) |1 | | ZC_PGESIZE_2_X | Page size var exists |
| (3) | 1... | | ZC_ALTPGE_1_X | Alt Page size var exists |
| (3) | .1.. | | ZC_ALTPGE_2_X | Alt Page size var exists |
| (3) | ..1. | | ZC_ALTSFX_X | Alt suffix var exists |
| (3) | ...1 | | ZC_TCTUAL_X | User Area Len var exists |
| (3) | 1... | | ZC_CINIT_YES_X | Not used |
| (3) |1.. | | ZC_APLKYBD_YES_X | APL Keyboard |
| (3) |1. | | ZC_APLTEXT_YES_X | APL Text |
| (3) |1 | | ZC_AUDALARM_YE_X | Audible alarm |
| (4) | 1... | | ZC_COLOR_YES_X | Colour |
| (4) | .1.. | | ZC_DCKYBD_YES_X | DC keyboard |
| (4) | ..1. | | ZC_EXTDS_YES_X | 3270 extended data stream |
| (4) | ...1 | | ZC_HILIGHT_YES_X | High light |
| (4) | 1... | | ZC_KATAKANA_YE_X | Katakana keyboard |
| (4) |1.. | | ZC_MSRCNTRL_YE_X | Magnetic slot reader |
| (4) |1. | | ZC_OBFMT_YES_X | OB format |
| (4) |1 | | ZC_PARTNS_YES_X | Partition support |
| (5) | 1... | | ZC_PTRADAPT_YE_X | Print adaptor |
| (5) | .1.. | | ZC_PS_YES_X | Prog Symb |
| (5) | ..1. | | ZC_SELCTPEN_YE_X | Select Pen |
| (5) | ...1 | | ZC_VALIDATI_YE_X | Validate |
| (5) | 1... | | ZC_HF_YES_X | Horizontal form |
| (5) |1.. | | ZC_VF_YES_X | Vertical form |
| (5) |1. | | ZC_FF_YES_X | Form Feed |
| (5) |1 | | ZC_FMHPARM_YES_X | BMS FMH parms |
| (6) | 1... | | ZC_AUTOPAGE_YE_X | Autopage |
| (6) | .1.. | | ZC_ERRLASTL_YE_X | Error last line |
| (6) | ..1. | | ZC_ERRINTEN_YE_X | Error intensify |
| (6) | ...1 | | ZC_ERRCOLOR_BL_X | Error colour blue |
| (6) | 1... | | ZC_ERRCOLOR_RE_X | Error colour red |
| (6) |1.. | | ZC_ERRCOLOR_PI_X | Error colour pink |
| (6) |1. | | ZC_ERRCOLOR_GR_X | Error colour green |
| (6) |1 | | ZC_ERRCOLOR_TU_X | Error colour turquoise |
| (7) | 1... | | ZC_ERRCOLOR_YE_X | Error colour yellow |
| (7) | .1.. | | ZC_ERRCOLOR_NE_X | Error colour neutral |

Table 844. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-----------------------------|
| (7) | ..1. | | ZC_ERRHILIG_BL_X | Error hilight blue |
| (7) | ...1 | | ZC_ERRHILIG_RE_X | Error hilight red |
| (7) | 1... | | ZC_ERRHILIG_UN_X | Error hilight underline |
| (7) |1.. | | ZC_ATI_YES_X | ATI allowed |
| (7) |1. | | ZC_TTI_YES_X | TTI allowed |
| (7) |1 | | ZC_INTLOG_YES_X | Create sess |
| (8) | 1... | | ZC_OUTSERVI_YE_X | Out of service |
| (8) | .1.. | | ZC_INPUT_YES_X | Input only term |
| (8) | ..1. | | ZC_RELREQ_YES_X | Relreq |
| (8) | ...1 | | ZC_DISCONNE_YE_X | Disconnect |
| (8) | 1... | | ZC_ROUTE_NOTAL_X | Route DMS SP |
| (8) |1.. | | ZC_ROUTE_NEVER_X | Route DMS NO |
| (8) |1. | | ZC_GMMMSG_YES_X | Logon Message |
| (8) |1 | | ZC_PRINT_YES_X | Print |
| (9) | 1... | | ZC_CHNASSY_YES_X | Chain assembly |
| (9) | .1.. | | ZC_UCTRAN_YES_X | Upper case translate |
| (9) | ..1. | | ZC_3270E_YES_X | 3270 E |
| (9) | ...1 | | ZC_TEXTKYBD_YE_X | Text keyboard |
| (9) | 1... | | ZC_TEXTPRIN_YE_X | Text print |
| (9) |1.. | | ZC_CONNAUTO_YE_X | Auto connect |
| (9) |1. | | ZC_IOAREALEN_X | IO area len |
| (9) |1 | | ZC_CHAINMAX_X | Chain max |
| (A) | 1... | | ZC_PARS_LU6_X | Parallel sess LU61 |
| (A) | .1.. | | ZC_PARS_LUC_X | Parellel sess LU62 |
| (A) | ..1. | | ZC_QUERY_COLD_X | Query cold |
| (A) | ...1 | | ZC_QUERY_ALL_X | Query all |
| (A) | 1... | | ZC_COPY_YES_X | 3270 copy |
| (A) |1.. | | ZC_ACOPY_YES_X | 3270 copy alt |
| (A) |1. | | ZC_PREBIND_SCR_X | Pre bind |
| (A) |1 | | ZC_AUTOPAGE_NO_X | BMS Autopage |
| (B) | 1... | | ZC_CGCSGID_1_X | Graphic char set var exists |
| (B) | .1.. | | ZC_CGCSGID_2_X | Graphic char set var exists |
| (B) | ..1. | | ZC_OBOPERID_YE_X | Outboard op id |
| (B) | ...1 | | ZC_SHIPPABL_YE_X | Shippable |
| (B) | 1... | | ZC_SIGNOFF_YES_X | Signoff at timeout |
| (B) |1.. | | ZC_PRINTERTYPE_X | Printer type |
| (B) |1. | | ZC_SPOOLDEST_X | Dos spool dest |
| (B) |1 | | ZC_SIGNOFF_LOG_X | Logoff at timeout |
| (C) | 1... | | ZC_XSNAME_X | Security name var exists |
| (C) | .1.. | | ZC_USEDFLTU_YE_X | Use default user |

Table 844. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------------|-----|-------------------|-------------------------------|
| (C) | ..1. | | ZC_NETNAMEQ_X | Netname Q |
| (C) | ...1 | | ZC_MAXSESS_1_X | Max sessions var exists |
| (C) | 1... | | ZC_MAXSESS_2_X | Max sessions var exists |
| (C) |1.. | | ZC_SYSTEM_PTR_X | Pointer not name supplied |
| (C) |1. | | ZC_SOLMESS_YES_X | Solicit messages |
| (C) |1 | | * | Reserved |
| (D) | 1... | | * | Reserved |
| (D) | .1.. | | ZC_CONNAUTO_AL_X | Auto connect all |
| (D) | ..1. | | ZC_SESSNAME_X | Session name |
| (D) | ...1 | | ZC_LUSM_YES_X | LU Serv manager session |
| (D) | 1... | | ZC_MODENAME_X | Mode name var exists |
| (D) |1.. | | ZC_POOLCNT_X | Pool count var exists |
| (D) |1. | | ZC_PARS_YES_X | Parellel session |
| (D) |1 | | ZC_ATTACHSE_LO_X | Attach security local |
| (E) | 1... | | ZC_ATTACHSE_ID_X | Attach security ID |
| (E) | .1.. | | ZC_ATTACHSE_VE_X | Attach security verify |
| (E) | ..1. | | * | Reserved |
| (E) | ...1 | | ZC_TRANSIENT_X | Autoinstalled terminal |
| (E) | 1... | | ZC_TASKLIMIT_X | Pipe line task limit |
| (E) |1.. | | ZC_BACKTRAN_YE_X | Background transparency |
| (E) |1. | | ZC_SOSI_YES_X | Ebcdic and d.byte char set |
| (E) |1 | | ZC_OUTLINE_YES_X | Outline supported |
| (F) | 1... | | ZC_RECOVOPT_SY_X | RecovOption = System Default |
| (F) | .1.. | | ZC_RECOVOPT_CL_X | RecovOption = Clear Conv. |
| (F) | ..1. | | ZC_RECOVOPT_RE_X | RecovOption = Release Session |
| (F) | ...1 | | ZC_RECOVOPT_RS_X | RecovOption = Restart Session |
| (F) | 1... | | ZC_RECOVOPT_NO_X | RecovOption = None |
| (F) |1.. | | ZC_RECOVNOT_NO_X | RecovNotify = None |
| (F) |1. | | ZC_RECOVNOT_ME_X | RecovNotify = Message |
| (F) |1 | | ZC_RECOVNOT_TR_X | RecovNotify = Transaction |
| (10) | 1... | | ZC_NATLANG_X | National Language exists |
| (10) | .1.. | | ZC_RSTSIGNO_FO_X | XRF/PS signoff = force =>1 |
| (10) | ..1. | | ZC_3270COMP_X | 3270 compatibility bits |
| (10) | ...1 | | ZC_LUTYPE2_X | Indicate DEVICE=LUTYPE2 |
| (10) | 1... | | ZC_UCTRAN_TRAN_X | UC translate tranid |
| (10) | BIT(6) POS(6) | 2 | ZC_RESERVED_311 | Reserved |
| (11) | ...1 | | ZC_PRT_NETNAME_X | MTS printer netname |
| (11) | 1... | | ZC_APRT_NETNAME_X | MTS ALTPRT netname |

Table 844. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------------|-----|-----------------------|----------------------------|
| (11) |1.. | | ZC_CONSNAME_X | Console name exists |
| (11) |1. | | ZC_BINDSECU_YE_X | Bind security on |
| (11) |1 | | ZC_BINDSECU_NO_X | Bind security off |
| (12) | 1... | | ZC_ATTACHSE_PE_X | Attach security Persistent |
| (12) | .1.. | | ZC_ATTACHSE_MI_X | Attach security Mixed |
| (12) | ..11 1... | | ZC_RESERVED_320 | Reserved |
| (12) | BIT(4) POS(6) | 2 | ZC_RESERVED_330 | Reserved |
| (13) | .1.. | | ZC_PROTOCOL_EX_X | PROTOCOL=EXCI |
| (13) | ..1. | | ZC_SENDCOUNT_X | Session SENDCOUNT supplied |
| (13) | ...1 | | ZC_RECEIVECOUN_X | Session RECEIVECOUNT |
| (13) | 1... | | ZC_CLONE_X | APPC clone session |
| (13) | BIT(5) POS(6) | 2 | * | Reserved |
| (14) | ..1. | | ZC_USE_MRO_BITMAP_X | Session for MRO BITMAP |
| (14) | ...1 | | ZC_TITOKEN_YES_X | token present |
| (14) | BIT(5) POS(5) | 2 | ZC_RESERVED_DEV | Reserved for rel 510 |
| (15) | .1.. | | ZC_CATLG_NO_X | Session not catalogued |
| (15) | ..1. | | ZC_TOR_NETNAME_X | TOR netname provided |
| (15) | ...1 | | ZC_VIRTUAL_TERMINAL_X | Virtual Terminal |
| (15) | 1... | | ZC_BRACKET_NO_X | Bracket(No) |
| (15) | BIT(5) POS(6) | 2 | ZC_RESERVED_510 | Reserved for rel 510 |
| (16) | BIT(8) POS(3) | 2 | ZC_RESERVED_130 | Reserved for rel 1.3 |
| (17) | BIT(8) POS(3) | 2 | ZC_RESERVED_200 | Reserved for rel 2.0 |

Fixed Length Variables for Terminals

Table 845.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|----------------------------------|
| (0) | STRUCTURE | 257 | ZC_FIXED_VARS | Terminal Variable fields overlay |
| (0) | CHARACTER | 4 | ZC_TERMINAL | Terminal ID |
| (4) | CHARACTER | 8 | ZC_NETNAME | Netname |
| (C) | FULLWORD | 4 | ZC_CONSLID | Console ID |
| (10) | CHARACTER | 4 | ZC_RMTNAME | Remote name |
| (14) | CHARACTER | 4 | ZC_SYSIDNT | Connection ID |
| (18) | CHARACTER | 4 | ZC_PRINTTO | Printer name |
| (1C) | CHARACTER | 4 | ZC_ALTPRINT | Alt printer name |
| (20) | CHARACTER | 4 | ZC_SPOOLTO_OLD | Old DOS spooler ID |
| (24) | CHARACTER | 8 | ZC_POOLID | Pool ID |
| (24) | ADDRESS | 4 | ZC_POOLPTR | Pool Pointer |
| (2C) | UNSIGNED | 1 | ZC_OPERPRI | Operator priority |
| (2D) | BIT(24) | 3 | * | Reserved |

Table 845. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--|--------------------|
| (30) | BIT(64) | 8 | * | Reserved |
| (38) | FULLWORD | 4 | ZC_NEPCLASS | NEP class |
| (3C) | FULLWORD | 4 | * | Reserved |
| (40) | CHARACTER | 3 | ZC_OPCLASS | Operator class |
| (43) | CHARACTER | 3 | ZC_OPERID | Operator ID |
| (46) | CHARACTER | 4 | ZC_TRANSACTION | Transaction ID |
| (4A) | CHARACTER | 2 | * | Reserved |
| (4C) | FULLWORD | 4 | ZC_TRMPRTY | Terminal Priority |
| (50) | FULLWORD | 4 | * | Reserved |
| (54) | CHARACTER | 8 | ZC_LDC | LDC |
| (5C) | UNSIGNED | 1 | ZC_PREBIND_SCR (4294967300:342008896) | Pre Bind |
| (60) | CHARACTER | 8 | ZC_LOGMODE | Logmode |
| (68) | FULLWORD | 4 | ZC_PGESIZE_1 | BMS Page size |
| (6C) | FULLWORD | 4 | ZC_PGESIZE_2 | BMS Page size |
| (70) | FULLWORD | 4 | ZC_ALTPGE_1 | BMS Alt page size |
| (74) | FULLWORD | 4 | ZC_ALTPGE_2 | BMS Alt page size |
| (78) | CHARACTER | 1 | ZC_ALTSFX | BMS Alt suffix |
| (79) | CHARACTER | 3 | * | Reserved |
| (7C) | FULLWORD | 4 | ZC_TCTUAL | User area length |
| (80) | ADDRESS | 4 | ZC_MODE_PTR | Mode group pointer |
| (84) | FULLWORD | 4 | ZC_IOAREALEN | TIOA length |
| (88) | FULLWORD | 4 | ZC_CHAINMAX | Chain max |
| (8C) | UNSIGNED | 2 | ZC_CGCSGID_1 | Graphic char set |
| (8E) | UNSIGNED | 2 | ZC_CGCSGID_2 | Graphic char set |
| (90) | CHARACTER | 2 | ZC_PRINTERTYPE | Printer type |
| (92) | CHARACTER | 2 | * | Reserved |
| (94) | FULLWORD | 4 | ZC_TASKLIMIT | Task limit |
| (98) | CHARACTER | 8 | ZC_SPOOLDEST | DOS spool dest |
| (A0) | CHARACTER | 1 | * | Reserved |
| (A1) | CHARACTER | 8 | ZC_NETNAMEQ | Netname queue |
| (A9) | CHARACTER | 3 | * | Reserved |
| (AC) | FULLWORD | 4 | ZC_MAXSESS_1 | Max sessions |
| (B0) | FULLWORD | 4 | ZC_MAXSESS_2 | Max sessions |
| (B4) | CHARACTER | 8 | ZC_XSNAME | Security name |
| (BC) | FULLWORD | 4 | ZC_POOLCNT | Pool count |
| (C0) | FULLWORD | 4 | ZC_MAXSESSCOUNT | Max session count |
| (C4) | CHARACTER | 8 | ZC_TITOKEN | Terminal token |
| (CC) | CHARACTER | 8 | ZC_MODENAME | Mode group name |
| (D4) | CHARACTER | 8 | ZC_SPOOLTO | DOS SPOOLTO name |

Table 845. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|----------------------------|
| (DC) | CHARACTER | 1 | ZC_NATLANG | National Language |
| (DD) | CHARACTER | 8 | ZC_PRT_NETNAME | MTS printer netname |
| (E5) | CHARACTER | 8 | ZC_APRT_NETNAME | MTS ALTPRT netname |
| (ED) | CHARACTER | 8 | ZC_CONSNAME | Console name |
| (F5) | CHARACTER | 2 | ZC_SENDCOUNT | Session SENDCOUNT (MRO) |
| (F7) | CHARACTER | 2 | ZC_RECEIVECOUN | Session RECEIVECOUNT (MRO) |
| (F9) | CHARACTER | 8 | ZC_TOR_NETNAME | TOR Netname |

Overlay for connection.

Generally, if it ends in _xxx_X (e.g._YES_X) and the bit is on then the appropriate option will be set in the TCSE.

If it only ends in _X and the bit is on then additional information will be contained in the fixed length parameter area whose value will be set in the TCSE.

Table 846.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-----------------------------------|
| (0) | STRUCTURE | 12 | ZX_EXIST_BITS | Connection Existence bits overlay |
| (0) | 1... | | * | Reserved |
| (0) | .1.. | | ZX_NETNAME_X | Connection netname var exists |
| (0) | ..1. | | ZX_XSNAME_X | Security name var exists |
| (0) | ...1 | | ZX_USEDFLTU_YE_X | Use default user |
| (0) | 1... | | ZX_CONNAUTO_YE_X | Auto connect |
| (0) |1.. | | ZX_ATTACHSE_LO_X | Attach security local |
| (0) |1. | | ZX_ATTACHSE_VE_X | Attach security verify |
| (0) |1 | | ZX_DATASTR_USE_X | Data stream user |
| (1) | 1... | | ZX_DATASTR_327_X | Data stream 3270 |
| (1) | .1.. | | ZX_DATASTR_SCS_X | Data stream SCS |
| (1) | ..1. | | ZX_DATASTR_STR_X | Data stream STR field |
| (1) | ...1 | | ZX_DATASTR_LMS_X | Data stream LMS |
| (1) | 1... | | ZX_RECFM_U_X | RECFM Undefined |
| (1) |1.. | | ZX_RECFM_VB_X | RECFM Variable blocked |
| (1) |1. | | ZX_CONNAUTO_AL_X | Autoconnect all |
| (1) |1 | | ZX_OUTSERVI_YE_X | Out of service |
| (2) | 1... | | ZX_TRANSACTION_X | Transaction ID var exists |
| (2) | .1.. | | ZX_INTLOG_YES_X | Intlog |
| (2) | ..1. | | ZX_ACCMETH_XM_X | Cross Memory access method |
| (2) | ...1 | | ZX_ATTACHSE_ID_X | Attach security ID |
| (2) | 1... | | * | Reserved |
| (2) |1.. | | ZX_TRANSIENT_X | Autoinstalled connection |

Table 846. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------|---------------|-----|------------------|-----------------------------|
| (2) |1. | | ZX_RMTNAME_X | Remote name |
| (2) |1 | | ZX_RMTSYSN_X | Remote system |
| (3) | 1... | | ZX_BINDSECU_YE_X | Bind security on |
| (3) | .1.. | | ZX_BINDSECU_NO_X | Bind security off |
| (3) | ..1. | | ZX_ATTACHSE_PE_X | Attach security Persistent |
| (3) | ...1 | | ZX_ATTACHSE_MI_X | Attach security Mixed |
| (3) | BIT(8) POS(5) | 2 | ZX_RESERVED_3XX | Reserved for rel 3. |
| (4) | 1... | | ZX_PROTOCOL_EX_X | PROTOCOL=EXCI |
| (4) |1.. | | ZX_QUEUEELIM_X | Allocate queue limit |
| (4) |1. | | ZX_PSRECOVE_SY_X | PSRECOVERY = Sysdefault |
| (4) |1 | | ZX_PSRECOVE_NO_X | PSRECOVERY = None |
| (5) | 1... | | ZX_SENDCOUNT_X | Session SENDCOUNT supplied |
| (5) | .1.. | | ZX_RECEIVECOUN_X | Session RECEIVECOUNT |
| (5) | ..1. | | ZX_CLONE_X | APPC clone |
| (5) | ...1 | | ZX_MAXQTIME_X | Allocate queue time |
| (5) | BIT(5) POS(5) | 2 | * | Reserved |
| (6) | .1.. | | ZX_RMTSYSNET_X | Netname of TOR |
| (6) | ..1. | | ZX_TITOKEN_YES_X | token present |
| (6) | ...1 1111 | | ZX_RESERVED_410 | Reserved for rel 410 |
| (7) | 1... | | ZX_GR_X | Both sides GR registered |
| (7) | .1.. | | ZX_GRNAME_CONN_X | On = GR name connection |
| Off = member name conn. | | | | |
| (7) | ..1. | | ZX_USE_OUR_MEM_X | Partner used our membername |
| (7) | ...1 | | ZX_NETID_X | Network name present |
| (7) | 1... | | ZX_NETNAME2_X | GR or member name present |
| (7) |1.. | | ZX_CATLG_NO_X | Connection not catalogued |
| (7) |1. | | ZX_DELETE_X | AI implicitly deletable |
| (7) |1 | | ZX_XLNACTIO_FO_X | XLNaction(force) |
| (8) | BIT(8) | 1 | ZX_RESERVED_510 | Reserved for rel 510 |
| (9) | BIT(8) | 1 | ZX_RESERVED_130 | Reserved for rel 1.3 |
| (A) | BIT(8) | 1 | ZX_RESERVED_200 | Reserved for rel 2.0 |
| (B) | 1... | | ZX_RESSIG_X | Resource Signature |

Fixed Length Variables for Connections

Table 847.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|------------------------------------|
| (0) | STRUCTURE | 150 | ZX_FIXED_VARS | Connection Variable fields overlay |

Table 847. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--|-----|-------------------|---------------------------------|
| (0) | CHARACTER | 4 | ZX_CONNECTION | Connection name |
| (4) | CHARACTER | 4 | ZX_INDSYS | Indirect system name |
| (8) | CHARACTER | 8 | ZX_NETNAME | Netname |
| (10) | CHARACTER | 8 | ZX_XSNAME | Security name |
| (18) | CHARACTER | 8 | * | Reserved |
| (20) | CHARACTER | 4 | ZX_TRANSACTION | Transaction ID |
| (24) | CHARACTER | 4 | ZX_RMTNAME | Remote name |
| (28) | CHARACTER | 4 | ZX_RMTSYSN | Remote system |
| (2C) | FULLWORD | 4 | ZX_QUEUEELIM | Allocate queue limit |
| (30) | CHARACTER | 2 | ZX_SENDCOUNT | Session SENDCOUNT (MRO) |
| (32) | CHARACTER | 2 | ZX_RECEIVECOUN | Session RECEIVECOUNT (MRO) |
| (34) | HALFWORD | 2 | ZX_MAXQTIME | Allocate queue time |
| (36) | CHARACTER | 8 | ZX_RMTSYSNET | Netname of TOR |
| (3E) | CHARACTER | 8 | ZX_TITOKEN | terminal identification |
| (46) | CHARACTER | 8 | ZX_NETID | NETID of partner |
| (4E) | CHARACTER | 8 | ZX_NETNAME2 | Generic Resource or member name |
| (56) | OBJECT | 64 | ZX_RESSIG | Resource Signature |
| (56) | CHARACTER | 64 | DFHAMSIG_INSTANCE | Resource Signature |
| (56) | STRUCTURE IsA(DFHAMSIG_ DEFINE_ SIGNATURE) | 38 | DEFINE_SIGNATURE | Resource Signature |
| (56) | CHARACTER | 8 | DEFINE_SOURCE | GROUP resource installed from |
| (5E) | CHARACTER | 8 | DEFINE_TIME | Time resource defined |
| (66) | CHARACTER | 8 | CHANGE_TIME | Change/create time |
| (6E) | CHARACTER | 8 | CHANGE_USERID | Change userid |
| (76) | UNSIGNED | 2 | CHANGE_AGENT | Change agent |
| (78) | CHARACTER | 4 | AGENT_LEVEL | CICS level of change agent |
| (7C) | STRUCTURE IsA(DFHAMSIG_ INSTALL_ SIGNATURE) | 18 | INSTALL_SIGNATURE | Resource Signature |
| (7C) | CHARACTER | 8 | INSTALL_TIME | Install/create time |
| (84) | CHARACTER | 8 | INSTALL_USERID | Install userid |
| (8C) | UNSIGNED | 2 | INSTALL_AGENT | Install agent |
| (8E) | CHARACTER | 8 | * | Resource Signature |

Constants

Table 848.

| Len | Type | Value | Name | Description |
|-----|---------|-------|---------------|-------------|
| 4 | DECIMAL | 25 | \$PSXBLC | |
| 4 | DECIMAL | 12 | \$PSXBLX | |
| 4 | DECIMAL | 257 | \$PSFVLC | |
| 4 | DECIMAL | 150 | \$PSFVLX | |
| 4 | DECIMAL | 576 | BPS_C_MAXSIZE | |
| 4 | DECIMAL | 200 | BPS_X_MAXSIZE | |

ZEPD - TCP modules address list

CONTROL BLOCK NAME = DFHZEPD
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS TCP Modules Address List.
Licensed Materials - Property of IBM
Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 1981, 1994
PN= REASON REL YYMDD HDXIII : REMARKS

Table 849.

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------|-----------|-----|--------------|------------------------------------|
| (0) | STRUCTURE | 0 | DFHZEPD | TCP MODULES ADDR LIST DSECT |
| (0) | ADDRESS | 4 | DFHZTDNA | 00 TCP dispatcher entry address |
| (4) | ADDRESS | 4 | DFHZRWNA | 01 APPL R/W request entry |
| (8) | ADDRESS | 4 | DFHZTSNA | 02 Locate TCP service entry * |
| STANDARD NAMES FOR MODULES | | | | |
| (0) | ADDRESS | 4 | DFHZDSPA | 00 Dispatch module address |
| (4) | ADDRESS | 4 | DFHZARQA | 01 READ/WRITE module address |
| (8) | ADDRESS | 4 | DFHZLOCA | 02 LOCATE TCP module address |
| (C) | ADDRESS | 4 | DFHZDETA | 03 DETACH module address |
| (10) | ADDRESS | 4 | DFHZBTNA (0) | |
| (10) | ADDRESS | 4 | DFHZTCPA | 04 Non-VTAM TCP entry point |
| (14) | ADDRESS | 4 | | 05 Reserved |
| (18) | ADDRESS | 4 | DFHZCRQA | 06 Command requests module address |
| (1C) | HALFWORD | 2 | | Reserved |
| (1E) | HALFWORD | 2 | DFHZLENG | 07 Length of ZEPD list |
| (20) | ADDRESS | 4 | DFHZSTUA | 08 Status change module address |

Table 849. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------------|-----------|-----|------------|--|
| (24) | ADDRESS | 4 | DFHZTSPA | 09 Terminal sharing module address |
| (28) | ADDRESS | 4 | DFHZHPXA | 0A HPO RPL executor ZHPRX address |
| (2C) | ADDRESS | 4 | DFHZISPA | 0B ALLOCATE/FREE module address |
| (30) | ADDRESS | 4 | DFHZIS1A | 0C Common IS/ZCP requests address |
| (34) | ADDRESS | 4 | DFHZIS2A | 0D IS MM/BSC internal requests |
| (38) | ADDRESS | 4 | DFHZABDA | 0E Invalid request or abend module address |
| (3C) | ADDRESS | 4 | | 0F Reserved |
| (40) | ADDRESS | 4 | DFHZATIA | 10 Automatic transaction Initiation module address |
| (44) | ADDRESS | 4 | DFHZATTA | 11 Attach task module address |
| (48) | ADDRESS | 4 | DFHZFREA | 12 Free storage module address |
| (4C) | ADDRESS | 4 | DFHZGETA | 13 Get storage module address |
| RESERVED EXTRA SPACE FOR NON-VTAM TCT | | | | |
| (4C) | .1.1 | | ZEPDLENC | "*-DFHZEPD" |
| (50) | ADDRESS | 4 | DFHZRACA | 14 Receive any module address |
| (54) | ADDRESS | 4 | DFHZRSTA | 15 RESETSR module address |
| (58) | ADDRESS | 4 | DFHZRVSA | 16 Receive specific module address |
| (5C) | ADDRESS | 4 | DFHZRVXA | 17 Receive specific exit module address |
| (60) | ADDRESS | 4 | DFHZSDSA | 18 Send normal module address |
| (64) | ADDRESS | 4 | DFHZSDXA | 19 Send data exit module address |
| (68) | ADDRESS | 4 | DFHZUCTA | 1A Translation module address |
| (6C) | ADDRESS | 4 | DFHZUIXA | 1B User exit module address |
| (70) | ADDRESS | 4 | DFHZACTA | 1C Activate scan module address |
| (74) | ADDRESS | 4 | DFHZSDRA | 1D Send response module address |
| (78) | ADDRESS | 4 | DFHZHPSA | 1E HPO send receive module address |
| (7C) | ADDRESS | 4 | DFHZRPLA | 1F Receive Any Builder |

Table 849. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|------------|---|
| (80) | ADDRESS | 4 | DFHZAITA | 20 Attach initiation module address |
| (84) | ADDRESS | 4 | DFHZASXA | 21 Asynchronous command exit module address |
| (88) | ADDRESS | 4 | DFHZCLSA | 22 Close destination module address |
| (8C) | ADDRESS | 4 | DFHZCLXA | 23 Close destination exit module address |
| (90) | ADDRESS | 4 | | 24 Reserved |
| (94) | ADDRESS | 4 | DFHZLEXA | 25 LERAD exit module address |
| (98) | ADDRESS | 4 | DFHZLGXA | 26 LOGON exit module address |
| (9C) | ADDRESS | 4 | DFHZLRPA | 27 Logical record presentation module address |
| (A0) | ADDRESS | 4 | DFHZLTXA | 28 LOSTERM exit module address |
| (A4) | ADDRESS | 4 | DFHZOPNA | 29 Open destination module address |
| (A8) | ADDRESS | 4 | DFHZOPXA | 2A Open destination exit module address |
| (AC) | ADDRESS | 4 | DFHZRAQA | 2B Read ahead queuing module address |
| (B0) | ADDRESS | 4 | DFHZRARA | 2C Read ahead retrieval module address |
| (B4) | ADDRESS | 4 | DFHZRPXA | 2D Response exit module address |
| (B8) | ADDRESS | 4 | DFHZRRXA | 2E Release request exit module address |
| (BC) | ADDRESS | 4 | DFHZNSPA | 2F Network services procedure exit address |
| (C0) | ADDRESS | 4 | DFHZRSYA | 30 RESYNC module address |
| (C4) | ADDRESS | 4 | DFHZSAXA | 31 Send asynchronous exit address |
| (C8) | ADDRESS | 4 | DFHZSCXA | 32 SCIP exit module address |
| (CC) | ADDRESS | 4 | DFHZSDAA | 33 Send asynchronous command module address |
| (D0) | ADDRESS | 4 | DFHZSKRA | 34 Send command response address |
| (D4) | ADDRESS | 4 | DFHZSESA | 35 SESSIONC command module address |
| (D8) | ADDRESS | 4 | DFHZSEXA | 36 SESSIONC exit module address |
| (DC) | ADDRESS | 4 | DFHZSIMA | 37 SIMLOGON module address |

Table 849. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|------------|--|
| (E0) | ADDRESS | 4 | DFHZSIXA | 38 SIMLOGON exit module address |
| (E4) | ADDRESS | 4 | DFHZSLSA | 39 SETLOGON start module address |
| (E8) | ADDRESS | 4 | DFHZSSXA | 3A Send synchronous command exit address |
| (EC) | ADDRESS | 4 | DFHZSYXA | 3B SYNAD exit module address |
| (F0) | ADDRESS | 4 | DFHZTAXA | 3C TURNAROUND module address |
| (F4) | ADDRESS | 4 | DFHZTPXA | 3D TPEND exit module address |
| (F8) | ADDRESS | 4 | DFHZOPAA | 3E VTAM open ACB module address |
| (FC) | ADDRESS | 4 | DFHZSHUA | 3F SHUTDOWN/ RESERVED module address |
| (100) | ADDRESS | 4 | DFHZQUEA | 40 Process queue module address |
| (104) | ADDRESS | 4 | DFHZEMWA | 41 Error message module address |
| (108) | ADDRESS | 4 | DFHZSYNA | 42 SYNCHPOINT module address |
| (10C) | ADDRESS | 4 | DFHZTRAA | 43 ZCP RPL trace module address |
| (110) | ADDRESS | 4 | DFHZANDA | 44 Abend control block module |
| (114) | ADDRESS | 4 | DFHZCNAA | 45 Console control module |
| (118) | ADDRESS | 4 | DFHZCNRA | 46 Console request module |
| (11C) | ADDRESS | 4 | DFHZCNCA | 47 Console abnormal condition module |
| (120) | ADDRESS | 4 | DFHZUAXA | 48 Attach user exit |
| (124) | ADDRESS | 4 | DFHZUOXA | 49 Output user exit |
| (128) | ADDRESS | 4 | DFHZARLA | 4A LU6.2 APPL request module |
| (12C) | ADDRESS | 4 | DFHZARMA | 4B LU6.2 migration module |
| (130) | ADDRESS | 4 | DFHZRVLA | 4C LU6.2 RECV pre-vtam module |
| (134) | ADDRESS | 4 | DFHZRLXA | 4D LU6.2 RECV exit module |
| (138) | ADDRESS | 4 | DFHZSDLA | 4E LU6.2 SEND module |
| (13C) | ADDRESS | 4 | DFHZSLXA | 4F LU6.2 SEND exit module |
| (140) | ADDRESS | 4 | DFHZERHA | 50 LU6.2 APPL ERP module |
| (144) | ADDRESS | 4 | DFHZLUSA | 51 LU6.2 LU services module |
| (148) | ADDRESS | 4 | DFHZBKTA | 52 LU6.2 Bracket state machine |

Table 849. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|----------|-----|------------|---------------------------------|
| (14C) | ADDRESS | 4 | DFHZCNTA | 53 LU6.2 Contention state |
| (150) | ADDRESS | 4 | DFHZCHSA | 54 LU6.2 Chain send |
| (154) | ADDRESS | 4 | DFHZCHRA | 55 LU6.2 Chain receive |
| (158) | ADDRESS | 4 | DFHZUSRA | 56 LU6.2 Conversation state |
| (15C) | ADDRESS | 4 | DFHZDSTA | 57 SNA-ASCII Translation module |
| (160) | ADDRESS | 4 | DFHZEV1A | 58 Encryption validation 1 |
| (164) | ADDRESS | 4 | DFHZEV2A | 59 Encryption validation 2 |
| (168) | ADDRESS | 4 | | 5A Reserved |
| (16C) | ADDRESS | 4 | | 5B Reserved |
| (170) | ADDRESS | 4 | | 5C Reserved |
| (174) | ADDRESS | 4 | | 5D Reserved |
| (178) | ADDRESS | 4 | DFHZXRCA | 5E XRF terminal recovery |
| (17C) | ADDRESS | 4 | | 5F Reserved |
| (180) | ADDRESS | 4 | DFHZXRLA | 60 LU6.2 Transaction Routing |
| (184) | ADDRESS | 4 | DFHZINTA | 61 Initialisation Module |
| (188) | ADDRESS | 4 | | 62 Reserved |
| (18C) | ADDRESS | 4 | DFHZSTAA | 63 LU6.2 Application State |
| (190) | ADDRESS | 4 | DFHZRLPA | 64 LU6.2 RECV post-vtam module |
| (194) | ADDRESS | 4 | DFHZCRTA | 65 LU6.2 RPL_B state |
| (198) | ADDRESS | 4 | DFHZRASA | 66 LU 6.2 flooding module |
| (19C) | ADDRESS | 4 | DFHZXPSA | 67 PRSS APPC recovery |
| If you add extra modules at this point dont forget to change DFHSIF1 MODLMAX field. Also add them in pairs because of the double word boundary below. | | | | |
| (1A0) | DBL WORD | 8 | (0) | |
| (1A0) | | 0 | ZEPDLEN | "*-DFHZEPD" Total length |
| (1A0) | | 0 | ZEPDLENV | "ZEPDLEN-ZEPDLENC" VTAM length |

ZGDC - Domain subroutine equates

Constants

Table 850.

| Len | Type | Value | Name | Description |
|--|------|-------|--------------------------------|-------------|
| <pre> ===== CONTROL BLOCK NAME = DFHZGDCC DESCRIPTIVE NAME = CICS TS ZC domain subroutine constants Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1992, 2005 STATUS = 6.9.0 FUNCTION = To contain constants in use by ZG domain subroutines such as trace point IDs and recovery routine constants. LIFETIME = STORAGE CLASS = INNER CONTROL BLOCKS = NOTES : DEPENDENCIES = S/370 RESTRICTIONS = MODULE TYPE = Control block definition PROCESSOR = PL/X ===== EXTERNAL REFERENCES = DATA AREAS = CONTROL BLOCKS = GLOBAL VARIABLES (Macro pass) = ===== ===== Trace point identifiers ===== DFHZCN1 </pre> | | | | |
| 2 | HEX | 3000 | TID_ZCN1_ENTRY | |
| 2 | HEX | 3001 | TID_ZCN1_EXIT | |
| 2 | HEX | 3002 | TID_ZCN1_INVALID_ FUNCTION | |
| 2 | HEX | 3003 | TID_ZCN1_PROTOCOL_ VIOLATION | |
| 2 | HEX | 3004 | TID_ZCN1_DATA_LENGTH_ ERROR | |
| 2 | HEX | 3005 | TID_ZCN1_ZCN2_INSTALL_ ERROR | |
| 2 | HEX | 3006 | TID_ZCN1_ZCN2_ UNINSTALL_ERROR | |
| | | | | |
| 2 | HEX | 3007 | TID_ZCN1_DISASTER | |
| 2 | HEX | 3008 | TID_ZCN1_INVALID_ START_TYPE | |
| 2 | HEX | 300A | TID_ZCN1_INSTALL_ CANCELLED | |
| 2 | HEX | 300B | TID_ZCN1_INVALID_ VERSION | |
| | | | | |
| 2 | HEX | 300C | TID_ZCN1_INVALID_ PRINC_FAC | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|---------|------|-------|-----------------------------|-------------|
| 2 | HEX | 300D | TID_ZCN1_INVALID_GROUP | |
| | | | | |
| 2 | HEX | 300E | TID_ZCN1_INVALID_DATA | |
| | | | | |
| 2 | HEX | 300F | TID_ZCN1_NO_CODEPAGE | |
| 2 | HEX | 3040 | TID_ZCN1_NO_CAPABILITIES | |
| | | | | |
| 2 | HEX | 3041 | TID_ZCN1_CCIN_REMOTE | |
| 2 | HEX | 3042 | TID_ZCN1_COND_ENQ_FAILED | |
| DFHZCN2 | | | | |
| 2 | HEX | 3010 | TID_ZCN2_ENTRY | |
| 2 | HEX | 3011 | TID_ZCN2_EXIT | |
| 2 | HEX | 3014 | TID_ZCN2_INVALID_FUNCTION | |
| 2 | HEX | 3016 | TID_ZCN2_RECOVERY_ENTERED | |
| 2 | HEX | 3017 | TID_ZCN2_ACQ_PROG_FAILED | |
| | | | | |
| 2 | HEX | 3018 | TID_ZCN2_CDTS_ATTACH_FAILED | |
| 2 | HEX | 3019 | TID_ZCN2_CDTS_TIMEOUT | |
| | | | | |
| 2 | HEX | 301A | TID_ZCN2_INVALID_CAPS | |
| | | | | |
| 2 | HEX | 301C | TID_ZCN2_DEL_SURROG_BUSY | |
| | | | | |
| DFHZCT1 | | | | |
| 2 | HEX | 3020 | TID_ZCT1_ENTRY | |
| 2 | HEX | 3021 | TID_ZCT1_EXIT | |
| 2 | HEX | 3022 | TID_ZCT1_RECEIVE_FAILED | |
| | | | | |
| 2 | HEX | 3023 | TID_ZCT1_INPUT_DATA | |
| 2 | HEX | 3024 | TID_ZCT1_NOT_CLIENT | |
| 2 | HEX | 3025 | TID_ZCT1_CITS_ATTACH_FAILED | |
| 2 | HEX | 3026 | TID_ZCT1_DUP_FOUND | |
| 2 | HEX | 3027 | TID_ZCT1_CITS_TIMEOUT | |
| | | | | |
| 2 | HEX | 3028 | TID_ZCT1_CDTS_ATTACH_FAILED | |
| 2 | HEX | 3029 | TID_ZCT1_CDTS_TIMEOUT | |
| | | | | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|----------|------|-------|---------------------------------|-------------|
| 2 | HEX | 302A | TID_ZCT1_INVALID_ START_TYPE | |
| 2 | HEX | 302B | TID_ZCT1_INVALID_SYNC_ LEVEL | |
| 2 | HEX | 302C | TID_ZCT1_LOGIC_ERROR | |
| 2 | HEX | 302D | TID_ZCT1_DATA_LENGTH_ ERROR | |
| 2 | HEX | 302E | TID_ZCT1_INS_SURROG_ BUSY | |
| | | | | |
| 2 | HEX | 302F | TID_ZCT1_DEL_SURROG_ BUSY | |
| | | | | |
| 2 | HEX | 3030 | TID_ZCT1_CITS_ABEND | |
| 2 | HEX | 3031 | TID_ZCT1_GET_BPS_ FAILED | |
| | | | | |
| 2 | HEX | 3032 | TID_ZCT1_INVALID_ PRINC_FAC | |
| 2 | HEX | 3033 | TID_ZCT1_INVALID_DATA | |
| | | | | |
| 2 | HEX | 3034 | TID_ZCT1_INVALID_ FUNCTION | |
| 2 | HEX | 3035 | TID_ZCT1_INVALID_ CODEPAGE | |
| 2 | HEX | 3036 | TID_ZCT1_WRONG_VERSION | |
| | | | | |
| 2 | HEX | 3037 | TID_ZCT1_NETNAME_ MISSING | |
| | | | | |
| 2 | HEX | 3038 | TID_ZCT1_CODEPAGE_ CONVERSION_F | |
| | | | | |
| 2 | HEX | 3039 | TID_ZCT1_CTIN_REMOTE | |
| DFHCCNV3 | | | | |
| 2 | HEX | 3050 | TID_CCNV3_CHK_CL_CP_ ENTRY | |
| 2 | HEX | 3051 | TID_CCNV3_CHK_CL_CP_ EXIT | |
| | | | | |
| 2 | HEX | 3052 | TID_CCNV3_CHK_CONV_ SUP_ENTRY | |
| 2 | HEX | 3053 | TID_CCNV3_CHK_CONV_ SUP_EXIT | |
| 2 | HEX | 3054 | TID_CCNV3_ENTRY | |
| 2 | HEX | 3055 | TID_CCNV3_EXIT | |
| 2 | HEX | 3056 | TID_CCNV3_INV_FUNCTION | |
| | | | | |
| 2 | HEX | 3057 | TID_CCNV3_3270_ENTRY | |
| 2 | HEX | 3058 | TID_CCNV3_DS3270_ENTRY | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|----------------------------------|-------------|
| 2 | HEX | 3059 | TID_CCNV3_DS3270_EXIT | |
| 2 | HEX | 305A | TID_CCNV3_3270_EXIT | |
| 2 | HEX | 305B | TID_CCNV3_3270_LEN_ ZERO | |
| 2 | HEX | 305C | TID_CCNV3_BAD_TARGET | |
| 2 | HEX | 305D | TID_CCNV3_TOKEN_CKR_ BAD | |
| 2 | HEX | 305E | TID_CCNV3_TOKEN_CLX_ BAD | |
| 2 | HEX | 305F | TID_CCNV3_TOKEN_SRX_ BAD | |
| 2 | HEX | 3060 | TID_CCNV3_SBCSTOK_ CHAR_BAD | |
| 2 | HEX | 3061 | TID_CCNV3_3270_SBA_BAD | |
| 2 | HEX | 3062 | TID_CCNV3_3270_SF_BAD | |
| 2 | HEX | 3063 | TID_CCNV3_3270_SFEMF_ BAD | |
| 2 | HEX | 3064 | TID_CCNV3_3270_SA_BAD | |
| 2 | HEX | 3065 | TID_CCNV3_3270_RA_BAD | |
| 2 | HEX | 3066 | TID_CCNV3_3270_GE_ UNSUP | |
| 2 | HEX | 3067 | TID_CCNV3_3270_EUA_BAD | |
| 2 | HEX | 3068 | TID_CCNV3_AID3270_ ENTRY | |
| 2 | HEX | 3069 | TID_CCNV3_AID3270_EXIT | |
| 2 | HEX | 306A | TID_CCNV3_BAD_AID_ TARGET | |
| 2 | HEX | 306B | TID_CCNV3_FREE_CONV_ TOKEN_ENTRY | |
| 2 | HEX | 306C | TID_CCNV3_FREE_CONV_ TOKEN_EXIT | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|---------|------|-------|---------------------------------|-------------|
| | | | | |
| 2 | HEX | 306D | TID_CCNV3_GETMAIN_ FAILURE | |
| 2 | HEX | 306E | TID_CCNV3_FREEMAIN_ FAILURE | |
| 2 | HEX | 306F | TID_CCNV3_SBA_TOO_HIGH | |
| | | | | |
| 2 | HEX | 3070 | TID_CCNV3_DBCS_MAP_ BEFORE | |
| 2 | HEX | 3071 | TID_CCNV3_DBCS_MAP_ AFTER | |
| | | | | |
| 2 | HEX | 3072 | TID_CCNV3_GET_CONV_ TOKEN_ENTRY | |
| | | | | |
| 2 | HEX | 3073 | TID_CCNV3_GET_CONV_ TOKEN_EXIT | |
| | | | | |
| 2 | HEX | 3074 | TID_CCNV3_TOKEN_ADDR_ BAD | |
| | | | | |
| 2 | HEX | 3075 | TID_CCNV3_3270_CONV_ LEN_ZERO | |
| DFHZGAI | | | | |
| 2 | HEX | FA00 | TID_ZGAI_ENTRY | |
| 2 | HEX | FA01 | TID_ZGAI_EXIT | |
| 2 | HEX | FA02 | TID_ZGAI_INVALID_ FORMAT | |
| | | | | |
| 2 | HEX | FA03 | TID_ZGAI_INVALID_ FUNCTION | |
| 2 | HEX | FA04 | TID_ZGAI_RECOVERY_ ENTERED | |
| 2 | HEX | FA05 | TID_ZGAI_USEREXIT_ ENTRY | |
| | | | | |
| 2 | HEX | FA06 | TID_ZGAI_USEREXIT_EXIT | |
| | | | | |
| 2 | HEX | FA07 | TID_ZGAI_USER_VETOED | |
| 2 | HEX | FA08 | TID_ZGAI_NO_TEMPLATE_ SUPPLIED | |
| | | | | |
| 2 | HEX | FA09 | TID_ZGAI_SYSID_INVALID | |
| | | | | |
| 2 | HEX | FA0A | TID_ZGAI_SYSID_ ALREADY_EXISTS | |
| | | | | |
| 2 | HEX | FA0B | TID_ZGAI_TEMPLATEN_ NOT_FOUND | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|-----------------------------------|-------------|
| 2 | HEX | FA0C | TID_ZGAI_TEMPLATES_ NOT_FOUND | |
| 2 | HEX | FA0D | TID_ZGAI_NOT_APPC_ TEMPLATE | |
| 2 | HEX | FA0E | TID_ZGAI_TEMPLATE_NOT_ PS | |
| | | | | |
| 2 | HEX | FA0F | TID_ZGAI_TEMPLATE_NOT_ SS | |
| | | | | |
| 2 | HEX | FA10 | TID_ZGAI_MODENAME_ MISMATCH | |
| 2 | HEX | FA11 | TID_ZGAI_SYSID_ INQUIRE_FAILED | |
| | | | | |
| 2 | HEX | FA12 | TID_ZGAI_SESSION_ INQUIRE_FAILED | |
| | | | | |
| 2 | HEX | FA13 | TID_ZGAI_TEMPLATE_NO_ MODEGROUP | |
| | | | | |
| 2 | HEX | FA14 | TID_ZGAI_OUT_OF_ SERVICE | |
| | | | | |
| 2 | HEX | FA15 | TID_ZGAI_BINDUD_ PLUNAME_MISSING | |
| | | | | |
| 2 | HEX | FA16 | TID_ZGAI_BINDUD_ MODENAME_MISSING | |
| | | | | |
| 2 | HEX | FA18 | TID_ZGAI_SESSID_ MISSING | |
| | | | | |
| 2 | HEX | FA19 | TID_ZGAI_PLUNAME_ MISSING | |
| | | | | |
| 2 | HEX | FA1A | TID_ZGAI_PLU_EQ_SLU | |
| 2 | HEX | FA1B | TID_ZGAI_SEED_EXPECTED | |
| | | | | |
| 2 | HEX | FA1C | TID_ZGAI_SEED_LONG | |
| 2 | HEX | FA1D | TID_ZGAI_SEED_ UNEXPECTED | |
| | | | | |
| 2 | HEX | FA1E | TID_ZGAI_NOT_ NEGOTIABLE | |
| | | | | |
| 2 | HEX | FA1F | TID_ZGAI_1RY_RU_0 | |
| 2 | HEX | FA20 | TID_ZGAI_2RY_RU_0 | |
| 2 | HEX | FA21 | TID_ZGAI_ACC_SEC_ INVALID | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|---------|------|-------|-----------------------------|-------------|
| 2 | HEX | FA22 | TID_ZGAI_SEED_AND_NONCE | |
| 2 | HEX | FA23 | TID_ZGAI_NONCE_LENGTH | |
| 2 | HEX | FA24 | TID_ZGAI_NONCE_REQUIRED | |
| 2 | HEX | FA25 | TID_ZGAI_MECHANISM_SHORT | |
| 2 | HEX | FA26 | TID_ZGAI_NO_MECHANISMS | |
| 2 | HEX | FA27 | TID_ZGAI_MECHANISM_REQUIRED | |
| DFHZGXA | | | | |
| 2 | HEX | FA30 | TID_ZGXA_ENTRY | |
| 2 | HEX | FA31 | TID_ZGXA_EXIT | |
| 2 | HEX | FA32 | TID_ZGXA_INVALID_FORMAT | |
| 2 | HEX | FA33 | TID_ZGXA_INVALID_FUNCTION | |
| 2 | HEX | FA34 | TID_ZGXA_RECOVERY_ENTERED | |
| 2 | HEX | FA35 | TID_ZGXA_12F6_MISSING | |
| 2 | HEX | FA36 | TID_ZGXA_12F6 LENGERR | |
| 2 | HEX | FA37 | TID_ZGXA_RECEIVE_FAILED | |
| 2 | HEX | FA38 | TID_ZGXA_FF80_MISSING | |
| 2 | HEX | FA39 | TID_ZGXA_FF80 LENGERR | |
| 2 | HEX | FA3A | TID_ZGXA_FF80_MECH_ID_ERR | |
| 2 | HEX | FA3B | TID_ZGXA_FF81_MISSING | |
| 2 | HEX | FA3C | TID_ZGXA_FF81 LENGERR | |
| 2 | HEX | FA3D | TID_ZGXA_DELEG_NO_TICKET | |
| 2 | HEX | FA3E | TID_ZGXA_FF82 LENGERR | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|---------|------|-------|-------------------------------------|-------------|
| 2 | HEX | FA3F | TID_ZGXA_FF83_LENGERR | |
| | | | | |
| 2 | HEX | FA40 | TID_ZGXA_FF84_LENGERR | |
| | | | | |
| 2 | HEX | FA41 | TID_ZGXA_DUPLICATE_ SUBFIELD | |
| 2 | HEX | FA42 | TID_ZGXA_INVALID_ SUBFIELD | |
| 2 | HEX | FA43 | TID_ZGXA_TICKET_NO_ AUTH | |
| | | | | |
| 2 | HEX | FA44 | TID_ZGXA_AUTH_REQD_BY_ USER | |
| 2 | HEX | FA45 | TID_ZGXA_TICKET_ MISSING | |
| | | | | |
| 2 | HEX | FA46 | TID_ZGXA_INVALID_ TICKET | |
| | | | | |
| 2 | HEX | FA47 | TID_ZGXA_SERVICE_ TICKET_EXPIRED | |
| | | | | |
| 2 | HEX | FA48 | TID_ZGXA_INVALID_ AUTHENTICATOR | |
| | | | | |
| 2 | HEX | FA49 | TID_ZGXA_SIGNON_FAILED | |
| | | | | |
| 2 | HEX | FA4A | TID_ZGXA_FMH5_12F6_OUT | |
| | | | | |
| 2 | HEX | FA4B | TID_ZGXA_12F6_IN | |
| 2 | HEX | FA4C | TID_ZGXA_SENDBUF_TOO_ SMALL | |
| 2 | HEX | FA4D | TID_ZGXA_SEND_FAILED | |
| 2 | HEX | FA4E | TID_ZGXA_MUTUAL_NO_ AUTH | |
| | | | | |
| 2 | HEX | FA4F | TID_ZGXA_DAISY_CHAIN_ ERROR1 | |
| DFHZGCH | | | | |
| 2 | HEX | FA50 | TID_ZGCH_ENTRY | |
| 2 | HEX | FA51 | TID_ZGCH_EXIT | |
| 2 | HEX | FA52 | TID_ZGCH_BEFORE_ CHANGE_MACRO | |
| 2 | HEX | FA53 | TID_ZGCH_AFTER_CHANGE_ MACRO | |
| 2 | HEX | FA54 | TID_ZGCH_CHANGE_MACRO_ FAILED | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|---------|------|-------|-----------------------------|-------------|
| 2 | HEX | FA55 | TID_ZGCH_RECOVERY_ ENTERED | |
| 2 | HEX | FA56 | TID_ZGCH_ENDAFFIN_ REJECTED | |
| 2 | HEX | FA57 | TID_ZGCH_INVALID_ FORMAT | |
| | | | | |
| 2 | HEX | FA58 | TID_ZGCH_INVALID_ FUNCTION | |
| 2 | HEX | FA59 | TID_ZGCH_ZGTA_FAILED | |
| DFHZGTI | | | | |
| 2 | HEX | FA60 | TID_ZGTI_ENTRY | |
| 2 | HEX | FA61 | TID_ZGTI_EXIT | |
| 2 | HEX | FA62 | TID_ZGTI_INVALID_ FORMAT | |
| | | | | |
| 2 | HEX | FA63 | TID_ZGTI_INVALID_ FUNCTION | |
| 2 | HEX | FA64 | TID_ZGTI_RECOVERY_ ENTERED | |
| 2 | HEX | FA65 | TID_ZGTI_TERMID_ INVALID | |
| | | | | |
| 2 | HEX | FA66 | TID_ZGTI_SYSID_INVALID | |
| | | | | |
| 2 | HEX | FA67 | TID_ZGTI_NETNAME_ INVALID | |
| | | | | |
| 2 | HEX | FA68 | TID_ZGTI_TOKEN_INVALID | |
| | | | | |
| 2 | HEX | FA69 | TID_ZGTI_TMP_ERROR | |
| 2 | HEX | FA6A | TID_ZGTI_DOMAIN_ INVALID | |
| | | | | |
| 2 | HEX | FA6B | TID_ZGTI_INVALID_VTAM_ ONLY | |
| 2 | HEX | FA6C | TID_ZGTI_UNIQUE_ INVALID | |
| | | | | |
| 2 | HEX | FA6D | TID_ZGTI_GETMAIN_ FAILED | |
| | | | | |
| 2 | HEX | FA6E | TID_ZGTI_FREEMAIN_ FAILED | |
| | | | | |
| 2 | HEX | FA6F | TID_ZGTI_PURGED | |
| 2 | HEX | FA70 | TID_ZGTI_ISYSID_ INVALID | |
| | | | | |
| 2 | HEX | FA71 | TID_ZGTI_RSYSID_ INVALID | |
| | | | | |
| 2 | HEX | FA72 | TID_ZGTI_MBRNAME_ INVALID | |
| | | | | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|---------|------|-------|-----------------------------|-------------|
| DFHZGTA | | | | |
| 2 | HEX | FA80 | TID_ZGTA_ENTRY | |
| 2 | HEX | FA81 | TID_ZGTA_EXIT | |
| 2 | HEX | FA82 | TID_ZGTA_INVALID_ FORMAT | |
| | | | | |
| 2 | HEX | FA83 | TID_ZGTA_INVALID_ FUNCTION | |
| 2 | HEX | FA84 | TID_ZGTA_RECOVERY_ ENTERED | |
| 2 | HEX | FA85 | TID_ZGTA_TERMID_ INVALID | |
| | | | | |
| 2 | HEX | FA86 | TID_ZGTA_SYSID_ INVALID | |
| | | | | |
| 2 | HEX | FA87 | TID_ZGTA_NETNAME_ INVALID | |
| | | | | |
| 2 | HEX | FA88 | TID_ZGTA_ISYSID_ INVALID | |
| | | | | |
| 2 | HEX | FA89 | TID_ZGTA_UNIQUE_ INVALID | |
| | | | | |
| 2 | HEX | FA8A | TID_ZGTA_RSYSID_ INVALID | |
| | | | | |
| 2 | HEX | FA8B | TID_ZGTA_TMP_ ERROR | |
| 2 | HEX | FA8C | TID_ZGTA_DOMAIN_ INVALID | |
| | | | | |
| 2 | HEX | FA8D | TID_ZGTA_PURGED | |
| 2 | HEX | FA8E | TID_ZGTA_ERROR | |
| 2 | HEX | FA8F | TID_ZGTA_DISASTER | |
| 2 | HEX | FA90 | TID_ZGTA_INVALID_RRAB | |
| | | | | |
| 2 | HEX | FA91 | TID_ZGTA_INQ_FAILED | |
| 2 | HEX | FA92 | TID_ZGTA_RDUB_GET | |
| 2 | HEX | FA93 | TID_ZGTA_RDUB_FREE | |
| 2 | HEX | FA94 | TID_ZGTA_INVALID_RDAB | |
| | | | | |
| 2 | HEX | FA95 | TID_ZGTA_INVALID_RDUB | |
| | | | | |
| 2 | HEX | FA96 | TID_ZGTA_UNKNOWN_RRAB_ RESP | |
| 2 | HEX | FA97 | TID_ZGTA_NO_RRAB | |
| 2 | HEX | FA98 | TID_ZGTA_ZGTI_ERROR | |
| 2 | HEX | FA99 | TID_ZGTA_MBRNAME_ INVALID | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|-----------|------|-------|--------------------------------------|-------------|
| 2 | HEX | FA9A | TID_ZGTA_MBRNAME_ERROR | |
| DFHZGIN | | | | |
| 2 | HEX | FAB0 | TID_ZGIN_ENTRY | |
| 2 | HEX | FAB1 | TID_ZGIN_EXIT | |
| 2 | HEX | FAB2 | TID_ZGIN_BEFORE_ INQUIRE_MACRO | |
| 2 | HEX | FAB3 | TID_ZGIN_AFTER_ INQUIRE_MACRO | |
| 2 | HEX | FAB4 | TID_ZGIN_INQUIRE_NQN_ FAILED | |
| 2 | HEX | FAB5 | TID_ZGIN_INQUIRE_ SESSNAME_FAILED | |
| 2 | HEX | FAB6 | TID_ZGIN_RECOVERY_ ENTERED | |
| 2 | HEX | FAB7 | TID_ZGIN_NQN_REJECTED | |
| 2 | HEX | FAB8 | TID_ZGIN_SESSNAME_ REJECTED | |
| 2 | HEX | FAB9 | TID_ZGIN_INVALID_ FORMAT | |
| 2 | HEX | FABA | TID_ZGIN_INVALID_ FUNCTION | |
| DFHZGBM | | | | |
| 2 | HEX | FB00 | TID_ZGBM_ENTRY | |
| 2 | HEX | FB01 | TID_ZGBM_EXIT | |
| 2 | HEX | FB03 | TID_ZGBM_INVALID_ FUNCTION | |
| 2 | HEX | FB04 | TID_ZGBM_RECOVERY_ ENTERED | |
| 2 | HEX | FB05 | TID_ZGBM_BITMAP_ INVALID | |
| 2 | HEX | FB06 | TID_ZGBM_SESSION_NAME_ INVALID | |
| DFHTCRP ! | | | | |
| 2 | HEX | FB07 | TID_TCRP_NO_BITMAP_STG | |
| 2 | HEX | FB08 | TID_TCRP_ENTRY | |
| 2 | HEX | FB09 | TID_TCRP_EXIT | |
| 2 | HEX | FB0A | TID_TCRP_RECOVERY_ ENTERED | |
| DFHZGRP | | | | |
| 2 | HEX | FB10 | TID_ZGRP_ENTRY | |
| 2 | HEX | FB11 | TID_ZGRP_EXIT | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|-----|------|-------|----------------------------------|-------------|
| 2 | HEX | FB12 | TID_ZGRP_QR_SWITCH_ FAILED | |
| 2 | HEX | FB13 | TID_ZGRP_INQ_INSUFF_ STORAGE | |
| 2 | HEX | FB14 | TID_ZGRP_RECOVERY_ ENTERED | |
| 2 | HEX | FB15 | TID_ZGRP_OPNDST_ INSUFF_STORAGE | |
| 2 | HEX | FB16 | TID_ZGRP_RPL_INSUFF_ STORAGE | |
| 2 | HEX | FB17 | TID_ZGRP_INVALID_ FORMAT | |
| 2 | HEX | FB18 | TID_ZGRP_INVALID_ FUNCTION | |
| 2 | HEX | FB19 | TID_ZGRP_INVALID_ STARTUP_TYPE | |
| 2 | HEX | FB1A | TID_ZGRP_VTAM_SOS | |
| 2 | HEX | FB1B | TID_ZGRP_INQUIRE_ FAILED | |
| 2 | HEX | FB1C | TID_ZGRP_INQUIRE_ACB_ CLOSED | |
| 2 | HEX | FB1D | TID_ZGRP_OPNDST_ACB_ CLOSED | |
| 2 | HEX | FB1E | TID_ZGRP_UNBIND_ERROR | |
| 2 | HEX | FB1F | TID_ZGRP_BIND_INVALID | |
| 2 | HEX | FB20 | TID_ZGRP_OPNDST_FAILED | |
| 2 | HEX | FB21 | TID_ZGRP_NO_STORAGE_ OPNDST_APPC | |
| 2 | HEX | FB22 | TID_ZGRP_NO_STORAGE_ OPNDST | |
| 2 | HEX | FB23 | TID_ZGRP_RA_FAILED | |
| 2 | HEX | FB24 | TID_ZGRP_NIB | |
| 2 | HEX | FB25 | TID_ZGRP_NIB_MISMATCH | |
| 2 | HEX | FB26 | TID_ZGRP_RA_GETMAIN_ FAILED | |
| 2 | HEX | FB27 | TID_ZGRP_BEFORE_ INQUIRE_COUNTS | |
| 2 | HEX | FB28 | TID_ZGRP_AFTER_ INQUIRE_COUNTS | |
| 2 | HEX | FB29 | TID_ZGRP_BEFORE_ INQUIRE_PERSESS | |
| 2 | HEX | FB2A | TID_ZGRP_AFTER_ INQUIRE_PERSESS | |
| 2 | HEX | FB2B | TID_ZGRP_BEFORE_OPNDST | |
| 2 | HEX | FB2C | TID_ZGRP_AFTER_OPNDST | |
| 2 | HEX | FB2D | TID_ZGRP_BEFORE_RA | |
| 2 | HEX | FB2E | TID_ZGRP_AFTER_RA | |
| 2 | HEX | FB2F | TID_ZGRP_BEFORE_INQ_ EXECRPL | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|----------|------|-------|---------------------------------|-------------|
| 2 | HEX | FB30 | TID_ZGRP_AFTER_INQ_ EXECRPL | |
| 2 | HEX | FB31 | TID_ZGRP_BEFORE_OPN_ EXECRPL | |
| 2 | HEX | FB32 | TID_ZGRP_AFTER_OPN_ EXECRPL | |
| 2 | HEX | FB33 | TID_ZGRP_BEFORE_RA_ EXECRPL | |
| 2 | HEX | FB34 | TID_ZGRP_AFTER_RA_ EXECRPL | |
| 2 | HEX | FB35 | TID_ZGRP_MBRNAME_ERROR | |
| DFHZCGRP | | | | |
| 2 | HEX | FB38 | TID_ZCGRP_ENTRY | |
| 2 | HEX | FB39 | TID_ZCGRP_EXIT | |
| DFHZRTP | | | | |
| 2 | HEX | FB3A | TID_ZRTP_ENTRY | |
| 2 | HEX | FB3B | TID_ZRTP_EXIT | |
| 2 | HEX | FB3C | TID_ZRTP_CATALOG_ERROR | |
| | | | | |
| 2 | HEX | FB3D | TID_ZRTP_INVALID_ START_TYPE | |
| DFHZGUB | | | | |
| 2 | HEX | FB40 | TID_ZGUB_ENTRY | |
| 2 | HEX | FB41 | TID_ZGUB_EXIT | |
| 2 | HEX | FB42 | TID_ZGUB_INVALID_ FORMAT | |
| 2 | HEX | FB43 | TID_ZGUB_RECOVERY_ ENTERED | |
| 2 | HEX | FB44 | TID_ZGUB_INVALID_ FUNCTION | |
| 2 | HEX | FB45 | TID_ZGUB_ACB_CLOSED | |
| 2 | HEX | FB46 | TID_ZGUB_UNBIND_FAILED | |
| 2 | HEX | FB47 | TID_ZGUB_VTAM_SOS | |
| 2 | HEX | FB48 | TID_ZGUB_UNBIND_ERROR | |
| 2 | HEX | FB49 | TID_ZGUB_BEFORE_CLSDST | |
| 2 | HEX | FB4A | TID_ZGUB_AFTER_CLSDST | |
| 2 | HEX | FB4B | TID_ZGUB_BEFORE_ TERMSSESS | |
| 2 | HEX | FB4C | TID_ZGUB_AFTER_ TERMSSESS | |
| 2 | HEX | FB4D | TID_ZGUB_BEFORE_ UNBIND_EXECRPL | |
| 2 | HEX | FB4E | TID_ZGUB_AFTER_UNBIND_ EXECRPL | |
| DFHZGSL | | | | |
| 2 | HEX | FB50 | TID_ZGSL_ENTRY | |
| 2 | HEX | FB51 | TID_ZGSL_EXIT | |
| 2 | HEX | FB52 | TID_ZGSL_BEFORE_ SETLOGON_P | |
| 2 | HEX | FB53 | TID_ZGSL_AFTER_ SETLOGON_P | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|---------|------|-------|-----------------------------------|-------------|
| 2 | HEX | FB54 | TID_ZGSL_BEFORE_ SETLOGON_NP | |
| 2 | HEX | FB55 | TID_ZGSL_AFTER_ SETLOGON_NP | |
| 2 | HEX | FB57 | TID_ZGSL_RECOVERY_ ENTERED | |
| 2 | HEX | FB58 | TID_ZGSL_INVALID_ FUNCTION | |
| 2 | HEX | FB59 | TID_ZGSL_INVALID_ FORMAT | |
| 2 | HEX | FB5A | TID_ZGSL_INVALID_PSDI_ VALUE | |
| 2 | HEX | FB5B | TID_ZGSL_SETLOGON_ FAILED | |
| DFHZGCC | | | | |
| 2 | HEX | FB60 | TID_ZGCC_ENTRY | |
| 2 | HEX | FB61 | TID_ZGCC_EXIT | |
| 2 | HEX | FB62 | TID_ZGCC_INVALID_ FORMAT | |
| | | | | |
| 2 | HEX | FB63 | TID_ZGCC_INVALID_ FUNCTION | |
| 2 | HEX | FB64 | TID_ZGCC_RECOVERY_ ENTERED | |
| DFHZGPC | | | | |
| 2 | HEX | FB65 | TID_ZGPC_ENTRY | |
| 2 | HEX | FB66 | TID_ZGPC_EXIT | |
| 2 | HEX | FB67 | TID_ZGPC_INVALID_ FORMAT | |
| | | | | |
| 2 | HEX | FB68 | TID_ZGPC_INVALID_ FUNCTION | |
| 2 | HEX | FB69 | TID_ZGPC_RECOVERY_ ENTERED | |
| 2 | HEX | FB6A | TID_ZGPC_BIND_MISMATCH | |
| | | | | |
| 2 | HEX | FB6B | TID_ZGPC_NO_SESSION_ AVAILABLE | |
| | | | | |
| DFHZXRC | | | | |
| 2 | HEX | FB70 | TID_ZXRC_V29_DATA | |
| DFHZGDA | | | | |
| 2 | HEX | FB71 | TID_ZGDA_ENTRY | |
| 2 | HEX | FB72 | TID_ZGDA_EXIT | |
| 2 | HEX | FB73 | TID_ZGDA_INVALID_ FUNCTION | |
| 2 | HEX | FB74 | TID_ZGDA_INVALID_ FORMAT | |
| | | | | |
| 2 | HEX | FB75 | TID_ZGDA_SENSE_088B_ RECEIVED | |
| 2 | HEX | FB76 | TID_ZGDA_INVALID_PRSS_ STATUS | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|--------------------------|------|-------|---------------------------------|-------------|
| 2 | HEX | FB77 | TID_ZGDA_RECEIVE_FAILED | |
| | | | | |
| 2 | HEX | FB78 | TID_ZGDA_UNEXPECTED_RESPONSE | |
| 2 | HEX | FB79 | TID_ZGDA_BAD_BRACKET_STATE_SEND | |
| | | | | |
| 2 | HEX | FB7A | TID_ZGDA_BAD_BRACKET_STATE_REC | |
| | | | | |
| 2 | HEX | FB7B | TID_ZGDA_NO_STORAGE_FMH7 | |
| | | | | |
| 2 | HEX | FB7C | TID_ZGDA_RECOVERY | |
| 2 | HEX | FB7D | TID_ZGDA_UNEXPECTED_BR_STATE | |
| 2 | HEX | FB7E | TID_ZGDA_INVALID_TCTTE_PTR | |
| 2 | HEX | FB7F | TID_ZGDA_RECOVERY_ENTERED | |
| 2 | HEX | FB80 | TID_ZGDA_UNEXPECTED_CH_STATE | |
| DFHZPCT | | | | |
| 2 | HEX | FB81 | TID_ZPCT_ENTRY | |
| 2 | HEX | FB82 | TID_ZPCT_EXIT | |
| 2 | HEX | FB83 | TID_ZPCT_INVALID_START_TYPE | |
| 2 | HEX | FB84 | TID_ZPCT_CATALOG_ERROR | |
| | | | | |
| DFHZGSL Generic resource | | | | |
| 2 | HEX | FB87 | TID_ZGSL_BEFORE_NIB_INIT | |
| | | | | |
| 2 | HEX | FB88 | TID_ZGSL_AFTER_NIB_INIT | |
| | | | | |
| 2 | HEX | FB89 | TID_ZGSL_BEFORE_ADD_GRNAME | |
| 2 | HEX | FB8A | TID_ZGSL_AFTER_ADD_GRNAME | |
| 2 | HEX | FB8B | TID_ZGSL_BEFORE_DELETE_GRNAME | |
| | | | | |
| 2 | HEX | FB8C | TID_ZGSL_AFTER_DELETE_GRNAME | |
| 2 | HEX | FB8D | TID_ZGSL_NIB_INIT_FAILED | |
| | | | | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|---------|------|-------|----------------------------------|-------------|
| 2 | HEX | FB8E | TID_ZGSL_ADD_GRNAME_FAILED | |
| 2 | HEX | FB8F | TID_ZGSL_DELETE_GRNAME_FAILED | |
| | | | | |
| DFHZLS1 | | | | |
| 2 | HEX | FB90 | TID_ZLS1_ENTRY | |
| 2 | HEX | FB91 | TID_ZLS1_EXIT | |
| 2 | HEX | FB92 | TID_ZLS1_INVALID_START_TYPE | |
| 2 | HEX | FB93 | TID_ZLS1_IC_GET_FAILED | |
| | | | | |
| 2 | HEX | FB94 | TID_ZLS1_INVALID_FORMAT | |
| | | | | |
| 2 | HEX | FB95 | TID_ZLS1_INVALID_FUNCTION | |
| 2 | HEX | FB96 | TID_ZLS1_NO_RECV_DATA | |
| | | | | |
| 2 | HEX | FB97 | TID_ZLS1_INVALID_RECV_DATA | |
| 2 | HEX | FB9E | TID_ZLS1_SHUTDOWN_AND_ACB_CLOSED | |
| | | | | |
| DFHZSGN | | | | |
| 2 | HEX | FB98 | TID_ZSGN_ENTRY | |
| 2 | HEX | FB99 | TID_ZSGN_EXIT | |
| 2 | HEX | FB9A | TID_ZSGN_INVALID_START_TYPE | |
| 2 | HEX | FB9B | TID_ZSGN_SIGNON_FAILED | |
| | | | | |
| 2 | HEX | FB9C | TID_ZSGN_CATALOG_ERROR | |
| | | | | |
| 2 | HEX | FB9D | TID_ZSGN_SIGNOFF_FAILED | |
| | | | | |
| DFHZGCN | | | | |
| 2 | HEX | FBA0 | TID_ZGCN_ENTRY | |
| 2 | HEX | FBA1 | TID_ZGCN_EXIT | |
| 2 | HEX | FBA2 | TID_ZGCN_ADD_LOCK_FAILED | |
| | | | | |
| 2 | HEX | FBA3 | TID_ZGCN_ALLOCATE_FAILED | |
| | | | | |
| 2 | HEX | FBA4 | TID_ZGCN_ALREADY_SHUT | |
| | | | | |
| 2 | HEX | FBA5 | TID_ZGCN_CNOS_IMPOSSIBLE | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|---------|------|-------|----------------------------|-------------|
| 2 | HEX | FBA6 | TID_ZGCN_GET_LOCK_FAILED | |
| 2 | HEX | FBA7 | TID_ZGCN_IN_SHUTDOWN | |
| 2 | HEX | FBA8 | TID_ZGCN_INVALID_FORMAT | |
| 2 | HEX | FBA9 | TID_ZGCN_INVALID_FUNCTION | |
| 2 | HEX | FBAA | TID_ZGCN_INVALID_MODENAME | |
| 2 | HEX | FBAB | TID_ZGCN_INVALID_SYSID | |
| 2 | HEX | FBAC | TID_ZGCN_NO_TCME_FOUND | |
| 2 | HEX | FBAD | TID_ZGCN_NO_TCTE_FOUND | |
| 2 | HEX | FBAE | TID_ZGCN_RACE_IN_SHUTDOWN | |
| 2 | HEX | FBAF | TID_ZGCN_RECEIVE_FAILED | |
| 2 | HEX | FBB0 | TID_ZGCN_RECOVERY_ENTERED | |
| 2 | HEX | FBB1 | TID_ZGCN_SEND_FAILED | |
| 2 | HEX | FBB2 | TID_ZGCN_SINGLE_SESS_ERROR | |
| 2 | HEX | FBB3 | TID_ZGCN_SYSID_NOT_FOUND | |
| 2 | HEX | FBB4 | TID_ZGCN_TCSE_ERROR | |
| 2 | HEX | FBB5 | TID_ZGCN_CNOS_COMMAND_OUT | |
| 2 | HEX | FBB6 | TID_ZGCN_CNOS_COMMAND_IN | |
| 2 | HEX | FBB7 | TID_ZGCN_CNOS_REPLY_OUT | |
| 2 | HEX | FBB8 | TID_ZGCN_CNOS_REPLY_IN | |
| 2 | HEX | FBB9 | TID_ZGCN_MODEGROUP_CHANGED | |
| DFHZGCA | | | | |
| 2 | HEX | FBC0 | TID_ZGCA_ENTRY | |
| 2 | HEX | FBC1 | TID_ZGCA_EXIT | |
| 2 | HEX | FBC2 | TID_ZGCA_ENTRY_LEVEL2 | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|---------|------|-------|---------------------------------|-------------|
| | | | | |
| 2 | HEX | FBC3 | TID_ZGCA_EXIT_LEVEL2 | |
| 2 | HEX | FBC4 | TID_ZGCA_CURRENT_COUNTS | |
| | | | | |
| 2 | HEX | FBC5 | TID_ZGCA_TC_MATRIX | |
| 2 | HEX | FBC6 | TID_ZGCA_RECOVERY_ENTERED | |
| 2 | HEX | FBC7 | TID_ZGCA_INVALID_FORMAT | |
| | | | | |
| 2 | HEX | FBC8 | TID_ZGCA_INVALID_FUNCTION | |
| 2 | HEX | FBC9 | TID_ZGCA_CHANGE_INCOMPLETE | |
| DFHZXPS | | | | |
| 2 | HEX | FBD0 | TID_ZXPS_ENTRY | |
| 2 | HEX | FBD1 | TID_ZXPS_EXIT | |
| 2 | HEX | FBD2 | TID_ZXPS_BAD_TCTEPRSS | |
| | | | | |
| 2 | HEX | FBD3 | TID_ZXPS_CV29_DATA_MISSING | |
| 2 | HEX | FBD4 | TID_ZXPS_INVALID_BIS_DATA | |
| 2 | HEX | FBD5 | TID_ZXPS_INVALID_BID_DATA | |
| 2 | HEX | FBD7 | TID_ZXPS_MISSING_BID_FLOW | |
| 2 | HEX | FBD8 | TID_ZXPS_INVALID_RUCAT | |
| | | | | |
| 2 | HEX | FBD9 | TID_ZXPS_INCONSISTENT_DATA_FLOW | |
| | | | | |
| 2 | HEX | FBDA | TID_ZXPS_UNIDENTIFIED_RESPONSE | |
| | | | | |
| 2 | HEX | FBDB | TID_ZXPS_UNKNOWN_COMMAND | |
| | | | | |
| 2 | HEX | FBDC | TID_ZXPS_UNEXPECTED_BIS_RESP | |
| 2 | HEX | FBDD | TID_ZXPS_UNKNOWN_CMD_RESPONSE | |
| | | | | |
| 2 | HEX | FBDE | TID_ZXPS_INVALID_BID_STATUS | |
| 2 | HEX | FBDF | TID_ZXPS_INVALID_ZGDA_MODE | |
| 2 | HEX | FBE0 | TID_ZXPS_INVALID_ZGDA_PARM | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|---------------|------|-------|--------------------------------------|-------------|
| 2 | HEX | FBE1 | TID_ZXPS_UNKNOWN_ STATE_AFTER_SIG | |
| | | | | |
| 2 | HEX | FBE4 | TID_ZXPS_RECOVERY_ ABANDONED | |
| 2 | HEX | FBE5 | TID_ZXPS_RESETSR_ FAILED | |
| | | | | |
| 2 | HEX | FBE6 | TID_ZXPS_TRACKING_ DATA_MISSING | |
| | | | | |
| 2 | HEX | FBE7 | TID_ZXPS_DOMAIN_CALL_ FAILED | |
| 2 | HEX | FBE9 | TID_ZXPS_CV29_TRACE | |
| 2 | HEX | FBEA | TID_ZXPS_NO_BIS_ RECOVERY | |
| | | | | |
| DFHZGPR | | | | |
| 2 | HEX | FBF0 | TID_ZGPR_ENTRY | |
| 2 | HEX | FBF1 | TID_ZGPR_EXIT | |
| 2 | HEX | FBF2 | TID_ZGPR_INVALID_ FORMAT | |
| | | | | |
| 2 | HEX | FBF3 | TID_ZGPR_INVALID_ FUNCTION | |
| 2 | HEX | FBF4 | TID_ZGPR_INVALID_TCSE_ PTR | |
| 2 | HEX | FBF5 | TID_ZGPR_INCR_CCCC_ ERROR | |
| | | | | |
| 2 | HEX | FBF6 | TID_ZGPR_DECR_CCCC_ ERROR | |
| | | | | |
| 2 | HEX | FBF7 | TID_ZGPR_INQ_CCCC_ ERROR | |
| | | | | |
| 2 | HEX | FBF8 | TID_ZGPR_RESET_CCCC_ ERROR | |
| 2 | HEX | FBF9 | TID_ZGPR_RECOVERY_ ENTERED | |
| extra DFHZGDA | | | | |
| 2 | HEX | FBFA | TID_ZGDA_REJ_ATT_INV_ CH_STATE | |
| | | | | |
| 2 | HEX | FBFB | TID_ZGDA_REJ_ATT_INV_ BR_STATE | |
| | | | | |
| 2 | HEX | FBFC | TID_ZGDA_SEND_FAILED | |
| extra DFHZXPS | | | | |
| 2 | HEX | FBFD | TID_ZXPS_REJ_ATT_ FAILED | |
| | | | | |

Table 850. (continued)

| Len | Type | Value | Name | Description |
|--|-----------|--------|------------------|-----------------------------|
| ===== Standard message constants ===== | | | | |
| 4 | DECIMAL | 1 | MNO_ABEND | |
| 8 | CHARACTER | ZC0001 | DCD_ABEND | |
| 4 | DECIMAL | 2 | MNO_SEVERE_ERROR | |
| 8 | CHARACTER | ZC0002 | DCD_SEVERE_ERROR | |
| 4 | DECIMAL | 3 | MNO_NO_STORAGE | |
| 8 | CHARACTER | ZC0003 | DCD_NO_STORAGE | |
| 2 | CHARACTER | ZC | COMPONENT_ID | |
| ===== Persistent session constants ===== | | | | |
| 4 | DECIMAL | 86399 | PSDI_MAX | 1 day in seconds less one ! |

ZGRP - Persistent Sessions control blocks

```

=====
CONTROL BLOCK NAME = DFHZGRPC
DESCRIPTIVE NAME = CICS TS PRSS initialisaton blocks
    Licensed Materials - Property of IBM
    Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1992, 1998
    The following control blocks are all created by DFHZGRP.
FUNCTION = PRSS_CV29
    This is SHARED CICS data which contains:
    CV29, FMH5, BIS and BID data.
    There will be one PRSS CV29 per OPNDST RESTOREd TCTTE.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (EMER | VTAM_RESART) and is freemained by DFHZNCA when
    DFHZC0146 or DFHZC0156 (good PS recover) is issued,
    or when DFHZCLS is run to cover all the cases where
    the session failed to restore and was unbound.
STORAGE CLASS =
    SMMC SHARED_CICS
LOCATION =
    Chained of the TCTTE via TCTE_PRSS_CV29_PTR.
INNER CONTROL BLOCKS = none
FUNCTION = NIBLIST
    Persistent sessions INQUIRE NIBLIST - created and used by
    DFHZGRP to hold data supplied by VTAM containing the
    following information about each NIB that persists.
    See VTAM Programming SC31-6436 for a full description.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (startup or dynamic open) and freemained by DFHZGRP before
    it exits.
STORAGE CLASS =
    USAGE(DOMAIN)
LOCATION =
    Anchored off the TCT Prefix TCTV_FIRST_NIBLIST_PTR
INNER CONTROL BLOCKS = See SC31-6436
FUNCTION = TCT_BIND
    Defines the bind in the TCT, starting with the length.

```

```

This is used to copy the PRSS BIND into the TCTTE.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (emergency restart or vtam restart) when logmode= n
    is used and freemained if and when the TCTTE is
    deleted.
STORAGE CLASS =
    ZCBIMG subpool
LOCATION =
    Anchored off TCTEBIMG
INNER CONTROL BLOCKS = none
FUNCTION = ZGRP_RPL
    Defines a set of 11 RPLs for use by DFHZGRP and DFHZGUB.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (startup or dynamic open) and freemained by DFHZGRP before
    it exits. However, if some of the RPLs are still active the
    pool will remain and then be re-used and freemained by
    subsequent dynamic OPEN VTAM ACB requests.
STORAGE CLASS =
    ZCNIBLST subpool
LOCATION =
    Anchored off the TCT Prefix TCTV_PRSS_RPL_POOL_PTR
INNER CONTROL BLOCKS = none
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
    MODULE TYPE = Control block definition
-----
EXTERNAL REFERENCES =
    DATA AREAS =
    CONTROL BLOCKS =
    GLOBAL VARIABLES (Macro pass) =
-----
=====
PRSS CV29 containing CV29, FMH5, BIS and BID data,
built by DFHZGRP from OPNDST RESTORE data and passed to DFHZXPC
and DFHZXRC (CV29 for terminals only).
=====

```

Table 851.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|--------------------------|
| (0) | STRUCTURE | 163 | PRSS_CV29_DATA | |
| (0) | CHARACTER | 91 | PRSS_CV29 | |
| (5B) | CHARACTER | 42 | PRSS_FMH5 | |
| (5B) | CHARACTER | 21 | FMH5_PS_DATA | FMH5 PLU to SLU data |
| (5B) | CHARACTER | 2 | FMH5_PSSEQ | FMH5 PLU to SLU seq. no. |
| (5D) | CHARACTER | 3 | FMH5_PSRH | FMH5 PLU to SLU RH |
| (60) | CHARACTER | 16 | FMH5_PSRU | FMH5 PLU to SLU RU |
| (70) | CHARACTER | 21 | FMH5_SP_DATA | FMH5 SLU to PLU data |
| (70) | CHARACTER | 2 | FMH5_SPSEQ | FMH5 SLU to PLU seq. no. |
| (72) | CHARACTER | 3 | FMH5_SPRH | FMH5 SLU to PLU RH |
| (75) | CHARACTER | 16 | FMH5_SPRU | FMH5 SLU to PLU RU |
| (85) | CHARACTER | 20 | PRSS_BIS | |
| (85) | CHARACTER | 10 | BIS_PS_DATA | BIS PLU to SLU data |
| (85) | CHARACTER | 2 | BIS_PSSEQ | BIS PLU to SLU seq. no. |

Table 851. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-------------------------|
| (87) | CHARACTER | 3 | BIS_PSRH | BIS PLU to SLU RH |
| (8A) | CHARACTER | 5 | BIS_PSRU | BIS PLU to SLU RU |
| (8F) | CHARACTER | 10 | BIS_SP_DATA | BIS SLU to PLU data |
| (8F) | CHARACTER | 2 | BIS_SPSEQ | BIS SLU to PLU seq. no. |
| (91) | CHARACTER | 3 | BIS_SPRH | BIS SLU to PLU RH |
| (94) | CHARACTER | 5 | BIS_SPRU | BIS SLU to PLU RU |
| (99) | CHARACTER | 10 | PRSS_BID | |
| (99) | CHARACTER | 2 | BID_SEQ | Bid sequence number |
| (9B) | CHARACTER | 3 | BID_RH | Bid RH |
| (9E) | CHARACTER | 5 | BID_RU | Bid RU |

```

=====
Persistent sessions NIBLIST - as produced by DFHZGRP as a result
or INQUIRE PERSESS and OPNDST RESTORE.
The NIB and BIND definitions should be replaced by the VTAM
versions when they become available. If they are not replaced
then they should be kept in step with the VTAM versions.
The NIBLIST is anchored from TCTV_FIRST_NIBLIST_PTR
=====

```

Table 852.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|------------------------------|
| (0) | STRUCTURE | * | NIBLIST | |
| (0) | CHARACTER | 24 | NIBLIST_HEADER | |
| (0) | CHARACTER | 8 | EYECATCHER | >PRSSNBL ! |
| (8) | ADDRESS | 4 | CHAIN_PTR | next niblist |
| (C) | FULLWORD | 4 | NIB_COUNT | count of NIBS in this list ! |
| (10) | FULLWORD | 4 | UNBIND_COUNT | count of unbinds " ! |
| (14) | ADDRESS | 4 | TOP_NIBLIST | start of this block |
| (18) | CHARACTER | * | NIB_START | start of nibs ! |

Table 853.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (0) | STRUCTURE | 64 | NIB | 1st of many NIBs ! |
| (0) | CHARACTER | 1 | * | Always 'D0'x |
| (1) | UNSIGNED | 1 | NIBFLG0 | |
| (1) | 1... | | NIBNNAMS | Partner used member name |
| (2) | CHARACTER | 1 | * | |
| (3) | UNSIGNED | 1 | NIBLEN | Length of NIB |
| (4) | FULLWORD | 4 | NIBCID | CID ! |
| (8) | ADDRESS | 4 | NIBUSER | a(old_tctte) a(tctte) or 0 ! |
| (C) | CHARACTER | 8 | NIBSYM | Netname ! |
| (14) | CHARACTER | 8 | NIBMODE | ! |
| (14) | CHARACTER | 8 | NIBNET | Netid |

Table 853. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (1C) | CHARACTER | 8 | NIBDEVCH | ! |
| (1C) | CHARACTER | 4 | * | |
| (20) | CHARACTER | 1 | DEVPHYSA | |
| (24) | CHARACTER | 4 | NIBPROC | ! |
| (28) | UNSIGNED | 1 | NIBFLG1 | ! |
| (28) | 1... | | NIBLAST | Off if last nib |
| (28) | .1.. | | NIBCON | On if OPNDST restore OK ! |
| (29) | UNSIGNED | 1 | NIBFLG2 | ! |
| (29) | 11.. | | * | ! |
| (29) | ..1. | | NIBPSPLU | On if primary ! |
| (29) | ...1 | | NIBPSDFS | On if Continue specific ! |
| (29) | 1... | | NIBPSDFA | On if Continue any ! |
| (29) |1.. | | NIBPSRSP | On if RESP data mode ! |
| (2A) | CHARACTER | 2 | * | ! |
| (2C) | ADDRESS | 4 | NIBEXLST | |
| (30) | CHARACTER | 8 | NIBGENN | Generic resource name |
| (30) | CHARACTER | 8 | NIBLMODE | |
| (38) | CHARACTER | 4 | * | |
| (3C) | ADDRESS | 4 | NIBRPARM | Pointer to restore plist ! |

RESTORE_PLIST_POINTERS

A set of 7 pointer per NIB in the NIBLIST. Pointed to by
NIBRPARM in the NIB.
They in turn, point to data supplied for each NIB by INQUIRE
PERSESS and OPNDST RESTORE.

Table 854.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|-------------|
| (0) | STRUCTURE | 28 | RESTORE_PLIST_ POINTERS | |
| (0) | ADDRESS | 4 | BIND_PTR | |
| (4) | ADDRESS | 4 | CV29_PTR | |
| (8) | ADDRESS | 4 | MODENAME_PTR | |
| (C) | ADDRESS | 4 | SESSID_PTR | |
| (10) | ADDRESS | 4 | FMH5_PTR | |
| (14) | ADDRESS | 4 | BID_PTR | |
| (18) | ADDRESS | 4 | BIS_PTR | |

BIND

Returned by INQUIRE PERSESS and pointed to by BIND_PTR
The definition of fields within the bind should be replaced
by the official VTAM ones.

Table 855.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--------------------------------|
| (0) | STRUCTURE | 37 | BIND | |
| (0) | UNSIGNED | 1 | BINFMTY | Bind format and type ! |
| 3 binfmt bit(4), Bind format 3 bintype bit(4), Bind type | | | | |
| (1) | UNSIGNED | 1 | BINFMT | FM profile ! |
| (2) | UNSIGNED | 1 | BINTS | TS profile ! |
| (3) | CHARACTER | 3 | * | ! |
| (6) | BIT(8) | 1 | BINCMNP2 | 7 Send/Receive mode ! |
| (6) | 111. | | * | ! |
| (6) | ...1 | | BINBKFS | Bit X'10' Primary is brackets! |
| (6) | 1111 | | * | ! |
| (7) | BIT(8) | 1 | BINAPACE | 8 SLU send pacing ! |
| (8) | BIT(8) | 1 | BINRSPACE | 9 SLU receive pacing ! |
| (9) | UNSIGNED | 1 | BINSRUSZ | 10 SLU max send RU size ! |
| (A) | UNSIGNED | 1 | BINPRUSZ | 11 PLU max send RU size ! |
| (B) | BIT(8) | 1 | BINSPACE | 12 PLU send pacing ! |
| (C) | BIT(8) | 1 | BINBPACE | 13 PLU receive pacing ! |
| (D) | UNSIGNED | 1 | BINLUP | 14 LU type ! |
| (E) | CHARACTER | 11 | BINPSCHR | Bytes 15-25 ! |
| (E) | BIT(8) | 1 | BINLULEV | 15 LU Type ! |
| (F) | BIT(8) | 1 | BINARCH1 | 16 Arch info 1 ! |
| (10) | CHARACTER | 5 | * | 17-21 ! |
| (15) | BIT(8) | 1 | BINFLG0 | 22 Flag byte ! |
| (15) | 1... | | BINES | Bit X'80' Ext Sec Supp ! |
| (15) | .111 1111 | | * | ! |
| (16) | BIT(8) | 1 | BINFLG1 | 23 Flag byte ! |
| (16) | 111. | | * | ! |
| (16) | ...1 | | BINCLSS | Bit X'01' Acc sec supp ! |
| (16) | 11.. | | * | ! |
| (16) |1. | | BINAVFS | Bit X'02' Already verif ! |
| (16) |1 | | BINPV | Bit X'01' Persist verif ! |
| (17) | BIT(8) | 1 | BINFLG2 | 24 Flag byte ! |
| (17) | 1... | | * | ! |
| (17) | .1.. | | BINCSBK | Bit X'40' Sync level 2 ! |
| (17) | ..1. | | BINCONF | Bit X'20' Sync level 1 ! |
| (17) | ...1 | | * | ! |
| (17) | 1... | | BINSECNH | Bit X'08' 2ry reinitiate ! |
| (17) |1.. | | BINPRIMH | Bit X'04' 1ry reinitiate ! |
| (17) |1. | | BINPSS | Bit X'02' parallel sess ! |
| (17) |1 | | BINGDSVF | Bit X'01' CNOS supported ! |

Table 855. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--------------------------|
| (18) | BIT(8) | 1 | BINFLG3 | 25 Flag byte ! |
| (18) | 1... | | * | ! |
| (18) | .1.. | | BINLTDRC | Bit X'40' LR bit ! |
| (18) | ..11 1111 | | * | ! |
| (19) | BIT(8) | 1 | BINCRCTL | 26 Cryptography ! |
| (1A) | UNSIGNED | 1 | BINPRIML | 27 1ry LU name length ! |
| (1B) | CHARACTER | 8 | BINPRIM | 28-35 1ry LU name ! |
| <pre> ----- -! If a bind returned in a persisent session niblist has a non 0 userdata length (BINUSEL) then the bind is followed by structured user data fields, including the modename, ! sessid, PLUNAME or SLUNAME. ! ----- ---</pre> | | | | |
| (23) | UNSIGNED | 1 | BINUSEL | 36 Length of user data ! |
| (24) | CHARACTER | 1 | BINUSE | 37 First byte of data ! |

```

-----
MODENAME (Prefixed by '1102'x)
Returned by INQUIRE PERSESS and pointed to by MODENAME_PTR
-----

```

Table 856.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------------------|
| (0) | STRUCTURE | 10 | MODENAME_STRUCT | ! |
| (0) | UNSIGNED | 1 | MODENAME_LENGTH | Length of modename+ 1 ! |
| (1) | UNSIGNED | 1 | MODENAME_KEY | Key '02' ! |
| (2) | CHARACTER | 8 | MODENAME | Modename used by CICS ! |

```

-----
SESSID ( Prefixed by '1103'x)
Returned by INQUIRE PERSESS and pointed to by SESSID_PTR.
-----

```

Table 857.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|------------------------|
| (0) | STRUCTURE | 10 | SESSID_STRUCT | ! |
| (0) | UNSIGNED | 1 | SESSID_LENGTH | Length of sessid + 1 ! |
| (1) | UNSIGNED | 1 | SESSID_KEY | Key '03' ! |
| (2) | CHARACTER | 8 | SESSID | Sessid used by CICS ! |

```

-----
TCT_BIND
Defines the bind in the TCT, starting with the length.
Note: TCTEBIMG points beyond the flag in the first byte to the
length, followed by the bind itself.
-----

```

Table 858.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------|
| (0) | STRUCTURE | 38 | TCT_BIND | |
| (0) | UNSIGNED | 1 | TCT_BIND_LENGTH | |
| (1) | CHARACTER | 13 | * | |
| (E) | UNSIGNED | 1 | TCT_BINLUP | |
| (F) | CHARACTER | 23 | * | |

RPL_POOL

Defines a set of 11 RPLs for use by DFHZGRP and DFHZGUB.

The block is obtained from the ZCNIBLST variable length subpool when DFHZGRP is entered and deleted by DFHZGRP if all the RPLs are inactive.

The ECB is for use by DFHZGUB to wait until an RPL becomes free.

The first RPL is for use by DFHZGRP - INQUIRE and OPNDST.

The next 10 are for DFHZGUB, which initiates up to 10 CLSDSTs or TERMSESS's. After that it needs to wait for one to become inactive.

The RPL POOL is anchored from TCTV_PRSS_RPL_POOL_PTR.

The last 10 RPLS for use by DFHZGUB are anchored from TCTV_PRSS_UNBIND_RPLS_PTR

Table 859.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|----------------------------|
| (0) | STRUCTURE | * | ZGRP_RPL_POOL | |
| (0) | CHARACTER | 16 | RPL_POOL_HEADER | |
| (0) | CHARACTER | 8 | RPL_EYECATCHER | >PRSSRPL ! |
| (8) | ADDRESS | 4 | WAIT_RPL_ECB | DFHZGUB wait for RPL ECB ! |
| (C) | FULLWORD | 4 | RPL_SIZE | Size of each RPL ! |
| (10) | CHARACTER | * | ZGRP_RPL | |

Security Mechanisms subfield (prefixed by '..14')

Table 860.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|------------------------|
| (0) | STRUCTURE | * | SEC_MECH_STRUCT | |
| (0) | UNSIGNED | 1 | SEC_MECH_LENGTH | Length of struct - 1 |
| (1) | UNSIGNED | 1 | SEC_MECH_KEY | Key '14' |
| (2) | UNSIGNED | 1 | SEC_POLICY_LENGTH | security policy length |
| (3) | CHARACTER | * | * | |

Table 861.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|--------------------------|
| (0) | STRUCTURE | * | EXT_SEC_MECH_STRUCT | |
| (0) | UNSIGNED | 1 | SEC_EXT_MECH_LEN | length of extended mechs |

Table 861. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|------------------------|
| (1) | CHARACTER | * | SEC_EXT_MECH | mechanisms |
| (1) | CHARACTER | 1 | SEC_MECH_ID | mechanism id |
| (2) | UNSIGNED | 1 | SEC_MECH_POLICY | mechanism policy |
| (2) | 1... | | SEC_POLICY_REQD | Bit X'80' Req sec supp |
| (2) | .111 1111 | | * | |

Constants

Table 862.

| Len | Type | Value | Name | Description |
|--|---------|-------|--------------------------|-------------|
| ----- NIB_DATA_LENGTH Length of one NIB, PLIST and data returned by INQUIRE PERSESS Note - after VTAM APAR OY65251 LU62 NIB data will also contain key 04 from the bind user data - with a maximum length of 19 VTAM may add extra subfields in later releases - in which case this length must be increased. ----- | | | | |
| 4 | DECIMAL | 164 | NIB_DATA_LENGTH | |
| ----- SHORTEST_NIB_DATA_LENGTH Length of the shortest possible NIB data returned by VTAM INQUIRE PERSESS. ----- | | | | |
| 4 | DECIMAL | 129 | SHORTEST_NIB_DATA_LENGTH | |
| | | | | |
| ----- OPNDST_DATA_LENGTH Length of one set of CV29, FMH5, BIS + BID. ----- | | | | |
| 4 | DECIMAL | 163 | OPNDST_DATA_LENGTH | |

ZLUIT - ZCP local userid table definition

CONTROL BLOCK NAME = DFHZLUIT
 DESCRIPTIVE NAME = CICS TS (ZCP) Local Userid Table definition.
 Licensed Materials - Property of IBM
 Restricted Materials of IBM
 5655-Y04
 (C) Copyright IBM Corp. 1989
 FUNCTION =
 This control block contains the DSECTs for:
 1) Local Userid Table (LUIT) entries.
 The LUIT contains a list of Userids, who are using
 Persistent Verification, and are considered ALREADY
 VERIFIED for use on this connection.
 2) The Local Userid Table Area (LUITA).
 This is the header for each LUIT, containing a pointer
 to the first LUIT entry, the SYSID associated with the
 LUIT, and some flags. This DSECT is physically part of
 the TCSE, but contains only those TCSE fields required
 by DFHZCUT to perform its functions.
 There is one LUIT per connection, composed of a LUITA

header followed by one entry for each userid that is Persistently Signed On.
Both of these control blocks are owned by DFHZCUT.

LIFETIME =
For the LUITA - Lifetime of the TCSE - connection lifetime.
Destroyed when the TCSE is freed.
For the LUIT entries - Task related. Tasks will attach and add or reuse LUIT entries. As tasks end, the use counts in the LUIT entries are decremented. If the entries have not been used for a set time (SIT - PVDELAY) the LUIT entries will be deleted.

STORAGE CLASS =
The LUITA is part of the TCSE
The LUIT entries come from Subpool USIDTBL
They have a fixed length of 32 bytes.

LOCATION =
LOCAL_USERID_TABLE_AREA (LUITA) is a field in the TCSE.
LOCAL_USERID_TABLE_ELEMENT is chained off:
LUITA_HEAD_POINTER (TCSELUIT) for the first LUIT entry
LUIT_FORWARD_POINTER for the next LUIT entry
(end of chain = Null pointer)

INNER CONTROL BLOCKS =
The LOCAL_USERID_TABLE_AREA is an inner control block of the TCSE defined at TCSEUTA

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
None
DATA AREAS =
None
CONTROL BLOCKS =
None
GLOBAL VARIABLES (Macro pass) =
None

The Local Userid Table Area is a sub control block within the TCSE - at TCSEUTA.
DFHZCUT uses the LUITA as the head control block for the LUIT.
HEAD_POINTER points to the start of the LUIT element chain.
SYSID is the 4 char connection sysid associated with the LUIT.
FLAGS that are used in Time Out of the LUIT entries:
TIME_OUT_IN_PROGRESS

Table 863.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------|-------------|
| (0) | STRUCTURE | 12 | LOCAL_USERID_TABLE_ AREA | |
| (0) | ADDRESS | 4 | LUITA_HEAD_POINTER | |
| (4) | CHARACTER | 4 | LUITA_SYSID | |
| (8) | BIT(8) | 1 | LUITA_FLAGS | |
| (8) | 1... | | LUITA_TIME_OUT_IN_ PROGRESS | |
| (8) | .111 1111 | | * | Reserved |
| (9) | CHARACTER | 3 | * | Reserved |

The Local Userid Table Elements consist of userids that are using Persistent Verification for a particular SYSID.
FORWARD_POINTER is used to chain to the next element - search
BACKWARD_POINTER is used when deleting entries from the middle of the list.

TIME_LAST_END_BRACKET is set to zero when the entry is added to the list. Subsequently, it is set to the 4 High Order bytes of the STCK macro time, whenever tasks that use the entry send an end bracket to complete the session (at task end). The time is used to remove the LUIT entry from the list if the count is zero, and the entry has not been used for a set time.

USE_COUNT is the total number of transactions currently running that are using this LUIT entry.

FLAGS

LOGICALLY_DELETED indicates that the LUIT entry has logically and architecturally been deleted, however since the use count is non zero, we must wait for the transactions that are currently using it to end, before we can Freemain it.

Note. Instead of adding a new entry to the list a logically deleted entry can be made valid again. This saves us from having multiple entries for the same userid.

USERID is the userid (and length) that is using PV and can be considered Already Verified for use on the connection.

Table 864.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------|-------------|
| (0) | STRUCTURE | 32 | LOCAL_USERID_TABLE_ELEMENT | |
| (0) | ADDRESS | 4 | LUIT_FORWARD_POINTER | |
| (4) | ADDRESS | 4 | LUIT_BACKWARD_POINTER | |
| (8) | UNSIGNED | 4 | LUIT_TIME_LAST_END_ BRACKET | |
| (C) | HALFWORD | 2 | LUIT_USE_COUNT | |
| (E) | UNSIGNED | 1 | LUIT_FLAGS | |
| (E) | 1... .. | | LUIT_LOGICALLY_ DELETED | |
| (E) | .1.. .. | | LUIT_PENDING_TIME_OUT | |
| (E) | ..11 1111 | | * | |
| (F) | CHARACTER | 9 | LUIT_USERID | |
| (F) | UNSIGNED | 1 | LUIT_USERID_LENGTH | |
| (10) | CHARACTER | 8 | LUIT_USERID_TEXT | |
| (18) | CHARACTER | 8 | * | Reserved |

ZCCPS - CICS Client

DESCRIPTIVE NAME = CICS Client control blocks

This copybook provides the declarations and structures necessary for the CCIN and CTIN transactions.

```

=====
Data for CICS client CCIN transaction input
=====

```

Table 865.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|----------------------|
| (0) | STRUCTURE | 12 | R | Receive parameters ! |
| (0) | CHARACTER | 12 | CCIN_HEADER | |
| (0) | FULLWORD | 4 | CCIN_LEN | |

Table 865. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|---------------|-------------|
| (4) | UNSIGNED | 1 | CCIN_GROUP | |
| (5) | UNSIGNED | 1 | CCIN_FUNCTION | |
| (6) | UNSIGNED | 1 | CCIN_VERSION | |
| (7) | UNSIGNED | 1 | CCIN_RESPONSE | |
| (8) | UNSIGNED | 2 | CCIN_REASON | |
| (A) | UNSIGNED | 2 | CCIN_PARMNUM | |

Table 866.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|-------------|
| (0) | STRUCTURE | * | CCIN_APPLID_PARM | |
| (0) | FULLWORD | 4 | CCIN_APPLID_LENGTH | |
| (4) | UNSIGNED | 1 | CCIN_APPLID_PARM_TYPE | |
| (5) | CHARACTER | * | CCIN_APPLID | |

Table 867.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|-------------|
| (0) | STRUCTURE | * | CCIN_CODEPAGE_PARM | |
| (0) | FULLWORD | 4 | CCIN_CODEPAGE_LENGTH | |
| (4) | UNSIGNED | 1 | CCIN_CODEPAGE_PARM_TYPE | |
| (5) | CHARACTER | * | CCIN_CODEPAGE | |

Table 868.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------|-------------|
| (0) | STRUCTURE | 8 | CCIN_CAPABILITIES_PARM | |
| (0) | FULLWORD | 4 | CCIN_CAPABILITIES_LENGTH | |
| (4) | UNSIGNED | 1 | CCIN_CAPABILITIES_PARM_TYPE | |
| (5) | BIT(8) | 1 | CCIN_ENVIRON_TYPE | |
| (5) | 1111 11.. | | * | |
| (5) |1. | | CCIN_EBCDIC | |
| (5) |1 | | CCIN_BIGENDIAN | |
| (6) | BIT(16) | 2 | CCIN_CLIENT_CAPABILITIES | |
| (6) | BIT(8) | 1 | * | |
| (6) | 1... | | CCIN_EXIT_PROCESSING | |
| (6) | .1.. | | CCIN_TRANSLATE_CAPABLE | |
| (6) | ..1. | | CCIN_DELETE_ENTRIES | |
| (6) | ...1 | | CCIN_TCTUA_COMMAREA | |
| (6) | 1111 | | * | |
| (7) | BIT(8) | 1 | * | |

Table 869.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|-------------|
| (0) | STRUCTURE | 10 | CCIN_SECURITY_PARM | |
| (0) | FULLWORD | 4 | CCIN_SECURITY_LENGTH | |
| (4) | UNSIGNED | 1 | CCIN_SECURITY_PARM_ TYPE | |
| (5) | UNSIGNED | 1 | CCIN_ECIATTACH_USERID | |
| (6) | UNSIGNED | 1 | CCIN_ECIATTACH_ PASSWORD | |
| (7) | UNSIGNED | 1 | CCIN_EPIATTACH_USERID | |
| (8) | UNSIGNED | 1 | CCIN_EPIATTACH_ PASSWORD | |
| (9) | UNSIGNED | 1 | CCIN_CTINATTACH_REQS | |

Table 870.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|-------------|
| (0) | STRUCTURE | 6 | CCIN_TIMEOUT_PARM | |
| (0) | FULLWORD | 4 | CCIN_TIMEOUT_LENGTH | |
| (4) | UNSIGNED | 1 | CCIN_TIMEOUT_PARM_ TYPE | |
| (5) | BIT(8) | 1 | * | |
| (5) | 1... | | CCIN_CONV_TIMEOUT_ SUPPORTED | |
| (5) | .111 1111 | | * | |

=====

Data for CICS client CCIN transaction output

=====

Table 871.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-------------------|
| (0) | STRUCTURE | 12 | S | Send parameters ! |
| (0) | CHARACTER | 12 | CCIN_HEADER | |
| (0) | FULLWORD | 4 | CCIN_LEN | |
| (4) | UNSIGNED | 1 | CCIN_GROUP | |
| (5) | UNSIGNED | 1 | CCIN_FUNCTION | |
| (6) | UNSIGNED | 1 | CCIN_VERSION | |
| (7) | UNSIGNED | 1 | CCIN_RESPONSE | |
| (8) | UNSIGNED | 2 | CCIN_REASON | |
| (A) | UNSIGNED | 2 | CCIN_PARMNUM | |

=====

Data for CICS client CTIN transaction input

=====

Table 872.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|--------------------|
| (0) | STRUCTURE | 12 | IN | Input parameters ! |
| (0) | CHARACTER | 12 | CTIN_HEADER | |

Table 872. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|---------------|-------------|
| (0) | FULLWORD | 4 | CTIN_LEN | |
| (4) | UNSIGNED | 1 | CTIN_GROUP | |
| (5) | UNSIGNED | 1 | CTIN_FUNCTION | |
| (6) | UNSIGNED | 1 | CTIN_VERSION | |
| (7) | UNSIGNED | 1 | CTIN_RESPONSE | |
| (8) | UNSIGNED | 2 | CTIN_REASON | |
| (A) | UNSIGNED | 2 | CTIN_PARMNUM | |

Table 873.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|-------------|
| (0) | STRUCTURE | * | CTIN_NETNAME_PARM | |
| (0) | FULLWORD | 4 | CTIN_NETNAME_LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_NETNAME_PARM_ TYPE | |
| (5) | CHARACTER | * | CTIN_NETNAME | |

Table 874.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|-------------|
| (0) | STRUCTURE | * | CTIN_MODELID_PARM | |
| (0) | FULLWORD | 4 | CTIN_MODELID_LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_MODELID_PARM_ TYPE | |
| (5) | CHARACTER | * | CTIN_MODELID | |

Table 875.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|-------------|
| (0) | STRUCTURE | * | CTIN_CODEPAGE_PARM | |
| (0) | FULLWORD | 4 | CTIN_CODEPAGE_LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_CODEPAGE_PARM_ TYPE | |
| (5) | CHARACTER | * | CTIN_CODEPAGE | |

Table 876.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|-------------|
| (0) | STRUCTURE | * | CTIN_APPLID_PARM | |
| (0) | FULLWORD | 4 | CTIN_APPLID_LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_APPLID_PARM_ TYPE | |
| (5) | CHARACTER | * | CTIN_APPLID | |

Table 877.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-------------|
| (0) | STRUCTURE | * | CTIN_TERMID_PARM | |

Table 877. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|-------------|
| (0) | FULLWORD | 4 | CTIN_TERMID_LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_TERMID_PARM_TYPE | |
| (5) | CHARACTER | * | CTIN_TERMID | |

Table 878.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|-----------------------------------|
| (0) | STRUCTURE | 6 | CTIN_TERMSOC_PARM | |
| (0) | FULLWORD | 4 | CTIN_TERMSOC_LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_TERMSOC_PARM_ TYPE | |
| (5) | UNSIGNED | 1 | CTIN_TERMSOC | signon capability ! |
| (5) | 1... | | CTIN_TERMSOC_IND | 1 - required ! 0 - not required ! |

```
=====
Data for CICS client CTIN transaction output
=====
```

Table 879.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|---------------------|
| (0) | STRUCTURE | 12 | OUT | Output parameters ! |
| (0) | CHARACTER | 12 | CTIN_HEADER | |
| (0) | FULLWORD | 4 | CTIN_LEN | |
| (4) | UNSIGNED | 1 | CTIN_GROUP | |
| (5) | UNSIGNED | 1 | CTIN_FUNCTION | |
| (6) | UNSIGNED | 1 | CTIN_VERSION | |
| (7) | UNSIGNED | 1 | CTIN_RESPONSE | |
| (8) | UNSIGNED | 2 | CTIN_REASON | |
| (A) | UNSIGNED | 2 | CTIN_PARMNUM | |

Table 880.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------|-------------|
| (0) | STRUCTURE | * | CTIN_TERMDetails_PARM | |
| (0) | FULLWORD | 4 | CTIN_TERMDetails_ LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_TERMDetails_ PARM_TYPE | |
| (5) | CHARACTER | * | CTIN_TERMDetails | |

Table 881.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|------------------------|
| (0) | STRUCTURE | 6 | CTIN_TERMSOCS_PARM | like ctin_termsoc_parm |
| (0) | FULLWORD | 4 | * | |

Table 881. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|------------|---------------------------|
| (4) | UNSIGNED | 1 | * | |
| (5) | UNSIGNED | 1 | * | Signon capability |
| (5) | 1... .. | | * | 1 - capable 0 - incapable |

Constants

Table 882.

| Len | Type | Value | Name | Description |
|---|---------|-------|-------------------------------|-------------|
| ===== Declare the CCIN header block and response and reason codes ===== Constants for ccin_group | | | | |
| 1 | DECIMAL | 1 | CCIN_CLIENT_FUNCTION | |
| Constants for ccin_function | | | | |
| 1 | DECIMAL | 1 | CCIN_CLIENT_INSTALL_REQUEST | |
| 1 | DECIMAL | 2 | CCIN_CLIENT_INSTALL_RESPONSE | |
| 1 | DECIMAL | 3 | CCIN_CLIENT_UNINSTALL_REQUEST | |
| Constants for CCIN parameter types | | | | |
| 1 | DECIMAL | 1 | CCIN_APPLID_TYPE | |
| 1 | DECIMAL | 3 | CCIN_CODEPAGE_TYPE | |
| 1 | DECIMAL | 4 | CCIN_CAPABILITIES_TYPE | |
| 1 | DECIMAL | 9 | CCIN_SECURITY_TYPE | |
| 1 | DECIMAL | 12 | CCIN_TIMEOUT_TYPE | |
| Constants for ccin_response | | | | |
| 1 | DECIMAL | 0 | CCIN_NORMAL | |
| 1 | DECIMAL | 1 | CCIN_EXCEPTION | |
| 1 | DECIMAL | 2 | CCIN_ERROR | |
| 1 | DECIMAL | 4 | CCIN_DISASTER | |
| Constants for ccin_reason | | | | |
| 2 | DECIMAL | 0 | CCIN_OK | |
| 2 | DECIMAL | 1 | CCIN_ALREADY_INSTALLED | |
| 2 | DECIMAL | 4 | CCIN_INSTALL_CANCELLED | |
| 2 | DECIMAL | 5 | CCIN_SERVER_BUSY | |
| 2 | DECIMAL | 6 | CCIN_INVALID_REQUEST | |
| 2 | DECIMAL | 7 | CCIN_INVALID_CODEPAGE | |
| ===== Declare the CTIN header block and response and reason codes ===== Constants for ctin_group | | | | |

Table 882. (continued)

| Len | Type | Value | Name | Description |
|------------------------------------|---------|-------|---------------------------------|-------------|
| 1 | DECIMAL | 1 | CTIN_CLIENT_FUNCTION | |
| Constants for ctin_function | | | | |
| 1 | DECIMAL | 17 | CTIN_TERMINAL_INSTALL_REQUEST | |
| 1 | DECIMAL | 18 | CTIN_TERMINAL_INSTALL_RESPONSE | |
| 1 | DECIMAL | 19 | CTIN_TERMINAL_UNINSTALL_REQUEST | |
| Constants for CTIN parameter types | | | | |
| 1 | DECIMAL | 1 | CTIN_APPLID_TYPE | |
| 1 | DECIMAL | 3 | CTIN_CODEPAGE_TYPE | |
| 1 | DECIMAL | 5 | CTIN_NETNAME_TYPE | |
| 1 | DECIMAL | 6 | CTIN_MODELID_TYPE | |
| 1 | DECIMAL | 7 | CTIN_TERMDetails_TYPE | |
| 1 | DECIMAL | 8 | CTIN_TERMID_TYPE | |
| 1 | DECIMAL | 10 | CTIN_TERMSOC_TYPE | |
| Constants for ctin_response | | | | |
| 1 | DECIMAL | 0 | CTIN_NORMAL | |
| 1 | DECIMAL | 1 | CTIN_EXCEPTION | |
| 1 | DECIMAL | 2 | CTIN_ERROR | |
| 1 | DECIMAL | 4 | CTIN_DISASTER | |
| Constants for ctin_reason | | | | |
| 2 | DECIMAL | 1 | CTIN_ALREADY_INSTALLED | |
| 2 | DECIMAL | 2 | CTIN_UNKNOWN_TERMINAL | |
| 2 | DECIMAL | 3 | CTIN_UNKNOWN_MODEL | |
| 2 | DECIMAL | 4 | CTIN_INSTALL_CANCELLED | |
| 2 | DECIMAL | 5 | CTIN_SERVER_BUSY | |
| 2 | DECIMAL | 6 | CTIN_INVALID_REQUEST | |
| 2 | DECIMAL | 7 | CTIN_INVALID_CODEPAGE | |
| 2 | DECIMAL | 8 | CTIN_INVALID_SIGNON | |
| 2 | DECIMAL | 9 | CTIN_CCIN_INACTIVE | |
| 2 | DECIMAL | 10 | CTIN_INVALID_TERMID | |
| Constants for ctin_o_type | | | | |
| 1 | DECIMAL | 7 | CTIN_O_TERM_BPS | |

ZXQOD - XRF tracking queue organiser

CONTROL BLOCK NAME = DFHZXQOD
 DESCRIPTIVE NAME = CICS TS XRF tracking queue organiser
 (DFHZXQ0) interface declaration.
 Licensed Materials - Property of IBM

Restricted Materials of IBM
5655-Y04
(C) Copyright IBM Corp. 1985, 1999
FUNCTION = Declare interface to DFHZXQ0.
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None.
DATA AREAS = None.
CONTROL BLOCKS = CSZXQ0NA in the CSA.
GLOBAL VARIABLES (Macro pass) = None.

Table 883.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 8 | XQOJECT | Vector for ZXQO |
| (0) | ADDRESS | 4 | XQOJECTN | ZXQO entry point |
| (4) | BIT(32) | 4 | XQOJECTE | ECB posted when ZXQO is drained |

Constants

Table 884.

| Len | Type | Value | Name | Description |
|------------------------|-----------|-------|-------------------|------------------------|
| XQO_REQCODE values :- | | | | |
| 1 | CHARACTER | I | XQO_REQ_INIT | |
| 1 | CHARACTER | A | XQO_REQ_ADDACT | |
| 1 | CHARACTER | P | XQO_REQ_POST | |
| 1 | CHARACTER | D | XQO_REQ_DRAIN | |
| XQO_RESPONSE values :- | | | | |
| 4 | DECIMAL | 8 | XQO_RSP_BAD_REQC | OUT: Error |
| 4 | DECIMAL | 4 | XQO_RSP_ERROR | IN: (to POST) |
| 4 | DECIMAL | 3 | XQO_RSP_NOT_YET | OUT: Normal - queued |
| 4 | DECIMAL | 1 | XQO_RSP_SCHEDULED | IN: from RM_SCHEDULE |
| 4 | DECIMAL | 0 | XQO_RSP_NORMAL | OUT: Normal - complete |

ZXTR - XRF tracking record header

CONTROL BLOCK NAME = DFHZXTR
NAME OF MATCHING PLS CONTROL BLOCK = NONE
DESCRIPTIVE NAME = CICS TS XRF tracking record header.
Licensed Materials - Property of IBM
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5655-Y04
(C) Copyright IBM Corp. 1985, 2011
FUNCTION =
Common part of records shipped to an XRF alternate
to drive the tracking of various states.
LIFETIME =
Built by DFHTBSSP and the XRF catch-up transaction, and
interpreted by DFHTCRP and DFHZXQ0.
STORAGE CLASS = Various.

LOCATION = Various.
 INNER CONTROL BLOCKS =
 The tracking record contains a variable length data
 field which in some cases is a copy of the CICS catalog
 record.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition

 EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = No sysgen globals.

Table 885.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|---|
| (0) | STRUCTURE | * | XTR_RECORD | Tracking record sent from the ACTIVE to the ALTERNATE |
| (0) | UNSIGNED | 2 | XTR_ID | Indicates whether it is a CATCHUP or TRACKING type record. |
| (2) | BIT(8) | 1 | * | Flags |
| (3) | CHARACTER | 1 | XTR_TYPE | Defines what the tracking record contains |
| (4) | CHARACTER | * | XTR_KEY | |
| (4) | UNSIGNED | 1 | XTR_KEY_LENGTH | Length of the key value. If this is 0 and XTR_ID is not XTR_ID_BROADCAST then this is the end-of-stream marker for a particular catchup. Any data will be ignored in this case. |
| (5) | CHARACTER | * | XTR_KEY_VALUE | A string that uniquely names the externalised object |

Table 886.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--|
| (0) | STRUCTURE | * | XTR_DATA | Recovery record proper |
| (0) | UNSIGNED | 2 | XTR_DATA_LENGTH | |
| (2) | CHARACTER | * | XTR_DATA_STRING | Contains the externalised object(s) and associated object. |

The following structure maps XTR_DATA_STRING when used for tracking-control messages.

In this case the following conventions exist:-

- (a) If XTR_ID is XTR_ID_BROADCAST then this is a start-of-stream record, which is the first record generated by a (new) active.
- (b) If XTR_ID is not XTR_ID_BROADCAST then this is a start-of-catchup record, and any backup waiting to do catchup

may capture the value in XTR_ID which will be used in all subsequent records for this particular catchup.

Table 887.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-------------------------|
| (0) | STRUCTURE | * | XTR_XC_DATA | |
| (0) | BIT(8) | 1 | * | |
| (0) | 1... | | XTR_XC_STRM_WARM | Stream is cold |
| (1) | CHARACTER | 1 | *(*) | List of types in stream |
| (1) | CHARACTER | 1 | XTR_XC_TYPE_ELEM | Stream type |

The following structure maps XTR_DATA_STRING when used for session-state tracking messages.

Table 888.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-----------------------|
| (0) | STRUCTURE | * | XTR_ST_DATA | |
| (0) | CHARACTER | 5 | XTR_ST_SHORT | Basic section |
| (0) | CHARACTER | 4 | XTR_ST_SESS_NAME | Session/terminal name |
| (4) | CHARACTER | 1 | XTR_ST_REQUEST | Request being shipped |
| (5) | BIT(8) | 1 | XTR_ST_FLAGS_1 | |
| (5) | 1... | | XTR_ST_CAPABLE | XRF capable session |
| (6) | CHARACTER | * | XTR_ST_CORREL | Correlation id |
| (6) | UNSIGNED | 1 | XTR_ST_CORREL_LN | Length |
| (7) | CHARACTER | * | XTR_ST_CORREL_ID | Value |

This is now externalised

Table 889.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------|
| (0) | STRUCTURE | * | XTR_ST_LOG_DATA | Logon data |
| (0) | UNSIGNED | 2 | XTR_ST_LOGD_LEN | Length |
| (2) | CHARACTER | * | XTR_ST_LOGD_VAL | Value |

Table 890.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------|
| (0) | STRUCTURE | * | XTR_ST_BIND | BIND-image |
| (0) | UNSIGNED | 1 | XTR_ST_BIMG_LEN | Length |
| (1) | CHARACTER | * | XTR_ST_BIMG_VAL | Value |

Table 891.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-------------|
| (0) | STRUCTURE | * | XTR_SN_DATA | |
| (0) | CHARACTER | 4 | XTR_SN_SESS_NAME | |
| (4) | UNSIGNED | 1 | XTR_SN_REP_N | |

Table 891. (continued)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (5) | CHARACTER | * | XTR_SN_REP | |

Constants

Table 892.

| Len | Type | Value | Name | Description |
|---------------------------------|-----------|-------|----------------------|--|
| 4 | DECIMAL | 5 | XTR_RECORD_SIZE | |
| 4 | DECIMAL | 16 | XTR_MAX_KEYLEN | Maximum length of the obj |
| 4 | DECIMAL | 2 | XTR_DATA_SIZE | |
| Used in XTR_ID | | | | |
| 2 | DECIMAL | 0 | XTR_ID_BROADCAST | General msg |
| 2 | DECIMAL | 65535 | XTR_ID_PENDING | XTR_ID_PENDING - used to indicate that a stream has been "opened" but nothing sent yet |
| Used in XTR_TYPE | | | | |
| 1 | CHARACTER | X | XTR_TYPE_CONTROL | Tracking control |
| 1 | CHARACTER | C | XTR_TYPE_ZC_CONTENTS | CONTENTS |
| 1 | CHARACTER | S | XTR_TYPE_ZC_SESSIONS | SESSIONS |
| 1 | CHARACTER | U | XTR_TYPE_SN | User ids |
| Used in RESPONSE | | | | |
| 1 | DECIMAL | 0 | XTR_RSP_NORMAL | Normal response |
| 1 | DECIMAL | 8 | XTR_RSP_ERROR | Error response |
| 1 | DECIMAL | 4 | XTR_RSP_SHUTDOWN | Shutdown |
| 1 | DECIMAL | 1 | XTR_RSP_ALL_GONE | No backups |
| 4 | DECIMAL | 5 | XTR_SN_DATA_SIZE | |
| Values used in XTS_ST_REQUEST:- | | | | |
| 1 | CHARACTER | 1 | XTR_ST_REQ_BIND | BIND completed |
| 1 | CHARACTER | 2 | XTR_ST_REQ_FREED | Logon data freed |
| 1 | CHARACTER | 3 | XTR_ST_REQ_UNBND | UNBIND completed |

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Programming interface information

This book is intended to help you diagnose problems in your CICS system, and primarily documents Diagnosis, Modification, or Tuning Information.

Important: Do not use this Diagnosis, Modification, or Tuning Information as a programming interface.

However, this book also documents General-use Programming Interface and Associated Guidance Information and Product-sensitive Programming Interface and Associated Guidance Information provided by CICS.

General-use programming interfaces allow the customer to write programs that obtain the services of CICS.

General-use Programming Interface and Associated Guidance Information is identified where it occurs by an introductory statement to a data area.

Product-sensitive programming interfaces allow the customer installation to perform tasks such as diagnosing, modifying, monitoring, repairing, tailoring, or tuning of CICS. Use of such interfaces creates dependencies on the detailed design or implementation of the IBM software product. Product-sensitive programming interfaces should be used only for these specialized purposes. Because of their dependencies on detailed design and implementation, it is to be expected that programs written to such interfaces may need to be changed in order to run with new product releases or versions, or as a result of service.

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Version 5 Release 2
Data Areas

Publication No. GC34-7271-00

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