CICS Transaction Server for z/OS
Version 3 Release 2

CICS Supplementary Data Areas

GC34-6864-04

CICS Transaction Server for z/OS
Version 3 Release 2

CICS Supplementary Data Areas

GC34-6864-04

Note!
Before using this information and the product it supports, be sure to read the general information under "Notices" on page 1525

This edition applies to Version 3 Release 2 of CICS Transaction Server for z/OS, program number 5655-M15, and to all subsequent versions, releases, and modifications until otherwise indicated in new editions.

CICS Transaction Server for z/OS Supplementary Data Areas

This manual is supplementary to the CICS® Transaction Server for z/OS® Data Areas manual. It contains data areas (control blocks, parameter lists and constants) that are part of the CICS product implementation. These data areas may be useful for tasks such as CICS problem diagnosis, performance monitoring, and tuning. These data areas are intended for use by only a limited set of users involved in designing products complementary to CICS that perform one of these specialized tasks and require this information, which can be expected to change with subsequent releases of CICS.

Most products can be designed without using the information provided by this manual, because they can use the facilities provided by the extended CICS SPI (for example, the EXEC CICS INQUIRE/SET commands), and the exit programming interface (XPI) provided by CICS

This manual is not needed by CICS application programmers, nor is it required when requesting assistance from the IBM® Service organization.

Licensees are allowed to copy information derived from this manual into the source code of their products.

Contents

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.

CAUD CAU Date Formatter Parm List

```
CONTROL BLOCK NAME = CAUCAFDC
DESCRIPTIVE NAME  = CICS Transaction Affinities Utility
                    Detector date module parameter list

Restricted Materials of IBM

FUNCTION =
  Parameter list for the Detector date utility module CAUCAFDT.
  Equivalent assembler Dsect is CAUCAFDD generated by DSECTGEN.
LIFETIME = As required
STORAGE CLASS = As required
LOCATION = As required
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 = None
-------------------------------------------------------------------
 CAUCAFDT Parameter list.
```

Table 1.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	18	CAUD_PLIST	
(0)	CHARACTER	6	CAUD_INPUT	Input arguments
(0)	UNSIGNED	1	CAUD_I_DATEFMT	Date Format required - see constants below
(1)	CHARACTER	1	CAUD_I_DATESEP	Date Separator
(2)	CHARACTER	4	CAUD_I_DATE	Decimal Julian date in form 0xyyddd
(6)	CHARACTER	12	CAUD_OUTPUT	Output arguments
(6)	CHARACTER	10	CAUD_O_DATE	Output formatted date
(10)	UNSIGNED	1	CAUD_O_RESPONSE	Response code
(11)	UNSIGNED	1	CAUD_O_REASON	Reason code

Constants

Table 2.

Len	Type	value	Name	Description
CAUCAFDT constants. Response codes.				
1	DECIMAL	0	CAUD_OK	Ok response
1	DECIMAL	1	CAUD_ERROR	Error response
Reason codes.				
1	DECIMAL	1	CAUD_NO_DATE	No date input
1	DECIMAL	2	CAUD_FORMAT	Invalid format
Date formats.				
1	DECIMAL	1	CAUD_CCYYMMDD	ccyy/mm/dd
1	DECIMAL	2	CAUD_YYMMDD	yy/mm/dd
1	DECIMAL	3	CAUD_MMDDYY	mm/dd/yy
1	DECIMAL	4	CAUD_DDMMYY	dd/mm/yy

CAUMM CAU Message Manager Parm List

```
CONTROL BLOCK NAME = CAUMSGPC
DESCRIPTIVE NAME  = CICS Transaction Affinities Utility
                    Message Manager parameter list

Restricted Materials of IBM

FUNCTION =
```

```
   Parameter list for the Message Manager.
   The address of the parameter list is passed on the call to
   CAUMSGMN, the message manager program.
 LIFETIME = As required
 STORAGE CLASS = As required
 LOCATION = As required
 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 = None
-------------------------------------------------------------------
 CAUMSGMN Parameter list.
```

Table 3.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	200	CAUMM_PLIST	
(0)	CHARACTER	64	CAUMM_INPUT	Input arguments
(0)	HALFWORD	2	CAUMM_I_MSGNO	Message number
(2)	UNSIGNED	2	CAUMM_I_ROUTING	Over-ride routing
(4)	CHARACTER	1	CAUMM_I_FLAG	CICS called flag
(5)	CHARACTER	3	*	Reserved
(8)	ADDRESS	4	CAUMM_I_SUB_1	1st substitution
(C)	UNSIGNED	4	CAUMM_I_ SUB_1_LEN	1st substitution len
(10)	ADDRESS	4	CAUMM_I_SUB_2	2nd substitution
(14)	UNSIGNED	4	CAUMM_I_ SUB_2_LEN	2nd substitution len
(18)	ADDRESS	4	CAUMM_I_SUB_3	3rd substitution
(1C)	UNSIGNED	4	CAUMM_I_ SUB_3_LEN	3rd substitution len
(20)	ADDRESS	4	CAUMM_I_SUB_4	4th substitution
(24)	UNSIGNED	4	CAUMM_I_ SUB_4_LEN	4th substitution len
(28)	ADDRESS	4	CAUMM_I_SUB_5	5th substitution
(2C)	UNSIGNED	4	CAUMM_I_ SUB_5_LEN	5th substitution len
(30)	CHARACTER	16	*	Reserved
(40)	CHARACTER	136	CAUMM_OUTPUT	Output arguments
(40)	CHARACTER	4	CAUMM_O_ABEND	CICS msg abend code
(44)	UNSIGNED	2	CAUMM_O_ROUTING	Routing information
(46)	UNSIGNED	2	CAUMM_O_MSGLEN	Returned message len

Table 3. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	CHARACTER	107	CAUMM_O_MESSAGE	Returned message
(48)	CHARACTER	10	CAUMM_O_ MSG_NUM	Message number
(52)	CHARACTER	9	CAUMM_O_ MSG_DATE	Message date
(5B)	CHARACTER	9	CAUMM_O_ MSG_TIME	Message time
(64)	CHARACTER	9	CAUMM_O_ MSG_APPLID	
				Message APPLID
(6D)	CHARACTER	70	CAUMM_O_ MSG_TEXT	Message text
(B3)	CHARACTER	21	*	Reserved

`CAUMSGMN internal structures`

Table 4.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	CAUMM_MESSAGE_ RANGE	Message range table
(0)	HALFWORD	2	CAUMM_MR_FIRST	1st msg num in range
(2)	HALFWORD	2	CAUMM_MR_LAST	Last msg num in range
(4)	ADDRESS	4	CAUMM_MR_MSGTAB	Message Info tab ptr

Table 5.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	CAUMM_MESSAGE_ INFO	Message information
(0)	UNSIGNED	1	CAUMM_MI_MSGLEN	Msg skeleton length
(1)	CHARACTER	1	CAUMM_MI_ SEVERITY	Msg severity
(2)	UNSIGNED	2	CAUMM_MI_ROUTING	Msg routing info
(4)	CHARACTER	4	CAUMM_MI_ABEND	Msg CICS abend code
(8)	ADDRESS	4	CAUMM_MI_MSG	Msg skeleton ptr

Constants

Table 6.

Len	Type	value	Name	Description
`CAUMSGMN constants`				

Table 6. (continued)

Len	Type	value	Name	Description
2	DECIMAL	1	CAUMM_MI_CONSOLE	
2	DECIMAL	2	CAUMM_MI_RETURN	
2	DECIMAL	4	CAUMM_MI_TDQ	
2	DECIMAL	8	CAUMM_MI_TERMINAL	
1	CHARACTER	B	CAUMM_IF_BATCH	
1	CHARACTER	C	CAUMM_IF_CICS	

APH8C AP state data for H8 TCB

```
!:refstep.dfhaph8c ---------------------------------- DFHLIDC 556 -
!
!
! APLX uses this control block to store state associated with an XP
! TCB. The lifetime of the TCB exceeds that of a CICS task. The
! ap_xptcb is addressed by the OWNER_TCB_TOKEN which DS domain
! stores (in the DS_TCB) with the SET_TCB function, and returns with
! the INQUIRE_TCB function.
!
! If there is no ap_xptcb, then this is the first use of the x8/x9
! tcb. Generally, fields which are zero indicate that the function
! which sets them needs to be called.
!
! To assist service and dump, the ap_xptcb starts with a length,
! followed by an eyecatcher ">DFHAP_XPTCB". The DS_TCB_TOKEN is
! stored for back-tracking into DS domain. The last_task field is
! set to the packed decimal task number of the most recent CICS task
! to own the TCB, and the STCK value is set at the same time.
!
! The AP trace level is captured once per task.
!
! If the ap_xptcb is empty, we have not started a PIPI environment
! in it. When a PIPI environment is started, the PIPI token is saved
! in APXP_PIPI_TOKEN. When a PIPI environment is terminated, the
! ap_xptcb is cleared.
!
! The LE initial heap size is saved so that each time the heap is
! measured, we can see whether 95% of the heap has been consumed,
! and drive the code to end the enclave.
!
! The number of invocations and the number of enclave
! initialisations allow us to report efficiency.
!
! The PIPI services adaptor returns its parameter list address which
! is passed to PIPI init. It is passed back on other calls, and is
! therefore preserved in the ap_xptcb.
!
!--------------------------------------------------------------------
```

Table 7.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	AP_XPTCB	
(0)	CHARACTER	16	APXP_HEADER	
(0)	HALFWORD	2	APXP_LENGTH	Length of block !
(2)	CHARACTER	1	APXP_ARROW	'>' !

Table 7. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	CHARACTER	3	APXP_DFH	'DFH' !
(6)	CHARACTER	8	APXP_EYECATCHER	'AP_XPTCB' !
(E)	CHARACTER	2	*	
(10)	CHARACTER	8	APXP_DS_ TCB_TOKEN	DS TCB for this !
STCK, TRANID and LAST_TASK are set whenever the X8 or X9 ! TCB is first allocated to a different CICS task. !				
(18)	CHARACTER	8	APXP_STCK	STCK when ... !
(20)	CHARACTER	4	APXP_TRANID	current tranid !
(24)	CHARACTER	1	*	zero terminator ! readability for.!
(25)	CHARACTER	3	APXP_LAST_TASK	packed, =TCAKCTT!
(28)	FULLWORD	4	APXP_AP_ TRACE_LEVEL	
				0 1 or 2 !
(2C)	ADDRESS	4	APXP_PLB	plb for current !
(30)	ADDRESS	4	APXP_PIPI_ SERVICES	PIPI services ve!
(34)	ADDRESS	4	APXP_PIPI_TOKEN	returned by pipi!
(38)	FULLWORD	4	APXP_REUSE_COUNT	
(3C)	FULLWORD	4	APXP_LEHEAP_ INITIAL	
				initial allocati!
(40)	FULLWORD	4	APXP_LEHEAP_SIZE	present allocati!
(44)	FULLWORD	4	APXP_LEHEAP_LAST	previous value o!
(48)	FULLWORD	4	APXP_LEHEAP_NOW	used at last exi! NOW - LAST gives the amount LE sa! used by the invocation just completed.
fields supporting start program optimization				
(4C)	FULLWORD	4	APXP_ENTRY_POINT	ENTRY POINT
(50)	CHARACTER	8	APXP_PROG_NAME	Program Name
(58)	FULLWORD	4	APXP_CEEPIT_ INDEX	rtn index
(5C)	FULLWORD	4	*	reserved
(60)	CHARACTER	0	APXP_PITAREA	will be redefined

Table 8.

Offset Hex	Type	Len	Name (dim)	Description
(60)	STRUCTURE	*	APXP_CEEPITABLE	
(60)	CHARACTER	*	APXP_PITDATA	

APH8S AP Static storage for APLH

```
!:refstep.dfhaplxs ---------------------------------- DFHLIDC 655 -
!
!
! The static storage area address list is pointed at from CSASSA and
! mapped by DFHSSAPS and DFHSSAD. In the address list, APLX_STATIC
! is addressed by SSZAPLX (SSAAPLX in DFHSSAD if needed in
! Assembler). APLX uses static (global) storage for several reasons:
!
! - To record that the X8/X9 modes has been activated.
!
! - To manage the termination of enclaves on X8/X9 TCBs when
! programs are refreshed.
!
!---------------------------------------------------------------------
```

Table 9.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	APLX_STATIC	
(0)	CHARACTER	16	APLXS_HEADER	
(0)	HALFWORD	2	APLXS_LENGTH	Length of block
(2)	CHARACTER	1	APLXS_ARROW	'>'
(3)	CHARACTER	3	APLXS_DFH	'DFH'
(6)	CHARACTER	10	APLXS_EYECATCHER	'APLXSTATIC'
(10)	CHARACTER	8	APLXS_REFRESH	STCK at latest refresh
(18)	UNSIGNED	4	APLXS_XP_STATE	flag bits
	1...		APLXS_XP_UP	XPLINK modes activated
(1C)	CHARACTER	16	APLXS_SUMMARY_STATS	
(1C)	FULLWORD	4	APLXS_COUNT_PIPI_INIT	
(20)	FULLWORD	4	APLXS_COUNT_LOADEXE	
(24)	FULLWORD	4	APLXS_COUNT_CALLMAIN	
(28)	ADDRESS	4	*	reserved
(2C)	FULLWORD	4	APLXS_TUNING_STATS	
Information from storage notify Information from terminating enclaves Information from DFHAPH8O				
(30)	ADDRESS	4	*	reserved

BAACT BAM Activity Class

```
  Restricted Materials of IBM

! What follows defines the Business Application Manager Event Driven
! Object Class.
!
!--------------------------------------------------------------------
!:refstep.BAEV_Copybook_Prolog ------------------------ DFHBAEV 76 -
!
! Protect against mulitple inclusion.
!
!--------------------------------------------------------------------
!:erefstep.BAEV_Class ---------------------------------------------
```

Table 10.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	336	ACTIVITY	
INSTANCE DATA				
Inherited Data				
(0)	STRUCTURE Prot	20	BAEV_INSTANCE_ DATA_BLOCK	
(0)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	BAEV_EYE_ CATCHER	eye catcher
(0)	UNSIGNED Prot	2	EYE_LEN	object length
(2)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxxx'
(10)	SIGNED Prot	4	EVENT_POOL_ TOKEN	event pool token
!:erefstep.BAAC_Class_Data -- !:refstep.BAAC_Instance_Data ------------------------ DFHBAACT 567 - ! ! An instance of the Activity class consists of... ! !--				
Declared Data				
(18)	STRUCTURE Prot	306	INSTANCE_ DATA_BLOCK	
(18)	SIGNED Prot	2	INSTANCE_LENGTH	
(1A)	SIGNED Prot	2	INSTANCE_ VERSION	
(1C)	ADDRESS Prot	4	TRANSIENT_PTR	@ transient_state
(20)	STRUCTURE Prot IsA(BAAC_PERMANENT_STATE_TYPE)	298	PERMANENT_STATE	
(20)	STRUCTURE Prot IsA(BALR_KEY)	50	OWN_PROCESS	owning process

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(22)	CHARACTER Publ	44	RID	
(22)	CHARACTER Publ	44	*	
(22)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(22)	CHARACTER Publ	8	PTYPE_NAME	
(2A)	CHARACTER Publ	36	PRO_NAME	
(22)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(22)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(22)	UNSIGNED Publ	1	UID_LEN	
(23)	UNSIGNED Publ	1	UID_LU_ LEN	
(24)	CHARACTER Publ	25	*	
(3D)	CHARACTER Publ	16	ACT_NAME	
(4D)	CHARACTER Publ	1	*	
(4E)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(52)	STRUCTURE Prot IsA(BALR_KEY)	50	PARENT_KEY	
(52)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(54)	CHARACTER Publ	44	RID	
(54)	CHARACTER Publ	44	*	
(54)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(54)	CHARACTER Publ	8	PTYPE_NAME	
(5C)	CHARACTER Publ	36	PRO_NAME	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(54)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(54)	UNSIGNED Publ	1	UID_LEN	
(55)	UNSIGNED Publ	1	UID_LU_ LEN	
(56)	CHARACTER Publ	25	*	
(6F)	CHARACTER Publ	16	ACT_NAME	
(7F)	CHARACTER Publ	1	*	
(80)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(84)	CHARACTER Prot	27	OWN_ROOT_ID	
(9F)	FIXED Prot IsA(ACT_MODE)	1	MODE	
(A0)	CHARACTER Prot	4	PARENT_TRANID	
(A4)	CHARACTER Prot	8	PARENT_USERID	
(AC)	UNSIGNED Prot	1	STARTED	
(AD)	UNSIGNED Prot	1	BLOCKED	
(AE)	CHARACTER Prot	2	*	
(B0)	SIGNED Prot	4	PARENT_ GENERATION	
				parent gen_num
(B4)	STRUCTURE Prot IsA(ACTIVITY_SET)	8	CHILDREN	
(B4)	UNSIGNED Prot	4	N	number of activities
(B8)	ADDRESS Prot	4	HEAD	head of list of activities
(BC)	ADDRESS Prot	4	FLAT_EPOOL_PTR	Flat EM state address
(C0)	SIGNED Prot	4	FLAT_EPOOL_LEN	Flat EM state length
(C4)	SIGNED Prot	4	GENERATION	Generation Number
(C8)	OBJECT Prot IsA(CONTAINER_SET)	56	CONTAINERS	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.BACS_Constants ---------- !:refstep.BACS_Instance_Data ---------- DFHBACS 223 - ! ! An instance of the Container_Set class consists of... ! ! - items - number of container in the chain, ! ! - size - size of buffer needed to flatten the container chain ! into, ! ! - offset - in the flattened record this is the offset from this ! field to the container chain, ! ! - chain - anchor for the container chain. ! !----------				
(C8)	CHARACTER Prot	56	INSTANCE_ DATA_BLOCK	
(C8)	SIGNED Prot	4	ITEMS	
(CC)	SIGNED Prot	4	SIZE	
(D0)	SIGNED Prot	4	CS_OFFSET	
(D4)	CHARACTER Prot	4	*	
(D8)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
(D8)	CHARACTER Priv	4	*	
(E0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(E0)	CHARACTER Priv	4	*	
(E8)	CHARACTER Prot	8	*	
(E8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(EC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(F0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(F0)	CHARACTER Priv	4	*	
(F8)	CHARACTER Prot	8	*	
(F8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(FC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(100)	STRUCTURE Prot IsA(ACTIVITY_ATTRIBS)	44	ATTRIBUTES	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(100)	CHARACTER Prot	8	PROGRAM	program name
(108)	CHARACTER Prot	8	*	
(110)	CHARACTER Prot	4	TRANID	transaction ID
(114)	CHARACTER Prot	8	USERID	user identifier
(11C)	CHARACTER Prot	16	COMPLETION_ EVENT	
				completion event
(12C)	STRUCTURE Prot IsA(ACTIVITY_COMP_DATA)	13	COMPLETION_ DATA	
(12C)	UNSIGNED Publ IsA(ACT_COMPLETION_RESP)	1	COMPLETION_ RESP	
(12D)	CHARACTER Publ	4	AB_CODE	
(131)	CHARACTER Publ	8	AB_PROGRAM	
(139)	UNSIGNED Prot IsA(AUDITLEVEL)	1	AUDIT_LEVEL	Audit level
(13A)	CHARACTER Prot	8	AUDIT_LOG	Audit log name
(142)	CHARACTER Prot	8	*	
!:erefstep.baac_activity_flat_length ----------				
(0)	CHARACTER Prot	8	PTYPE	
(0)	CHARACTER Prot	36	PNAME	
(0)	STRUCTURE Prot IsA(BAAC_TRANSIENT_STATE_TYPE)	136	TRANSIENT_STATE	
(0)	BIT(8) Prot	1	TRANSIENT_FLAGS	
	1... .... Prot		ACT_INSTORE	
	.1.. .... Prot		ACT_IN_BUFFERS	
	..1. .... Prot		BRAND_NEW	
	...1 .... Prot		*	
	.... 1... Prot		*	
	.... .1.. Prot		ACTIVATED	
	.... ..1. Prot		RET_ENDACTIVITY	EndActivity specified on return

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	....1 Prot		*	
(1)	CHARACTER Prot	3	*	
(4)	OBJECT Prot IsA(BABU)	112	ACTIVITY_RECORD	Buffers for record data
!:refstep.BABU_Instance_Data ------------------------- DFHBABU 111 - Restricted Materials of IBM ! ! An instance of the buffer class contains the first in a list of ! segments. Segments are chained together if there is more data than ! can fit in one segment. ! !----------				
(4)	CHARACTER Publ	112	INSTANCE_ DATA_BLOCK	
(4)	CHARACTER Publ	60	BABU_PUBLIC	
(4)	CHARACTER Publ IsA(BARF)	8	FILENAME	file name
(C)	STRUCTURE Publ IsA(BALR_KEY)	50	KEY	key of object
(C)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(E)	CHARACTER Publ	44	RID	
(E)	CHARACTER Publ	44	*	
(E)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(E)	CHARACTER Publ	8	PTYPE_NAME	
(16)	CHARACTER Publ	36	PRO_NAME	
(E)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ ID	
(E)	CHARACTER Publ	27	UNIQUE_ ID	like a Network UOWid
(E)	UNSIGNED Publ	1	UID_LEN	
(F)	UNSIGNED Publ	1	UID_LU_ LEN	
(10)	CHARACTER Publ	25	*	
(29)	CHARACTER Publ	16	ACT_NAME	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(39)	CHARACTER Publ	1	*	
(3A)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(3E)	CHARACTER Publ	2	*	
(40)	CHARACTER Priv	52	BABU_PRIVATE	
(40)	FIXED Priv IsA(BABU_MODE)	1	BABU_BUF_ MODE	
(41)	FIXED Priv IsA(BABU_STATE)	1	BABU_BUF_ STATE	
(42)	CHARACTER Priv	2	*	
(44)	SIGNED Priv	4	BABU_SEG_LEN	
(48)	ADDRESS Priv	4	BABU_SEG_ LIST_HEAD	
(4C)	ADDRESS Priv	4	BABU_SEG_ LIST_TAIL	
(50)	ADDRESS Priv	4	BABU_CURRENT_ PTR	
(54)	SIGNED Priv	4	BABU_CURRENT_ OFFS	
(58)	STRUCTURE Priv IsA(BABU_SEGMENT)	24	BABU_FIRST_ SEG	
(58)	ADDRESS Prot	4	BABU_NEXT_ SEG	address of next segment
(5C)	ADDRESS Prot	4	BABU_STG_ ADD	address of contents of segment
(60)	SIGNED Prot	4	BABU_STG_ LEN	length of storage in segment
(64)	SIGNED Prot	4	BABU_REC_ LEN	length of data in segment
(68)	SIGNED Prot IsA(BALR_RECORD_NUMBER)	4	BABU_SEQ	segment number
(6C)	SIGNED Prot	4	BABU_FC_ UTOKEN	
				FC update token for segment
(70)	ADDRESS Priv	4	BABU_WRITE_ STG_ADD	
(74)	ADDRESS Prot	4	PERMANENT_PTR	
(78)	CHARACTER Prot	4	SOURCE_REF	
(78)	ADDRESS Prot	4	ACT_REQ_PTR	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7C)	ADDRESS Prot	4	PARENT_ADD	
(80)	ADDRESS Prot	4	NEXT	
(84)	ADDRESS Prot	4	PREV	

```
!:refstep.BAAC_Types -------------------------------- DFHBAACT 335 -
!
! Changing these structure types will affect the format of the
! repository file records. Alter with care, and remember to consider
! the impacts on the Repository File Batch Utility - DFHBARUP.
!
!---------------------------------------------------------------------
!:refstep.Activity_Ref_Type ------------------------- DFHBAACT 363 -
!
! This is a very important type within the Activity Class.
!
! For an activity, it associates a parental activity name (how the
! activity program of a parent refers to a child activity), with the
! token to the activity state in the dataset (Repository File) and
! any in-memory instantiation of the activity that might exist.
!
! Each activity may contain many instances of this type.
!
! relative_activity_id
! how the activity is identified in the dataset
! act_add
! address of start of this activity object
!
! parent
! identification of this activity's parent
! children
! identification of child activities in the child_set.
!
!---------------------------------------------------------------------
```

SHARED DATA				
Declared Data				
(0)	STRUCTURE Publ	56	ACTIVITY_REF	
(0)	CHARACTER Publ IsA(BALR_KEY)	50	ACT_KEY	Identification in dataset
(0)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(2)	CHARACTER Publ	44	RID	
(2)	CHARACTER Publ	44	*	
(2)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(2)	CHARACTER Publ	8	PTYPE_NAME	
(A)	CHARACTER Publ	36	PRO_NAME	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(2)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(2)	UNSIGNED Publ	1	UID_LEN	
(3)	UNSIGNED Publ	1	UID_LU_LEN	
(4)	CHARACTER Publ	25	*	
(1D)	CHARACTER Publ	16	ACT_NAME	
(2D)	CHARACTER Publ	1	*	
(2E)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	Identification in dataset
(32)	CHARACTER Publ	2	*	
(34)	ADDRESS Publ	4	ACT_ADD	Instantiated object address
!:refstep.Activity_Attributes_Type ------------------- DFHBAACT 405 - ! ! Here are the various definitional attributes of activities. ! !----------				
(0)	STRUCTURE Prot	44	ACTIVITY_ATTRIBS	
(0)	CHARACTER Prot	8	PROGRAM	program name
(8)	CHARACTER Prot	8	*	reserved
(10)	CHARACTER Prot	4	TRANID	transaction ID
(14)	CHARACTER Prot	8	USERID	user identifier
(1C)	CHARACTER Prot	16	COMPLETION_ EVENT	completion event
!:refstep.Activity_Completion_Data_Type -------------- DFHBAACT 417 - ! ! Here are various attributes of the activity relevant at ! completion. ! !----------				
(0)	STRUCTURE Publ	13	ACTIVITY_ COMP_DATA	
(0)	FIXED Publ IsA(ACT_COMPLETION_RESP)	1	COMPLETION_RESP	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	CHARACTER Publ	4	AB_CODE	
(5)	CHARACTER Publ	8	AB_PROGRAM	
(0)	STRUCTURE Prot	8	ACTIVITY_SET	
(0)	UNSIGNED Prot	4	N	number of activities
(4)	ADDRESS Prot	4	HEAD	head of list of activities
```! ! Every member in a activity_set contains an activity_ref to the ! activity and some element attributes. ! !--```				
(0)	FIXED Prot	4	CHILD_MODE	
(0)	STRUCTURE Prot	69	ACTIVITY_ SET_ELEMENT	
(0)	ADDRESS Prot	4	NEXT_ELEM	pointer to next in set
(4)	STRUCTURE Prot IsA(ACTIVITY_REF)	56	ACT_REF	identification of activity
(4)	STRUCTURE Publ IsA(BALR_KEY)	50	ACT_KEY	Identification in dataset
(4)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(6)	CHARACTER Publ	44	RID	
(6)	CHARACTER Publ	44	*	
(6)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(6)	CHARACTER Publ	8	PTYPE_NAME	
(E)	CHARACTER Publ	36	PRO_NAME	
(6)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(6)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(6)	UNSIGNED Publ	1	UID_LEN	
(7)	UNSIGNED Publ	1	UID_LU_ LEN	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER Publ	25	*	
(21)	CHARACTER Publ	16	ACT_NAME	
(31)	CHARACTER Publ	1	*	
(32)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(36)	CHARACTER Publ	2	*	
(38)	ADDRESS Publ	4	ACT_ADD	identification of activity
(3C)	SIGNED Prot	4	SUB_GEN_NO	generation no of child
(40)	FIXED Prot IsA(CHILD_MODE)	4	SUB_MODE	simplified mode of child
(44)	BIT(8) Prot	1	*	
	1... .... Prot		UNFLATTENED	
	.111 1111 Prot		*	
(0)	CHARACTER Prot	11	FLAT_SET_ ELEMENT_SPACE	
!:erefstep.baac_set_element_flat_length ---------- !:erefstep.Activity_Set_Element_Type ---------- !:refstep.Activity_Modes ---------- DFHBAACT 460 - ! ! These are the modes of the activity, as documented in the ! specificaion DFHBAZED. ! !----------				
(0)	FIXED Publ	1	ACT_MODE	
!:erefstep.Activity_Modes ----------				
(0)	FIXED Publ	1	ACT_COMPLETION_ RESP	
!:refstep.Activity_Id_Type ---------- DFHBAACT 392 - ! ! This is a fully qualified identification of the activity, used in ! Scheduler Services requests. It includes the generation number of ! the activity. ! !----------				
(0)	STRUCTURE Publ	112	ACTIVITY_ID	
(0)	CHARACTER Publ IsA(BARF)	8	PROC_FILE	
(8)	CHARACTER Publ IsA(BALR_KEY)	50	PRO_LR_KEY	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(A)	CHARACTER Publ	44	RID	
(A)	CHARACTER Publ	44	*	
(A)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(A)	CHARACTER Publ	8	PTYPE_NAME	
(12)	CHARACTER Publ	36	PRO_NAME	
(A)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(A)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(A)	UNSIGNED Publ	1	UID_LEN	
(B)	UNSIGNED Publ	1	UID_LU_LEN	
(C)	CHARACTER Publ	25	*	
(25)	CHARACTER Publ	16	ACT_NAME	
(35)	CHARACTER Publ	1	*	
(36)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(3A)	STRUCTURE Publ IsA(BALR_KEY)	50	ACT_LR_KEY	
(3A)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(3C)	CHARACTER Publ	44	RID	
(3C)	CHARACTER Publ	44	*	
(3C)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(3C)	CHARACTER Publ	8	PTYPE_NAME	
(44)	CHARACTER Publ	36	PRO_NAME	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(3C)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(3C)	UNSIGNED Publ	1	UID_LEN	
(3D)	UNSIGNED Publ	1	UID_LU_LEN	
(3E)	CHARACTER Publ	25	*	
(57)	CHARACTER Publ	16	ACT_NAME	
(67)	CHARACTER Publ	1	*	
(68)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(6C)	SIGNED Publ	4	ACT_GEN_NO	
!:erefstep.Activity_Id_Type ---------- !:refstep.Activity_Request_Type ---------- DFHBAACT 486 - ! ! A request, passed on SH (but encapsulated) and passed to BAXM and ! field types and constants. ! !---------- Request_Action the basic type of request being made				
(0)	FIXED Publ	1	REQUEST_ACTION	
Request_Reason the reason for the request (varies with action)				
(0)	FIXED Publ	1	REQUEST_REASON	
(0)	STRUCTURE Publ	275	ACTIVITY_REQUEST	
(0)	STRUCTURE Publ IsA(ACTIVITY_ID)	112	TARGET	
(0)	CHARACTER Publ IsA(BARF)	8	PROC_FILE	
(8)	STRUCTURE Publ IsA(BALR_KEY)	50	PRO_LR_KEY	
(8)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(A)	CHARACTER Publ	44	RID	
(A)	CHARACTER Publ	44	*	
(A)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A)	CHARACTER Publ	8	PTYPE_NAME	
(12)	CHARACTER Publ	36	PRO_NAME	
(A)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(A)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(A)	UNSIGNED Publ	1	UID_LEN	
(B)	UNSIGNED Publ	1	UID_LU_ LEN	
(C)	CHARACTER Publ	25	*	
(25)	CHARACTER Publ	16	ACT_NAME	
(35)	CHARACTER Publ	1	*	
(36)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(3A)	STRUCTURE Publ IsA(BALR_KEY)	50	ACT_LR_KEY	
(3A)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(3C)	CHARACTER Publ	44	RID	
(3C)	CHARACTER Publ	44	*	
(3C)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(3C)	CHARACTER Publ	8	PTYPE_NAME	
(44)	CHARACTER Publ	36	PRO_NAME	
(3C)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(3C)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(3C)	UNSIGNED Publ	1	UID_LEN	
(3D)	UNSIGNED Publ	1	UID_LU_ LEN	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3E)	CHARACTER Publ	25	*	
(57)	CHARACTER Publ	16	ACT_NAME	
(67)	CHARACTER Publ	1	*	
(68)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(6C)	SIGNED Publ	4	ACT_GEN_NO	
(70)	STRUCTURE Publ IsA(ACTIVITY_ID)	112	ORIGIN	
(70)	CHARACTER Publ IsA(BARF)	8	PROC_FILE	
(78)	STRUCTURE Publ IsA(BALR_KEY)	50	PRO_LR_KEY	
(78)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(7A)	CHARACTER Publ	44	RID	
(7A)	CHARACTER Publ	44	*	
(7A)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(7A)	CHARACTER Publ	8	PTYPE_NAME	
(82)	CHARACTER Publ	36	PRO_NAME	
(7A)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(7A)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(7A)	UNSIGNED Publ	1	UID_LEN	
(7B)	UNSIGNED Publ	1	UID_LU_ LEN	
(7C)	CHARACTER Publ	25	*	
(95)	CHARACTER Publ	16	ACT_NAME	
(A5)	CHARACTER Publ	1	*	
(A6)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(AA)	STRUCTURE Publ IsA(BALR_KEY)	50	ACT_LR_KEY	
(AA)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(AC)	CHARACTER Publ	44	RID	
(AC)	CHARACTER Publ	44	*	
(AC)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(AC)	CHARACTER Publ	8	PTYPE_NAME	
(B4)	CHARACTER Publ	36	PRO_NAME	
(AC)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(AC)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(AC)	UNSIGNED Publ	1	UID_LEN	
(AD)	UNSIGNED Publ	1	UID_LU_ LEN	
(AE)	CHARACTER Publ	25	*	
(C7)	CHARACTER Publ	16	ACT_NAME	
(D7)	CHARACTER Publ	1	*	
(D8)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(DC)	SIGNED Publ	4	ACT_GEN_NO	
(E0)	STRUCTURE Publ IsA(IN_STORE_TARGET)	16	IS_TARGET	iff in_store='1'b
(E0)	ADDRESS Publ	4	IS_ACT_PTR	
(E4)	SIGNED Publ	4	IS_ACT_LEN	
(E8)	ADDRESS Publ	4	IS_PRO_PTR	
(EC)	SIGNED Publ	4	IS_PRO_LEN	
(F0)	CHARACTER Publ	16	EVENT	fire parm
(100)	UNSIGNED Publ	4	EVENT_VERSION	event version (or zero)
(104)	BIT(8) Publ	1	REQUEST_FLAGS	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1... .... Publ		IN_STORE	
	.1.. .... Publ		BAD_EVENT	
	..1. .... Publ		BRIDGE_X	
	...1 1111 Publ		*	
(105)	FIXED Publ IsA(REQUEST_ACTION)	1	REQ_TYPE	
(106)	FIXED Publ IsA(REQUEST_REASON)	1	REQ_REASON	why request
(107)	CHARACTER Publ	4	ORIGIN_TRANID	
(10B)	CHARACTER Publ	8	BRIDGE_ FACILITY_TOKEN	
(0)	STRUCTURE Publ	16	IN_STORE_TARGET	
(0)	ADDRESS Publ	4	IS_ACT_PTR	
(4)	SIGNED Publ	4	IS_ACT_LEN	
(8)	ADDRESS Publ	4	IS_PRO_PTR	
(C)	SIGNED Publ	4	IS_PRO_LEN	
!:erefstep.Activity_Request_Type ----------				
(0)	FIXED Publ	1	EXEC_MODE	
!:erefstep.BAAC_Types ---------- !:refstep.BAAC_Class_Data ---------- DFHBAACT 537 - ! ! Class Data for the Activity Class is declared as a private type. ! Storage for it is obtained for a single instance of the type from ! BADM during initialisation. BADM also looks after addressing it ! (via badm_set/inq_class_data). ! !----------				
(0)	STRUCTURE Prot	88	BAAC_CLASS_ DATA_TYPE	
(0)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	CLASS_EYE_ CATCHER	eye catcher
(0)	UNSIGNED Prot	2	EYE_LEN	object length
(2)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxxx'
(10)	OBJECT Prot IsA(BAOF)	40	TRANSIENT_ OBJECT_FACTORY	
				object factory for transient state

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.baof_instance_data ------------------------- DFHBAOF 158 - ! ! The instance data contains an eye-catcher, a subpool name, and a ! subpool token. The subpool name is used as a remark when ! allocating and freeing storage. It consists of the prefix 'BAOF' ! and a suffix which is the name of the object being managed. ! !----------				
(10)	CHARACTER Prot	40	INSTANCE_ DATA_BLOCK	
				BAOF instance data
(10)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	OF_EYE_ CATCHER	eye-catcher
(10)	UNSIGNED Prot	2	EYE_LEN	object length
(12)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(14)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxx'
(20)	CHARACTER Prot	8	SUBPOOL_NAME	subpool name
(20)	CHARACTER Prot	4	SUBPOOL_ NAME_PREFIX	
				subpool name prefix
(24)	CHARACTER Prot	4	SUBPOOL_ NAME_SUFFIX	
				subpool name suffix
(28)	CHARACTER Prot	8	SUBPOOL_TOKEN	subpool token
(30)	CHARACTER Prot	8	*	
(38)	CHARACTER Prot	32	*	
(0)	STRUCTURE Prot	298	BAAC_PERMANENT_ STATE_TYPE	
(0)	STRUCTURE Prot IsA(BALR_KEY)	50	OWN_PROCESS	owning process
(0)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(2)	CHARACTER Publ	44	RID	
(2)	CHARACTER Publ	44	*	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(2)	CHARACTER Publ	8	PTYPE_NAME	
(A)	CHARACTER Publ	36	PRO_NAME	
(2)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(2)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(2)	UNSIGNED Publ	1	UID_LEN	
(3)	UNSIGNED Publ	1	UID_LU_LEN	
(4)	CHARACTER Publ	25	*	
(1D)	CHARACTER Publ	16	ACT_NAME	
(2D)	CHARACTER Publ	1	*	
(2E)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(32)	STRUCTURE Prot IsA(BALR_KEY)	50	PARENT_KEY	parent Activity
(32)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(34)	CHARACTER Publ	44	RID	
(34)	CHARACTER Publ	44	*	
(34)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(34)	CHARACTER Publ	8	PTYPE_NAME	
(3C)	CHARACTER Publ	36	PRO_NAME	
(34)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(34)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(34)	UNSIGNED Publ	1	UID_LEN	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(35)	UNSIGNED Publ	1	UID_LU_LEN	
(36)	CHARACTER Publ	25	*	
(4F)	CHARACTER Publ	16	ACT_NAME	
(5F)	CHARACTER Publ	1	*	
(60)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(64)	CHARACTER Prot	27	OWN_ROOT_ID	root id
(7F)	FIXED Prot IsA(ACT_MODE)	1	MODE	this activity mode
(80)	CHARACTER Prot	4	PARENT_TRANID	
(84)	CHARACTER Prot	8	PARENT_USERID	
(8C)	UNSIGNED Prot	1	STARTED	
(8D)	UNSIGNED Prot	1	BLOCKED	
(8E)	CHARACTER Prot	2	*	
(90)	SIGNED Prot	4	PARENT_ GENERATION	parent gen_num
(94)	STRUCTURE Prot IsA(ACTIVITY_SET)	8	CHILDREN	
(94)	UNSIGNED Prot	4	N	number of activities
(98)	ADDRESS Prot	4	HEAD	head of list of activities
(9C)	ADDRESS Prot	4	FLAT_EPOOL_PTR	Flat EM state address
(A0)	SIGNED Prot	4	FLAT_EPOOL_LEN	Flat EM state length
(A4)	SIGNED Prot	4	GENERATION	Generation Number
(A8)	OBJECT Prot IsA(CONTAINER_SET)	56	CONTAINERS	
(A8)	CHARACTER Prot	56	INSTANCE_ DATA_BLOCK	
(A8)	SIGNED Prot	4	ITEMS	
(AC)	SIGNED Prot	4	SIZE	
(B0)	SIGNED Prot	4	CS_OFFSET	
(B4)	CHARACTER Prot	4	*	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B8)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
Inherited Data				
(B8)	CHARACTER Priv	4	*	
(C0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(C0)	CHARACTER Priv	4	*	
(C8)	CHARACTER Prot	8	*	
(C8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(CC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(D0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(D0)	CHARACTER Priv	4	*	
(D8)	CHARACTER Prot	8	*	
(D8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(DC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(E0)	STRUCTURE Prot IsA(ACTIVITY_ATTRIBS)	44	ATTRIBUTES	
(E0)	CHARACTER Prot	8	PROGRAM	program name
(E8)	CHARACTER Prot	8	*	
(F0)	CHARACTER Prot	4	TRANID	transaction ID
(F4)	CHARACTER Prot	8	USERID	user identifier
(FC)	CHARACTER Prot	16	COMPLETION_EVENT	completion event
(10C)	STRUCTURE Prot IsA(ACTIVITY_COMP_DATA)	13	COMPLETION_DATA	
(10C)	UNSIGNED Publ IsA(ACT_COMPLETION_RESP)	1	COMPLETION_RESP	
(10D)	CHARACTER Publ	4	AB_CODE	
(111)	CHARACTER Publ	8	AB_PROGRAM	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(119)	FIXED Prot IsA(AUDITLEVEL)	1	AUDIT_LEVEL	Audit level
(11A)	CHARACTER Prot	8	AUDIT_LOG	Audit log name
(122)	CHARACTER Prot	8	*	
(0)	STRUCTURE Prot	136	BAAC_TRANSIENT_ STATE_TYPE	
(0)	BIT(8) Prot	1	TRANSIENT_FLAGS	
	1... .... Prot		ACT_INSTORE	
	.1.. .... Prot		ACT_IN_BUFFERS	
	..1. .... Prot		BRAND_NEW	
	...1 .... Prot		*	
	.... 1... Prot		*	
	.... .1.. Prot		ACTIVATED	
	.... ..1. Prot		RET_ENDACTIVITY	EndActivity specified on return
	....1 Prot		*	
(1)	CHARACTER Prot	3	*	
(4)	OBJECT Prot IsA(BABU)	112	ACTIVITY_RECORD	Buffers for record data
(4)	CHARACTER Publ	112	INSTANCE_ DATA_BLOCK	
(4)	CHARACTER Publ	60	BABU_PUBLIC	
(4)	CHARACTER Publ IsA(BARF)	8	FILENAME	file name
(C)	STRUCTURE Publ IsA(BALR_KEY)	50	KEY	key of object
(C)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(E)	CHARACTER Publ	44	RID	
(E)	CHARACTER Publ	44	*	
(E)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(E)	CHARACTER Publ	8	PTYPE_NAME	
(16)	CHARACTER Publ	36	PRO_NAME	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ ID	
(E)	CHARACTER Publ	27	UNIQUE_ ID	like a Network UOWid
(E)	UNSIGNED Publ	1	UID_LEN	
(F)	UNSIGNED Publ	1	UID_LU_ LEN	
(10)	CHARACTER Publ	25	*	
(29)	CHARACTER Publ	16	ACT_NAME	
(39)	CHARACTER Publ	1	*	
(3A)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(3E)	CHARACTER Publ	2	*	
(40)	CHARACTER Priv	52	BABU_PRIVATE	buffers for record data
(40)	FIXED Priv IsA(BABU_MODE)	1	BABU_BUF_ MODE	buffers for record data
(41)	FIXED Priv IsA(BABU_STATE)	1	BABU_BUF_ STATE	buffers for record data
(42)	CHARACTER Priv	2	*	
(44)	SIGNED Priv	4	BABU_SEG_LEN	buffers for record data
(48)	ADDRESS Priv	4	BABU_SEG_ LIST_HEAD	
				buffers for record data
(4C)	ADDRESS Priv	4	BABU_SEG_ LIST_TAIL	
				buffers for record data
(50)	ADDRESS Priv	4	BABU_CURRENT_ PTR	
				buffers for record data
(54)	SIGNED Priv	4	BABU_CURRENT_ OFFS	
				buffers for record data
(58)	STRUCTURE Priv IsA(BABU_SEGMENT)	24	BABU_FIRST_ SEG	buffers for record data

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	ADDRESS Prot	4	BABU_NEXT_ SEG	address of next segment
(5C)	ADDRESS Prot	4	BABU_STG_ ADD	address of contents of segment
(60)	SIGNED Prot	4	BABU_STG_ LEN	length of storage in segment
(64)	SIGNED Prot	4	BABU_REC_ LEN	length of data in segment
(68)	SIGNED Prot IsA(BALR_RECORD_NUMBER)	4	BABU_SEQ	segment number
(6C)	SIGNED Prot	4	BABU_FC_ UTOKEN	
				FC update token for segment
(70)	ADDRESS Priv	4	BABU_WRITE_ STG_ADD	
				buffers for record data
(74)	ADDRESS Prot	4	PERMANENT_PTR	pointer to recoverable state
(78)	CHARACTER Prot	4	SOURCE_REF	
(78)	ADDRESS Prot	4	ACT_REQ_PTR	iff act_instore
(7C)	ADDRESS Prot	4	PARENT_ADD	Address of parent
(80)	ADDRESS Prot	4	NEXT	Chain pointers
(84)	ADDRESS Prot	4	PREV	used by EM browse

Constants

Table 11.

Len	Type	value	Name	Description
!:refstep.BACS_Constants ------------------------------ DFHBACS 258 - ! ! Constants used on the interface. ! !----------				
4	DECIMAL	12	BACS_CONTAINER_ NOT_FOUND	
4	DECIMAL	11	BACS_LENGTH_ERROR	
4	DECIMAL	24	BACS_INVALID_ CONTAINER_NAME	
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	
4	DECIMAL	1	BALR_LENGTH_ERROR	

Table 11. (continued)

Len	Type	value	Name	Description
4	DECIMAL	2	BALR_IO_ERROR	
4	DECIMAL	3	BALR_DUPLICATE	
4	DECIMAL	4	BALR_BROWSE_END	
4	DECIMAL	5	BALR_FILE_ UNAVAILABLE	
4	DECIMAL	6	BALR_LOCKED	
4	DECIMAL	7	BALR_FILE_NOT_AUTH	
4	DECIMAL	8	BALR_RECORD_ NOT_FOUND	
4	DECIMAL	9	BALR_TIMEOUT	
4	DECIMAL	0	BALR_FIRST_ RECORD_NUMBER	
Uninit - just been allocated				
1	DECIMAL	0	BABU_STATE_UNINIT	
Init - filename, key and seg length known				
1	DECIMAL	1	BABU_STATE_INIT	
Reading - after read_record performed				
1	DECIMAL	2	BABU_STATE_READING	
Read - all bytes read (so it's been unflattened)				
1	DECIMAL	3	BABU_STATE_READ	
New - after Create_Record				
1	DECIMAL	4	BABU_STATE_NEW	
Writing - after start_write				
1	DECIMAL	6	BABU_STATE_WRITING	
Copied - after end_write, mode=stor				
1	DECIMAL	5	BABU_STATE_COPIED	
Copied - after end_write, mode=disk				
1	DECIMAL	7	BABU_STATE_WRITTEN	
1	DECIMAL	1	BABU_MODE_UNKN	
1	DECIMAL	2	BABU_MODE_DISK	
1	DECIMAL	3	BABU_MODE_COPY	
4	DECIMAL	1	BABU_WRITE_FAILURE	
4	DECIMAL	2	BABU_READ_FAILURE	
4	DECIMAL	3	BABU_FILE_ UNAVAILABLE	
4	DECIMAL	4	BABU_LOCKED	
4	DECIMAL	5	BABU_FILE_NOT_AUTH	
4	DECIMAL	6	BABU_KEY_NOT_FOUND	
4	DECIMAL	7	BABU_DUPLICATE	

Table 11. (continued)

Len	Type	value	Name	Description
4	DECIMAL	8	BABU_RECORD_	BUSY
4	DECIMAL	16384	BABU_MAX_SEG_	LEN
4	DECIMAL	60	BABU_HEADER_	LEN
4	DECIMAL	0	CMODE_INITIAL	not run/linked
4	DECIMAL	1	CMODE_RUN	run/linked
4	DECIMAL	2	CMODE_COMPLETE	completed
!:refstep.baac_set_element_flat_length ---------- DFHBAACT 650 - ! ! The length occupied by an Activity Set Element in a repository ! record is currently set as 80 bytes. This leaves some space should ! the data in the flat form of the object need to increase. ! ! A dummy based variable is declared to provide a compile time check ! that the flat length is sufficient to accomodate the real object. ! !----------				
4	DECIMAL	80	FLAT_SET_ ELEMENT_LENGTH	
				length occupied in records
1	DECIMAL	1	MODE_INITIAL	
1	DECIMAL	2	MODE_ACTIVE	
1	DECIMAL	3	MODE_DORMANT	
1	DECIMAL	4	MODE_CANCELLING	
1	DECIMAL	5	MODE_COMPLETE	
1	DECIMAL	1	COMPLETION_ RESP_INCOMPLETE	
1	DECIMAL	2	COMPLETION_ RESP_NORMAL	
1	DECIMAL	3	COMPLETION_ RESP_FORCED	
1	DECIMAL	4	COMPLETION_ RESP_ABEND_R	
1	DECIMAL	1	FIRE_REQUEST	
1	DECIMAL	2	DISPATCH_REQUEST	
abend_request NOW UNUSED constant(3)				
1	DECIMAL	4	CANCEL_REQUEST	
1	DECIMAL	5	DELETE_REQUEST	
1	DECIMAL	0	RR_UNKNOWN	
1	DECIMAL	1	RR_FIRE_COMPL	
1	DECIMAL	2	RR_FIRE_INPUT	
1	DECIMAL	3	RR_FIRE_TIMER	
1	DECIMAL	5	RR_DELETE_CMD	
1	DECIMAL	6	RR_DELETE_COMPL	

Table 11. (continued)

Len	Type	value	Name	Description
1	DECIMAL	7	RR_DELETE_RESET	
1	DECIMAL	8	RR_DELETE_TREE	
1	DECIMAL	9	RR_CANCEL_CMD	
1	DECIMAL	10	RR_CANCEL_COMPL	
1	DECIMAL	11	RR_CANCEL_FORCE	
1	DECIMAL	12	RR_REATTACH_ACQ	
1	DECIMAL	1	EXEC_ASYNCHRONOUS	
1	DECIMAL	2	EXEC_SYNCHRONOUS	
2	CHARACTER	A	BAAC_ACTIVITY_ RECORD_TYPE	
!:refstep.baac_activity_flat_length ------------------ DFHBAACT 634 - ! ! The length occupied by an Activity in a repository record is ! currently set as 400 bytes. This leaves some space should the data ! in the flat form of the object need to increase. ! !----------				
4	DECIMAL	400	FLAT_ACTIVITY_LENGTH	
! ! A dummy based variable is declared to provide a compile time check ! that the flat length is sufficient to accomodate the real object. ! !----------				
4	DECIMAL	64	FLAT_ACTIVITY_SPARE	

BAAR BAM Audit Record Class

Constants

Table 12.

Len	Type	value	Name	Description
4	DECIMAL	1	AF_DEF_PRO	
4	DECIMAL	2	AF_RUN_PRO	
4	DECIMAL	3	AF_LNK_PRO	
4	DECIMAL	4	AF_ACQ_PRO	
4	DECIMAL	5	AF_RST_PRO	
4	DECIMAL	6	AF_CAN_PRO	
4	DECIMAL	7	AF_SUS_PRO	
4	DECIMAL	8	AF_RES_PRO	
4	DECIMAL	9	AF_PUT_PRO	
4	DECIMAL	10	AF_DEL_PRO	
4	DECIMAL	11	AF_ACTIVATE	
4	DECIMAL	12	AF_COMPLETE	

Table 12. (continued)

Len	Type	value	Name	Description
4	DECIMAL	13	AF_LNK_ACT	
4	DECIMAL	14	AF_DEF_ACT	
4	DECIMAL	15	AF_RUN_ACT	
4	DECIMAL	16	AF_ACQ_ACT	
4	DECIMAL	17	AF_RST_ACT	
4	DECIMAL	18	AF_CAN_ACT	
4	DECIMAL	19	AF_SUS_ACT	
4	DECIMAL	20	AF_RES_ACT	
4	DECIMAL	21	AF_DEL_ACT	
4	DECIMAL	22	AF_DEF_TIM	
4	DECIMAL	23	AF_DEL_TIM	
4	DECIMAL	23	AF_MAX_FUNC	
4	DECIMAL	1	AR_RELEASE_1	
Reason Codes ----------				
4	DECIMAL	62192	LOG_DISABLED	
4	DECIMAL	62193	LOG_NOT_FOUND	
4	DECIMAL	62194	LOG_IS_SYSTEM_LOG	
4	DECIMAL	62195	WRITE_ERROR	
4	DECIMAL	62196	LOG_STATUS_INVALID	
---------- Message Numbers ----------				
4	DECIMAL	101	MNO_XX01	
4	DECIMAL	102	MNO_XX02	

BAACT BAM Container Class

```
!:refstep.BACO_Class ---------------------------------- DFHBACO 114 -
!
!
! What follows defines the Business Application Manager Container
! class.
!
!--------------------------------------------------------------------
!:refstep.BACO_Copybook_Prolog ------------------------ DFHBACO 130 -
!
! Protect against multiple inclusion.
!
!--------------------------------------------------------------------
!:erefstep.BACO_Copybook_Prolog -----------------------------------
```

Table 13.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	48	CONTAINER	

Table 13. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.BACO_Class_Data ---------- !:refstep.BACO_Instance_Data ---------- DFHBACO 192 - ! ! An instance of the Container class consists of... ! !----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	41	INSTANCE_ DATA_BLOCK	
(0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	CHAIN_LINK	chain linkage
Inherited Data				
(0)	CHARACTER Priv	4	*	
(8)	CHARACTER Prot	8	*	
(8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(10)	CHARACTER Prot	16	CONTAINER_NAME	Identifier
(20)	SIGNED Prot	4	DATA_LENGTH	amount of data
(24)	ADDRESS Prot	4	DATA_ADDRESS	address of data
(28)	BIT(8) Prot	1	CONTAINER_FLAGS	various flags
	1... .... Prot		FREE_HEADER	freemain flags
	.111 1111 Prot		*	- reserved
!:erefstep.BACO_Constants ---------- !:refstep.BACO_Class_Data ---------- DFHBACO 171 - ! ! Class Data for the Container Class is declared as a private type. ! Storage for it is obtained for a single instance of the type from ! BADM during initialisation. BADM also looks after addressing it ! (via badm_set/inq_class_data). ! !----------				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	48	BACO_CLASS_ DATA_TYPE	
(0)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	EYE_CATCHER	eye catcher
(0)	UNSIGNED Prot	2	EYE_LEN	object length
(2)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object

Table 13. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxx'
(10)	CHARACTER Prot	32	*	spare space for APARs
(0)	STRUCTURE Prot	1024	BACO_SEGMENT_ TYPE	
(0)	CHARACTER Prot	8	BACO_SEGMENT_ HEADER	
(0)	ADDRESS Prot	4	BACO_NEXT_ SEGMENT	
				addr of next segment
(4)	SIGNED Prot	2	BACO_SEGMENT_ LEN	segment storage length
(6)	BIT(8) Prot	1	*	flags
	1... .... Prot		BACO_FREE_ SEGMENT	
				segment must be freed
	.111 1111 Prot		*	reserved
(7)	CHARACTER Prot	1	*	reserved
(8)	CHARACTER Prot	1016	BACO_SEGMENT_ DATA	

Constants

Table 14.

Len	Type	value	Name	Description
!:refstep.BACO_Constants ------------------------------ DFHBACO 239 - ! ! Return codes etc. used on the interface. ! !--				
4	DECIMAL	11	BACO_LENGTH_ERROR	
4	DECIMAL	1024	BACO_MAX_SEGMENT_LEN	

BAACT BAM Container_Set Class

```
!:refstep.BACS_Class --------------------------------- DFHBACS 169 -
!
!
! What follows defines the Business Application Manager
! Container_Set class.
!
!----------------------------------------------------------------
!:refstep.BACS_Copybook_Prolog ----------------------- DFHBACS 182 -
!
! Protect against multiple inclusion.
```

```
!
!--------------------------------------------------------------------
!:erefstep.BACS_Copybook_Prolog -----------------------------------
```

Table 15.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	56	CONTAINER_SET	
!:erefstep.BACS_Constants ---------- !:refstep.BACS_Instance_Data ---------- DFHBACS 223 - ! ! An instance of the Container_Set class consists of... ! ! - items - number of container in the chain, ! ! - size - size of buffer needed to flatten the container chain ! into, ! ! - offset - in the flattened record this is the offset from this ! field to the container chain, ! ! - chain - anchor for the container chain. ! !----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	56	INSTANCE_ DATA_BLOCK	
(0)	SIGNED Prot	4	ITEMS	
(4)	SIGNED Prot	4	SIZE	
(8)	SIGNED Prot	4	CS_OFFSET	
(C)	CHARACTER Prot	4	*	padding
(10)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
Inherited Data				
(10)	CHARACTER Priv	4	*	
(18)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(28)	CHARACTER Priv	4	*	
(30)	CHARACTER Prot	8	*	

Table 15. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(34)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	

Constants

Table 16.

Len	Type	value	Name	Description
!:refstep.BACS_Constants ------------------------------ DFHBACS 258 - ! ! Constants used on the interface. ! !----------				
4	DECIMAL	12	BACS_CONTAINER_NOT_FOUND	
4	DECIMAL	11	BACS_LENGTH_ERROR	
4	DECIMAL	24	BACS_INVALID_CONTAINER_NAME	
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	

BAACT BAM Process Class

```
!:refstep.BAPR_Class -------------------------------- DFHBAPRO 144 -
!
!
! What follows defines the Business Application Manager Process
! class.
!
!--------------------------------------------------------------------
!:refstep.BAPR_Copybook_Prolog ---------------------- DFHBAPRO 156 -
!
! Protect against mulitple inclusion.
!
!--------------------------------------------------------------------
!:erefstep.BAPR_Copybook_Prolog --------------------------------------
!:refstep.BAPR_Class_Declaration -------------------- DFHBAPRO 177 -
!
! Changing these structure types will affect the format of the
! repository file records. Alter with care, and remember to consider
! the impacts on the Repository File Batch Utility - DFHBARUP.
!
!--------------------------------------------------------------------
```

Table 17.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	160	PROCESS	
INSTANCE DATA				
Declared Data				

Table 17. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE Prot	153	INSTANCE_ DATA_BLOCK	
(0)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	BAPR_EYE_ CATCHER	eye catcher
(0)	UNSIGNED Prot	2	EYE_LEN	object length
(2)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxxx'
(10)	SIGNED Prot	2	INSTANCE_ VERSION	
(12)	SIGNED Prot	2	INSTANCE_LENGTH	
(14)	ADDRESS Prot	4	TRANSIENT_PTR	->transient_state
(18)	CHARACTER Prot	8	PROTYPE_NAME	
(20)	STRUCTURE Prot IsA(ACTIVITY_REF)	56	ROOT_ACT_REF	
(20)	STRUCTURE Publ IsA(BALR_KEY)	50	ACT_KEY	Identification in dataset
(20)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(22)	CHARACTER Publ	44	RID	
(22)	CHARACTER Publ	44	*	
(22)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(22)	CHARACTER Publ	8	PTYPE_NAME	
(2A)	CHARACTER Publ	36	PRO_NAME	
(22)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(22)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(22)	UNSIGNED Publ	1	UID_LEN	
(23)	UNSIGNED Publ	1	UID_LU_ LEN	
(24)	CHARACTER Publ	25	*	

Table 17. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3D)	CHARACTER Publ	16	ACT_NAME	
(4D)	CHARACTER Publ	1	*	
(4E)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(52)	CHARACTER Publ	2	*	
(54)	ADDRESS Publ	4	ACT_ADD	
(58)	OBJECT Prot IsA(CONTAINER_SET)	56	CONTAINERS	process containers

`!:erefstep.BACS_Constants -------------------------------------------`
`!:refstep.BACS_Instance_Data ------------------------- DFHBACS 223 -`
`!`
`! An instance of the Container_Set class consists of...`
`!`
`! - items - number of container in the chain,`
`!`
`! - size - size of buffer needed to flatten the container chain`
`! into,`
`!`
`! - offset - in the flattened record this is the offset from this`
`! field to the container chain,`
`!`
`! - chain - anchor for the container chain.`
`!`
`!----------------------------------------------------------------`				

(58)	CHARACTER Prot	56	INSTANCE_ DATA_BLOCK	
(58)	SIGNED Prot	4	ITEMS	
(5C)	SIGNED Prot	4	SIZE	
(60)	SIGNED Prot	4	CS_OFFSET	
(64)	CHARACTER Prot	4	*	
(68)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
`Inherited Data`				
(68)	CHARACTER Priv	4	*	
(70)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(70)	CHARACTER Priv	4	*	
(78)	CHARACTER Prot	8	*	
(78)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(7C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	

Table 17. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(80)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(80)	CHARACTER Priv	4	*	
(88)	CHARACTER Prot	8	*	
(88)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(8C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(90)	FIXED Prot IsA(AUDITLEVEL)	1	AUDIT_LEVEL	Audit level
(91)	CHARACTER Prot	8	AUDIT_LOG	Audit log
(0)	STRUCTURE Prot IsA(BAPR_TRANSIENT_STATE_TYPE)	124	TRANSIENT_STATE	
(0)	ADDRESS Prot	4	PERMANENT_PTR	Address of permanent state block
(4)	BIT(8) Prot	1	TRANSIENT_FLAGS	
	1... .... Prot		PR_READONLY	no write access
	.1.. .... Prot		UNFLATTENED	
	..1. .... Prot		BRAND_NEW	
	...1 .... Prot		PRO_INSTORE	
	.... 1... Prot		LATERESERVATION	
(5)	CHARACTER Prot	3	*	
(8)	OBJECT Prot IsA(BABU)	112	PROCESS_RECORD	Buffer
!:refstep.BABU_Instance_Data ------------------------- DFHBABU 111 - ! Restricted Materials of IBM ! ! An instance of the buffer class contains the first in a list of ! segments. Segments are chained together if there is more data than ! can fit in one segment. ! !--				
(8)	CHARACTER Publ	112	INSTANCE_ DATA_BLOCK	
(8)	CHARACTER Publ	60	BABU_PUBLIC	
(8)	CHARACTER Publ IsA(BARF)	8	FILENAME	file name
(10)	STRUCTURE Publ IsA(BALR_KEY)	50	KEY	key of object

Table 17. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(12)	CHARACTER Publ	44	RID	
(12)	CHARACTER Publ	44	*	
(12)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(12)	CHARACTER Publ	8	PTYPE_NAME	
(1A)	CHARACTER Publ	36	PRO_NAME	
(12)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ ID	
(12)	CHARACTER Publ	27	UNIQUE_ ID	like a Network UOWid
(12)	UNSIGNED Publ	1	UID_LEN	
(13)	UNSIGNED Publ	1	UID_LU_ LEN	
(14)	CHARACTER Publ	25	*	
(2D)	CHARACTER Publ	16	ACT_NAME	
(3D)	CHARACTER Publ	1	*	
(3E)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(42)	CHARACTER Publ	2	*	
(44)	CHARACTER Priv	52	BABU_PRIVATE	
(44)	FIXED Priv IsA(BABU_MODE)	1	BABU_BUF_ MODE	
(45)	FIXED Priv IsA(BABU_STATE)	1	BABU_BUF_ STATE	
(46)	CHARACTER Priv	2	*	
(48)	SIGNED Priv	4	BABU_SEG_LEN	
(4C)	ADDRESS Priv	4	BABU_SEG_ LIST_HEAD	
(50)	ADDRESS Priv	4	BABU_SEG_ LIST_TAIL	

Table 17. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	ADDRESS Priv	4	BABU_CURRENT_ PTR	
(58)	SIGNED Priv	4	BABU_CURRENT_ OFFS	
(5C)	STRUCTURE Priv IsA(BABU_SEGMENT)	24	BABU_FIRST_ SEG	
(5C)	ADDRESS Prot	4	BABU_NEXT_ SEG	address of next segment
(60)	ADDRESS Prot	4	BABU_STG_ ADD	address of contents of segment
(64)	SIGNED Prot	4	BABU_STG_ LEN	length of storage in segment
(68)	SIGNED Prot	4	BABU_REC_ LEN	length of data in segment
(6C)	SIGNED Prot IsA(BALR_RECORD_NUMBER)	4	BABU_SEQ	segment number
(70)	SIGNED Prot	4	BABU_FC_ UTOKEN	
				FC update token for segment
(74)	ADDRESS Priv	4	BABU_WRITE_ STG_ADD	
(78)	CHARACTER Prot	4	SOURCE_REF	
(78)	ADDRESS Prot	4	ACT_REQ_PTR	
SHARED DATA				
Declared Data				
(0)	CHARACTER Publ	56	NULL_PRO_REF	
(0)	STRUCTURE Publ	56	PROCESS_REF	
(0)	STRUCTURE Publ IsA(BALR_KEY)	50	PRO_KEY	
(0)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(2)	CHARACTER Publ	44	RID	
(2)	CHARACTER Publ	44	*	
(2)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	

Table 17. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER Publ	8	PTYPE_NAME	
(A)	CHARACTER Publ	36	PRO_NAME	
(2)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ID	
(2)	CHARACTER Publ	27	UNIQUE_ID	like a Network UOWid
(2)	UNSIGNED Publ	1	UID_LEN	
(3)	UNSIGNED Publ	1	UID_LU_LEN	
(4)	CHARACTER Publ	25	*	
(1D)	CHARACTER Publ	16	ACT_NAME	
(2D)	CHARACTER Publ	1	*	
(2E)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	
(32)	CHARACTER Publ	2	*	
(34)	ADDRESS Publ	4	PRO_ADD	
(0)	STRUCTURE Prot	124	BAPR_TRANSIENT_STATE_TYPE	
(0)	ADDRESS Prot	4	PERMANENT_PTR	address of permanent state block
(4)	BIT(8) Prot	1	TRANSIENT_FLAGS	
	1... .... Prot		PR_READONLY	no write access
	.1.. .... Prot		UNFLATTENED	
	..1. .... Prot		BRAND_NEW	
	...1 .... Prot		PRO_INSTORE	
	.... 1... Prot		LATERESERVATION	
(5)	CHARACTER Prot	3	*	
(8)	OBJECT Prot IsA(BABU)	112	PROCESS_RECORD	Buffer
(8)	CHARACTER Publ	112	INSTANCE_DATA_BLOCK	
(8)	CHARACTER Publ	60	BABU_PUBLIC	
(8)	CHARACTER Publ IsA(BARF)	8	FILENAME	file name

Table 17. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	STRUCTURE Publ IsA(BALR_KEY)	50	KEY	key of object
(10)	CHARACTER Publ IsA(BALR_RECORD_TYPE)	2	RTYPE	
(12)	CHARACTER Publ	44	RID	
(12)	CHARACTER Publ	44	*	
(12)	STRUCTURE Publ IsA(PROCESS_ID)	44	PRO_ID	
(12)	CHARACTER Publ	8	PTYPE_NAME	
(1A)	CHARACTER Publ	36	PRO_NAME	
(12)	STRUCTURE Publ IsA(RELATIVE_ACTIVITY_ID)	44	REL_ACT_ ID	
(12)	CHARACTER Publ	27	UNIQUE_ ID	like a Network UOWid
(12)	UNSIGNED Publ	1	UID_LEN	
(13)	UNSIGNED Publ	1	UID_LU_ LEN	
(14)	CHARACTER Publ	25	*	
(2D)	CHARACTER Publ	16	ACT_NAME	
(3D)	CHARACTER Publ	1	*	
(3E)	FIXED Priv IsA(BALR_RECORD_NUMBER)	4	*	Buffer
(42)	CHARACTER Publ	2	*	Buffer
(44)	CHARACTER Priv	52	BABU_PRIVATE	Buffer
(44)	FIXED Priv IsA(BABU_MODE)	1	BABU_BUF_ MODE	Buffer
(45)	FIXED Priv IsA(BABU_STATE)	1	BABU_BUF_ STATE	Buffer
(46)	CHARACTER Priv	2	*	Buffer
(48)	SIGNED Priv	4	BABU_SEG_LEN	Buffer
(4C)	ADDRESS Priv	4	BABU_SEG_ LIST_HEAD	
				Buffer

Table 17. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	ADDRESS Priv	4	BABU_SEG_ LIST_TAIL	
				Buffer
(54)	ADDRESS Priv	4	BABU_CURRENT_ PTR	
				Buffer
(58)	SIGNED Priv	4	BABU_CURRENT_ OFFS	
				Buffer
(5C)	STRUCTURE Priv IsA(BABU_SEGMENT)	24	BABU_FIRST_ SEG	Buffer
(5C)	ADDRESS Prot	4	BABU_NEXT_ SEG	address of next segment
(60)	ADDRESS Prot	4	BABU_STG_ ADD	address of contents of segment
(64)	SIGNED Prot	4	BABU_STG_ LEN	length of storage in segment
(68)	SIGNED Prot	4	BABU_REC_ LEN	length of data in segment
(6C)	SIGNED Prot IsA(BALR_RECORD_NUMBER)	4	BABU_SEQ	segment number
(70)	SIGNED Prot	4	BABU_FC_ UTOKEN	
				FC update token for segment
(74)	ADDRESS Priv	4	BABU_WRITE_ STG_ADD	
				Buffer
(78)	CHARACTER Prot	4	SOURCE_REF	
(78)	ADDRESS Prot	4	ACT_REQ_PTR	pro_instore - act request

Constants

Table 18.

Len	Type	value	Name	Description
2	CHARACTER	P	BAPR_PROCESS_ RECORD_TYPE	
2	DECIMAL	1	BAPR_PROCESS_ INSTANCE_VER_	1

Table 18. (continued)

Len	Type	value	Name	Description
! ! The length occupied by a Process object in a repository record is ! currently set as 200 bytes. This leaves some space should the data ! in the flat form of the object need to increase. ! !----------				
4	DECIMAL	200	FLAT_PROCESS_LENGTH	
! ! A dummy based variable is declared to provide a compile time check ! that the flat length is sufficient to accomodate the real object. ! !----------				
4	DECIMAL	40	FLAT_PROCESS_SPARE	

BAPT BAM Processtype Class

```
!:refstep.BAPT_Class ---------------------------------- DFHBAPT 117 -
!
!
! What follows defines the Business Application Manager Processtype
! class.
!
!----------------------------------------------------------------------
!:refstep.BAPT_Copybook_Prolog ------------------------ DFHBAPT 132 -
!
! Protect against multiple inclusion.
!
!----------------------------------------------------------------------
!:erefstep.BAPT_Copybook_Prolog -----------------------------------
```

Table 19.

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.BAPT_Class_Data ---------- !:refstep.BAPT_Instance_Data ------------------------- DFHBAPT 228 - ! ! An instance of the Container class consists of... ! !----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	27	INSTANCE_ DATA_BLOCK	
(0)	CHARACTER Prot	8	NAME	identifier
(8)	CHARACTER Prot	8	FILE	file name
(10)	CHARACTER Prot	8	LOG	auditlog name
(18)	FIXED Prot IsA(AUDITLEVEL)	1	LEVEL	level of auditing

Table 19. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(19)	UNSIGNED Prot	1	USERRECS	user recs allowed
(1A)	FIXED Prot IsA(ENABLESTATUS)	1	STATUS	enabled or disabled
SHARED DATA				
Declared Data				
(0)	FIXED Publ	1	ENABLESTATUS	
(0)	FIXED Publ	1	AUDITLEVEL	
!:refstep.BAPT_Class_Data ---------- DFHBAPT 204 - ! ! Class Data for the Processtype Class is declared as a private ! type. Storage for it is obtained for a single instance of the type ! from BADM during initialisation. BADM also looks after addressing ! it (via badm_set/inq_class_data). ! !----------				
(0)	STRUCTURE Prot	52	BAPT_CLASS_ DATA_TYPE	
(0)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	EYE_CATCHER	eye catcher
(0)	UNSIGNED Prot	2	EYE_LEN	object length
(2)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxx'
(10)	CHARACTER Prot	4	PTT_DIRECTORY_ TOKEN	
				token for PTT
(14)	CHARACTER Prot	32	*	

Constants

Table 20.

Len	Type	value	Name	Description
1	DECIMAL	0	ES_DISABLED	
1	DECIMAL	1	ES_ENABLED	
1	DECIMAL	0	AL_OFF	
1	DECIMAL	1	AL_PROCESS	
1	DECIMAL	2	AL_ACTIVITY	
1	DECIMAL	3	AL_FULL	
4	DECIMAL	17	NO_MORE_DATA	
4	DECIMAL	18	NOT_DISABLED	

Table 20. (continued)

Len	Type	value	Name	Description
4	DECIMAL	30	BA_CATALOG_ERROR	
4	DECIMAL	31	BA_DIRECTORY_ERROR	
4	CHARACTER	PTTE	PT_BLOCK_ NAME_VALUE	
8	CHARACTER	PTYPE	CATLG_TYPE	
14	CHARACTER	>DFHBAVPClass	EYE_CATCHER	

BRDCC Bridge Control Blocks

```
!:refstep.dfhbrdc_dcl_brsa ---------------------------- DFHBRDC 106 -
!
!
! Purpose State Data for BR domain
! Key CICS
! Lifetime CICS Lifetime
! Subpool BRGENRAL
! Base Addr cszbrsaa
! Created byDFHAPSI
! Deleted byCICS termination
!
!--------------------------------------------------------------------
```

Table 21.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	960	BRSA	
00 Header				
(0)	CHARACTER	16	*	Header
(0)	UNSIGNED	4	BRSA_LENGTH	
(4)	CHARACTER	8	BRSA_EYE_ CATCHER	>DFHBRSA
(C)	CHARACTER	4	*	reserved
10 Misc				
(10)	CHARACTER	16	*	
(10)	UNSIGNED	4	BRSA_BFB_INDEX	Last value used in token
(14)	UNSIGNED	4	BRSA_MAX_ KEEPTIME	SIT PARM
(18)	CHARACTER	8	BRSA_POOL_TOKEN	BRLK/BRME Pool token
20 Directories				
(20)	CHARACTER	16	*	
(20)	CHARACTER	4	BRSA_BFBE_ DIRECTORY	
				All BFBEs
(24)	ADDRESS	4	BRSA_BFBE_ KEEP_CHAIN	

Table 21. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Kept BFBEs (chain)
(28)	CHARACTER	4	BRSA_BFNB_ DIRECTORY	
				All BFBNs
(2C)	ADDRESS	4	BRSA_BFNB_ KEEP_CHAIN	
				Kept BFNBs (chain)
30 Subpool Tokens				
(30)	CHARACTER	96	*	
(30)	CHARACTER	8	BRSA_GENERAL_ SUBPOOL	
				BRGENRAL
(38)	CHARACTER	8	BRSA_BRPC_ SUBPOOL	BRPC
(40)	CHARACTER	8	BRSA_BSB_ SUBPOOL	BSB
(48)	CHARACTER	8	BRSA_BRVS_ SUBPOOL	BRVS subpool token
(50)	CHARACTER	8	BRSA_BRVSXATT_ SUBPOOL	
				BRVSXA subpool tkn
(58)	CHARACTER	8	BRSA_BRVSCATT_ SUBPOOL	
				BRVSCA subpool tkn
(60)	CHARACTER	8	BRSA_BFNB_ SUBPOOL	BFNB
(68)	CHARACTER	8	BRSA_BMB_ SUBPOOL	BMB
(70)	CHARACTER	8	BRSA_BFBE_ SUBPOOL	BFBE
(78)	CHARACTER	8	BRSA_BRNS_ NSPACE_SUBPOOL	
				NSBLK
(80)	CHARACTER	8	BRSA_BRNS_ FILE_SUBPOOL	
				NSFBLK
(88)	CHARACTER	8	*	Reserved
90 Number Space Gate (BRNS) State Data				
(90)	CHARACTER	48	*	
(90)	BIT(8)	1	BRSA_BRNS_FLAG	1

Table 21. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		BRSA_BRNS_ INIT_COMPLETE	
				initialisation complete
	.1..		BRSA_BRNS_ LOCK_EXCLUSIVE	
				exclusive lock held
	..11 1111		*	reserved
(91)	CHARACTER	3	*	reserved
(94)	ADDRESS	4	BRSA_BRNS_ LOCK_TOKEN	
				lock token
(98)	ADDRESS	4	BRSA_BRNS_ NSPACE_CHAIN	
				number space chain
(9C)	ADDRESS	4	BRSA_BRNS_ FILE_CHAIN	
				file chain
(A0)	CHARACTER	8	BRSA_BRNS_ APPLID	applid
(A8)	CHARACTER	4	BRSA_BRNS_ HASHED_APPLID	
				hashed applid
(AC)	ADDRESS	4	BRSA_BRNS_TOKEN	Connection token
(B0)	UNSIGNED	4	BRSA_BRNS_ NUMBERSPACES	
				Number of numberspaces
(B4)	CHARACTER	12	*	reserved
C0 Subroutine addresses (for icalls)				
(C0)	CHARACTER	16	*	Subroutine addresses
(C0)	ADDRESS	4	BRSA_DFHBRMG_ ADDR	-> DFHBRMG
(C4)	ADDRESS	4	BRSA_DFHBRNS_ ADDR	-> DFHBRNS
(C8)	ADDRESS	4	BRSA_DFHBRME_ ADDR	-> DFHBRME
(CC)	ADDRESS	4	BRSA_DFHBRMF_ ADDR	-> DFHBRMF
D0 State				
(D0)	CHARACTER	752	*	General
(D0)	BIT(8)	1	BRSA_BRFR_FLAG	

Table 21. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		BRSA_NUMBER_ CONNECTED	
				BRNS CONNECT successful
	.1..		BRSA_AIBRIDGE	SIT PARM on=yes off=auto
	..1.		BRSA_AIBRIDGE_ DISABLED	
				A disabled msg issued
	...1		BRSA_RELEASED_ BFNB	
				SET BRFACILITY RELEASED!
	.... 1...		BRSA_RELEASED_ BFBE	
				SET BRFACILITY RELEASED!
	.... .1..		BRSA_SHUTDOWN	CICS shutting down
	.... ..1.		BRSA_IMMEDIATE_ SHUTDOWN	
				CICS immediate shutdown
	1		*	reserved
(D1)	CHARACTER	3	*	reserved
(D4)	ADDRESS	4	BRSA_ISOLATION_ TOKEN	
				SMSR isolation token
(D8)	CHARACTER	8	*	reserved
E0 BFNB Ranges				
(E0)	UNSIGNED	4	BRSA_BFNB_FREE	# BFNBs free
(E4)	UNSIGNED	1	BRSA_BFNB_ RANGE_FREE (729)	
				# BFNBs in range free
(3BD)	CHARACTER	3	*	spare
(3C0)	CHARACTER	0	*	

```
!:erefstep.dfhbrdc_  dcl_brsa ----------------------------------------
!:refstep.dfhbrdc_  dcl_brta --------------------------- DFHBRDC 224 -
!
  ! Purpose Transaction Instance State
```

```
! Key CICS
! Lifetime Task
  ! Subpool CICS Task
  ! Base Addr XM Transaction Token
! Other Addrbfbe_ brta_ptr
! Created byBRXM Init_ XM_Client
  ! Deleted byXM at end of transaction
!
  !------------------------------------------------------------------
```

Table 22.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	176	BRTA	
00 Header				
(0)	CHARACTER	16	BRTA_HEADER	
(0)	UNSIGNED	4	BRTA_LENGTH	
(4)	CHARACTER	8	BRTA_EYE_ CATCHER	>DFHBRTA
(C)	CHARACTER	4	*	reserved
10 Tasks				
(10)	CHARACTER	16	BRTA_TASKS	
(10)	CHARACTER	4	BRTA_DRIVER_ TRANSACTION_ID	
				Driver/Monitor tranid !@PIC
(14)	CHARACTER	4	BRTA_DRIVER_ TASKID	
				Driver/Monitor taskid !
(18)	CHARACTER	4	BRTA_TRANSACTION_ ID	
				User transaction id
(1C)	CHARACTER	4	BRTA_TASKID	User transaction taskid
20 State				
(20)	CHARACTER	80	BRTA_STATE	
(20)	CHARACTER	1	BRTA_CONTEXT	Bridge context
(21)	UNSIGNED	1	BRTA_CALL_ EXIT_FOR_SYNC	
				Call for syncpoint !@P3C
(22)	CHARACTER	1	BRTA_FLAGS	
	1...		BRTA_LOAD_ ADS_DESCRIPTOR	
				Load ADSDs
	.1..		BRTA_BREXIT_ INIT_OK	

Table 22. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Init call to brexit OK
	..1.		BRTA_BREXIT_ ERROR	
				PGLU or BRME error
	...1		BRTA_ACCUM_ SUPPORTED	
				ACCUM supported?
	 1111		*	reserved
(23)	CHARACTER	1	*	reserved
(24)	CHARACTER	2	BRTA_START_CODE	Start code
(26)	CHARACTER	2	*	reserved
(28)	CHARACTER	8	BRTA_USERID	Current userid
20 Bridge Exits				
(30)	CHARACTER	8	BRTA_BREXIT_ PROGRAM	
				Bridge exit
(30)	CHARACTER	8	BRTA_MESSAGE_ TYPE	
				BRIH
(38)	CHARACTER	8	BRTA_FORMATTER_ PROGRAM	
				Bridge exit formatter
40 Identifier				
(40)	CHARACTER	48	BRTA_IDENTIFIER	Value return on INQ TASK
70 Facility				
(70)	CHARACTER	16	BRTA_FACILITY	
(70)	CHARACTER	8	BRTA_FACILITY_ TOKEN	
				Bridge Facility Token
(78)	ADDRESS	4	BRTA_BFB_PTR	-> Bridge Facility Block
(7C)	CHARACTER	4	BRTA_ORIGINAL_ NEXT_TRANID	
				Value in BFB on alloc
80 Control Block				
(80)	CHARACTER	32	BRTA_CONTROL_ BLOCKS	
(80)	ADDRESS	4	BRTA_BRDATA_PTR	-> BRDATA

Table 22. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)	FULLWORD	4	BRTA_BRDATA_LEN	Length BRDATA
(88)	ADDRESS	4	BRTA_BRXA_PTR	-> BRXA
(8C)	FULLWORD	4	BRTA_BRXA_LEN	Length BRXA
(90)	ADDRESS	4	BRTA_BRPC_PTR	-> BRPC
(94)	FULLWORD	4	BRTA_BRPC_LEN	Length BRPC
(98)	CHARACTER	8	*	reserved
A0 External Interfaces				
(A0)	CHARACTER	16	BRTA_EXTERNAL_INTERFACES	
(A0)	CHARACTER	8	BRTA_STATE_TOKEN	PT state token !@L7A
(A8)	CHARACTER	8	*	reserved !@L7A
(B0)	CHARACTER	0	*	

```
!:erefstep.dfhbrdc_  dcl_brta ----------------------------------------
!:refstep.dfhbrdc_  dcl_brpc --------------------------- DFHBRDC 317 -
!
  ! Purpose Primary Client Attach Data
! Key CICS
  ! Lifetime CICS Lifetime
! Subpool BRPC;brsa_ brpc_subpool
! Base Addr xm_ txn_primary_ client_request_block_addr
! Other Addrbrta_ brpc_ptr
! Created byBRAT Attach,BRXM/BAXM INIT_  XM_CLIENT (piggy back)
! Deleted byBRRM Perform_ Commit
!
  !--------------------------------------------------------------------
```

Table 23.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	BRPC	
00 Header				
(0)	CHARACTER	96	BRPC_PREFIX	
(0)	UNSIGNED	4	BRPC_LENGTH	Length of prefix+user data
(4)	CHARACTER	8	BRPC_EYE_CATCHER	>DFHBRPC
(C)	UNSIGNED	4	BRPC_VERSION	0
10 Driver/Monitor information				
(10)	CHARACTER	4	*	Reserved !@PIC
(14)	CHARACTER	1	BRPC_FLAGS	Bridge Flags !@D1A
	1...		BRPC_TAKE_COPY	Piggy back copy !@D1A
	.111 1111		*	reserved !@L7C
(15)	CHARACTER	3	*	reserved

Table 23. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER	8	BRPC_BREXIT_ PROGRAM	
				Bridge exit
(18)	CHARACTER	8	BRPC_MESSAGE_ TYPE	
				BRIH
(20)	CHARACTER	8	BRPC_USERID	Userid
(28)	CHARACTER	4	BRPC_DRIVER_ TRANSACTION_ID	
				Driver/Monitor tranid !@PIA
(2C)	CHARACTER	4	BRPC_DRIVER_ TASKID	
				Driver/Monitor taskid !
30 Attach Options				
(30)	CHARACTER	32	BRPC_ATTACH_ OPTIONS	
				BRAT Options !@L7A
(30)	CHARACTER	8	BRPC_FACILITYTOKEN	
				Facilitytoken !@L7A
(38)	CHARACTER	16	*	Reserved
(48)	CHARACTER	8	BRPC_STATE_ TOKEN	State Token !@L7A
50 START Options				
(50)	CHARACTER	12	*	Reserved !@L7A
(5C)	UNSIGNED	4	BRPC_BRDATA_LEN	Length of user data
60 START Data				
(60)	CHARACTER	0	BRPC_BRDATA	

```
!:erefstep.dfhbrdc_  dcl_brpc ----------------------------------------
!:refstep.dfhbrdc_  dcl_brvs ---------------------------- DFHBRDC 379 -
!
  ! Lifetime of this storage is the lifetime of the BFB
!
  ! This control block is the anchor of the bridge virtual terminal.
  ! It contains control information as well as anchor pointers for all
  ! the other control blocks associated with the virtual terminal.
!
  !--------------------------------------------------------------------
```

Table 24.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	55	BRVS_VIRTUAL_ SCREEN	

Table 24. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	ADDRESS	4	BRVS_SCREEN_ BUFFER_PTR	
				Screen buffer
(4)	ADDRESS	4	BRVS_F_ ATTR_PLANE_PTR	
				Field attribute plane
(8)	ADDRESS	4	BRVS_X_ ATTR_PLANE_PTR	
				Extended attrib plane
(C)	ADDRESS	4	BRVS_C_ ATTR_PLANE_PTR	
				Character attrib plane
(10)	ADDRESS	4	BRVS_FIRST_ ATTR_ELEM	
				Attribute list head
(14)	ADDRESS	4	BRVS_LAST_ ATTR_ELEM	
				Attribute list tail
(18)	ADDRESS	4	BRVS_BROWSE_ START	Browse Start position
(1C)	ADDRESS	4	BRVS_BROWSE_ OFFSET	Offset into buffer
(20)	FULLWORD	4	BRVS_SCREEN_ BUFFER_LEN	
				Length screen buffer
(24)	FULLWORD	4	BRVS_ATTR_ PLANE_LEN	
				Length attrib planes
(28)	FULLWORD	4	BRVS_SCREEN_SIZE	Len of screen buf used
(2C)	FULLWORD	4	BRVS_PLANE_SIZE	Len of attr plane used
(30)	UNSIGNED	2	BRVS_CURSOR_ POSITION	
				Curr cursor position
(32)	CHARACTER	1	BRVS_AID	Current AID value
(33)	CHARACTER	1	BRVS_REPLY_MODE	Device reply mode

Table 24. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		BRVS_FIELD_ MODE_REPLY	
	.1..		BRVS_XFIELD_ MODE_REPLY	
	..1.		BRVS_CHAR_ MODE_REPLY	
	...1 1111		*	
(34)	CHARACTER	1	BRVS_SCREEN_ ATTRIBUTES	
				Screen attributes
	1...		BRVS_DEFAULT_ SCREEN_SIZE	
	.1..		BRVS_ALTERNATE_ SCREEN_SIZE	
	..1.		BRVS_BROWSE_ ACTIVE	
	...1 1111		*	
(35)	CHARACTER	1	BRVS_FORMATTING_ MODE	
				Buffer state
	1...		BRVS_FORMATTED	
	.1..		BRVS_UNFORMATTED	
	..11 1111		*	
(36)	CHARACTER	1	BRVS_REPLY_ MODE_ATTRIBUTES	
				Reply mode attributes
	1...		BRVS_REPLY_ HIGHLIGHT	
	.1..		BRVS_REPLY_ FCOLOR	
	..1.		BRVS_REPLY_ BCOLOR	
	...1		BRVS_REPLY_ CHARSET	
	 1111		*	

```
!:erefstep.dfhbrdc_dcl_brvs ----------------------------------------
!:refstep.dfhbrdc_dcl_brvsxa ------------------------- DFHBRDC 426 -
!
! Lifetime of this storage is the lifetime of the extended attribute
!
! This control holds the values for an extended field attribute for
! one field.
!
!--------------------------------------------------------------------
```

Table 25.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	21	BRVSXA_ELEM	
(0)	ADDRESS	4	BRVSXA_NEXT_ELEM	Next attribute
(4)	ADDRESS	4	BRVSXA_PREV_ELEM	Previous attribute
(8)	ADDRESS	4	BRVSXA_BUFPOS	Buffer position
(C)	CHARACTER	1	BRVSXA_ELEM_TYPE	
	1...		BRVSXA_EXT_ATTR	
	.1..		BRVSXA_ CHAR_ATTR	
	..11 1111		*	
(D)	CHARACTER	1	BRVSXA_HILITE	Highlighting
(E)	CHARACTER	1	BRVSXA_FG_COLOR	Foreground Colour
(F)	CHARACTER	1	BRVSXA_BG_COLOR	Background Colour
(10)	CHARACTER	1	BRVSXA_CHARSET	Character Set
(11)	CHARACTER	1	BRVSXA_OUTLINE	Field Outlining
(12)	CHARACTER	1	BRVSXA_TRANSP	Field Transparency
(13)	CHARACTER	1	BRVSXA_VALIDN	Field Validation
(14)	BIT(8)	1	BRVSXA_FLAGS	
	1...		BRVSXA_MAPFIELD	Field from BMS
	.111 1111		*	

```
!:erefstep.dfhbrdc_  dcl_brvsxa ------------------------------------
!:refstep.dfhbrdc_  dcl_brvsca ------------------------- DFHBRDC 455 -
!
  ! Lifetime of this storage is the lifetime of the extended attribute
!
  ! This control holds the values for an extended field attribute for
! one field.
!
  !--------------------------------------------------------------------
```

Table 26.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	17	BRVSCA_ELEM	
(0)	ADDRESS	4	BRVSCA_NEXT_ELEM	Next attribute

Table 26. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	ADDRESS	4	BRVSCA_PREV_ELEM	Previous attribute
(8)	ADDRESS	4	BRVSCA_BUFPOS	Buffer position
(C)	CHARACTER	1	BRVSCA_ELEM_TYPE	
	1...		BRVSCA_EXT_ATTR	
	.1..		BRVSCA_ CHAR_ATTR	
	..11 1111		*	
(D)	CHARACTER	1	BRVSCA_HILITE	Highlighting
(E)	CHARACTER	1	BRVSCA_FG_COLOR	Foreground Colour
(F)	CHARACTER	1	BRVSCA_BG_COLOR	Background Colour
(10)	CHARACTER	1	BRVSCA_CHARSET	Character Set

```
!:erefstep.dfhbrdc_dcl_brvsca ----------------------------------------
!:refstep.dfhbrdc_dcl_bfnb ---------------------------- DFHBRDC 477 -
!
! Purpose Router State
! Key CICS
! Lifetime CICS Lifetime
! Subpool BR_BFNB;brsa_bfnb_subpool
! Base Addr None
! Directory brsa_bfnb_directory,brsa_bfnb_keep_chain
! Created byBRFR Allocate_Bridge_Facility
! Deleted byBRFR Detach_Bridge_Facility
!
!----------------------------------------------------------------------
```

Table 27.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	BFNB	
00 Header				
(0)	UNSIGNED	4	BFNB_LENGTH	
(4)	CHARACTER	8	BFNB_EYE_CATCHER	'DFHBFNB'
(C)	UNSIGNED	4	BFNB_EXPIRY_TIME	HH word STCK value or 0
10 Instance information				
(10)	ADDRESS	4	BFNB_PREV_PTR	used in chaining
(14)	ADDRESS	4	BFNB_NEXT_PTR	used in chaining
(18)	CHARACTER	8	BFNB_FACILITYTOKEN	Facilitytoken
20 Names				
(20)	CHARACTER	8	BFNB_NETNAME	Netname
(28)	CHARACTER	4	BFNB_TERMID	Termid
(2C)	CHARACTER	4	BFNB_FACILITYLIKE	Facilitylike
(30)	CHARACTER	4	BFNB_SESSID	Generated session id

Table 27. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	UNSIGNED	4	BFNB_SESSID_ INDEX	Index in name table
(38)	FULLWORD	4	BFNB_SEQNO	Sequence number
(3C)	CHARACTER	4	*	Reserved
40 State				
(40)	CHARACTER	4	*	
(40)	CHARACTER	1	BFNB_FLAGS	
	1...		BFNB_LOCKED	BFNB in use
	.1..		BFNB_INITIALISED	Set after xfaintu create for first transaction
	..1.		BFNB_XFAINTU_ CALLED	
				xfaintu driven for create
	...1		BFNB_RELEASED	SET BRFACILITY RELEASED!
	 1111		*	reserved
(41)	CHARACTER	3	*	reserved
(44)	FULLWORD	4	BFNB_FACILITYKEEPTIME	
				Facility keeptime
(48)	CHARACTER	8	BFNB_USERID	Current userid
50 Router/AOR data				
(50)	CHARACTER	4	BFNB_TRANSACTION	Transid in Router
(54)	CHARACTER	4	BFNB_TASKID	Taskid in Router
(58)	CHARACTER	4	BFNB_REMOTE_ TRANSACTION	
				Transid in AOR
(5C)	CHARACTER	4	BFNB_SYSID	AOR
(60)	CHARACTER	0	*	

```
!:erefstep.dfhbrdc_  dcl_bfnb ----------------------------------------
!:refstep.dfhbrdc_  dcl_bfbe --------------------------- DFHBRDC 541 -
!
  ! Purpose BR extension to BFB (TCTTE)
! Key CICS
  ! Lifetime CICS Lifetime
! Subpool BFBE;brsa_ bfbe_subpool
! Base Addr bfb_ bfbe_ptr
! Directory brsa_ bfbe_directory,brsa_ bfbe_keep_chain
! Created byBRFM Allocate_ Bridge_Facility
! Deleted byBRFM Detach_ Bridge_Facility
!
  !-------------------------------------------------------------------
```

Table 28.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	80	BFBE	
00 Header				
(0)	UNSIGNED	4	BFBE_LENGTH	
(4)	CHARACTER	8	BFBE_EYE_CATCHER	BFBE
(C)	CHARACTER	4	BFBE_EXPIRY_TIME	TOD for expiry
10 Instance information				
(10)	ADDRESS	4	BFBE_PREV_PTR	used in chaining
(14)	ADDRESS	4	BFBE_NEXT_PTR	used in chaining
(18)	CHARACTER	8	BFBE_FACILITYTOKEN	facilitytoken
(18)	CHARACTER	4	*	
(1C)	UNSIGNED	4	BFB_INDEX	
20 Linkage				
(20)	ADDRESS	4	BFBE_BFB_PTR	-> BFB
(24)	ADDRESS	4	BFBE_BMB_PTR	-> BMB
(28)	ADDRESS	4	BFBE_BSB_ANCHOR	->BSB chain
(2C)	ADDRESS	4	BFBE_BRTA_PTR	-> BRTA
30 State				
(30)	BIT(8)	1	BFBE_FLAG1	
	1...		BFBE_SHARED	on =shared(=link3270) off=local (=start)
	.1..		BFBE_INITIALISED	set after xfaintu create for first transaction
	..1.		BFBE_XFAINTU_CALLED	
				xfaintu driven for create
	...1		BFBE_RELEASED	SET BRFACILITY RELEASED!
	 1111		*	reserved
(31)	CHARACTER	3	*	reserved
(34)	FULLWORD	4	BFBE_FACILITYKEEPTIME	
				Facility keeptime
(38)	CHARACTER	8	BFBE_USERID	signed on userid
40 Router data				
(40)	CHARACTER	4	*	reserved
(44)	CHARACTER	4	BFBE_ROUTER_SYSID	connection sysid
(48)	CHARACTER	8	BFBE_ROUTER_NETNAME	

Table 28. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				vtam netname
(50)	CHARACTER	0	*	

```
!:erefstep.dfhbrdc_  dcl_bfbe ----------------------------------------
!:refstep.dfhbrdc_  dcl_bmb ---------------------------- DFHBRDC 604 -
!
  ! Purpose Message State
! Key CICS
  ! Lifetime CICS Lifetime - Life of BFBE
! Subpool BMB;brsa_ bmb_subpool
! Base Addr bfbe_ bmb_ptr
! Created byBRMG Allocate_ Message
! Deleted byBRMG Delete_ Message
!
  !-------------------------------------------------------------------
```

Table 29.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	144	BMB	
00 Header				
(0)	CHARACTER	16	*	
(0)	UNSIGNED	4	BMB_LENGTH	
(4)	CHARACTER	8	BMB_EYE_CATCHER	DFHBMB
(C)	UNSIGNED	1	BMB_STATE	Allocated/ Output
(D)	CHARACTER	3	*	reserved
10 Input Message				
(10)	CHARACTER	16	*	
(10)	ADDRESS	4	BMB_INPUT_ MSG_PTR	-> commarea
(14)	UNSIGNED	4	BMB_INPUT_ MSG_LEN	datalength of commarea
(18)	ADDRESS	4	BMB_INPUT_ MSG_EOR	-> end of record
(1C)	BIT(8)	1	BMB_INPUT_ MSG_FLAG1	
				flag byte
	1...		BMB_INPUT_ MSG_COPIED	
				input msg copied
	.111 1111		*	reserved
(1D)	CHARACTER	3	*	reserved
20 Input Message Commarea				
(20)	CHARACTER	32	*	
(20)	ADDRESS	4	BMB_INPUT_ COMMAREA_PTR	

Table 29. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				-> commarea
(24)	UNSIGNED	4	BMB_INPUT_ COMMAREA_LEN	
				datalength of commarea
(28)	ADDRESS	4	BMB_INPUT_ COMMAREA_EOR	
				-> end of record
(2C)	CHARACTER	4	*	reserved
30 Input Message Cursors				
(30)	ADDRESS	4	BMB_INPUT_ MSG_RE_CURSOR	
				-> last re record read
(34)	ADDRESS	4	BMB_INPUT_ MSG_RM_CURSOR	
				-> last rm record read
(38)	ADDRESS	4	BMB_INPUT_ MSG_CO_CURSOR	
				-> last co record read
(3C)	CHARACTER	4	*	reserved
40 Output Message				
(40)	CHARACTER	32	*	
(40)	ADDRESS	4	BMB_OUTPUT_ MSG_PTR	
				-> storage
(44)	UNSIGNED	4	BMB_OUTPUT_ MSG_LEN	
				length of storage
(48)	ADDRESS	4	BMB_OUTPUT_ MSG_EOR	
				-> end of record
(4C)	UNSIGNED	4	BMB_OUTPUT_ MSG_COMMAREA_LEN	
				commarea len
50 Output Message Cursor				
(50)	ADDRESS	4	BMB_OUTPUT_ MSG_CURSOR	
				-> next record written
(54)	CHARACTER	12	*	reserved
60 Previous Message				

Table 29. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(60)	CHARACTER	16	*	
(60)	ADDRESS	4	BMB_SENT_ MSG_PTR	-> last msg sent
(64)	UNSIGNED	4	BMB_SENT_ MSG_LEN	length of storage
(68)	UNSIGNED	4	BMB_SENT_ MSG_DATALEN	
				length of last msg sent
(6C)	CHARACTER	4	*	reserved
70 First Message				
(70)	CHARACTER	16	*	
(70)	ADDRESS	4	BMB_FIRST_ MSG_PTR	-> 1st msg of conv
(74)	UNSIGNED	4	BMB_FIRST_ MSG_LEN	length(1st msg)
(78)	ADDRESS	4	BMB_FIRST_ MSG_EOR	-> end of record
(7C)	ADDRESS	4	BMB_FIRST_ MSG_RT_CURSOR	
				-> 1st msg rt cursor
80 Input Copy Message				
(80)	CHARACTER	16	*	
(80)	ADDRESS	4	BMB_COPY_ INPUT_MSG_PTR	
				-> copy of input msg
(84)	UNSIGNED	4	BMB_COPY_ INPUT_MSG_LEN	
				length of copy
(88)	ADDRESS	4	BMB_COPY_ INPUT_MSG_EOR	
				-> end of record
(8C)	CHARACTER	4	*	reserved
(90)	CHARACTER	0	*	

Constants

Table 30.

Len	Type	value	Name	Description
Constants				
8	CHARACTER	>DFHBRSA	BRSA_EYE	
1	DECIMAL	0	BRSA_AIBRIDGE_AUTO	

Table 30. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	BRSA_AIBRIDGE_	YES
4	DECIMAL	8192	BR_BFB_CATALOGUE_ INTERVAL	
Catalogue index after this # allocated				
4	DECIMAL	8192	BRSA_INDEX_ CATALOG_INTERVAL	
Catalogue index after this # allocated				
4	DECIMAL	604800	BRSA_KEEP_LIMIT	Secs in a week
4	DECIMAL	64	BRSA_RANGE_SIZE	# facilities in block
4	DECIMAL	729	BRSA_RANGE_NUMBER	# facility blocks
4	DECIMAL	16	BRSA_BFNB_MINIMUM_FREE	min before free ok
8	CHARACTER	DFHBRNSF	BRSA_NUMBER_ FILENAME	
8	CHARACTER	>DFHBRTA	BRTA_EYE	
1	DECIMAL	1	BRTA_CONTEXT_NORMAL	not bridge environment
1	DECIMAL	2	BRTA_CONTEXT_BRIDGE	bridge environment
1	DECIMAL	3	BRTA_CONTEXT_BREXIT	linking bridge exit
1	DECIMAL	1	BRTA_YES	
1	DECIMAL	2	BRTA_NO	
8	CHARACTER	DFHBRME	BRTA_MESSAGE_ TYPE_BRIH	
8	CHAR HEX	0000000000000000	BRTA_FACILITYTOKEN_ NEW	
4	CHARACTER		BRTA_FACILITYLIKE_ DEFAULT	
8	CHARACTER	>DFHBRPC	BRPC_EYE	
4	DECIMAL	0	BRPC_VERSION_NO	
8	CHARACTER	DFHBRME	BRPC_MESSAGE_ TYPE_BRIH	
8	CHAR HEX	0000000000000000	BRPC_FACILITYTOKEN_ NEW	
8	CHARACTER	>DFHBFNB	BFNB_EYE	
4	CHAR HEX	00000000	BFNB_SYSID_LOCAL	
8	CHARACTER	>DFHBFBE	BFBE_EYE	
8	CHARACTER	>DFHBMB	BMB_EYE	
1	DECIMAL	0	BMB_UNALLOCATED	
1	DECIMAL	1	BMB_ALLOCATED	

Table 30. (continued)

Len	Type	value	Name	Description
1	DECIMAL	2	BMB_OUTPUT	
!:erefstep.dfhbrdc_dcl_bmb ---------- Abend code deleted in CTS 1.3 ABRA Abend code deleted in CTS 1.3 ABRB				
4	CHARACTER	ABRC	BREXIT_NOTDEFINED_ ABCODE	
4	CHARACTER	ABRD	BREXIT_DISABLED_ ABCODE	
4	CHARACTER	ABRE	BREXIT_NOTLOADED_ ABCODE	
4	CHARACTER	ABRF	BREXIT_REMOTE_ ABCODE	
4	CHARACTER	ABRG	BFB_INVALID_ABCODE	
4	CHARACTER	ABRH	BFB_NOTFOUND_ ABCODE	
4	CHARACTER	ABRI	BFB_NOTALLOC_ ABCODE	
4	CHARACTER	ABRJ	FLIKE_NOTFOUND_ ABCODE	
4	CHARACTER	ABRK	BFB_USERID_ NOT_AUTH_ABCODE	
Abend code deleted in CTS 1.3 ABRL Abend code deleted in CTS 1.3 ABRM				
4	CHARACTER	ABRN	INVALID_BRXA_ RESP_ABCODE	
Available ABRO Available ABRP				
4	CHARACTER	ABRQ	BREXIT_URM_ ABEND_ABCODE	
4	CHARACTER	ABRR	PROFILE_NOTFOUND_ ABCODE	
Available ABRS Used by another domain ABRT Abend code deleted in CTS 1.3 ABRU Available ABRV Available ABRW Available ABRX				
4	CHARACTER	ABRY	BREXIT_PGLU_ ERROR_ABCODE	
4	CHARACTER	ABRZ	BRXA_INVALID_ ABCODE	
Available ABR0 Available ABR1 Abend code deleted in CTS 1.3 ABR2				
4	CHARACTER	ABR3	BMS_CMD_UNSUPPORTED_ ABCODE	
4	CHARACTER	ABR4	BRMR_NO_COMMAREA	

Table 30. (continued)

Len	Type	value	Name	Description
4	CHARACTER	ABR5	BRMR_COMMAREA_TOO_SHORT	
4	CHARACTER	ABR6	BRMR_INVALID_BRIH	
Available ABR7 Available ABR8 Available ABR9 used by DFH0CBRF char(4) constant('ABXA');				
4	CHARACTER	ABXB	BRMF_NO_ADSD_AVAILABLE	
4	CHARACTER	ABXC	BREX_SYNCPOINT_ERROR	
4	CHARACTER	ABXD	BREX_SYNCPOINT_ROLLBACK_ERROR	
used by DFH0CBRE char(4) constant('ABXE') used by DFH0CBRE char(4) constant('ABXF') used by DFH0CBRE char(4) constant('ABXG') used by DFH0CBRF char(4) constant('ABXH') used by DFH0CBRE char(4) constant('ABXI') used by DFH0CBRE char(4) constant('ABXJ') used by DFH0CBRE char(4) constant('ABXK') available char(4) constant('ABXL') used by DFH0CBRE,DFH0CBRF char(4) constant('ABXM') used by DFH0CBRF char(4) constant('ABXN') used by DFH0CBRF char(4) constant('ABXO') used by DFH0CBRF char(4) constant('ABXP') used by DFH0CBRF char(4) constant('ABXQ') available char(4) constant('ABXR') used by DFH0CBRE char(4) constant('ABXS') available char(4) constant('ABXT') available char(4) constant('ABXU') available char(4) constant('ABXV') available char(4) constant('ABXW') available char(4) constant('ABXX') available char(4) constant('ABXY') available char(4) constant('ABXZ') available char(4) constant('ABX0') used by DFH0CBRE,DFH0CBRF char(4) constant('ABX1') used by DFH0CBRE,DFH0CBRF char(4) constant('ABX2') used by DFH0CBRE,DFH0CBRF char(4) constant('ABX3') available char(4) constant('ABX4') used by DFH0CBRE,DFH0CBRF char(4) constant('ABX5') used by DFH0CBRE,DFH0CBRF char(4) constant('ABX6') used by DFH0CBRF char(4) constant('ABX7') used by DFH0CBRF char(4) constant('ABX8') used by DFH0CBRF char(4) constant('ABX9')				
4	CHARACTER	AEXY	PURGED_ABEND	
4	CHARACTER	AEXZ	SERIOUS_FAILURE_ABEND	

CCGD Catalog Static Storage

```
Module Name = DFHCCGD
DESCRIPTIVE NAME  = CICS/MVS Catalog Global Definitions.

Restricted Materials of IBM
```

```
Function =
     These are the common definitions for DFHCCCC and DFHCCDM
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = domain standard (no special usage)
 Patch Label = n/a
 Module Type = n/a
 Attributes = n/a
                        Storage
 Catalog's storage consists of :
   "Static" storage, which is GETMAINed during DFHCCDM
   initialisation and lasts until FREEMAINed during
   DFHCCDM termination.
   This storage is DECLAREd in this copybook, which is
   included in DFHCCCC and DFHCCDM. This storage contains
   the anchor block.
   Automatic storage which is acquired each time a call is
   made to DFHCCCC or DFHCCDM.
   This storage is defined by the DECLAREs made in DFHCCCC
   and DFHCCDM.
  Catalog's anchor block
  based on anchor CCANCHORP, double word aligned.
  anchor defined in DFHKERN TYPE(DOMENTER)
  storage GETMAINed during catalog's initialization
Catalog's static storage based on CCANCHORP, double word
aligned.
1. Area whose size is known at PL/AS compile time.
    Pointers to ACB, array of RPLs, array of buffers.
    Catalog's status variables
    Array of per thread variables
2. Areas whose size is not known until assemble time
    Array of buffers (one per thread)
    ACB
    Array of RPLs (one per thread)
Macro parameter settings
MAX_DATA_LENGTH must be set to the length used when the
DFHCCD dataset was defined, minus the length of the VSAM key.
```

Table 31.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2652	CCANCHORB	CC's static stg
(0)	HALFWORD	2	CC_STATIC_LEN	Length of cc's static storage
(2)	CHARACTER	14	CC_ANC_ EYECATCHER	eyecatcher
(2)	CHARACTER	1	CC_ANC_ARROW	>'
(3)	CHARACTER	3	CC_ANC_DFH	'DFH'
(6)	CHARACTER	2	CC_ANC_DOMID	'LC' or 'GC'
(8)	CHARACTER	8	CC_ANC_ BLOCK_NAME	'ANCHOR '
(10)	CHARACTER	8	*	type of catalog
(10)	FULLWORD	4	CATALOG_TYPE	DFHCC_DOMAIN | DFHGC_DOMAIN
(14)	CHARACTER	2	TYPE_CATALOG	"LC" or "GC"
(16)	UNSIGNED	1	CAT_TYPE_ME	1=local , 2=global for ME

Table 31. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(17)	CHARACTER	1	*	
Catalog's global status				
(18)	ADDRESS	4	BUFFER_ARRAY_A	start of array of Buffers
(1C)	ADDRESS	4	VSAM_ACB_A	a(VSAM_ACB)
(20)	ADDRESS	4	RPL_ARRAY_A	start of array of RPLs
(24)	ADDRESS	4	OPEN_PLIST_A	Open parameter list
(24)	BIT(8)	1	*	
	1...		CCSOPLMO	end marker for plist-os
(28)	ADDRESS	4	CC_SER_ LOCK_TOKEN	lock_token
(2C)	HALFWORD	2	ENVIRONMENT	CC to use CICS | OS macros
(2E)	BIT(8)	1	CC_STRING_ WAIT_ECB	USED IN WAIT_OLDC CALL
(2F)	UNSIGNED	1	OPEN_STATUS	File is OPEN | CLOSED
(30)	CHARACTER	1	RESERVED	Reserved
(34)	FULLWORD	4	NUM_THREADS	Number of VSAM strings
(38)	FULLWORD	4	MAX_DATA_LENGTH	max data size for catalog
(3C)	CHARACTER	8	CC_SER_LOCK	Serialization lock name
(44)	BIT(8)	1	*	
	1...		CATALOG_ACTIVE	Catalog is initialized and not yet terminated.
	.111 1111		*	Reserved
(45)	CHARACTER	3	*	Reserved
(48)	FULLWORD	4	CC_STARTUP_TOKEN	Token used in startup
(4C)	ADDRESS	4	CC_STARTUP_TASK	Task id of startup task
Per thread storage				
(50)	CHARACTER	80	STRING_STORAGE (32)	Per thread array
(50)	CHARACTER	8	STRING_ EYECATCHER	"CCTHREAD" | "GCTHREAD"
RPL and Buffer addresses.				

Table 31. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	ADDRESS	4	STRING_RPL_A	RPL address
(5C)	ADDRESS	4	STRING_BUFFER_A	Address of buffer in STRING_STORAGE array
(60)	ADDRESS	4	STRING_ VSAM_RECORD_A	
				Address of record in VSAM buffer (Provided by vsam)
State of this thread				
(64)	FULLWORD	4	STRING_TOKEN	NB 0 = thread is free
(68)	ADDRESS	4	STRING_ XC_WAIT_ECB	
				Wait ECB for vsam exclusive control
(6C)	CHARACTER	1	STRING_STATES	THREAD STATUS
	1...		STRING_XC	Holding Exclusive control
	.1..		WAIT_XC	Waiting on Exclusive control
	..1.		ENDREQ_XC	Endreq required during xc
	...1 1111		*	reserved
(6D)	UNSIGNED	1	STRING_FUNCTION	Function request at connect
Browsing parameters				
(6E)	HALFWORD	2	STRING_ BROWSE_RC	RC from START_BROWSE
(70)	CHARACTER	28	STRING_KEY	Full KEY
(70)	CHARACTER	12	STRING_ DOM_TYPE	start-browse DOM.TYPE
(70)	CHARACTER	4	STRING_DOM	calling DOM
(74)	CHARACTER	8	STRING_TYPE	TYPE
(7C)	CHARACTER	16	STRING_NAME	NAME
Keep request to vsam and RPL feedback for debug				
(8C)	CHARACTER	4	STRING_ VSAM_DEBUG	To debug vasm problems
(8C)	CHARACTER	1	STRING_ VSAM_REQUEST	
				last RPL request byte

Table 31. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8D)	CHARACTER	3	STRING_ RPL_FEEDBACK	
				last RPL feedback info
Dump diagnostic information for problem analysis				
(90)	CHARACTER	4	STRING_TRANSID	Thread owner tranid
(94)	CHARACTER	4	STRING_TASKNUM	Thread owner taskno
(98)	CHARACTER	8	*	Reserved
(A50)	FULLWORD	4	SEQ_WRITE_NUMBER	Sequential write attempts@P4A
(A54)	FULLWORD	4	NOSEQ_WRITE_ NUMBER	Non-seq write attempts
(A58)	FULLWORD	4	SEQ_RETRY_NUMBER	Number seq writes failed

Table 32.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	VPLOPT1	OPTION byte 1 in VSAM RPL
	1...		VPLLOC	1=Locate mode. 0=Move mode
	.1..		VPLDIR	1=Direct access
	..1.		VPLSEQ	1=Sequential access
	...1		VPLSKP	1=Skip sequential access
	.... 1...		VPLASY	1=Asynchronous processing 0=Synchronous processing
	.... .1..		VPLKGE	1=Search KEY >= 0=Search KEY equal
	.... ..1.		VPLGEN	1=Generic KEY request 0=Full KEY search argument
	1		VPLECBSW	1=External ECB

Table 33.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	VPLOPT2	OPTION byte 2 in VSAM RPL
	1...		VPLKEY	1=Locate record by KEY

Table 33. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		VPLADR	1=Addressed access = RPLADD
	..1.		VPLCNV	1=Control interval access
	...1		VPLBWD	1=Bwd. 0=Fwd
	.... 1...		VPLLRD	1=LRD last record ... 0=ARD User's argument...
	.... .1..		VPLWAITX	1=aynch proc wait 0=never take exit
	.... ..1.		VPLUPD	1=Update request
	1		VPLNSP	1=Note string position

```
String buffers defined, one per thread
```

Table 34.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	STRING_BUFFER	Will be based on STRING_BUFFER_A(token)
(0)	CHARACTER	28	STRING_ BUFFER_KEY	VSAM key
(0)	CHARACTER	12	STRING_ BUFFER_DOM_TYPE	
				DOM.TYPE for browse
(0)	CHARACTER	4	STRING_ BUFFER_DOM	
				domain
(4)	CHARACTER	8	STRING_ BUFFER_TYPE	
				type
(C)	CHARACTER	16	STRING_ BUFFER_NAME	
				name
(1C)	CHARACTER	*	STRING_ BUFFER_DATA	file data

Constants

Table 35.

Len	Type	value	Name	Description
Trace point id constants				

Table 35. (continued)

Len	Type	value	Name	Description
2	HEX	2B10	TRID_CC_ADD_LEN	Data too long
2	HEX	2B70	TRID_CC_DATA_TOO_LONG	
				Read cmds
2	HEX	2010	TRID_CC_ENTRY	CCCC
2	HEX	2050	TRID_CC_EXIT	CCCC
2	HEX	2020	TRID_CC_EXTENT	New vsam extent
2	HEX	2B20	TRID_CC_FUNCTION	CCCC
2	HEX	2B71	TRID_CC_PUT_R_TOO_LEN	Too long
2	HEX	2B30	TRID_CC_RECOVERY	CCCC
2	HEX	2070	TRID_CC_SERIAL_ENTRY	CCCC
2	HEX	2080	TRID_CC_SERIAL_EXIT	CCCC
2	HEX	2B40	TRID_CC_ST_WAIT_UNLOCK	
				CCCC
2	HEX	2B41	TRID_CC_ST_WAIT_LOCK	CCCC
2	HEX	2B42	TRID_CC_CHANGE_MODE	CCCC
2	HEX	2B43	TRID_CC_RESTORE_MODE	CCCC
2	HEX	2B44	TRID_CC_WAIT_QUICK	CCCC
2	HEX	2B50	TRID_CC_TOKEN	CCCC bad token
2	HEX	2B52	TRID_CC_TOKEN2	END-BROWSE bad T
2	HEX	2B53	TRID_CC_TOKEN3	END-WRITE bad T
2	HEX	2B54	TRID_CC_TOKEN4	GET-NEXT bad token
2	HEX	2B55	TRID_CC_TOKEN5	PUT-REPLACE bad T
2	HEX	2B56	TRID_CC_TOKEN6	WRITE-NEXT bad T
2	HEX	2B57	TRID_CC_TOKEN7	DELETE bad T
2	HEX	2B58	TRID_CC_TOKEN8	STARTUP_O dup
2	HEX	2B59	TRID_CC_TOKEN9	no STARTUP_OP
2	HEX	2B5A	TRID_CC_NOT_FOR_LCD	only GCD
2	HEX	2B5B	TRID_CC_USE_WRITE_N	use write_next for startup

Table 35. (continued)

Len	Type	value	Name	Description
2	HEX	2B5C	TRID_CC_USE_TOKEN	KEN tok
2	HEX	2B60	TRID_CC_VSAM	CCCC
2	HEX	20A0	TRID_CC_VSAM_ENDC	ENDC
2	HEX	2090	TRID_CC_VSAM_VSCT	VSCT
2	HEX	2B73	TRID_CC_WR_NXT_LEN	long
2	HEX	2B72	TRID_CC_WRITE_LEN	long
2	HEX	20C0	TRID_CC_XC_ WAIT_LOCK	CCCC
2	HEX	20B0	TRID_CC_XC_ WAIT_UNLOCK	
				CCCC
2	HEX	1B50	TRID_DM_ADD_LOCK	CCDM
2	HEX	1010	TRID_DM_ENTRY	CCDM
2	HEX	1040	TRID_DM_EXIT	CCDM
2	HEX	1020	TRID_DM_RECOVERY	CCDM
2	HEX	1B40	TRID_DM_SET_PHASE	CCDM
2	HEX	1B60	TRID_DM_UNLOCK	CCDM
2	HEX	1B30	TRID_DM_VSAM_ERROR	CCDM
Constants				
8	CHARACTER	CCSERLCK	CC_LOCK	Serialization (local)
2	DECIMAL	2	CICS	CICS environment
2	CHARACTER	CC	COMPONENT_ID	"CC" is "component"
8	CHARACTER	GCSERLCK	GC_LOCK	Serialization (local)
2	DECIMAL	1	XA	XA environment
0	BIT	1	COND	COND=YES
0	BIT	0	FALSE	boolean
1	DECIMAL	0	FILE_CLOSED	CC FILE is CLOSED
1	DECIMAL	1	FILE_OPEN	CC FILE is OPEN
2	DECIMAL	28	KEY_LENGTH	Size of vsam KEY bin caller id. size in bytes user's TYPE field size user's NAME field size
2	CHARACTER	GC	GLOBAL_CATALOG	Type of catalog
1	DECIMAL	2	GLOBAL_ME	Global catalog ME insert
2	CHARACTER	CC	LOCAL_CATALOG	Type of catalog

Table 35. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	LOCAL_ME	Local catalog ME insert
1	DECIMAL	0	OK	good return code value
4	DECIMAL	0	THREAD_FREE	string is free
0	BIT	1	TRUE	boolean
0	BIT	0	UNCOND	COND=NO
0	BIT	0	WAIT	Wait bit value for ECB
0	BIT	1	WAIT_END	End-wait bit value for ECB
VSAM request codes				
1	HEX	00	VSAMGET	VSAM get
1	HEX	01	VSAMPUT	VSAM put
1	HEX	02	VSAMCHEK	VSAM check
1	HEX	03	VSAMPNT	VSAM point
1	HEX	04	VSAMEREQ	VSAM endreq
1	HEX	05	VSAMERAS	VSAM erase

CPCPS CPI-C Conversation Control Block

```
CONTROL BLOCK NAME = DFHCPCPS
DESCRIPTIVE NAME  = CICS/ESA
                    CPI-C Conversation Control Block (CPC)
                    &amp; log data records

Restricted Materials of IBM

FUNCTION =
     To provide CPI-C's principal control block record structure
     There is one instance of a CPC per CPI-C conversation.
     A CPC contains conversation identifier and control
     information relating to its CPI-C conversation.
     At various stages during the lifetime of a CPI-C
     conversation the CPC will be associated with a session
     control block (TCTTE) which will act as the CPI-C
     conversations principal facility for communication.
LIFETIME =
     The lifetime of a single CPI-C conversation
STORAGE CLASS =
     The CPC will exist in CICS main (31bit) storage.
LOCATION =
     All CPCs associated with a single task are chained from
     the system TCA at TCACPCCN.
INNER CONTROL BLOCKS =
     A further record definition is included in this copybook
     for CPIC_LOG_DATA. This control block is addressed via
     a pointer in the CPC named "log_data_buffer_ptr".
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
```

```
      None
   DATA AREAS =
      None
   CONTROL BLOCKS =
      TCTTE (via an associated session control block pointer)
   GLOBAL VARIABLES (Macro pass) =
      None
-------------------------------------------------------------------
         R E A D T H I S N O T I C E F I R S T
         -----------------------------------------
  This PL/AS object has been commented using the ABSTRACT tool.
  Please make sure any changes you make are consistent with the
  use of this tool. Either use ABSTRACT to view the file, or avoid
  deleting any of the open/close comment folds.
 ( The following record defines the structure of the
 | CPI-C Conversation Control Block (CPC)
```

Table 36.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	212	DFHCPCPS	
(... control block header and chaining information				
(0)	UNSIGNED	2	CPC_RECORD_ LENGTH	
(2)	CHARACTER	14	CPC_EYECATCHER	
identifier for this conversation				
(10)	CHARACTER	8	CONVERSATION_ID	
pointer to next CPC in chain for this task				
(18)	ADDRESS	4	NEXT_CPC_PTR	
session tctte for this cpi-c conversation				
(1C)	ADDRESS	4	TCTTE_PTR	
) (... conversation characteristics these are parameters that may or must be set before certain cpi-c calls may be made for this conversation				
(20)	UNSIGNED	4	CONVERSATION_ TYPE	
(24)	UNSIGNED	4	DEALLOCATE_TYPE	
(28)	UNSIGNED	4	ERROR_DIRECTION	
(2C)	UNSIGNED	4	LOG_DATA_LENGTH	
(30)	ADDRESS	4	LOG_DATA_ BUFFER_PTR	
(34)	UNSIGNED	4	FILL	
(38)	UNSIGNED	4	MODE_NAME_LENGTH	
(3C)	CHARACTER	8	MODE_NAME	
(44)	UNSIGNED	4	PARTNER_ LU_NAME_LENGTH	
(48)	CHARACTER	17	PARTNER_LU_NAME	
(59)	CHARACTER	7	*	
(60)	UNSIGNED	4	PREPARE_ TO_RECEIVE_TYPE	
(64)	UNSIGNED	4	RECEIVE_TYPE	

Table 36. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(68)	UNSIGNED	4	RETURN_CONTROL	
(6C)	UNSIGNED	4	SEND_TYPE	
(70)	UNSIGNED	4	SYNC_LEVEL	
(74)	UNSIGNED	4	TP_NAME_LENGTH	
(78)	CHARACTER	64	TP_NAME	
) (... other conversation related information these CPC fields are required by this CPI-C implementation to store certain items of information across calls to the interface				
(B8)	UNSIGNED	4	CONVERSATION_ STATE	
(BC)	CHARACTER	8	PROFILE_NAME	
(C4)	BIT(8)	1	*	
	1...		NEXT_LL_ CONCATENATED	
	.1..		ID_NOT_RECEIVED	
	..1.		PARTIAL_ ID_RECEIVED	
	...1 1111		*	
(C5)	CHARACTER	1	PARTIAL_ID	
(C6)	BIT(8)	1	*	
	1...		NEW_STATE_ AFTER_BACKOUT_ RULES	
	.111 1111		*	
(C7)	BIT(8)	1	*	
(C8)	UNSIGNED	4	OUTSTANDING_ LL_COUNT	
(CC)	UNSIGNED	4	STATE_AFTER_ COMMIT	
(D0)	UNSIGNED	4	SYNCPOINT_ RETURN_CODE	

```
)
  ( The following record defines the structure used
  | to contain conversation related log data for CPI-C
    It is addressed via a pointer in the CPC.
    It is followed by a constant defining the offset
    of the log data itself in the structure.
```

Table 37.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CPIC_LOG_DATA	
(0)	UNSIGNED	2	LOG_DATA_ RECORD_LENGTH	
(2)	CHARACTER	14	LOG_DATA_ EYECATCHER	

Table 37. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	UNSIGNED	4	LOG_DATA_ BUFFER_LENGTH	
(14)	CHARACTER	*	LOG_DATA	

Constants

Table 38.

Len	Type	value	Name	Description
2	DECIMAL	20	LOG_DATA_HDR_LEN	

CPSPS CPI Static Storage Area

```
CONTROL BLOCK NAME = DFHCPSPS
DESCRIPTIVE NAME  = CICS CPI Static Storage Area

Restricted Materials of IBM

FUNCTION =
     This control block provides the global information for
     the CPI which must be around for the duration of the CICS
     execution.
     It contains:
       CPI initialization suspend token
       CPI status
       Entry points of CPI modules
       CPI-C last conversation-id
LIFETIME =
     The control block is created during CICS initialisation
     by DFHSIB1, and exists for as long as the CICS system.
STORAGE CLASS =
     The control block is in subpool DFHAPDANY
LOCATION =
     The CPI Static Area is located by field SSZCPI in
     DFHSSAPS
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
     CPI STATIC STORAGE AREA
```

Table 39.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	44	CPI_SSA	
Block prefix				
(0)	CHARACTER	16	PREFIX	block prefix area
(0)	HALFWORD	2	BLOCK_LENGTH	block length
(2)	CHARACTER	1	ARROW	'>'
(3)	CHARACTER	3	DFH	'DFH'

Table 39. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6)	CHARACTER	2	DOMID	'CP'
(8)	CHARACTER	8	BLOCK_NAME	'CPSTATIC'
Block body				
(10)	CHARACTER	28	BODY	body of block
CPI fields				
(10)	CHARACTER	8	*	
(10)	ADDRESS	4	INIT_SUSPEND_TOKEN	
				Suspend token
(14)	UNSIGNED	1	INIT_STATUS	CPI Initialization status
(15)	CHARACTER	3	*	Reserved
CPI module entry points				
(18)	CHARACTER	12	*	
(18)	ADDRESS	4	DFHCPARH_ADDR	DFHCPARH entry point
(1C)	ADDRESS	4	DFHCPSRH_ADDR	DFHCPSRH entry point
(20)	ADDRESS	4	DFHCPIR_ADDR	DFHCPIR entry point
CPI-C static storage				
(24)	CHARACTER	8	*	
(24)	CHARACTER	8	CPIC_LAST_CONVID	Last conversation-id used by CPI-C

Constants

Table 40.

Len	Type	value	Name	Description
1	DECIMAL	44	CPI_SSA_LENGTH	
Constants representing status of CPI initialisation				
2	DECIMAL	1	CPI_STATIC_STORAGE_INITIALIZED	
2	DECIMAL	2	CPI_ACQUIRE_SUSPEND_TOK_FAILED	
2	DECIMAL	3	CPI_ACQUIRED_SUSPEND_TOK	
2	DECIMAL	4	CPI_INIT_TASK_ATTACHED	
2	DECIMAL	5	CPI_INIT_TASK_STARTED	
2	DECIMAL	6	CPI_LOAD_CPIC_FAILED	
2	DECIMAL	7	CPI_LOADED_CPIC	

Table 40. (continued)

Len	Type	value	Name	Description
2	DECIMAL	8	CPI_LOAD_ CPIRR_FAILED	
2	DECIMAL	9	CPI_LOADED_CPIRR	
2	DECIMAL	10	CPI_INIT_SUCCEEDED	
2	DECIMAL	11	CPI_OPEN_ FOR_BUSINESS	
Block name for CP static				
8	CHARACTER	CPSTATIC	CPI_SSA_BLOCK_ NAMEI	

D2CSB CSUB block

```
CONTROL BLOCK NAME = DFHD2CSB
DESCRIPTIVE NAME  = CICS DB2 Connection block

Restricted Materials of IBM

FUNCTION =
     The DFHD2CSB block contains state data for the CICS-DB2
     Connection. With DB2 5.1 and below a connection is hardwired
     into a CICS-DB2 subtask and the DFHD2CSB is used as working
     storage by the subtask. With DB2 6.1 and above, CICS-DB2
     connections are not hardwired to a subtask TCB, they only
     have TCB affinity as long as the DB2 thread is used by a
     CICS task. They can be "dissociated" from one CICS open TCB
     and "associated" with another CICS open TCB.
LIFETIME =
     A DFHD2CSB is getmained when a CICS-DB2 connection is
     required. It is freemained when a CICS-DB2 connection is
     terminated by means of a terminate identify call to DB2.
LOCATION =
     DFHD2CSB blocks are chained together off the DFHD2GLB and
     off either a DB2ENTRY or the pool or command thread section
     of the DFHD2GLB. There are a number of chains. Which chain
     a DFHD2CSB is on is governed by the state of the Thread.
     There are chains for free connections, free protected
     threads and active threads.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
   DFHD2CSB block
```

Table 41.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	768	DFHD2CSB	
(0)	CHARACTER	16	CSB_PREFIX	standard Prefix
(0)	HALFWORD	2	CSB_LENGTH	
(2)	CHARACTER	14	CSB_EYE	>DFHD2CSB
(10)	CHARACTER	8	CSB_CLOCK	STCK for unique name
(18)	ADDRESS	4	CSB_GLB_ADDRESS	Global block address

Table 41. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	ADDRESS	4	CSB_RCT_ADDRESS	RCT entry block address
(20)	ADDRESS	4	CSB_LOT_ADDRESS	LOT entry block addr
(24)	ADDRESS	4	CSB_TCB_ADDRESS	subtask TCB
(28)	CHARACTER	8	CSB_DISSOCIATE_TOKEN	
				connection token
(30)	CHARACTER	8	CSB_UOWID	CICS local uowid
(38)	UNSIGNED	4	CSB_ECB	subtask ECB
(3C)	UNSIGNED	4	CSB_TERMINATE_ECB	terminate ECB for EX2
Active thread chain				
(40)	ADDRESS	4	CSB_ACTIVE_PREV	prev CSUB on active chain
(44)	ADDRESS	4	CSB_ACTIVE_NEXT	next CSUB on active chain
Free protected thread chain anchored off RCTE				
(48)	ADDRESS	4	CSB_RCT_PTHREAD_PREV	
				prev CSUB on free protect
(4C)	ADDRESS	4	CSB_RCT_PTHREAD_NEXT	
				next CSUB on free protect
Free protected thread chain anchored off D2GLB				
(50)	ADDRESS	4	CSB_GLB_PTHREAD_PREV	
				prev CSUB on Global fprot
(54)	ADDRESS	4	CSB_GLB_PTHREAD_NEXT	
				next CSUB on Global fprot
Free Connection chain anchored off RCTE				
(58)	ADDRESS	4	CSB_RCT_CONN_PREV	prev CSUB on free con@D1C
(5C)	ADDRESS	4	CSB_RCT_CONN_NEXT	next CSUB on free con@D1C
Global Free Connection chain anchored of D2GLB				
(60)	ADDRESS	4	CSB_GLB_CONN_PREV	prev CSUB on Glb free@D1C
(64)	ADDRESS	4	CSB_GLB_CONN_NEXT	next CSUB on Glb free@D1C

Table 41. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Attach/Detach chain (singly linked)				
(68)	ADDRESS	4	CSB_ATTACH_ DETACH_NEXT	
				Next CSUB on chain
(6C)	CHARACTER	8	CSB_PLAN_NAME	plan name
(74)	CHARACTER	8	CSB_PRIMARY_ AUTH_NAME	
				auth name to sign on
(7C)	CHARACTER	8	CSB_SECONDARY_ AUTH_NAME	
				secondary auth to sign on
(84)	CHARACTER	12	CSB_CORRELATION_ ID	CSUB Correlation id
(84)	CHARACTER	4	CSB_TYPE	type ENTR/POOL/ COMD
(88)	CHARACTER	4	CSB_TRANSID	transaction id
(8C)	CHARACTER	4	CSB_THREAD_ NUMBER_DEC	
				thread number in decimal
(90)	ADDRESS	4	CSB_ACEE_ADDRESS	address of ACEE
(94)	CHARACTER	8	CSB_SIGNON_TIME	STCK at time of signon
(9C)	CHARACTER	22	CSB_ACCOUNT_ TOKEN	accounting corr.token
(9C)	CHARACTER	8	CSB_ACCOUNT_ NETNAME	
				netname
(A4)	CHARACTER	8	CSB_ACCOUNT_ LUNAME	
				luname
(AC)	CHARACTER	6	CSB_ACCOUNT_ CLOCK	middle of STCK
(B2)	BIT(8)	1	CSB_ACCOUNT_ TOKEN_FLAG	
				accounting corr.flag
	1...		CSB_ACCOUNT_ TOKEN_ACTIVE	
				accounting corr.active
	.111 1111		*	reserved

Table 41. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B3)	BIT(8)	1	CSB_CTL1	connection control flag
	1...		CSB_ATTACH_TASK	attach subtask
	.1..		CSB_DETACH_TASK	detach task
	..1.		CSB_TASK_ ATTACHED_OK	
				attach ok
	...1		CSB_TERMINATE_ TASK	
				terminate subtask
	.... 1...		CSB_TASK_ TERMED_OK	
				subtask terminated OK
	.... .1..		CSB_TASK_ TERMED_ABNORMAL	
				subtask abnormal end
	.... ..1.		CSB_TO_ BE_FREEMAINED	
				Freemain this CSUB
	1		CSB_TO_ BE_REUSED	Reuse this csub
(B4)	BIT(8)	1	CSB_CTL2	connection control flag
	1...		CSB_PROTECTED_ THREAD	
				protected thread
	.1..		CSB_INITIAL_ STATE	initial state thread ind.
	..1.		CSB_CURSOR	cursor hold on
	...1		CSB_AVAIL_ ASSIGN	available for reuse
	.... 1...		CSB_TERM_THREAD	terminate thread
	.... .1..		CSB_THREAD_ CREATED	
				thread created
	.... ..1.		CSB_TCB_IN_DB2	tcb is in DB2®
	1		CSB_SUBTASK_ RUNNING	
				subtask is running
(B5)	BIT(8)	1	CSB_CTL3	flags for DFHD2CO

Table 41. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		CSB_IDENTIFY	identify issued
	.111 1111		*	reserved
(B6)	BIT(24)	3	*	reserved
(B9)	CHARACTER	1	CSB_CHAP	CICS task priority
(BA)	UNSIGNED	2	CSB_THREAD_ NUMBER	Binary form of thread num
(BC)	CHARACTER	8	CSB_PRIMARY_ AUTH_SAVEAREA	
				auth savarea
(C4)	CHARACTER	8	CSB_SECONDARY_ AUTH_SAVEAREA	
				secondary auth savearea
(CC)	CHARACTER	16	CSB_NETWORK_ID	Blank network id
(DC)	ADDRESS	4	CSB_WLM_ PERF_TOKEN	CICS WLM perf blk token
(E0)	CHARACTER	48	CSB_FRB	FRB area
(110)	CHARACTER	72	CSB_SAVEAREA	subtask save area
(158)	CHARACTER	88	CSB_WORKAREA	work area
(1B0)	CHARACTER	52	CSB_ERROR_BUFFER	Error resource buffer
SDWA fields. The name and address fields may not always be available at the time of abend and will not contain correct info				
(1E4)	CHARACTER	64	CSB_SDWA_REGST	
(1E4)	ADDRESS	4	CSB_SDWA_REGS (16)	SDWA registers 0-15
(224)	CHARACTER	8	CSB_SDWA_PSW	PSW at time of error
(22C)	CHARACTER	8	CSB_SDWA_NAME	Abending program
(234)	ADDRESS	4	CSB_SDWA_ADDRESS	Abending prog addr
(238)	UNSIGNED	4	CSB_REQUEST_ NUMBER	request num HWM for trace
(23C)	ADDRESS	4	CSB_CURRENT_ TRACE_ENTRY	
				Pointer to trace entry
Trace table for subtask				
(240)	CHARACTER	16	CSB_TRACE_HEAD	Start of trace eyecatcher
(250)	CHARACTER	160	CSB_TRACE_ ENTRIES_START	

Table 41. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(250)	CHARACTER	16	CSB_TRACE_ TABLE_ENTRY (10)	
(2F0)	CHARACTER	16	CSB_TRACE_TAIL	End of trace eycatchr@P1C

`DFHD2IDT block (indoubt thread list)`

Table 42.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHD2IDT	
(0)	CHARACTER	16	IDT_PREFIX	standard prefix
(0)	HALFWORD	2	IDT_LENGTH	
(2)	CHARACTER	14	IDT_EYE	>DFHD2IDT
(10)	HALFWORD	2	IDT_COUNT	number of indoubts
(12)	CHARACTER	20	IDT_ENTRY (*)	
(12)	CHARACTER	16	IDT_URID	UR ID (NID)
(22)	CHARACTER	4	IDT_DISPOSITION	disp of nid from show SHOW: nid is indoubt COMM: nid is a redo

`Trace table entry dsect`

Table 43.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	DFHD2TR	
(0)	UNSIGNED	1	CSB_TRACE_ REQUEST_NUM	
				request number
(1)	CHARACTER	3	CSB_TRACE_ CICS_TASK_NUM	
				CICS task number
(4)	CHARACTER	4	CSB_TRACE_ REQUEST	request type
(8)	UNSIGNED	2	*	reserved
(A)	UNSIGNED	2	CSB_TRACE_FRBRC1	RC1 return code
(C)	UNSIGNED	4	CSB_TRACE_FRBRC2	RC2 reason code

Constants

Table 44.

Len	Type	value	Name	Description
DFHD2CSB Constants				
14	CHARACTER	>DFHD2CSB	DFHD2CSB_ EYECATCHER	
16	CHARACTER	>>Trace Start >>	CSB_TRACE_HEAD_EYE	
16	CHARACTER	<<Trace End <<	CSB_TRACE_TAIL_EYE	

D2ENT DB2ENTRY block

```
CONTROL BLOCK NAME = DFHD2ENT
DESCRIPTIVE NAME  = CICS DB2 attach DB2ENTRY control block

Restricted Materials of IBM

FUNCTION =
     The DFHD2ENT block represents a DB2ENTRY RDO object and
     holds state data and attributes to be used by a transaction
     or set of transactions when accessing DB2.
LIFETIME =
     A DFHD2ENT is getmained when a DB2ENTRY entity is installed.
     It is freemained when a DB2ENTRY is discarded.
LOCATION =
     DFHD2ENT resides above the 16MB line. It is located using
     Directory manager domain using its name as the key.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
  DFHD2ENT block
```

Table 45.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	200	DFHD2ENT	
(0)	STRUCTURE IsA(DFHD2RCT)	200	ENT	
(0)	CHARACTER	16	RCT_PREFIX	Standard Prefix
(0)	HALFWORD	2	RCT_LEN	
(2)	CHARACTER	14	RCT_EYE	
(10)	CHARACTER	8	RCT_NAME	DB2ENTRY name/POOL/ COMD
(18)	CHARACTER	8	RCT_TIME	RCT time of install
(20)	CHARACTER	8	RCT_PLAN	Plan name if specified
(28)	CHARACTER	8	RCT_PLANEXIT_ NAME	Planexit name if specified
(30)	CHARACTER	4	RCT_TRANSID	Specified transid (if any)

Table 45. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	ADDRESS	4	RCT_CSUB_ ADDRESS	Locates CSUB
(38)	CHARACTER	8	RCT_AUTHID	Authid if used
(40)	BIT(8)	1	RCT_AUTHTYPE	Authtype if used
	1...		RCT_AUTHTYPE_ GROUP	
				authtype=group
	.1..		RCT_AUTHTYPE_ SIGNID	
				authtype=signid
	..1.		RCT_AUTHTYPE_ TERM	
				authtype=term
	...1		RCT_AUTHTYPE_ TXID	
				authtype=txid
	.... 1...		RCT_AUTHTYPE_ OPID	
				authtype=opid
	.... .1..		RCT_AUTHTYPE_ USERID	
				authtype=userid
	11		*	reserved
(41)	BIT(8)	1	RCT_ACCOUNTREQ	DB2 accounting to be done
	1...		RCT_ACCOUNT_ PER_UOW	
				account per UOW
	.1..		RCT_ACCOUNT_ PER_TASK	
				account per task
	..1.		RCT_ACCOUNT_ PER_TXID	
				account per transid change
	...1		RCT_ACCOUNT_ NONE	no accounting
	 1111		*	reserved
(42)	BIT(8)	1	RCT_DROLLBACK	Deadlock rollback
	1...		RCT_DROLLBACK_ YES	
				Drollback(yes)
	.111 1111		*	reserved

Table 45. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(43)	BIT(8)	1	RCT_PRIORITY	Priority of entry threads
	1...		RCT_PRIORITY_HIGH	
				Higher than CICS TCB
	.1..		RCT_PRIORITY_EQUAL	
				Equal to CICS TCB
	..1.		RCT_PRIORITY_LOW	Lower than CICS TCB
	...1 1111		*	reserved
(44)	BIT(8)	1	RCT_THREADWAIT	Entry Threadwait setting
	1...		RCT_THREADWAIT_YES	
				Wait for a thread
	.1..		RCT_THREADWAIT_NO	
				Do not wait, abend
	..1.		RCT_THREADWAIT_POOL	
				Overflow to the pool
	...1 1111		*	reserved
(45)	BIT(8)	1	RCT_ENABLED_STATUS	
				Enable status of DB2ENTRY
	1...		RCT_DISABLED	DB2ENTRY is disabled
	.1..		RCT_DISABLING	DB2ENTRY is disabling
	..1.		RCT_DISABLED_ROUTE_TO_POOL	
				Route new trans to pool
	...1		RCT_DISABLED_BAD_SQLCODE	
				give new trans a sqlcode
	.... 1...		RCT_DISABLED_ABEND_TRANS	

Table 45. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				abend new transactions
	.... .111		*	reserved
(46)	BIT(16)	2	*	reserved
(48)	CHARACTER	8	RCT_TAMPER_ CHECK1	check for overwrite
(50)	CHARACTER	8	RCT_TAMPER_ CHECK2	check for overwrite
(58)	UNSIGNED	4	RCT_THREAD_ LIMIT	Maximum active threads
(5C)	UNSIGNED	4	RCT_MAX_ PROTECTED_THREADS	
				Maximum protected threads
(60)	CHARACTER	8	RCT_THREADS	
(60)	UNSIGNED	4	RCT_CURRENT_ ACTIVE_THREADS	
				No of threads active
(64)	UNSIGNED	4	RCT_THREAD_HWM	Hwm of active threads
(68)	CHARACTER	8	RCT_PROTECTED_ THREADS	
(68)	UNSIGNED	4	RCT_CURRENT_ PROTECTED_THREADS	
				No of prot. threads
(6C)	UNSIGNED	4	RCT_PROTECTED_ THREADS_HWM	
				hwm of protected threads
(70)	CHARACTER	8	RCT_USERS	
(70)	UNSIGNED	4	RCT_USE_COUNT	No. of tasks using entry
(74)	UNSIGNED	4	RCT_USE_ COUNT_HWM	
				hwm of tasks
(78)	CHARACTER	8	RCT_WAITERS	
(78)	UNSIGNED	4	RCT_READYQ_ COUNT	No. of tasks on readyq
(7C)	UNSIGNED	4	RCT_READYQ_HWM	Hwm of tasks on readyq
(80)	UNSIGNED	4	RCT_TASK_COUNT	# tasks
(84)	UNSIGNED	4	RCT_CALL_COUNT	# calls

Table 45. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	UNSIGNED	4	RCT_AUTH_COUNT	# authorisations
(8C)	UNSIGNED	4	RCT_PARTIAL_ SIGNON_COUNT	
				# partial signons
(90)	UNSIGNED	4	RCT_COMMIT_ COUNT	# commits
(94)	UNSIGNED	4	RCT_ABORT_COUNT	# aborts
(98)	UNSIGNED	4	RCT_SINGLE_ PHASE_COUNT	
				# R/O commits & single up
(9C)	UNSIGNED	4	RCT_THREAD_ REUSE_COUNT	
				# thread reuses
(A0)	UNSIGNED	4	RCT_THREAD_ TERM_COUNT	
				# thread terminates
(A4)	UNSIGNED	4	RCT_WAIT_ OR_OVERFLOW	
				# waits/overflow
(A8)	CHARACTER	4	RCT_DISABLE_ AREA	
(A8)	BIT(8)	1	RCT_DISABLE_ ECB	ECB for disabling
(A9)	UNSIGNED	3	RCT_DISABLE_ WAIT_COUNT	
				Count of waiters
(AC)	ADDRESS	4	RCT_DYNAMIC_ PLAN_EXIT_ANCHOR	
				Anchor for user area
CSUB chains				
(B0)	ADDRESS	4	RCT_ACTIVE_ THREAD_CHAIN	
				Active threads chain
(B4)	ADDRESS	4	RCT_FREE_ PROT_THREAD_CHAIN	
				Free protected threads
(B8)	ADDRESS	4	RCT_FREE_ CONN_CHAIN	
				Free connection
LOT Chain				

Table 45. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(BC)	ADDRESS	4	RCT_LOT_CHAIN	Chain of LOTs using entry
Readyq LOT chain.				
(C0)	CHARACTER	8	RCT_READYQ	
(C0)	ADDRESS	4	RCT_READYQ_ LOT_CHAIN	
				Readyq chain of LOTs
(C4)	UNSIGNED	4	RCT_READYQ_ SEC_COUNT	
				Security count for CDS

```
DFHD2RCT declares the whole of the layout of a DB2ENTRY
as a type. The type is for the layout of the DB2ENTRY and
for the layout of the pool and command sections in DFHD2GLB.
Some fields, although declared, will not be used in the pool
and command sections of DFHD2GLB.
```

Table 46.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	200	DFHD2RCT	
(0)	CHARACTER	16	RCT_PREFIX	Standard Prefix
(0)	HALFWORD	2	RCT_LEN	
(2)	CHARACTER	14	RCT_EYE	
(10)	CHARACTER	8	RCT_NAME	DB2ENTRY name/POOL/ COMD
(18)	CHARACTER	8	RCT_TIME	RCT time of install
(20)	CHARACTER	8	RCT_PLAN	Plan name if specified
(28)	CHARACTER	8	RCT_PLANEXIT_ NAME	Planexit name if specified
(30)	CHARACTER	4	RCT_TRANSID	Specified transid (if any)
(34)	ADDRESS	4	RCT_CSUB_ADDRESS	Locates CSUB
(38)	CHARACTER	8	RCT_AUTHID	Authid if used
(40)	BIT(8)	1	RCT_AUTHTYPE	Authtype if used
	1...		RCT_AUTHTYPE_ GROUP	
				authtype=group
	.1..		RCT_AUTHTYPE_ SIGNID	
				authtype=signid
	..1.		RCT_AUTHTYPE_ TERM	authtype=term

Table 46. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		RCT_AUTHTYPE_TXID	authtype=txid
	.... 1...		RCT_AUTHTYPE_OPID	authtype=opid
	.... .1..		RCT_AUTHTYPE_USERID	
				authtype=userid
	11		*	reserved
(41)	BIT(8)	1	RCT_ACCOUNTREQ	EXEC accounting to be done
	1...		RCT_ACCOUNT_PER_UOW	
				account per UOW
	.1..		RCT_ACCOUNT_PER_TASK	
				account per task
	..1.		RCT_ACCOUNT_PER_TXID	
				account per transid change
	...1		RCT_ACCOUNT_NONE	no accounting
	 1111		*	reserved
(42)	BIT(8)	1	RCT_DROLLBACK	Deadlock rollback
	1...		RCT_DROLLBACK_YES	Drollback(yes)
	.111 1111		*	reserved
(43)	BIT(8)	1	RCT_PRIORITY	Priority of entry threads
	1...		RCT_PRIORITY_HIGH	Higher than CICS TCB
	.1..		RCT_PRIORITY_EQUAL	
				Equal to CICS TCB
	..1.		RCT_PRIORITY_LOW	Lower than CICS TCB
	...1 1111		*	reserved
(44)	BIT(8)	1	RCT_THREADWAIT	Entry Threadwait setting
	1...		RCT_THREADWAIT_YES	
				Wait for a thread

Table 46. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		RCT_THREADWAIT_NO	Do not wait, abend
	..1.		RCT_THREADWAIT_POOL	
				Overflow to the pool
	...1 1111		*	reserved
(45)	BIT(8)	1	RCT_ENABLED_STATUS	Enable status of DB2ENTRY
	1...		RCT_DISABLED	DB2ENTRY is disabled
	.1..		RCT_DISABLING	DB2ENTRY is disabling
	..1.		RCT_DISABLED_ROUTE_TO_POOL	
				Route new trans to pool
	...1		RCT_DISABLED_BAD_SQLCODE	
				give new trans a sqlcode
	.... 1...		RCT_DISABLED_ABEND_TRANS	
				abend new transactions
	.... .111		*	reserved
(46)	BIT(16)	2	*	reserved
(48)	CHARACTER	8	RCT_TAMPER_CHECK1	check for overwrite
(50)	CHARACTER	8	RCT_TAMPER_CHECK2	check for overwrite
(58)	UNSIGNED	4	RCT_THREAD_LIMIT	Maximum active threads
(5C)	UNSIGNED	4	RCT_MAX_PROTECTED_THREADS	
				Maximum protected threads
(60)	CHARACTER	8	RCT_THREADS	
(60)	UNSIGNED	4	RCT_CURRENT_ACTIVE_THREADS	
				No of threads active
(64)	UNSIGNED	4	RCT_THREAD_HWM	Hwm of active threads
(68)	CHARACTER	8	RCT_PROTECTED_THREADS	

Table 46. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(68)	UNSIGNED	4	RCT_CURRENT_ PROTECTED_THREADS	
				No of prot. threads
(6C)	UNSIGNED	4	RCT_PROTECTED_ THREADS_HWM	
				hwm of protected threads
(70)	CHARACTER	8	RCT_USERS	
(70)	UNSIGNED	4	RCT_USE_COUNT	No. of tasks using entry
(74)	UNSIGNED	4	RCT_USE_ COUNT_HWM	hwm of tasks
(78)	CHARACTER	8	RCT_WAITERS	
(78)	UNSIGNED	4	RCT_READYQ_ COUNT	No. of tasks on readyq
(7C)	UNSIGNED	4	RCT_READYQ_HWM	hwm of tasks on readyq
(80)	UNSIGNED	4	RCT_TASK_COUNT	# tasks
(84)	UNSIGNED	4	RCT_CALL_COUNT	# calls
(88)	UNSIGNED	4	RCT_AUTH_COUNT	# authorisations
(8C)	UNSIGNED	4	RCT_PARTIAL_ SIGNON_COUNT	
				# partial signons
(90)	UNSIGNED	4	RCT_COMMIT_COUNT	# commits
(94)	UNSIGNED	4	RCT_ABORT_COUNT	# aborts
(98)	UNSIGNED	4	RCT_SINGLE_ PHASE_COUNT	
				# R/O commits & single up
(9C)	UNSIGNED	4	RCT_THREAD_ REUSE_COUNT	
				# thread reuses
(A0)	UNSIGNED	4	RCT_THREAD_ TERM_COUNT	
				# thread terminates
(A4)	UNSIGNED	4	RCT_WAIT_ OR_OVERFLOW	
				# waits/overflow
(A8)	CHARACTER	4	RCT_DISABLE_AREA	
(A8)	BIT(8)	1	RCT_DISABLE_ECB	ECB for disabling

Table 46. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A9)	UNSIGNED	3	RCT_DISABLE_ WAIT_COUNT	
				Count of waiters
(AC)	ADDRESS	4	RCT_DYNAMIC_ PLAN_EXIT_ANCHOR	
				Anchor for user area
(B0)	ADDRESS	4	RCT_ACTIVE_ THREAD_CHAIN	
				Active threads chain
(B4)	ADDRESS	4	RCT_FREE_ PROT_THREAD_CHAIN	
				Free protected threads
(B8)	ADDRESS	4	RCT_FREE_ CONN_CHAIN	
				Free connection
(BC)	ADDRESS	4	RCT_LOT_CHAIN	Chain of LOTs using entry
(C0)	CHARACTER	8	RCT_READYQ	
(C0)	ADDRESS	4	RCT_READYQ_ LOT_CHAIN	
				Readyq chain of LOTs
(C4)	UNSIGNED	4	RCT_READYQ_ SEC_COUNT	
				Security count for CDS

Constants

Table 47.

Len	Type	value	Name	Description
DFHD2ENT Constants				
14	CHARACTER	>DFHD2ENT	DFHD2ENT_ EYECATCHER	

D2GLB CICS/DB2 Global Block

```
CONTROL BLOCK NAME = DFHD2GLB
DESCRIPTIVE NAME  = CICS DB2 attach Global block

Restricted Materials of IBM

FUNCTION =
     The DFHD2GLB block represents the DB2CONN RDO object and
     contains global state information for the CICS-DB2
```

```
     connection. It also contains the state information for
     Pool threads and command threads. These are mapped by the
     generic DB2ENTRY structure DFHD2RCT but are included in the
     DFHD2GLB as there can only be one pool definition and
     command thread definition and hence are global in nature.
     A DB2CONN and hence a DFHD2GLB is the minimum required to
     operate the CICS-DB2 Attachment facility.
LIFETIME =
     A DFHD2GLB is getmained when a DB2CONN entity is installed.
     It is freemained when a DB2CONN is discarded.
LOCATION =
     DFHD2GLB is anchored off CICS/DB2 static storage (DFHD2SS).
     It resides above the 16MB line.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
  DFHD2GLB block
```

Table 48.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1384	DFHD2GLB	
(0)	CHARACTER	16	GLB_PREFIX	Standard Prefix
(0)	HALFWORD	2	GLB_LEN	
(2)	CHARACTER	14	GLB_EYE	>DFHD2GLB
Global information				
(10)	CHARACTER	8	GLB_DB2CONN_NAME	Name of DB2CONN
(18)	CHARACTER	8	GLB_CICS_ID	Name of CICS
(20)	CHARACTER	4	GLB_DB2_GROUP_ID	Name of DB2 Group
(24)	CHARACTER	4	GLB_DB2_ID	Name of DB2
(28)	CHARACTER	4	GLB_DB2_RELEASE	Release of DB2
(2C)	ADDRESS	4	GLB_DSNAPRH_ ENTRY	Entry point of DSNAPRH
(30)	ADDRESS	4	GLB_DFHD2EX1_ GWA_ADDR	
				Address of GWA of EX1
(34)	ADDRESS	4	GLB_DFHD2EX2_ ENTRY	Entry point of DFHD2EX2
(38)	ADDRESS	4	GLB_DFHD2EX3_ ENTRY	Entry Point of DFHD2EX3
(3C)	ADDRESS	4	GLB_DFHD2MSB_ ENTRY	Entry point of DFHD2MSB
(40)	ADDRESS	4	GLB_MSB_TCB	DFHD2MSB tcb address
(44)	ADDRESS	4	GLB_DFHD2SS_ADDR	Static storage addr
(48)	CHARACTER	12	GLB_MSG_QUEUE1	Message destinations

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	CHARACTER	4	GLB_MSG_QUEUE1	Message destination 1
(4C)	CHARACTER	4	GLB_MSG_QUEUE2	Message destination 2
(50)	CHARACTER	4	GLB_MSG_QUEUE3	Message destination 3
(54)	CHARACTER	8	GLB_SIGNON_ID	Id for authtype(signid)
(5C)	CHARACTER	8	GLB_SECURITY_ REBUILD_TIME	
				STCK for security rebuild
(64)	CHARACTER	8	GLB_CONNECT_TIME	STCK when connected
(6C)	CHARACTER	8	GLB_DISCONNECT_ TIME	
				STCK when disconnected
(74)	CHARACTER	4	GLB_STATS_QUEUE	Statistics destination
(78)	CHARACTER	8	GLB_PURGE_CYCLE	Dbt. Thread purge cycle
(78)	UNSIGNED	4	GLB_PURGE_ CYCLE_MINUTES	
				Purge cycle minutes
(7C)	UNSIGNED	4	GLB_PURGE_ CYCLE_SECONDS	
				Purge cycle seconds
(80)	CHARACTER	8	GLB_TCBS	
(80)	UNSIGNED	4	GLB_CURRENT_ TCBS	Current TCB number
(84)	UNSIGNED	4	GLB_TCB_HWM	hwm of tcbs
(88)	UNSIGNED	4	GLB_TCB_LIMIT	Max number of TCBs
(8C)	ADDRESS	4	GLB_FREE_ CONN_CHAIN	
				Global Free Conn chn
(90)	UNSIGNED	4	GLB_FREE_ CONN_COUNT	
				Number of free Conns
(94)	UNSIGNED	4	GLB_CURRENT_ ASSOCIATED_CSUBS	

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Current assoc CSUBs
(98)	CHARACTER	8	GLB_CONN_READYQ	
(98)	ADDRESS	4	GLB_CONN_ READYQ_CHAIN	
				Readyq for free conns
(9C)	ADDRESS	4	GLB_CONN_ READYQ_SEC_COUNT	
				Sec count for CDS
(A0)	CHARACTER	8	GLB_CONN_ READYQ_COUNTS	
(A0)	UNSIGNED	4	GLB_CONN_ READYQ_COUNT	
				Number of tasks on readyq
(A4)	UNSIGNED	4	GLB_CONN_ READYQ_HWM	
				Peak no. of tasks
(A8)	ADDRESS	4	GLB_FREE_ PROT_THREAD_ CHAIN1	
				Global Free Prot.threads
(AC)	ADDRESS	4	GLB_FREE_ PROT_THREAD_ CHAIN2	
				Global Free Prot.threads
(B0)	BIT(8)	1	GLB_FLAGS	DB2CONN state flags
	1...		GLB_DISCARDING_ DB2CONN	
				Discard in progress
	.1..		GLB_OPENAPI	running openapi mode
	..1.		GLB_AUTH_ EXIT_ACTIVE	
				auth.exit act
	...1		GLB_SSID_ BLANK_ON_INSTALL	
				last install ind
	.... 1...		GLB_IGNORE_ INITPARM	

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				SET DB2CONN ind
	.... .111		*	Reserved
(B1)	BIT(8)	1	GLB_GROUP_ATTACH	Group Attach flags
	1...		GLB_RESYNCMEMBER	Resync uow's
	.1..		GLB_GROUP_ OVERRIDE	
				Grp attach is being overridden on restart@D3A
	..11 1111		*	Reserved
(B2)	BIT(8)	1	GLB_SAVE_ STANDBY_MODE	
				Used to restore mode
(B3)	BIT(16)	2	*	Reserved - alignment
(B5)	BIT(8)	1	GLB_STANDBY_MODE	Standby mode
	1...		GLB_STANDBY_ MODE_RECONNECT	
				Standby=reconnect
	.1..		GLB_STANDBY_ MODE_CONNECT	
				Standby=connect
	..1.		GLB_STANDBY_ MODE_NOCONNECT	
				Standby=noconnect
	...1 1111		*	Reserved
(B6)	BIT(8)	1	GLB_CONNECT_ ERROR	Connect error action
	1...		GLB_CONNECT_ ERROR_SQLCODE	
				Connecterror=sqlcode
	.1..		GLB_CONNECT_ ERROR_ABEND	
				Connecterror=abend
	..11 1111		*	Reserved
(B7)	BIT(8)	1	GLB_NON_ TERMINAL_RELEASE	
				Nontermrel attribute
	1...		GLB_NON_ TERMINAL_ RELEASE_YES	

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Nontermrel=yes
	.111 1111		*	Reserved
(B8)	BIT(8)	1	GLB_THREAD_ERROR	Thread error action
	1...		GLB_THREAD_ERROR_ABEND	
				Threaderror=abend
	.1..		GLB_THREAD_ERROR_N906D	
				Threaderror=n906d
	..1.		GLB_THREAD_ERROR_N906	
				Threaderror=n906
	...1 1111		*	Reserved
(B9)	BIT(8)	1	GLB_CONNECTION_STATUS	
				CICS-DB2 Connection state
	1...		GLB_CONNECTED	Connected to DB2
	.1..		GLB_CONNECTING	Connecting to DB2
	..1.		GLB_DISCONNECTING	Disconnecting from DB2
	...1 1111		*	Reserved
(BA)	BIT(8)	1	GLB_ATTACH_STATUS	CICS Attachment status
	1...		GLB_IN_STANDBY	Attach is in standby
	.1..		GLB_SERVICE_TASK_STARTED	
				CEX2 has started
	..1.		GLB_SERVICE_TASK_TERMINATE	
				CEX2 should terminate
	...1		GLB_DB2_ACCMAINT	DB2 is in access(maint)
	.... 1...		GLB_DFHD2MSB_ACTIVE	
				DFHD2MSB is active
	.... .1..		GLB_SERVICE_TASK_RESYNC	

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				CEX2 to issue resync
	.... ..1.		GLB_DB2_ RESTART_LIGHT	
				DB2 is restart light
	1		*	reserved
(BB)	BIT(8)	1	GLB_SHUTDOWN_ FLAGS	shutdown flags
	1...		GLB_SHUTDOWN_ QUIESCE	
				quiesce shutdown
	.1..		GLB_SHUTDOWN_ FORCE	
				force shutdown
	..1.		GLB_SHUTDOWN_ DB2	shutdown initiated by DB2
	...1		GLB_SHUTDOWN_ MSB_ESTAE	
				shutdown due to DFHD2MSB abending
	.... 1...		GLB_SHUTDOWN_ CICS_IMMED	
				shutdown due to immediate shutdown of CICS.
	.... .1..		GLB_SHUTDOWN_ CICS_QUIESCE	
				shutdown due to quiesce shutdown of CICS
	.... ..1.		GLB_SHUTDOWN_ EX2	shutdown initiated by service task CEX2
	1		GLB_SHUTDOWN_ EX1_FINAL	
				call is from EX1 to complete shutdown
(BC)	UNSIGNED	4	GLB_SERVICE_ TASK_ECB	
				request for service ECB

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C0)	UNSIGNED	4	GLB_SERVICE_ TASK_STOP_ECB	
				wait for CEX2 to term
(C4)	UNSIGNED	4	GLB_SERVICE_ TASK_DB2_STOP_	ECB
				db2 shutdown ecb
(C8)	UNSIGNED	4	GLB_SERVICE_ TASK_P_COUNT	
				number of purges by EX2
(CC)	UNSIGNED	4	GLB_CURRENT_ ASSOCIATED_ CSUBS_HWM	
				Current hwm
(D0)	CHARACTER	8	GLB_D2_TCB_TOKEN	Token for D2 TCB
(D8)	ADDRESS	4	GLB_INDOUBT_LIST	DB2 resync list
(DC)	ADDRESS	4	GLB_EXEC_ RESYNC_LIST	
				list for exec resync
(E0)	UNSIGNED	2	GLB_INDOUBTS_ LENGTH	
				db2 resync list len
(E2)	UNSIGNED	2	GLB_EXEC_ RESYNC_LEN	
				length for exec resyn
(E4)	UNSIGNED	4	GLB_INDOUBTS_ COUNT	db2 resync count
(E8)	CHARACTER	412	GLB_MSB_AREA	DFHD2MSB storage area
(E8)	ADDRESS	4	GLB_ATTACH_ DETACH_CHAIN	
				Global attach/Detach chn
(EC)	UNSIGNED	4	GLB_MSB_ WAIT_ECB	main task wait ECB
(F0)	FULLWORD	4	GLB_MSB_ START_ECB	strt ecb for start comp.
(F4)	UNSIGNED	4	GLB_MSB_ STOP_ECB	main task wait purge ECB

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F8)	BIT(8)	1	GLB_MSB_PARM4	savearea for estae rc
(F9)	BIT(8)	1	GLB_MSB_PARM3	D2MSB/D2CO error flags
	1...		GLB_MSB_ LOAD_PRH_FAILED	
				failed to load prh
	.1..		GLB_MSB_ DB2_NOT_ACTIVE	
				db2 is not active
	..1.		GLB_MSB_ DB2_IDENTIFY_ FAILED	
				identify to DB2 failed
	...1		GLB_MSB_ INSUFFICIENT_AUTH	
				auth identify failed
	.... 1...		GLB_MSB_ ABENDING	D2MSB is abending
	.... .1..		GLB_MSB_ SHOW_INDOUBT_ FAILED	
				show indoubt failed
	.... ..1.		GLB_MSB_ EST_ESTAE_FAILED	
				Failed to establish estae
	1		GLB_MSB_ EST_EXIT_FAILED	
				Failed to estab.SSSC exit
(FA)	BIT(8)	1	GLB_MSB_PARM2	D2MSB/D2CO action flags
	1...		GLB_MSB_ TERMINATE	
				terminate DFHD2MSB
	.1..		*	reserved
	..1.		GLB_CICS_ CHAPPED_DOWN	
				CICS priority lowered

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		GLB_MSB_ ISSUED_ABEND	
				Abend requested
	.... 1...		GLB_DB2_ IDENTIFY_OK	
				identify worked
	.... .111		*	Reserved
(FB)	BIT(8)	1	*	reserved
(FC)	CHARACTER	72	GLB_MSB_ SAVEAREA	DFHD2MSB fwd save area
(144)	CHARACTER	72	GLB_ATTACH_ PARMLIST	
				attach parameter list
(18C)	CHARACTER	200	GLB_WORKAREA	workarea
(254)	CHARACTER	48	GLB_FRB	space for glb FRB
(284)	CHARACTER	252	GLB_THREAD_ NUMBERS	Bitmap for CSUB nums
(284)	ADDRESS	4	GLB_THREAD_ NUM_WORDS (63)	
(380)	ADDRESS	4	GLB_STATS_ BUFFER_ADDR	
				Address of stats buffer
SDWA fields. The name and address fields may not always be available at the time of abend and will not contain correct info				
(384)	ADDRESS	4	GLB_SDWA_REGS (16)	SDWA reg 0-15
(3C4)	CHARACTER	8	GLB_SDWA_PSW	PSW at error time
(3CC)	CHARACTER	8	GLB_SDWA_NAME	Abending prog name
(3D4)	ADDRESS	4	GLB_SDWA_ADDRESS	Abending prog addr
Pool threads section				
(3D8)	STRUCTURE IsA(DFHD2RCT)	200	GLB_POOL	Double word aligned
(3D8)	CHARACTER	16	RCT_PREFIX	Standard Prefix
(3D8)	HALFWORD	2	RCT_LEN	
(3DA)	CHARACTER	14	RCT_EYE	
(3E8)	CHARACTER	8	RCT_NAME	DB2ENTRY name/POOL/ COMD

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3F0)	CHARACTER	8	RCT_TIME	RCT time of install
(3F8)	CHARACTER	8	RCT_PLAN	Plan name if specified
(400)	CHARACTER	8	RCT_PLANEXIT_ NAME	Planexit name if specified
(408)	CHARACTER	4	RCT_TRANSID	Specified transid (if any)
(40C)	ADDRESS	4	RCT_CSUB_ ADDRESS	Locates CSUB
(410)	CHARACTER	8	RCT_AUTHID	Authid if used
(418)	BIT(8)	1	RCT_AUTHTYPE	Authtype if used
	1...		RCT_AUTHTYPE_ GROUP	
				authtype=group
	.1..		RCT_AUTHTYPE_ SIGNID	
				authtype=signid
	..1.		RCT_AUTHTYPE_ TERM	
				authtype=term
	...1		RCT_AUTHTYPE_ TXID	
				authtype=txid
	.... 1...		RCT_AUTHTYPE_ OPID	
				authtype=opid
	.... .1..		RCT_AUTHTYPE_ USERID	
				authtype=userid
	11		*	reserved
(419)	BIT(8)	1	RCT_ACCOUNTREQ	DB2 accounting to be done
	1...		RCT_ACCOUNT_ PER_UOW	
				account per UOW
	.1..		RCT_ACCOUNT_ PER_TASK	
				account per task
	..1.		RCT_ACCOUNT_ PER_TXID	
				account per transid change

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		RCT_ACCOUNT_NONE	no accounting
	 1111		*	reserved
(41A)	BIT(8)	1	RCT_DROLLBACK	Deadlock rollback
	1...		RCT_DROLLBACK_YES	
				Drollback(yes)
	.111 1111		*	reserved
(41B)	BIT(8)	1	RCT_PRIORITY	Priority of entry threads
	1...		RCT_PRIORITY_HIGH	
				Higher than CICS TCB
	.1..		RCT_PRIORITY_EQUAL	
				Equal to CICS TCB
	..1.		RCT_PRIORITY_LOW	Lower than CICS TCB
	...1 1111		*	reserved
(41C)	BIT(8)	1	RCT_THREADWAIT	Entry Threadwait setting
	1...		RCT_THREADWAIT_YES	
				Wait for a thread
	.1..		RCT_THREADWAIT_NO	
				Do not wait, abend
	..1.		RCT_THREADWAIT_POOL	
				Overflow to the pool
	...1 1111		*	reserved
(41D)	BIT(8)	1	RCT_ENABLED_STATUS	
				Enable status of DB2ENTRY
	1...		RCT_DISABLED	DB2ENTRY is disabled
	.1..		RCT_DISABLING	DB2ENTRY is disabling

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		RCT_DISABLED_ ROUTE_TO_POOL	
				Route new trans to pool
	...1		RCT_DISABLED_ BAD_SQLCODE	
				give new trans a sqlcode
	.... 1...		RCT_DISABLED_ ABEND_TRANS	
				abend new transactions
	.... .111		*	reserved
(41E)	BIT(16)	2	*	reserved
(420)	CHARACTER	8	RCT_TAMPER_ CHECK1	check for overwrite
(428)	CHARACTER	8	RCT_TAMPER_ CHECK2	check for overwrite
(430)	UNSIGNED	4	RCT_THREAD_ LIMIT	Maximum active threads
(434)	UNSIGNED	4	RCT_MAX_ PROTECTED_THREADS	
				Maximum protected threads
(438)	CHARACTER	8	RCT_THREADS	
(438)	UNSIGNED	4	RCT_CURRENT_ ACTIVE_THREADS	
				No of threads active
(43C)	UNSIGNED	4	RCT_THREAD_HWM	hwm of active threads
(440)	CHARACTER	8	RCT_PROTECTED_ THREADS	
(440)	UNSIGNED	4	RCT_CURRENT_ PROTECTED_THREADS	
				No of prot. threads
(444)	UNSIGNED	4	RCT_PROTECTED_ THREADS_HWM	
				hwm of protected threads
(448)	CHARACTER	8	RCT_USERS	
(448)	UNSIGNED	4	RCT_USE_COUNT	No. of tasks using entry

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44C)	UNSIGNED	4	RCT_USE_ COUNT_HWM	
				hwm of tasks
(450)	CHARACTER	8	RCT_WAITERS	
(450)	UNSIGNED	4	RCT_READYQ_ COUNT	No. of tasks on readyq
(454)	UNSIGNED	4	RCT_READYQ_HWM	hwm of tasks on readyq
(458)	UNSIGNED	4	RCT_TASK_COUNT	# tasks
(45C)	UNSIGNED	4	RCT_CALL_COUNT	# calls
(460)	UNSIGNED	4	RCT_AUTH_COUNT	# authorisations
(464)	UNSIGNED	4	RCT_PARTIAL_ SIGNON_COUNT	
				# partial signons
(468)	UNSIGNED	4	RCT_COMMIT_ COUNT	# commits
(46C)	UNSIGNED	4	RCT_ABORT_COUNT	# aborts
(470)	UNSIGNED	4	RCT_SINGLE_ PHASE_COUNT	
				# R/O commits & single up
(474)	UNSIGNED	4	RCT_THREAD_ REUSE_COUNT	
				# thread reuses
(478)	UNSIGNED	4	RCT_THREAD_ TERM_COUNT	
				# thread terminates
(47C)	UNSIGNED	4	RCT_WAIT_ OR_OVERFLOW	
				# waits/overflow
(480)	CHARACTER	4	RCT_DISABLE_ AREA	
(480)	BIT(8)	1	RCT_DISABLE_ ECB	ECB for disabling
(481)	UNSIGNED	3	RCT_DISABLE_ WAIT_COUNT	
				Count of waiters
(484)	ADDRESS	4	RCT_DYNAMIC_ PLAN_EXIT_ANCHOR	
				Anchor for user area
CSUB chains				

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(488)	ADDRESS	4	RCT_ACTIVE_ THREAD_CHAIN	
				Active threads chain
(48C)	ADDRESS	4	RCT_FREE_ PROT_THREAD_CHAIN	
				Free protected threads
(490)	ADDRESS	4	RCT_FREE_ CONN_CHAIN	
				Free connection
LOT Chain				
(494)	ADDRESS	4	RCT_LOT_CHAIN	Chain of LOTs using entry
Readyq LOT chain.				
(498)	CHARACTER	8	RCT_READYQ	
(498)	ADDRESS	4	RCT_READYQ_ LOT_CHAIN	
				Readyq chain of LOTs
(49C)	UNSIGNED	4	RCT_READYQ_ SEC_COUNT	
				Security count for CDS
Command threads section				
(4A0)	STRUCTURE IsA(DFHD2RCT)	200	GLB_COMD	
(4A0)	CHARACTER	16	RCT_PREFIX	Standard Prefix
(4A0)	HALFWORD	2	RCT_LEN	
(4A2)	CHARACTER	14	RCT_EYE	
(4B0)	CHARACTER	8	RCT_NAME	DB2ENTRY name/POOL/ COMD
(4B8)	CHARACTER	8	RCT_TIME	RCT time of install
(4C0)	CHARACTER	8	RCT_PLAN	Plan name if specified
(4C8)	CHARACTER	8	RCT_PLANEXIT_ NAME	Planexit name if specified
(4D0)	CHARACTER	4	RCT_TRANSID	Specified transid (if any)
(4D4)	ADDRESS	4	RCT_CSUB_ ADDRESS	Locates CSUB
(4D8)	CHARACTER	8	RCT_AUTHID	Authid if used
(4E0)	BIT(8)	1	RCT_AUTHTYPE	Authtype if used

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		RCT_AUTHTYPE_GROUP	
				authtype=group
	.1..		RCT_AUTHTYPE_SIGNID	
				authtype=signid
	..1.		RCT_AUTHTYPE_TERM	
				authtype=term
	...1		RCT_AUTHTYPE_TXID	
				authtype=txid
	.... 1...		RCT_AUTHTYPE_OPID	
				authtype=opid
	.... .1..		RCT_AUTHTYPE_USERID	
				authtype=userid
	11		*	reserved
(4E1)	BIT(8)	1	RCT_ACCOUNTREQ	EXEC accounting to be done
	1...		RCT_ACCOUNT_PER_UOW	
				account per UOW
	.1..		RCT_ACCOUNT_PER_TASK	
				account per task
	..1.		RCT_ACCOUNT_PER_TXID	
				account per transid change
	...1		RCT_ACCOUNT_NONE	no accounting
	 1111		*	reserved
(4E2)	BIT(8)	1	RCT_DROLLBACK	Deadlock rollback
	1...		RCT_DROLLBACK_YES	
				Drollback(yes)
	.111 1111		*	reserved
(4E3)	BIT(8)	1	RCT_PRIORITY	Priority of entry threads
	1...		RCT_PRIORITY_HIGH	

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Higher than CICS TCB
	.1..		RCT_PRIORITY_EQUAL	
				Equal to CICS TCB
	..1.		RCT_PRIORITY_LOW	Lower than CICS TCB
	...1 1111		*	reserved
(4E4)	BIT(8)	1	RCT_THREADWAIT	Entry Threadwait setting
	1...		RCT_THREADWAIT_YES	
				Wait for a thread
	.1..		RCT_THREADWAIT_NO	
				Do not wait, abend
	..1.		RCT_THREADWAIT_POOL	
				Overflow to the pool
	...1 1111		*	reserved
(4E5)	BIT(8)	1	RCT_ENABLED_STATUS	
				Enable status of DB2ENTRY
	1...		RCT_DISABLED	DB2ENTRY is disabled
	.1..		RCT_DISABLING	DB2ENTRY is disabling
	..1.		RCT_DISABLED_ROUTE_TO_POOL	
				Route new trans to pool
	...1		RCT_DISABLED_BAD_SQLCODE	
				give new trans a sqlcode
	.... 1...		RCT_DISABLED_ABEND_TRANS	
				abend new transactions
	.... .111		*	reserved
(4E6)	BIT(16)	2	*	reserved

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4E8)	CHARACTER	8	RCT_TAMPER_ CHECK1	check for overwrite
(4F0)	CHARACTER	8	RCT_TAMPER_ CHECK2	check for overwrite
(4F8)	UNSIGNED	4	RCT_THREAD_ LIMIT	Maximum active threads
(4FC)	UNSIGNED	4	RCT_MAX_ PROTECTED_THREADS	
				Maximum protected threads
(500)	CHARACTER	8	RCT_THREADS	
(500)	UNSIGNED	4	RCT_CURRENT_ ACTIVE_THREADS	
				No of threads active
(504)	UNSIGNED	4	RCT_THREAD_HWM	hwm of active threads
(508)	CHARACTER	8	RCT_PROTECTED_ THREADS	
(508)	UNSIGNED	4	RCT_CURRENT_ PROTECTED_THREADS	
				No of prot. threads
(50C)	UNSIGNED	4	RCT_PROTECTED_ THREADS_HWM	
				hwm of protected threads
(510)	CHARACTER	8	RCT_USERS	
(510)	UNSIGNED	4	RCT_USE_COUNT	No. of tasks using entry
(514)	UNSIGNED	4	RCT_USE_ COUNT_HWM	
				hwm of tasks
(518)	CHARACTER	8	RCT_WAITERS	
(518)	UNSIGNED	4	RCT_READYQ_ COUNT	No. of tasks on readyq
(51C)	UNSIGNED	4	RCT_READYQ_HWM	hwm of tasks on readyq
(520)	UNSIGNED	4	RCT_TASK_COUNT	# tasks
(524)	UNSIGNED	4	RCT_CALL_COUNT	# calls
(528)	UNSIGNED	4	RCT_AUTH_COUNT	# authorisations
(52C)	UNSIGNED	4	RCT_PARTIAL_ SIGNON_COUNT	
				# partial signons

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(530)	UNSIGNED	4	RCT_COMMIT_ COUNT	# commits
(534)	UNSIGNED	4	RCT_ABORT_COUNT	# aborts
(538)	UNSIGNED	4	RCT_SINGLE_ PHASE_COUNT	
				# R/O commits & single up
(53C)	UNSIGNED	4	RCT_THREAD_ REUSE_COUNT	
				# thread reuses
(540)	UNSIGNED	4	RCT_THREAD_ TERM_COUNT	
				# thread terminates
(544)	UNSIGNED	4	RCT_WAIT_ OR_OVERFLOW	
				# waits/overflow
(548)	CHARACTER	4	RCT_DISABLE_ AREA	
(548)	BIT(8)	1	RCT_DISABLE_ ECB	ECB for disabling
(549)	UNSIGNED	3	RCT_DISABLE_ WAIT_COUNT	
				Count of waiters
(54C)	ADDRESS	4	RCT_DYNAMIC_ PLAN_EXIT_ANCHOR	
				Anchor for user area
(550)	ADDRESS	4	RCT_ACTIVE_ THREAD_CHAIN	
				Active threads chain
(554)	ADDRESS	4	RCT_FREE_ PROT_THREAD_CHAIN	
				Free protected threads
(558)	ADDRESS	4	RCT_FREE_ CONN_CHAIN	
				Free connection
(55C)	ADDRESS	4	RCT_LOT_CHAIN	Chain of LOTs using entry
(560)	CHARACTER	8	RCT_READYQ	
(560)	ADDRESS	4	RCT_READYQ_ LOT_CHAIN	

Table 48. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Readyq chain of LOTs
(564)	UNSIGNED	4	RCT_READYQ_ SEC_COUNT	
				Security count for CDS

```
DFHD2GRP block
```

Table 49.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	DFHD2GRP	
(0)	CHARACTER	16	GRP_PREFIX	Standard Prefix
(0)	HALFWORD	2	GRP_LEN	
(2)	CHARACTER	14	GRP_EYE	>DFHD2GRP
Group information				
(10)	CHARACTER	4	GRP_DB2_GROUP_ID	Name of DB2 group
(14)	CHARACTER	4	GRP_DB2_ID	Name of DB2 member
(18)	CHARACTER	8	*	Spare bytes

Constants

Table 50.

Len	Type	value	Name	Description
DFHD2GLB Constants				
14	CHARACTER	>DFHD2GLB	DFHD2GLB_ EYECATCHER	
14	CHARACTER	GLB POOL SECTN	DFHD2GLB_ POOL_EYECATCHER	
14	CHARACTER	GLB COMD SECTN	DFHD2GLB_ COMD_EYECATCHER	
8	CHARACTER	*POOL	DFHD2GLB_POOL_NAME	
8	CHARACTER	*COMMAND	DFHD2GLB_COMD_NAME	
4	DECIMAL	14336	GLB_STATS_BUFFER_LEN	
DFHD2GRP Constants				
14	CHARACTER	>DFHD2GRP	DFHD2GRP_ EYECATCHER	

D2GWA CICS/DB2 Global Work Area

```
CONTROL BLOCK NAME = DFHD2GWA
DESCRIPTIVE NAME  = CICS DB2 True's Global Work Area

Restricted Materials of IBM
```

```
FUNCTION =
     Global Work area for the CICS-DB2 True.
LIFETIME =
     The DFHD2GWA is getmained by CICS when the CICS-DB2 TRUE
     DFHD2EX1 is enabled. It is freemained when the TRUE is
     disabled.
LOCATION =
     DFHD2GWA resides below the 16MB line. It is located using
     UEPGAA in the TRUE's DFHUEPAR parameter list
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
  DFHD2GWA
```

Table 51.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	DFHD2GWA	
(0)	CHARACTER	8	GWA_PREFIX	Standard Prefix
(0)	HALFWORD	2	GWA_LENGTH	
(2)	CHARACTER	6	GWA_EYE	>D2GWA
(8)	ADDRESS	4	GWA_OLD_RCT	old RCT addr, must be at +8
(C)	ADDRESS	4	GWA_LOT	Chain of LOTs using DB2

Constants

Table 52.

Len	Type	value	Name	Description
DFHD2LOT Constants				
6	CHARACTER	>D2GWA	DFHD2GWA_ EYECATCHER	

D2LOT CICS/DB2 Life of task block

```
CONTROL BLOCK NAME = DFHD2LOT
DESCRIPTIVE NAME  = CICS DB2 attach Life of Task block

Restricted Materials of IBM

FUNCTION =
     The DFHD2LOT block holds task lifetime information about
     the task currently accessing DB2. It is the CICS-DB2
     equivalent of the TCA.
LIFETIME =
     The DFHD2LOT is a mapping of the task Local work area of
     the CICS-DB2 TRUE DFHD2EX1. It is getmained by CICS the
     time a CICS task calls the CICS-DB2 TRUE. It is freemained
     by CICS at task termination time.
LOCATION =
     DFHD2LOT resides above the 16MB line. It is located using
     UEPTAA in the TRUE's DFHUEPAR parameter list
NOTES :
 DEPENDENCIES = S/370
```

```
RESTRICTIONS = none
MODULE TYPE = Control block definition
-------------------------------------------------------------------
 DFHD2LOT
```

Table 53.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	222	DFHD2LOT	
(0)	CHARACTER	16	LOT_PREFIX	Standard Prefix
(0)	HALFWORD	2	LOT_LEN	
(2)	CHARACTER	14	LOT_EYE	>DFHD2LOT
(10)	CHARACTER	4	LOT_TRANSID	Transaction id
(14)	ADDRESS	4	LOT_TCA	Address of TCA
(18)	ADDRESS	4	LOT_RCTE	-> DB2ENTRY | POOL | COMD
(1C)	ADDRESS	4	LOT_CSUB	Address of CSUB
(20)	ADDRESS	4	LOT_GWA_ CHAIN_NEXT	-> next LOT on GWA chain
(24)	ADDRESS	4	LOT_GWA_ CHAIN_PREV	-> prev LOT on GWA chain
(28)	ADDRESS	4	LOT_RCT_ CHAIN_NEXT	-> next LOT on RCT chain
(2C)	ADDRESS	4	LOT_RCT_ CHAIN_PREV	-> prev LOT on RCT chain
(30)	ADDRESS	4	LOT_CALL_PARMS	Addr of SQL or CICS parms
(30)	BIT(8)	1	*	
	1...		LOT_CALL_ PARMS_HIGH	
				High bit of address
(34)	UNSIGNED	4	LOT_ECB	Ecb to wait CICS task
(38)	UNSIGNED	4	LOT_ACEE_ADDRESS	ACEE address
(3C)	UNSIGNED	4	LOT_WLM_ PERF_TOKEN	WLM performance token
(40)	CHARACTER	8	LOT_RCTE_READYQ	
(40)	ADDRESS	4	LOT_READYQ_NEXT	-> next LOT on readyq
(44)	UNSIGNED	4	LOT_READYQ_ COUNT	-> security count for CDS
(48)	CHARACTER	8	LOT_GLB_ CONN_READYQ	
(48)	ADDRESS	4	LOT_CONN_ READYQ_NEXT	
				-> next LOT on readyq

Table 53. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	UNSIGNED	4	LOT_CONN_ READYQ_COUNT	
				-> sec count for CDS
(50)	UNSIGNED	2	LOT_SQL_STMT_NO	FOR EDF
(52)	UNSIGNED	2	*	reserved
(54)	CHARACTER	8	LOT_PLAN_NAME	Plan name
(5C)	CHARACTER	12	LOT_REQUEST_ INDICATORS	
(5C)	BIT(8)	1	LOT_CURRENT_ REQUEST	
				current request type
(5D)	BIT(8)	1	LOT_REQUEST_ MINUS_ONE	
				previous request type
	1...		LOT_REQUEST_ MINUS_ONE_FAILED	
				prev req failed
(5E)	BIT(8)	1	LOT_REQUEST_ MINUS_TWO	
				current - 2 request type
(5F)	BIT(8)	1	LOT_REQUEST_ MINUS_THREE	
				current - 3 request type
(60)	BIT(8)	1	LOT_REQUEST_ FLAGS	Miscellaneous flags
	1...		LOT_DYN_ PLAN_ALLOWED	
				Allowed to call dyn plan
	.1..		LOT_APPL_ MUST_ABORT	
				application must abort
	..1.		LOT_TERMINAL_ TRANS	
				terminal driven trans
	...1		LOT_OVERFLOW_ TO_POOL	
				we have oveflowed to pool

Table 53. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		LOT_TXNS_ LAST_CALL	
				last uow for transaction
	.... .1..		LOT_ADJUSTED_ PRIORITY	
				adjust tcb priority
	.... ..1.		LOT_DYNAMIC_ EXIT_CALLED	
				exit called
	1		*	reserved
(61)	BIT(8)	1	LOT_READ_ ONLY_INDICATOR	
				read only commit ind.
	1...		LOT_PREPARE_ READ_ONLY	
				prepare signalled r/o
	.111 1111		*	
(62)	BIT(8)	1	LOT_TRACE_FLAGS	Copy of trace flags
	1...		LOT_LEVEL1_ TRACE	RMI level 1 trace active
	.1..		LOT_LEVEL2_ TRACE	RMI level 2 trace active
	..11 1111		*	reserved
(63)	BIT(8)	1	LOT_DEFERRED_ ABENDS	
				deferred abend flags
	1...		LOT_ABEND_AD2S	AD2S if more calls
	.1..		LOT_ABEND_AD2T	AD2T if more calls
	..1.		LOT_ABEND_AD2U	AD2U if more calls
	...1 1111		*	reserved
(64)	BIT(32)	4	LOT_SWAP_WORD	Word for compare & swap
(64)	BIT(24)	3	*	reserved
(67)	BIT(8)	1	LOT_SQL_STATUS	status of sql request

Table 53. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		LOT_API_ CALL_IN_PROGRESS	
				sql api call in progress
	.1..		LOT_TASK_ PURGED_FROM_CICS	
				purged from CICS
	..11 1111		*	reserved
(68)	CHARACTER	8	LOT_RETURN_CODES	
(68)	UNSIGNED	1	LOT_RMI_ RETURN_CODE	
				Return code to CICS
(69)	BIT(8)	1	LOT_ERROR_CODES	General error code
(6A)	BIT(8)	1	LOT_ERROR_ CODES_MINUS_ONE	
				error from previous req
(6B)	BIT(8)	1	LOT_ERROR_ CODES_MINUS_TWO	
				error from req-2
(6C)	BIT(8)	1	LOT_ERROR_ CODES_MINUS_THREE	
				error from req-3
(6D)	BIT(24)	3	*	reserved
(70)	CHARACTER	16	LOT_UR_TOKEN	UR token
(80)	CHARACTER	8	LOT_PRIMARY_ AUTH_NAME	
				Auth name to sign on
(88)	CHARACTER	8	LOT_SECONDARY_ AUTH_NAME	
				Secondary auth to sign on
(90)	CHARACTER	8	LOT_SUBTASK_ ABEND_REASON	
				reason code and abend if subtask abended
(90)	CHARACTER	8	LOT_DBRM_NAME	dbrm name
(98)	CHARACTER	22	LOT_ACCOUNTING_ TOKEN	
				Accounting token for DB2

Table 53. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(98)	CHARACTER	8	LOT_ACCOUNT_ NETNAME	
				Netname
(A0)	CHARACTER	8	LOT_ACCOUNT_ LUNAME	
				luname
(A8)	CHARACTER	6	LOT_ACCOUNT_ CLOCK	middle six bytes of STCK
(AE)	CHARACTER	48	LOT_FRB	space for clot FRB

Constants

Table 54.

Len	Type	value	Name	Description
DFHD2LOT Constants				
14	CHARACTER	>DFHD2LOT	DFHD2LOT_ EYECATCHER	
Constants for LOT_current_request				
1	HEX	00	LOT_UR_SHOULD_ NOT_BE_INDOUBT	
1	HEX	01	LOT_SQL_API_ REQUEST	
1	HEX	02	LOT_PREPARE_ REQUEST	
1	HEX	03	LOT_COMMIT_REQUEST	
1	HEX	04	LOT_ABORT_REQUEST	
1	HEX	05	LOT_DSNC_ COMMAND_REQUEST	
1	HEX	06	LOT_IFI_API_ REQUEST	
1	HEX	07	LOT_SQL_EDF_ REQUEST	
1	HEX	08	LOT_RESYNC_ LOST_TO_INITIAL	
1	HEX	09	LOT_SINGLE_ PHASE_COMMIT	
1	HEX	0A	LOT_END_OF_ TASK_REQUEST	
1	HEX	0B	LOT_IFI_EDF_ REQUEST	
1	HEX	0C	LOT_SPI_REQUEST	
1	HEX	0D	LOT_CICS_ SHUTDOWN_REQUEST	
1	HEX	11	LOT_SQL_API_ BUT_MUST_ABORT	

Table 54. (continued)

Len	Type	value	Name	Description
1	HEX	16	LOT_IFI_API_ BUT_MUST_ABORT	
1	HEX	80	LOT_API_REQUEST_ FAILED	
1	HEX	81	LOT_SQL_API_ REQUEST_FAILED	
1	HEX	82	LOT_PREPARE_ ABENDED	
1	HEX	85	LOT_DSNC_ COMMAND_REQUEST_ FAILED	
1	HEX	86	LOT_IFI_API_ REQUEST_FAILED	
Constants for lot_rmi_return_code				
1	DECIMAL	0	LOT_RMI_RETURN_ CODE_OK	
1	HEX	0C	LOT_ABEND_ TXN_WITH_DUMP	
Constants for lot_error_codes				
1	HEX	04	LOT_RCT_TAMPER_ ERROR	
1	HEX	08	LOT_INSTALLATION_ ERROR	
1	HEX	0C	LOT_ATTACH_ SHUTDOWN_IN_PROGRESS	
1	HEX	10	LOT_NO_THREAD	
1	HEX	18	LOT_CONN_ SUBTASK_ABEND	
1	HEX	1C	LOT_SIGNON_FAILED	
1	HEX	20	LOT_THREAD_ RESOURCE_UNAVAILABLE	
1	HEX	24	LOT_CREATE_ THREAD_FAILED	
1	HEX	28	LOT_UNKNOWN_CALL	
1	HEX	2C	LOT_RESYNC_ FAILED_INITIAL_ START	
1	HEX	34	LOT_ONLY_ DB2_INDOUBT	
1	HEX	38	LOT_CICS_ ABORT_DB2_COMMIT	
1	HEX	3C	LOT_DB2_RESOLVE_ INDOUBT_ABEND	
1	HEX	40	LOT_ROLLBACK_ TXN_FOR_DEADLOCK	

Table 54. (continued)

Len	Type	value	Name	Description
1	HEX	44	LOT_UNKNOWN_ RMI_CALL	
1	HEX	4C	LOT_EDF_CALL_ FAILED	
1	HEX	50	LOT_SHUTDOWN_ WHILE_COMMIT_ABORT	
1	HEX	54	LOT_MUST_ABORT	
1	HEX	58	LOT_SINGLE_ PHASE_BACKED_OUT	
1	HEX	60	LOT_SINGLE_ PHASE_COMMIT_FAILED	
1	HEX	68	LOT_ATTACH_ IN_STANDBY_MODE	
1	HEX	70	LOT_ACQUIRE_ LOCK_FAILED	
1	HEX	74	LOT_RELEASE_ LOCK_FAILED	
1	HEX	78	LOT_AUTH_ TYPE_INVALID	
1	HEX	7C	LOT_RECOVERY_ ROUTINE_ENTERED	
1	HEX	80	LOT_INVALID_ DDLO_REASON	
1	HEX	84	LOT_INVALID_ DDLO_RESPONSE	
1	HEX	88	LOT_INVALID_ THREAD_STATE	
1	HEX	8C	LOT_LOST_ OUR_THREAD	
1	HEX	90	LOT_WAIT_ MVS_FAILED	
1	HEX	94	LOT_GETMAIN_FAILED	
1	HEX	98	LOT_INVALID_ RMI_VERB	
1	HEX	9C	LOT_DB2ENTRY_ DISABLED	
1	HEX	A0	LOT_ATTACH_ SUBTASK_NO_STORAGE	
1	HEX	A4	LOT_ATTACH_ SUBTASK_FAILED	
1	HEX	A8	LOT_IDENTIFY_ FAILED	
1	HEX	AC	LOT_COMMIT_FAILED	
1	HEX	B0	LOT_BACKOUT_FAILED	
1	HEX	B4	LOT_TERMINATE_ THREAD_FAILED	

Table 54. (continued)

Len	Type	value	Name	Description
1	HEX	B8	LOT_ASSOCIATE_ FAILED	
1	HEX	BC	LOT_PREPARE_FAILED	

D2SS CICS/DB2 Static Storage

```
CONTROL BLOCK NAME = DFHD2SS
DESCRIPTIVE NAME  = CICS DB2 attach Static Storage

Restricted Materials of IBM

FUNCTION =
     The DFHD2SS block contains global data for the CICS-DB2
     connection established during CICS startup before the
     DFHD2GLB is created. It is also used to store data that
     needs to survive even if the DB2CONN is discarded and hence
     the DFHD2GLB freemained.
LIFETIME =
     DFHD2SS is getmained by DFHSIB1C during CICS initialisation.
     Its lifetime is the lifteime of CICS, it is not freemained.
LOCATION =
     DFHD2SS resides above the 16MB line. It is anchored off
     the static storage address list DFHSSAPS which is turn is
     anchored off the CSA optional features list.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
  DFHD2SS block
```

Table 55.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	136	DFHD2SS	
(0)	CHARACTER	16	D2S_PREFIX	Standard Prefix
(0)	HALFWORD	2	D2S_LENGTH	Length of control block
(2)	CHARACTER	14	D2S_EYE	Eyecatcher >DFHD2SS
Anchor addresses				
(10)	ADDRESS	4	D2S_DFHD2GLB	Anchor address of DFHD2GLB
Directory manager tokens for DFHD2ENT and DFHD2TRN control blocks.				
(14)	ADDRESS	4	D2S_D2ENT_ DIR_TOKEN	
				D2ENT directory token
(18)	ADDRESS	4	D2S_D2TRN_ N_DIR_TOKEN	
				D2TRN dir token (key=name)

Table 55. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	ADDRESS	4	D2S_D2TRN_ T_DIR_TOKEN	
				D2TRN dir token (key=tranid)
Directory manager token for CSUB. Accessing CSUBs via directory manager is only used in dump formatting				
(20)	ADDRESS	4	D2S_D2CSB_ DIR_TOKEN	
				D2CSB dir token (key=stck)
Lock manager tokens for locks on the DFHD2GLB, DFHD2ENT and DFHD2TRN control blocks.				
(24)	ADDRESS	4	D2S_D2GLB_ LOCK_TOKEN	
				DB2CONN lock token
(28)	ADDRESS	4	D2S_D2ENT_ LOCK_TOKEN	
				D2ENT directory token
(2C)	ADDRESS	4	D2S_D2TRN_ LOCK_TOKEN	
				D2ENT directory token
Lock manager tokens for locks on CSUB control blocks and LOT control blocks when manipulating double linked chains.				
(30)	ADDRESS	4	D2S_FREE_ CONN_LOCK_TOKEN	
				Lock for CSUB free conn
(34)	ADDRESS	4	D2S_PTHREAD_ LOCK_TOKEN	
				Lock for CSUB prot threads
(38)	ADDRESS	4	D2S_ATHREAD_ LOCK_TOKEN	
				Lock for CSUB active threads
(3C)	ADDRESS	4	D2S_LOT_ LOCK_TOKEN	Lock for GWA and RCT LOT chns
Storage manager subpool tokens identifying the subpools for the DFHD2ENT, DFHD2TRN and DFHD2CSB control blocks				
(40)	CHARACTER	8	D2S_D2ENT_ SM_TOKEN	D2ENT subpool token
(48)	CHARACTER	8	D2S_D2TRN_ SM_TOKEN	D2TRN subpool token

Table 55. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	CHARACTER	8	D2S_D2CSB_ SM_TOKEN	D2CSB subpool token
Entry point addresses for CICS-DB2 modules loaded by DFHD2RP				
(58)	ADDRESS	4	D2S_DFHD2CC_ ENTRY_POINT	
				CICS-DB2 Connection Control
(5C)	ADDRESS	4	D2S_DFHD2CO_ ENTRY_POINT	
				CICS-DB2 Coordinator pgm
(60)	ADDRESS	4	D2S_DFHD2D2_ ENTRY_POINT	
				CICS-DB2 Thread processor@D2A
(64)	ADDRESS	4	D2S_DFHD2STR_ ENTRY_POINT	
				CICS-DB2 Start Program
(68)	ADDRESS	4	D2S_DFHD2STP_ ENTRY_POINT	
				CICS-DB2 Stop Program
(6C)	ADDRESS	4	D2S_DFHD2TM_ ENTRY_POINT	
				CICS-DB2 Table manager
Counts used to valid DB2ENTRY and DB2TRAN tokens				
(70)	UNSIGNED	4	D2S_DB2ENTRY_ CHANGE_COUNT	
				Count to invalid tokens
(74)	UNSIGNED	4	D2S_DB2TRAN_ CHANGE_COUNT	
				Count to invalid tokens
Miscellaneous				
(78)	BIT(8)	1	D2S_INIT_ECB	CICS/DB2 initialisation ecb
	1...		*	
	.1..		D2S_INIT_ ECB_POSTED	
				Posted setting for ECB

Table 55. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..11 1111		*	
(79)	BIT(8)	1	D2S_DISCONNECT_ECB	ECB for disconnecting
(7A)	UNSIGNED	1	D2S_D2ST_RESP	Response from restart task
(7B)	BIT(8)	1	*	Reserved !
(7C)	UNSIGNED	4	D2S_SERVICE_TASK_DB2_START_ECB	
				db2 notify ecb
Group attach fields				
(80)	CHARACTER	4	D2S_PREV_DB2_GROUP_ID	
(84)	CHARACTER	4	D2S_PREV_DB2_ID	

Constants

Table 56.

Len	Type	value	Name	Description
Constants				
1	DECIMAL	1	D2S_D2ST_OK	
1	DECIMAL	2	D2S_D2ST_EXCEPTION	
1	DECIMAL	3	D2S_D2ST_DISASTER	

D2TRN DB2TRAN block

```
CONTROL BLOCK NAME = DFHD2TRN
DESCRIPTIVE NAME  = CICS DB2 attach DB2TRAN control block

Restricted Materials of IBM

FUNCTION =
     The DFHD2TRN block represents a DB2TRAN RDO object, the
     mapping between a DB2ENTRY and a transaction id (transid)
     that is associated with it.
LIFETIME =
     A DFHD2TRN is getmained when a DB2TRAN entity is installed.
     It is freemained when a DB2TRAN is discarded.
LOCATION =
     DFHD2ENT resides above the 16MB line. It is located using
     Directory manager domain using its name as the key. There
     is also a second index using Directory manager so that a
     DFHD2ENT block can be located using the transid it holds.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
  DFHD2TRN block
```

Table 57.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	44	DFHD2TRN	
(0)	CHARACTER	16	TRN_PREFIX	Standard Prefix
(0)	HALFWORD	2	TRN_LENGTH	
(2)	CHARACTER	14	TRN_EYE	>DFHD2ENT
(10)	CHARACTER	8	TRN_NAME	name of DB2TRAN
(18)	CHARACTER	4	TRN_TRANSID	Transid
(1C)	CHARACTER	8	TRN_DB2ENTRY_NAME	name of associated DB2ENTRY
(24)	CHARACTER	8	TRN_DB2ENTRY_ETOKEN	
(24)	ADDRESS	4	TRN_DB2ENTRY_ADDR	Addr(associated DB2ENTRY)
(28)	UNSIGNED	4	TRN_DB2ENTRY_COUNT	
				Count to validate token

Constants

Table 58.

Len	Type	value	Name	Description
DFHD2TRN Constants				
14	CHARACTER	>DFHD2TRN	DFHD2TRN_EYECATCHER	

DDBSC Directory Manager Building Blocks *L2A

```
AVL2 Header structure for instance:
     AVLTREE
```

Table 59.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	AVL2	
(0)	CHARACTER	12	DUMMY	Unused
(C)	ADDRESS	4	ROOT	Pointer to root
(10)	ADDRESS	4	FRST	Pointer to first
(14)	ADDRESS	4	LAST	Pointer to last
(18)	FULLWORD	4	NOEL	Number of elements
(1C)	FULLWORD	4	ELEN	Element length

```
               End of AVL2 Header structure
AVL2 Node structure for instance:
     AVLTREE
```

Table 60.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	NODE	
(0)	CHARACTER	16	HDR	
(0)	ADDRESS	4	LEFT	Left child
(4)	ADDRESS	4	RITE	Right child
(8)	ADDRESS	4	PAPA	Parent
(C)	FULLWORD	4	BFAC	Balancing factor
(10)	CHARACTER	*	DATA	Data portion

DDCBC Directory Manager Structures

```
Restricted Materials of IBM

-------------------------------------------------------------------
  Directory Manager Domain Structures and Constants.
  The Directory manager anchor block and other internal directory
  structures are described below.
```

Table 61.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	88	DDA	
The Directory Manager Anchor Block				
(0)	CHARACTER	16	DDA_PREFIX	
(0)	HALFWORD	2	DDA_LENGTH	Structure length
(2)	CHARACTER	1	DDA_ARROW	>
(3)	CHARACTER	3	DDA_DFH	DFH
(6)	CHARACTER	2	DDA_DOMID	DD
(8)	CHARACTER	8	DDA_BLOCK_NAME	ANCHOR
(10)	CHARACTER	8	DDA_IDIRECTORY	CLASS
(10)	ADDRESS	4	DDA_DIRECTORY_ LIST	
				Directory header chain
(14)	UNSIGNED	1	DDA_STATE	Directory Manager state
(15)	CHARACTER	3	*	Reserved
(18)	CHARACTER	32	DDA_CICS_BITS	
(18)	CHARACTER	8	DDA_GENERAL_ SUBPOOL	
				Directory general subpool
(20)	CHARACTER	8	DDA_BROWSE_ SUBPOOL	
				Directory browse subpool

Table 61. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	ADDRESS	4	DDA_GLOBAL_LOCK	Directory global lock
(2C)	BIT(8)	1	*	
	1...		DDA_COLD_START	Was it a cold start
(2D)	CHARACTER	3	*	Reserved
(30)	CHARACTER	4	*	Reserved
(34)	CHARACTER	4	*	Reserved
(38)	CHARACTER	32	DDA_LDAP_BITS	
(38)	CHARACTER	8	DDA_LDAP_SESSION_SUBPOOL	
(40)	CHARACTER	8	DDA_LDAP_SEARCH_SUBPOOL	
(48)	ADDRESS	4	DDA_LDAP_SESSION_LOCK	
(4C)	FULLWORD	4	*	
(50)	ADDRESS	4	DDA_FIRST_LDAP_SESSION	
(54)	ADDRESS	4	DDA_LAST_LDAP_SESSION	
(58)	CHARACTER	0	DDA_END	

Table 62.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	72	DIRHEAD	
A Directory Header structure. There is one of these for each directory. It is created by the Directory manager CREATE_DIRECTORY function, and is chained on to the list of directories in alphabetical order. It lasts until CICS terminates.				
(0)	CHARACTER	16	DH_PREFIX	
(0)	HALFWORD	2	DH_LENGTH	Structure length
(2)	CHARACTER	1	DH_ARROW	>
(3)	CHARACTER	3	DH_DFH	DFH
(6)	CHARACTER	2	DH_DOMID	DD
(8)	CHARACTER	8	DH_BLOCK_NAME	DIR_HEAD
(10)	CHARACTER	20	DH_CICS_BITS	
(10)	ADDRESS	4	DH_NEXT	Next directory in chain
(14)	ADDRESS	4	DH_PREV	Previous directory in chain
(18)	ADDRESS	4	DH_LOCAL_LOCK	Directory local lock

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	CHARACTER	8	DH_SUBPOOL	Fixed length subpool
(24)	CHARACTER	8	DH_IDIRECTORY	
(24)	CHARACTER	4	DH_DIRNAME	Directory name
(28)	FULLWORD	4	DH_DIRKEYLENGTH	Key length (4 to 252)
The Lookup Map section of the Directory Header. This holds the information for fast location of an entry name				
(2C)	CHARACTER	16	DH_ILOOKUPMAP	
(2C)	FULLWORD	4	DH_HASHSIZE	Size of the hash table
(30)	FULLWORD	4	DH_HASHELEMS	Current number of entries
(34)	ADDRESS	4	DH_HASHTABLE	Address of hash table
(38)	BIT(8)	1	*	
	1...		DH_REHASH	Rehash required flag
(39)	CHARACTER	3	*	Reserved
The Browse Seq section of the Directory Header. This holds the information used for browsing the directory				
(3C)	CHARACTER	12	DH_IBROWSESEQ	
(3C)	FULLWORD	4	DH_DELETES	Number of deletes
(40)	ADDRESS	4	DH_CURRENT_BROWSES	
				Browses on this directory
(44)	ADDRESS	4	DH_BROWSETREE	The browse tree
(48)	CHARACTER	0	DH_END	

Table 63.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	HASHELEM	
A hash chain element. One exists for each entry name in each directory. It is created by the ADD_ENTRY function, and is chained on to the collision list from the hash table. It is destroyed by the DELETE_ENTRY function.				
(0)	ADDRESS	4	HE_NEXT	Next on collision list
(4)	CHARACTER	8	HE_TOKEN	Corresponding data token
(C)	CHARACTER	0	HE_NAME	Variable length key name

Table 64.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	HASHSTRUCT	
The hash table structure. There is one of these for each directory, created either by the CREATE_DIRECTORY function, or by the ADD_ENTRY function when performing a dynamic re-hash. It is destroyed during a dynamic re-hash.				
(0)	CHARACTER	16	HS_PREFIX	
(0)	HALFWORD	2	HS_LENGTH	Structure length
(2)	CHARACTER	1	HS_ARROW	>
(3)	CHARACTER	3	HS_DFH	DFH
(6)	CHARACTER	2	HS_DOMID	DD
(8)	CHARACTER	8	HS_BLOCK_NAME	HASH_TBL
(10)	CHARACTER	0	HS_HASHTABLE	The actual hash table

Table 65.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	292	BROWSE_VAL	
This structure holds the information for a browse on a particular directory. The structure is created by the Directory manager START_BROWSE function, and is chained on to the list of current browses if not in task_related storage. It is destroyed by the END_BROWSE function, or if task_related, at end-of-task.				
(0)	CHARACTER	16	BV_PREFIX	
(0)	HALFWORD	2	BV_LENGTH	Structure length
(2)	CHARACTER	1	BV_ARROW	>
(3)	CHARACTER	3	BV_DFH	DFH
(6)	CHARACTER	2	BV_DOMID	DD
(8)	CHARACTER	8	BV_BLOCK_NAME	BRWS_VAL
(10)	ADDRESS	4	BV_NEXT	Next browse_val in list
(14)	ADDRESS	4	BV_PREV	Previous browse_val
(18)	FULLWORD	4	BV_OLDDELETES	Deletes after get next
(1C)	ADDRESS	4	BV_OLDCURSOR	Cursor after get next
(20)	BIT(8)	1	BV_FLAGS	
	1...		BV_ON_NAME	Are we on a name yet
	.1..		BV_DONE_GETNEXT	Have we done a getnext
	..1.		BV_TASK_RELATED	Task-related browse?

Table 65. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(21)	CHARACTER	3	*	Reserved
(24)	CHARACTER	256	BV_OLDNAME	Name after last get next
(124)	CHARACTER	0	BV_END	

```
!:refstep.DDCB_ LDAP_SESSION_ DATA ---------- DFHDDCB 1145 -
!
!
  ! The LDAP session data is used to preserve the current state of a
  ! connection with an LDAP server.
!
  !-------------------------------------------------------------------
```

Table 66.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	144	LDAP_SESSION_STATE	LDAP session state
(0)	CHARACTER	16	LDAP_SESSION_PREFIX	
				Domain standard prefix
(0)	HALFWORD	2	LDAP_SESSION_LEN	Length of block
(2)	CHARACTER	14	LDAP_SESSION_EYECATCHER	
				>DFHDDLDAPSESS
(10)	ADDRESS	4	LDAP_SESSION_NEXT	Next session in chain
(14)	ADDRESS	4	LDAP_SESSION_PREV	Previous session in chain
(18)	ADDRESS	4	LDAP_SESSION_TOKEN	Sess-id from LDAP server
(1C)	FULLWORD	4	*	Reserved
(20)	ADDRESS	4	LDAP_SEARCH_FIRST	Pointer to first search
(24)	ADDRESS	4	LDAP_SEARCH_LAST	Pointer to last search
(28)	CHARACTER	7	*	Reserved
(2F)	UNSIGNED	1	LDAP_SERVER_URL_LEN	
				Length of LDAP server URL
(30)	CHARACTER	96	LDAP_SERVER_URL	URL of LDAP server

Table 67.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	LDAP_SEARCH_RESULT	LDAP serach result
(0)	CHARACTER	16	LDAP_SEARCH_PREFIX	Domain standard prefix
(0)	HALFWORD	2	LDAP_SEARCH_LEN	Length of block
(2)	CHARACTER	14	LDAP_SEARCH_EYECATCHER	
				>DFHDDLDAPSRCH
(10)	ADDRESS	4	LDAP_SEARCH_NEXT	Pointer to next search
(14)	ADDRESS	4	LDAP_SEARCH_PREV	Pointer to prev search
(18)	ADDRESS	4	LDAP_SEARCH_TOKEN	Search result token
(1C)	ADDRESS	4	LDAP_SEARCH_ENTRY	Current entry in search
(20)	ADDRESS	4	LDAP_SEARCH_DN_P	Address of DN for entry
(24)	ADDRESS	4	LDAP_SEARCH_DN_N	Length of DN for entry
(28)	ADDRESS	4	LDAP_SEARCH_SESSION_TOKEN	
				LDAP session token
(2C)	ADDRESS	4	LDAP_SEARCH_SESSION_PTR	
				Pointer to session block
(30)	CHARACTER	4	LDAP_SEARCH_TASK_ID	
				Task id owning the search
(34)	ADDRESS	4	LDAP_BROWSE_TOKEN	BER locator in search
(38)	ADDRESS	4	LDAP_ATTRIBUTES	Current attribute list
(3C)	BIT(8)	1	LDAP_ATTRIBUTE_FLAGS	
				Attribute flags
	1...		LDAP_ATTR_PRIVATE	Private (do not trace)
(3D)	BIT(8)	1	*	Reserved
(3E)	HALFWORD	2	LDAP_ATTRIBUTE_TYPE	
				Current attribute type

Table 67. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	ADDRESS	4	LDAP_ATTRIBUTE_PTR	Current attribute name
(44)	FULLWORD	4	LDAP_ATTRIBUTE_LEN	Current attribute length
(48)	ADDRESS	4	LDAP_VALUE_ARRAY	Array value for attribute
(4C)	FULLWORD	4	LDAP_VALUE_NUMBER	Current array element
(50)	ADDRESS	4	LDAP_VALUE_PTR	Value of current element
(54)	FULLWORD	4	LDAP_VALUE_LEN	Length of current element
(58)	CHARACTER	8	LDAP_OLD_TCB_TOKEN	Original TCB token
(60)	CHARACTER	0	*	

Constants

Table 68.

Len	Type	value	Name	Description
Directory Domain may be in one of the following states:				
1	DECIMAL	1	PREINITIALISING	
1	DECIMAL	2	PREINITIALISED	
1	DECIMAL	3	INITIALISED	
1	DECIMAL	4	QUIESCED	
1	DECIMAL	5	TERMINATED	
The valid range of values for the key length.				
4	DECIMAL	4	MINKEYLEN	Minimum key length
4	DECIMAL	252	MAXKEYLEN	Maximum key length
General constants used by Directory Manager.				
8	CHARACTER	DDGENRAL	DD_GENERAL_SP	
8	CHARACTER	DDBROWSE	DD_BROWSEVAL_SP	
8	CHARACTER	DDAPSESS	DD_LDAPSESS_SP	
8	CHARACTER	DDAPSRCH	DD_LDAPSRCH_SP	
8	CHARACTER	DDGLOCK	DD_GLOBAL_LOCK	
8	CHARACTER	DDAPLOCK	DD_LDAPSESS_LOCK	
4	CHARACTER	DDL_	DD_LOCK_PREFIX	
4	CHARACTER	DDS_	DD_SUBPOOL_PREFIX	
1	CHARACTER	>	ARROW	
3	CHARACTER	DFH	DFH	

Table 68. (continued)

Len	Type	value	Name	Description
8	CHARACTER	ANCHOR	BLOCKNAME_DDA	
8	CHARACTER	HASH_TBL	BLOCKNAME_HS	
8	CHARACTER	HASHELEM	BLOCKNAME_HE	
8	CHARACTER	DIR_HEAD	BLOCKNAME_DH	
8	CHARACTER	BRWS_VAL	BLOCKNAME_BV	
8	CHARACTER	AVL_NODE	BLOCKNAME_AN	
8	CHARACTER	AVL_HEDR	BLOCKNAME_AH	
2	CHARACTER	DD	COMPID	
8	CHARACTER	DD HSIZE	DD_CATALOG_TYPE	
0	BIT	1	TRUE	
0	BIT	0	FALSE	

DHANC Document Handler Anchor Block *NDA

```
!:refstep.dh_anchor_block_and_constants ---------------- DFHDHAN 201 -
!
!
! This anchor block contains the global storage for the DH domain.
!
! It defines the domain state information, variables and constants
! required by the DH gates and other external programs such as
! DFHDHTRI, the domain trace interpretation routine.
!
!--------------------------------------------------------------------
```

Table 69.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	168	DHA	
!:refstep.dha_prefix ---------- DFHDHAN 227 - ! ! Block header ! !----------				
(0)	CHARACTER	16	DHA_PREFIX	===> eyecatcher <===
(0)	HALFWORD	2	DHA_LENGTH	length of dha
(2)	CHARACTER	14	DHA_PREFIX_TEXT	DFHDHAnchor
!:erefstep.dha_prefix ---------- !:refstep.dha_domain_state ---------- DFHDHAN 235 - ! ! Domain state information ! !----------				
(10)	UNSIGNED	1	DHA_DH_STATE	DH domain state initialised, quiesced or terminated
(11)	UNSIGNED	1	DHA_FLAGS	

Table 69. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		DHA_COLD_START	CICS cold started
	.1..		DHA_RECOVERY_COMPLETE	Recovery complete
	..1.		DHA_GRPLIST_INSTALL_COMPLETE	Install complete
	...1 111.		*	Reserved
	1		DHA_XRSINDI_ACTIVE	XRSINDI exit active
(12)	CHARACTER	1	*	Reserved
(13)	UNSIGNED	1	DHA_DEFAULT_CODEPAGE_LEN	Length of codepage
(14)	FULLWORD	4	DHA_NUM_DOCUMENTS	Number of documents
(18)	CHARACTER	8	DHA_DEFAULT_CODEPAGE	Default codepage
(20)	UNSIGNED	4	DHA_TEMPLATE_CACHE_SIZE	Size of cache
(24)	ADDRESS	4	DHA_STATS_BUFFER_PTR	Statistics buffer
(28)	CHARACTER	8	DHA_STATS_LAST_RESET_TIME	Stats last reset time@L7A
(30)	ADDRESS	4	DHA_LOCK_TOKEN	EXI domain lock token
(34)	ADDRESS	4	DHA_TLD_LOCK_TOKEN	Template lock token
(38)	STRUCTURE IsA(ETOKEN)	8	DHA_GENERAL_SPTOKEN	General subpool token
(38)	ADDRESS	4	P	
(3C)	FULLWORD	4	N	

Table 69. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	STRUCTURE IsA(ETOKEN)	8	DHA_DBB_SPTOKEN	DBB subpool token
(40)	ADDRESS	4	P	
(44)	FULLWORD	4	N	
(48)	STRUCTURE IsA(ETOKEN)	8	DHA_DCB_SPTOKEN	DCB subpool token
(48)	ADDRESS	4	P	
(4C)	FULLWORD	4	N	
(50)	STRUCTURE IsA(ETOKEN)	8	DHA_DCR_SPTOKEN	DCR subpool token
(50)	ADDRESS	4	P	
(54)	FULLWORD	4	N	
(58)	STRUCTURE IsA(ETOKEN)	8	DHA_DDB_SPTOKEN	DDB subpool token
(58)	ADDRESS	4	P	
(5C)	FULLWORD	4	N	
(60)	STRUCTURE IsA(ETOKEN)	8	DHA_DOA_SPTOKEN	DOA subpool token
(60)	ADDRESS	4	P	
(64)	FULLWORD	4	N	
(68)	STRUCTURE IsA(ETOKEN)	8	DHA_STB_SPTOKEN	STB subpool token
(68)	ADDRESS	4	P	
(6C)	FULLWORD	4	N	
(70)	STRUCTURE IsA(ETOKEN)	8	DHA_TLD_SPTOKEN	TLD subpool token
(70)	ADDRESS	4	P	
(74)	FULLWORD	4	N	
(78)	STRUCTURE IsA(ETOKEN)	8	DHA_HFS_SPTOKEN	HFS subpool token
(78)	ADDRESS	4	P	
(7C)	FULLWORD	4	N	
(80)	STRUCTURE IsA(ETOKEN)	8	DHA_CACHE_ SPTOKEN	Cache subpool token
(80)	ADDRESS	4	P	
(84)	FULLWORD	4	N	
(88)	ADDRESS	4	DHA_TLD_ DHT1_DIRTOKEN	
				DHT1 directory token
(8C)	ADDRESS	4	DHA_TLD_ DHT2_DIRTOKEN	

Table 69. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				DHT2 directory token
(90)	CHARACTER	8	DHA_TEMPLATE_ DCB_CHAIN	
				DCB descriptor chain
(90)	ADDRESS	4	DHA_PDS_ DCB_FIRST	First DCB descriptor
(94)	ADDRESS	4	DHA_PDS_ DCB_LAST	Last DCB descriptor
(98)	CHARACTER	8	DHA_TEMPLATE_ DESCRIPTOR_CHAIN	
				TLD chain
(98)	ADDRESS	4	DHA_TLD_FIRST	First TLD in chain
(9C)	ADDRESS	4	DHA_TLD_LAST	Last TLD in chain
!:erefstep.dha_domain_state ----------				
(A0)	ADDRESS	4	DHA_FIRST_DOA	
(A4)	ADDRESS	4	DHA_LAST_DOA	
(A8)	CHARACTER	0	DHA_END	

```
!:refstep.dh_ anchor_ block ---------------------------- DFHDHAN 280 -
!
  ! DH Domain Document Anchor Block
!
  !-------------------------------------------------------------------
   ---------------------------------------------!
    Document anchor block - one per transaction !
   ---------------------------------------------!
```

Table 70.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	DOA	
(0)	CHARACTER	16	DOA_PREFIX	
(0)	HALFWORD	2	DOA_LENGTH	
(2)	CHARACTER	1	DOA_ARROW	>
(3)	CHARACTER	3	DOA_DFH	DFH
(6)	CHARACTER	2	DOA_DOMID	DH
(8)	CHARACTER	8	DOA_BLOCK_NAME	DOA
(10)	ADDRESS	4	DOA_NEXT	-> next document anchor
(14)	ADDRESS	4	DOA_PREV	-> previous document anchor

Table 70. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	ADDRESS	4	DOA_FIRST_DCR	-> first document ctl rec
(1C)	ADDRESS	4	DOA_LAST_DCR	-> last document ctl rec
(20)	CHARACTER	4	DOA_TRANNUM	Transaction number
(24)	CHARACTER	4	DOA_TRANSID	Transaction id
(28)	CHARACTER	0	*	

```
!:erefstep.dh_ anchor_ block ------------------------------------------
!:refstep.dh_ control_ record -------------------------- DFHDHAN 303 -
!
  ! DH Domain Document Control Record
!
  !-------------------------------------------------------------------
   ------------------------------------------!
    Document control record - one per document !
   ------------------------------------------!
```

Table 71.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	DCR	
(0)	CHARACTER	16	DCR_PREFIX	
(0)	HALFWORD	2	DCR_LENGTH	
(2)	CHARACTER	1	DCR_ARROW	>
(3)	CHARACTER	3	DCR_DFH	DFH
(6)	CHARACTER	2	DCR_DOMID	DH
(8)	CHARACTER	8	DCR_BLOCK_NAME	DCR
(10)	ADDRESS	4	DCR_NEXT	-> next document ctl rec
(14)	ADDRESS	4	DCR_PREV	-> previous document ctl rec
(18)	ADDRESS	4	DCR_FIRST_CELEM	-> first doc content element
(1C)	ADDRESS	4	DCR_LAST_CELEM	-> last doc content element
(20)	ADDRESS	4	DCR_FIRST_DBP	-> first document bookmark
(24)	ADDRESS	4	DCR_LAST_DBP	-> last document bookmark
(28)	FULLWORD	4	DCR_DOCUMENT_COUNT	counter used in document token
(2C)	FULLWORD	4	DCR_DOCUMENT_SIZE	total size of export document
(30)	FULLWORD	4	DCR_NUM_BKMARKS	number of document bookmarks

Table 71. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	FULLWORD	4	DCR_NUM_DATABLKS	Number of document data blocks
(38)	FULLWORD	4	DCR_NUM_SYMBOLS	Number of symbols
(3C)	FULLWORD	4	DCR_DATA_SIZE	size of document data
(40)	FULLWORD	4	DCR_SYMBOL_SIZE	Size of symbol data
(44)	BIT(8)	1	DCR_SYMBOL_FLAG1	Symbol table flags
	1...		DCR_PRIVATE_DATA	Private symbols exist
(45)	BIT(24)	3	*	Reserved
(48)	CHARACTER	12	DCR_SYMBOL_MANAGER	Building block access vars
(48)	ADDRESS	4	DCR_SYMBOL_TABLE	Hash table locator
(4C)	ADDRESS	4	DCR_SYMBOL_STORAGE_MGR	
				Symbol storage locator
(50)	ADDRESS	4	DCR_SYMBOL_BLOCK_MGR	
				Symbol block manager
(54)	FULLWORD	4	DCR_EMBED_DEPTH	Template embed depth
(58)	ADDRESS	4	DCR_FIRST_TEMPLATE	-> first template on chain
(5C)	ADDRESS	4	DCR_LAST_TEMPLATE	-> last template on chain
(60)	CHARACTER	0	*	

```
!:erefstep.dh_ control_ record ----------------------------------------
!:refstep.dh_  data_block ------------------------------ DFHDHAN 343 -
!
  ! DH Domain Document Data Block
!
  !-------------------------------------------------------------------
   ----------------------------------------!
    Document data block !
   ----------------------------------------!
```

Table 72.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DDB	
(0)	CHARACTER	16	DDB_PREFIX	
(0)	HALFWORD	2	DDB_LENGTH	

Table 72. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER	1	DDB_ARROW	>
(3)	CHARACTER	3	DDB_DFH	DFH
(6)	CHARACTER	2	DDB_DOMID	DH
(8)	CHARACTER	8	DDB_BLOCK_NAME	DDB
(10)	ADDRESS	4	DDB_NEXT_CELEM	-> next doc content element
(14)	ADDRESS	4	DDB_PREV_CELEM	-> prev doc content element
(18)	BIT(8)	1	*	
	1...		DDB_NONBIN_BLOCK	Content is non-binary data
	.1..		DDB_BIN_BLOCK	Content is binary data
	..11 1111		*	
(19)	CHARACTER	3	*	For alignment
(1C)	CHARACTER	8	DDB_CODEPAGE	Data host codepage
(24)	FULLWORD	4	DDB_DATA_LENGTH	Length of data portion
(28)	CHARACTER	4	DDB_DATA_PREFIX	SBCS/DBCS continued char !
(2C)	CHARACTER	*	DDB_DATA	Data block value

```
!:erefstep.dh_data_block -------------------------------------------
!:refstep.dh_bookmark_block ------------------------- DFHDHAN 370 -
!
! DH Domain Document Bookmark Block
!
!-------------------------------------------------------------------
 ----------------------------------------!
  Document bookmark block !
 ----------------------------------------!
```

Table 73.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	DBB	
(0)	CHARACTER	16	DBB_PREFIX	
(0)	HALFWORD	2	DBB_LENGTH	
(2)	CHARACTER	1	DBB_ARROW	>
(3)	CHARACTER	3	DBB_DFH	DFH
(6)	CHARACTER	2	DBB_DOMID	DH
(8)	CHARACTER	8	DBB_BLOCK_NAME	DBB
(10)	ADDRESS	4	DBB_NEXT_CELEM	-> next doc content element
(14)	ADDRESS	4	DBB_PREV_CELEM	-> prev doc content element

Table 73. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	BIT(8)	1	*	
	11..		*	
	..1.		DBB_BOOKMARK	Content is bookmark
	...1 1111		*	
(19)	CHARACTER	3	*	For alignment
(1C)	ADDRESS	4	DBB_NEXT_BKMARK	-> next document bookmark
(20)	ADDRESS	4	DBB_PREV_BKMARK	-> previous document bookmark
(24)	CHARACTER	16	DBB_BKMARK_NAME	Bookmark name

```
!:erefstep.dh_bookmark_block ----------------------------------------
!:refstep.dh_template_block --------------------------- DFHDHAN 396 -
!
! DH Domain Document Template Block
!
!---------------------------------------------------------------------
 ----------------------------------------!
  Document template block !
 ----------------------------------------!
```

Table 74.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	DTB	
(0)	ADDRESS	4	DTB_NEXT_ TEMPLATE	-> next doc template block
(4)	ADDRESS	4	DTB_PREV_ TEMPLATE	-> prev doc template block
(8)	FULLWORD	4	DTB_BUFFER_LEN	Length for freemain
(C)	CHARACTER	0	DTB_TEMPLATE_ DATA	Template data

Constants

Table 75.

Len	Type	value	Name	Description
!:erefstep.dh_template_block ---------- !:refstep.dh_domain_states ---------- DFHDHAN 410 - ! ! DH Domain States (printed in formatted dump) ! !----------				
1	DECIMAL	1	DH_STATE_ INITIALISING	
1	DECIMAL	2	DH_STATE_INITIALISED	

Table 75. (continued)

Len	Type	value	Name	Description
1	DECIMAL	3	DH_STATE_QUIESCING	
1	DECIMAL	4	DH_STATE_QUIESCED	
1	DECIMAL	5	DH_STATE_TERMINATED	
!:erefstep.dh_domain_states ---------- !:refstep.dh_literals ---------- DFHDHAN 420 - ! ! Literals ! !----------				
8	CHARACTER	DHGENRAL	SPNAME_GENERAL	General
purpose subpool for DH domain				
8	CHARACTER	DHCACHE	SPNAME_CACHE	
subpool for doctemplate cache				
8	CHARACTER	DHDOA	DH_DOA_SP	Document
anchor block subpool				
8	CHARACTER	DHDCR	DH_DCR_SP	Document
control record subpool				
8	CHARACTER	DHDBB	DH_DBB_SP	Document
bookmark block subpool				
8	CHARACTER	DHSTB	DH_STB_SP	Symbol
table block subpool				
8	CHARACTER	DHDDB	DH_DDB_SP	Document
data subpool				
14	CHARACTER	>DFHDHANCHOR	DHA_EYE_CATCHER	
8	CHARACTER	DHLOCK	DH_LOCK_NAME	Domain lock
!:erefstep.dh_literals ---------- !:refstep.dh_error_codes ---------- DFHDHAN 445 - ! ! Error codes (for DFHKERN RECOVERY_REQUEST) ! !----------				
4	CHARACTER	ADHA	LOCK_ERROR_CODE	
4	CHARACTER	ADHB	UNLOCK_ERROR_CODE	

DHTL Document Handler Template Descriptor

```
!:refstep.dfhdhtlc_defn ---------- DFHDHTM 444 -
!
!
! Document Domain Template Descriptor.
!
! This control block is the internal representation of one instance
! of a Document Handler domain template definition, or DOCTEMPLATE.
!
!----------
```

Table 76.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	168	DFHDHTLC	
(0)	CHARACTER	16	DHTL_PREFIX	Standard eyecatcher
(0)	HALFWORD	2	DHTL_LENGTH	
(2)	CHARACTER	1	DHTL_ARROW	
(3)	CHARACTER	3	DHTL_DFH	
(6)	CHARACTER	2	DHTL_DOMID	
(8)	CHARACTER	8	DHTL_BLOCK_NAME	
(10)	ADDRESS	4	DHTL_NEXT	Next TLD in chain
(14)	ADDRESS	4	DHTL_PREV	Previous TLD
(18)	CHARACTER	8	DHTL_DOCTEMPLATE	Name of RDO DOCTEMPLATE
(20)	CHARACTER	48	DHTL_TEMPLATE_NAME	Full name of template
(50)	CHARACTER	2	DHTL_TEMPLATE_TYPE	Type of template
(52)	BIT(8)	1	DHTL_TEMPLATE_FLAGS	
				Properties flags
	1...		DHTL_APPEND_CRLF	Append crlf to recs
	.1..		DHTL_NO_CACHE	Don't cache template
	..1.		DHTL_REFRESH_CACHE	
				Refresh cache needed
	...1		DHTL_BEING_REFRESHED	
				Refresh in progress
	.... 1...		DHTL_ZERO_SIZE	Zero size cache body
	.... .1..		DHTL_NOT_USABLE	Resource not usable
	.... ..1.		DHTL_TYPE_BINARY	Template is binary
	1		DHTL_TYPE_EBCDIC	Template is ebcdic
(53)	UNSIGNED	1	*	Reserved
(54)	UNSIGNED	4	DHTL_INSTALL_TIME	TOD clock at install
(58)	STRUCTURE IsA(BLOCK)	8	DHTL_TEMPLATE_BODY	Body of template

Table 76. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	ADDRESS	4	P	
(5C)	FULLWORD	4	N	
(60)	CHARACTER	48	DHTL_TEMPLATE_OVLY	Type-specific overlay
(60)	CHARACTER	8	DHTL_RESOURCE_NAME	
				Generic resource name
(60)	CHARACTER	48	DHTL_PDS_DESCRIPTOR	
				PDS-member type template
(60)	CHARACTER	44	DHTL_BLDL_DATA	Data returned by BLDL
(60)	CHARACTER	8	DHTL_MEMBER_NAME	
				Member name
(68)	UNSIGNED	3	DHTL_MEMBER_TTR	TTR of member
(6B)	UNSIGNED	1	DHTL_CONCATENATION_NO	
				Concatenation set by BLDL
(6C)	UNSIGNED	1	DHTL_LIBRARY_TYPE	
				Library type set by BLDL
(6D)	UNSIGNED	1	DHTL_MEMBER_LEN	Length of directory data
(6E)	CHARACTER	30	DHTL_MEMBER_DATA	
				ISPF-editor-specific data
(6E)	UNSIGNED	1	DHTL_MEMBER_VERSION	
				Version number of member
(6F)	UNSIGNED	1	DHTL_MEMBER_MODLEVEL	
				Modification level
(70)	UNSIGNED	2	*	Reserved
(72)	BIT(32)	4	DHTL_MEMBER_DATE1	
				Creation date of member

Table 76. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(76)	BIT(32)	4	DHTL_MEMBER_ DATE2	
				Last update date
(7A)	BIT(16)	2	DHTL_MEMBER_ HHMM	
				Last update time
(7C)	HALFWORD	2	DHTL_MEMBER_ CURRENT_SIZE	
				Curr lines in member
(7E)	HALFWORD	2	DHTL_MEMBER_ INITIAL_SIZE	
				Init lines in member
(80)	HALFWORD	2	DHTL_MEMBER_ MODLN	
				Number of modified lines
(82)	CHARACTER	8	DHTL_MEMBER_ USERID	
				Last update userid
(82)	CHARACTER	8	DHTL_DDNAME	Overlaid with ddname
(8A)	CHARACTER	2	*	Reserved
(8C)	ADDRESS	4	DHTL_PDS_ DCB_DESCRIPTOR	
				Pointer to DCB descriptor
(60)	CHARACTER	8	DHTL_FILE_ DESCRIPTOR	
				FILE type template
(60)	CHARACTER	8	DHTL_TEMPLATE_ FILENAME	
				CICS filename
(60)	CHARACTER	8	DHTL_PROGRAM_ DESCRIPTOR	
				PROGRAM type template
(60)	CHARACTER	8	DHTL_TEMPLATE_ PGMNAME	
				CICS program name
(60)	CHARACTER	16	DHTL_TSQUEUE_ DESCRIPTOR	

Table 76. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				TSQUEUE type template
(60)	CHARACTER	16	DHTL_TEMPLATE_ TSQNAME	
				CICS TSQueue name
(60)	CHARACTER	4	DHTL_TDQUEUE_ DESCRIPTOR	
				TDQUEUE type template
(60)	CHARACTER	4	DHTL_TEMPLATE_ TDQNAME	
				CICS TDQueue name
(60)	CHARACTER	8	DHTL_EXITPGM_ DESCRIPTOR	
				EXITPGM type template
(60)	CHARACTER	8	DHTL_TEMPLATE_ EXITPGM	
				CICS EXITPGM name
(60)	CHARACTER	8	DHTL_HFSFILE_ DESCRIPTOR	
				HFSFILE type templat
(60)	STRUCTURE IsA(BLOCK)	8	DHTL_TEMPLATE_ HFSPATH	
				HFSFILE pathname
(60)	ADDRESS	4	P	
(64)	FULLWORD	4	N	
(90)	CHARACTER	24	DHTL_STATISTICS	
(90)	FULLWORD	4	DHTL_TEMPLATE_ USE_COUNT	
				Template use count
(94)	FULLWORD	4	DHTL_TEMPLATE_ READ_COUNT	
				Template read count
(98)	FULLWORD	4	DHTL_CACHE_ USE_COUNT	
				Cache use count
(9C)	FULLWORD	4	DHTL_CACHE_ REFRESH_COUNT	

Table 76. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Cache refresh count
(A0)	FULLWORD	4	DHTL_CACHE_ DELETE_COUNT	
				Cache delete count
(A4)	FULLWORD	4	*	Reserved
(A8)	CHARACTER	0	DHTL_TEMPLATE_ END	Alignment

```
!:refstep.dfhdhpdc_defn ------------------------------ DFHDHTM 526 -
!
! This data area described the DCB structure that is used for
! reading partitioned datasets containing templates. Because it is
! the interface to the BPAM access method, it must reside below 16M.
!
!--------------------------------------------------------------------
```

Table 77.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	336	DFHDHPDC	
(0)	CHARACTER	16	DHPD_PREFIX	Standard eyecatcher
(0)	HALFWORD	2	DHPD_LENGTH	
(2)	CHARACTER	1	DHPD_ARROW	
(3)	CHARACTER	3	DHPD_DFH	
(6)	CHARACTER	2	DHPD_DOMID	
(8)	CHARACTER	8	DHPD_BLOCK_NAME	
(10)	ADDRESS	4	DHPD_DCB_NEXT	Pointer to next DCB entry
(14)	ADDRESS	4	DHPD_DCB_PREV	Pointer to prev DCB entry
(18)	CHARACTER	8	DHPD_DDNAME	DDNAME for template PDS
(20)	CHARACTER	8	DHPD_STATUS	
(20)	FULLWORD	4	*	Reserved
(24)	UNSIGNED	1	*	Reserved
(25)	BIT(8)	1	DHPD_FLAG1	Reserved for flags
(26)	HALFWORD	2	*	Reserved
(28)	CHARACTER	8	DHPD_DCB_ OPENLIST	Openlist
(28)	BIT(8)	1	*	Directory DCB OPEN option
(29)	ADDRESS	3	DHPD_DIRECTORY_ DCB_PTR	

Table 77. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Directory DCB address
(2C)	BIT(8)	1	*	Member DCB OPEN option
(2D)	ADDRESS	3	DHPD_MEMBER_ DCB_PTR	
				Member DCB address
(30)	ADDRESS	4	DHPD_SYNAD_PTR	Ptr to 31-bit SYNAD
(34)	ADDRESS	4	DHPD_MEMBER_ EODAD_PTR	
				Ptr to 31-bit EODAD
(38)	ADDRESS	4	DHPD_DIRECTORY_ EODAD_PTR	
				Ptr to 31-bit EODAD
(3C)	ADDRESS	4	DHPD_ABEND_ EXIT_PTR	
				Ptr to 31-bit ABEXIT
(40)	CHARACTER	8	DHPD_EXIT_LIST	
(40)	UNSIGNED	1	DHPD_EXLST_ JFCBEXIT_CODE	
				Code for JFCB exit
(41)	ADDRESS	3	DHPD_EXLST_ ARL_PTR	
				ARL pointer
(44)	UNSIGNED	1	DHPD_EXLST_ ABEND_EXIT_CODE	
				Code for abend exit
(45)	ADDRESS	3	DHPD_EXLST_ ABEND_EXIT_PTR	
				Ptr to abend exit
(48)	CHARACTER	24	DHPD_AMODE24_ EXIT_ROUTINES	
(48)	BIT(48)	6	DHPD_IO_ ERROR_RTN	24-bit SYNAD stub routine
(4E)	BIT(48)	6	DHPD_MEMBER_ EOD_RTN	
				24-bit EODAD stub routine
(54)	BIT(48)	6	DHPD_DIRECTORY_ EOD_RTN	

Table 77. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				24-bit EODAD stub routine
(5A)	BIT(48)	6	DHPD_ABEND_ EXIT_RTN	
				24-bit ABEXIT stub
(60)	CHARACTER	24	DHPD_DECB	BPAM DECB
(78)	CHARACTER	88	DHPD_MEMBER_DCB	Member DCB
(D0)	CHARACTER	88	DHPD_DIRECTORY_ DCB	Directory DCB
(128)	CHARACTER	36	DHPD_ARL	ARL
(14C)	FULLWORD	4	*	alignment
(150)	CHARACTER	0	DHPD_DCB_ DESCRIPTOR_END	

DMAFC DM Authorised Facility State

```
!:refstep.dfhdmafc ----------------------------------- DFHDMEN 376 -
!
!
! DFHDMAFC
!
! DFHDMAFC is the copy book that defines the domain manager
! authorized facility state and interface.
!
! The domain manager authorized facilities are provided to the CICS
! address space. This state is anchored in the AFCB.
!
! When an ENFREQ ACTION=LISTEN request is issued MVS returns a token
! that uniquely identifies the listen request. This token must be
! specified on the ACTION=DELETE request. These tokens will be
! stored in key 0 storage to ensure that CICS will not delete some
! other subsystems listen requests. A slot in the AFCB will be
! required to anchor the domain manager key 0 state. The address of
! the AFCB will be passed as the PARM on the ENFREQ ACTION=LISTEN.
!
!--------------------------------------------------------------------
!:refstep.dmaf_state --------------------------------- DFHDMEN 399 -
!
! DMAF_STATE
!
!--------------------------------------------------------------------
```

Table 78.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	DMAF_STATE	
(0)	UNSIGNED	2	DMAFS_LEN	
(2)	CHARACTER	14	DMAFS_EYE	
(10)	ADDRESS	4	DMAFS_ENF_ANCHOR	
(14)	ADDRESS	4	DMAFS_TCB	
(18)	ADDRESS	4	DMAFS_ASCB	

Table 78. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	BIT(32)	4	DMAFS_ENF_DTOKEN (1)	

```
!:erefstep.dmaf_  state ------------------------------------------------
!:refstep.dmaf_  plist ---------------------------------- DFHDMEN 433 -
!
! DMAF_PLIST
!
  !-----------------------------------------------------------------
```

Table 79.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	DMAF_PLIST	
(0)	HALFWORD	2	DMAF_PLISTLEN	
(2)	BIT(16)	2	*	
(4)	UNSIGNED	1	DMAF_FUNCTION	
(5)	BIT(8)	1	*	
(6)	UNSIGNED	1	DMAF_RESPONSE	
(7)	UNSIGNED	1	DMAF_REASON	
(8)	BIT(32)	4	DMAF_ENF_REASON	
(C)	ADDRESS	4	DMAF_ENF_ANCHOR	
(10)	BIT(32)	4	DMAF_SVC_ RESPONSE	

Constants

Table 80.

Len	Type	value	Name	Description
1	DECIMAL	1	DMAF_LISTEN	
1	DECIMAL	2	DMAF_DELETE	
1	DECIMAL	1	DMAF_OK	
1	DECIMAL	2	DMAF_EXCEPTION	
1	DECIMAL	3	DMAF_INVALID	
1	DECIMAL	4	DMAF_DISASTER	
1	DECIMAL	1	DMAF_GETMAIN_D_FAIL	
1	DECIMAL	2	DMAF_GETMAIN_S_FAIL	
1	DECIMAL	3	DMAF_FESTAE_FAIL	
1	DECIMAL	4	DMAF_NOT_AUTHED	
1	DECIMAL	5	DMAF_INVALID_ FUNCTION	
1	DECIMAL	6	DMAF_DUPLICATE_ REQUEST	
1	DECIMAL	7	DMAF_LISTEN_INACTIVE	

Table 80. (continued)

Len	Type	value	Name	Description
1	DECIMAL	8	DMAF_LISTEN_ ENF_ERROR	
1	DECIMAL	9	DMAF_DELETE_ ENF_ERROR	
1	DECIMAL	10	DMAF_SVC_CALL_A_FAIL	
1	DECIMAL	11	DMAF_SVC_CALL_D_FAIL	

DMCB1 Domain Manager Anchor Block

```
Segment Name = DFHDMCB1
DESCRIPTIVE NAME  = CICS/MVS Domain Manager (DM)
                    Control Blocks 1.

Restricted Materials of IBM

Function =
     This file contains the data structure
     declarations used by the Domains Manager.
     The data structure is :
         ANCHOR - DM Anchor block
     Also declared are the macro replacement
     variables used by DM.
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = domain standard (no special usage)
 Patch Label = N/A
 Module Type = N/A
 Attributes = N/A
--------------------------------------------------------------------
 DM anchor block
```

Table 81.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2624	ANCHOR	Anchor Block
(0)	CHARACTER	16	ANC_PREFIX	Anchor prefix area
(0)	HALFWORD	2	ANC_LENGTH	Anchor length
(2)	CHARACTER	1	ANC_ARROW	Arrow eyecatcher
(3)	CHARACTER	3	ANC_DFH	DFH
(6)	CHARACTER	2	ANC_DOMID	Domain id
(8)	CHARACTER	8	ANC_BLOCK_NAME	Control block name
(10)	CHARACTER	4	SYSTEM_ STATUS_COMMAND	
				System Status Command
(10)	BIT(8)	1	*	
	1...		SSC_INIT	'1' initialised/ing
	.1..		SSC_QUIESCE	'1' quiesced/ing

Table 81. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		SSC_TERM	'1' terminated/ing
	...1 1111		*	Reserved
(11)	BIT(24)	3	*	Filler
(14)	ADDRESS	4	ENF_ANCHOR_ ADDRESS	A(ENF_ANCHOR)
(18)	CHARACTER	24	WQ_HEAD	Dummy wait queue element
(30)	CHARACTER	8	SUBPTOK	Subpool token
(30)	ADDRESS	4	SUBPTOK_P	-> to subpool token
(34)	FULLWORD	4	SUBPTOK_N	Length of token
(38)	CHARACTER	8	ANC_SUBPOOL	Anchor subpool
(40)	ADDRESS	4	LOCKTOK	Lock token
(44)	CHARACTER	3	INIT_STATS_COLL	Yes/No
(47)	CHARACTER	3	QUIESCE_ STATS_COLL	Yes/No
(4A)	CHARACTER	6	*	reserved
should be at the end of the DM anchor block.				
(50)	CHARACTER	2544	PHASE_MANAGEMENT	Phase Management
(50)	CHARACTER	16	PM_PREFIX	Phase manage. prefix area
(50)	HALFWORD	2	PM_LENGTH	Phase manage. length
(52)	CHARACTER	1	PM_ARROW	Arrow eyecatcher
(53)	CHARACTER	3	PM_DFH	DFH
(56)	CHARACTER	2	PM_DOMID	Domain id
(58)	CHARACTER	8	PM_BLOCK_NAME	Control block name
(60)	CHARACTER	2	*	Filler
(62)	HALFWORD	2	PM_PHASE_STATE	Global phase state
(64)	HALFWORD	2	PM_NO_ACTIVE_ DOMAINS	
				Number of active domains
(66)	HALFWORD	2	*	Filler
(68)	CHARACTER	56	PM_DOM_TABLE (45)	Array of domain information
(68)	FULLWORD	4	PM_DOMAIN_ TOKEN	Domain index
(6C)	CHARACTER	2	PM_DOMAIN_ID	Domain identifier

Table 81. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6E)	HALFWORD	2	PM_ACT_PHASE	Actual phase of domain
(70)	BIT(8)	1	*	
	1...		PM_ACTIVE	'1' active, '0' inact
	.111 1111		*	Reserved
(71)	CHARACTER	7	*	Filler
(78)	CHARACTER	8	PM_TOTAL_ TIME_IN_QUEUE	
				Total time in q
(80)	CHARACTER	8	PM_TIME_ STARTED_TO_INIT	
				Time started init
(88)	CHARACTER	8	PM_TIME_ INITIALISED	
				Time finished init
(90)	CHARACTER	8	PM_TIME_ STARTED_ TO_QUIESCE	
				Time started quie
(98)	CHARACTER	8	PM_TIME_ QUIESCED	Time finished quie
(A40)	CHARACTER	0	*	End of anchor block

Constants

Table 82.

Len	Type	value	Name	Description
MODULE NAME = DFHDMPH DESCRIPTIVE NAME = CICS STANDARD DOMAIN PHASES DSECT DUAL LANGUAGE DSECT Restricted Materials of IBM FUNCTION = DEFINES THE DOMAIN WAIT PHASES FOR CICS I.E. BASIC CHECKPOINTS THAT THE DOMAINS MAY USE AS TRIGGERS FOR THEIR PROCESSING DURING INITIALISATION/TERMINATION OF CICS. NOTES : DEPENDENCIES = S/370 RESTRICTIONS = NONE MODULE TYPE = STRUCTURE EXTERNAL REFERENCES = NONE CONTROL BLOCKS = NOT APPLICABLE TABLES = NOT APPLICABLE MACROS = NONE Standard domain phases - PLAS Initialisation Phases Top - system/domain has initialised				
2	DECIMAL	2560	DMPH_TOP	
Language Environment is initialised				
2	DECIMAL	2484	DMPH_LANGUAGE_ ENVIRONMENT_READY	
Recovery_active - Recovery Manager can now unshunt shunted units of work				
2	DECIMAL	2480	DMPH_RECOVERY_ACTIVE	
System_log_available - The CICS system log is now available for use				
2	DECIMAL	2475	DMPH_SYSTEM_ LOG_AVAILABLE	
				*
TS_basic_recovery_complete - Interval control can now make inquiries to TS about IC queues.				
2	DECIMAL	2473	DMPH_TS_BASIC_ RECOVERY_COMPLETE	
RM_clients_registered - Client registration completed				
2	DECIMAL	2470	DMPH_RM_CLIENTS_ REGISTERED	
Basic_functions_available - Basic functions can now be used				
2	DECIMAL	2432	DMPH_BASIC_ FUNCTIONS_AVAILABLE	
Statistics_available - ap is ready for statistics to be collected during initialisation				
2	DECIMAL	2048	DMPH_STATISTICS_ AVAILABLE	
Global_catalog_available - the global catalog is ready for use				
2	DECIMAL	1536	DMPH_GLOBAL_ CATALOG_AVAILABLE	
RM_startup_type_known - RM has discovered the type of start				

Table 82. (continued)

Len	Type	value	Name	Description
2	DECIMAL	1312	DMPH_RM_STARTUP_ TYPE_KNOWN	
Global_catalog_for_RM - Catalog is available for RM only				
2	DECIMAL	1296	DMPH_GLOBAL_ CATALOG_FOR_RM	
Primary_terminated - in the case of the Alternate, this means that the decision to take over has been finalised by XRF and its I/O has been prevented. In the case of the Primary this phase is 'skipped over'.				
2	DECIMAL	1280	DMPH_PRIMARY_ TERMINATED	
Default_user_available - the default user has been added				
2	DECIMAL	1200	DMPH_DEFAULT_ USER_AVAILABLE	
ESM_available - the ESM Signon function is available				
2	DECIMAL	1184	DMPH_ESM_AVAILABLE	
CWA_available - the CWA is available				
2	DECIMAL	1168	DMPH_CWA_AVAILABLE	
XM_attach_available - Transaction Manager XMAT Attach available				
2	DECIMAL	1156	DMPH_XM_ATTACH_ AVAILABLE	
System_functions_available - all the services required by XM ATTACH are now available				
2	DECIMAL	1152	DMPH_SYSTEM_ FUNCTIONS_AVAILABLE	
CSA_available - the CSA is available				
2	DECIMAL	1024	DMPH_CSA_AVAILABLE	
Timer_available - the timer is ready for use				
2	DECIMAL	768	DMPH_TIMER_AVAILABLE	
Pre_init_complete - pre initialisation is complete, initialisation can proceed				
2	DECIMAL	512	DMPH_PRE_ INIT_COMPLETE	
Quiesce Phases Shutdown_stats_ready - the statistics domain will wait on this phase being set before taking shutdown statistics.				
2	DECIMAL	2304	DMPH_SHUTDOWN_ STATS_READY	
Statistics_unavailable - the statistics domain has completed its last statistics collection and from now on no more statistics will be taken.				
2	DECIMAL	2048	DMPH_STATISTICS_ UNAVAILABLE	
Applications_finished - all user transactions have finished				

Table 82. (continued)

Len	Type	value	Name	Description
2	DECIMAL	1792	DMPH_APPLICATIONS_FINISHED	
Bottom - the system/domain has quiesced.				
2	DECIMAL	256	DMPH_BOTTOM	

DMCB2 Domain Manager Browse Cursor

```
Segment Name = DFHDMCB2
DESCRIPTIVE NAME  = CICS/MVS Domain Manager (DM)
                    Control Blocks 2.

Restricted Materials of IBM

Function =
     This file contains data structure
     declarations used by the Lock Manager domain.
     The file is included by the inquiry module of the
     Domain Manager (DM).
     The data structure is :
         BROWSE_CURSORS - DM Browsing details.
     Also declared, are the macro replacement variables
     used by DFHDMIQ.
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = domain standard (no special usage)
 Patch Label = N/A
 Module Type = N/A
 Attributes = N/A
--------------------------------------------------------------------
 Browse Cursors
```

Table 83.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	BROWSE_CURSORS	Browse Cursors
(0)	CHARACTER	16	BC_PREFIX	BC Prefix area
(0)	HALFWORD	2	BC_LENGTH	BC length
(2)	CHARACTER	1	BC_ARROW	Arrow eyecatcher
(3)	CHARACTER	3	BC_DFH	DFH
(6)	CHARACTER	2	BC_DOMID	Domain id
(8)	CHARACTER	8	BC_BLOCK_NAME	Control block name
(10)	FULLWORD	4	BC_CURSOR	Cursor value
(14)	CHARACTER	0	*	Filler

DMCB3 Domain Manager Wait Queue Element

```
Segment Name = DFHDMCB3
DESCRIPTIVE NAME  = CICS/MVS Domain Manager (DM)
                    Control Blocks 3.

Restricted Materials of IBM
```

```
Function =
     This file contains data structure
     declarations used by the Domain Manager.
     The file is included by all Domain Manager modules.
     The data structure is :
         WAIT_QUEUE - DM Wait queue information
     Subpool and lock token information is included by
     DFHDMWQ only.
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = domain standard (no special usage)
 Patch Label = N/A
 Module Type = N/A
 Attributes = N/A
-------------------------------------------------------------------
 Wait queue
```

Table 84.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	WAIT_QUEUE	Wait Queue
(0)	CHARACTER	24	WQ_PREFIX	Wait queue prefix area
(0)	HALFWORD	2	WQ_LENGTH	Length
(2)	CHARACTER	1	WQ_ARROW	Arrow Eyecatcher
(3)	CHARACTER	3	WQ_DFH	DFH
(6)	CHARACTER	2	WQ_DOMID	Domain id
(8)	CHARACTER	8	WQ_BLOCK_NAME	Control block name
(10)	ADDRESS	4	WQ_NEXT	-> next in chain
(14)	ADDRESS	4	WQ_PREV	-> prev in chain
(18)	FULLWORD	4	WQ_CALLER_DOMAIN	Mask of waiting domain
(1C)	FULLWORD	4	WQ_DOMAIN_TOKEN	Token of dom waited for or 0
(20)	HALFWORD	2	WQ_PHASE	Phase waited for
(22)	CHARACTER	2	*	Filler
(24)	ADDRESS	4	WQ_SUSP_TOKEN	Suspend token from DS
(28)	CHARACTER	0	*	Filler

```
Subpool and Lock Token
```

Table 85.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	SUBPTOK	Subpool token
(0)	ADDRESS	4	SUBPTOK_P	-> subpool token
(4)	FULLWORD	4	SUBPTOK_N	Length subpool token

Constants

Table 86.

Len	Type	value	Name	Description
8	CHARACTER	WQHEAD	WQ_HEAD_BLOCK_NAME	Wait queue head (dummy) name

DMCB4 Domain Record

```
Segment Name = DFHDMCB4
DESCRIPTIVE NAME  = CICS/MVS Domain Manager (DM)
                    Control Blocks 4.

Restricted Materials of IBM

Function =
     This file contains data structure
     declarations used by the Domain Manager.
     The data structures is :
         DOMAIN_RECORD - DM CICS Catalog information
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = domain standard (no special usage)
 Patch Label = N/A
 Module Type = N/A
 Attributes = N/A
--------------------------------------------------------------------
 Domain record
```

Table 87.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	30	DOMAIN_RECORD	Domain record
(0)	CHARACTER	16	DR_PREFIX	Domain record prefix area
(0)	HALFWORD	2	DR_LENGTH	Length
(2)	CHARACTER	1	DR_ARROW	Arrow Eyecatcher
(3)	CHARACTER	3	DR_DFH	DFH
(6)	CHARACTER	2	DR_DOMID	Domain id
(8)	CHARACTER	8	DR_BLOCK_NAME	Control block name
(10)	FULLWORD	4	DR_DOMAIN_TOKEN	Domain index
(14)	CHARACTER	8	DR_PROG_NAME	Init program name
(1C)	CHARACTER	2	DR_DOMAIN_ID	Abbrev. domain name

DMENC Domain Manager ENF State

```
!:refstep.dfhdmenc ---------------------------------- DFHDMEN 224 -
!
!
! DFHDMENC
!
! DFHDMENC is the copy book that describes the domain manager ENF
! key 8 state.
```

```
!
!--------------------------------------------------------------------
!:refstep.enf_anchor ---------------------------------- DFHDMEN 237 -
!
! ENF_ANCHOR
!
! The ENF_ANCHOR control block acts as an anchor for the domain
! manager event notification facility. This control block is
! anchored in the domain manager anchor block.
!
!--------------------------------------------------------------------
```

Table 88.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	ENF_ANCHOR	
(0)	UNSIGNED	2	ENF_ANCHOR_ LENGTH	
(2)	CHARACTER	14	ENF_ANCHOR_EYE	
(10)	ADDRESS	4	ENF_PUBLIC_QUEUE	
(14)	ADDRESS	4	ENF_PRIVATE_ QUEUE	
(18)	BIT(32)	4	ENF_WAKEUP_ECB	
(18)	BIT(8)	1	*	needed by DSECTGEN
	1...		*	
	.1..		ENF_WAKEUP_ ECB_POSTED	
(1C)	CHARACTER	4	*	reserved
(20)	CHARACTER	16	ENF_EVENT_ARRAY (1)	
(20)	ADDRESS	4	ENF_EVENT_ ARRAY_LISTENER	
(24)	ADDRESS	4	*	
(28)	CHARACTER	8	ENF_EVENT_ ARRAY_TIME	

```
!:erefstep.enf_  anchor ------------------------------------------------
!:refstep.enf_ listen_ element ------------------------- DFHDMEN 292 -
!
! ENF_ LISTEN_ELEM
!
! An ENF_ LISTEN_ ELEM is allocated when a domain issues a LISTEN
  ! request. The domain index of the domain that is listening is
  ! recorded, and the gate index of the gate to be invoked when the
! event occurs.
!
  !--------------------------------------------------------------------
```

Table 89.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	ENF_LISTEN_ELEM	
(0)	UNSIGNED	2	ENF_LISTEN_ ELEM_LENGTH	

Table 89. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER	14	ENF_LISTEN_ ELEM_EYE	
(10)	ADDRESS	4	ENF_LISTEN_ ELEM_NEXT	
(14)	UNSIGNED	4	ENF_LISTEN_ ELEM_CODE	
(18)	UNSIGNED	4	ENF_LISTEN_ ELEM_DOMAIN	
(1C)	UNSIGNED	4	ENF_LISTEN_ ELEM_GATE	
(20)	CHARACTER	4	*	
(20)	BIT(8)	1	*	needed by DSECTGEN
	1...		ENF_LISTEN_ ELEM_DELETED	
(21)	BIT(24)	3	*	

```
!:erefstep.enf_ listen_ element ---------------------------------------
!:refstep.enf_ notify_ element ------------------------- DFHDMEN 334 -
!
! ENF_ NOTIFY_ELEM
!
  ! Notify elements are passed from the ENF SRBEXIT to the ENF
  ! listening task. ENF notify elements are allocated from CICS key
  ! subpool 250 storage by the SRB, and are freed by the listening
  ! task. These elements take the following format
!
  !-----------------------------------------------------------------
```

Table 90.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	ENF_ELEM	
(0)	UNSIGNED	2	ENF_ELEM_LENGTH	
(2)	CHARACTER	14	ENF_ELEM_EYE	
(10)	ADDRESS	4	ENF_ELEM_NEXT	
(10)	ADDRESS	4	ENF_ELEM_ LISTENER	
(14)	UNSIGNED	4	ENF_ELEM_CODE	

Constants

Table 91.

Len	Type	value	Name	Description
4	DECIMAL	1	NUMBER_OF_ENF_EVENTS	
4	DECIMAL	2147483647	UNKNOWN_EVENT	

DPDCC Debug Profile Control Blocks

Table 92.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	72	DPA	
00 Header				
(0)	CHARACTER	16	*	Header
(0)	UNSIGNED	4	DPA_LENGTH	
(4)	CHARACTER	8	DPA_EYE_CATCHER	EYECATCHDPA
(C)	CHARACTER	4	*	reserved
10 Flags				
(10)	CHARACTER	16	*	
(10)	CHARACTER	4	*	
(10)	CHARACTER	1	*	
	1...		DPA_DEBUG	DEBUG=(YES|NO)
	.1..		DPA_DT_CHECK	Debug Tool check done
	..1.		DPA_DT_OK	Debug Tool is new enough
	...1		DPA_DPXM_ FIRST_DONE	
				DPXM run at least once
	.... 1...		DPA_LE_ AVAILABLE	
				LE facilities ready
	.... .1..		DPA_ENABLED	CICS ready for debugging
	11		*	reserved
(11)	CHARACTER	3	*	reserved
(14)	FULLWORD	4	DPA_DEBUG_ PROG_ADDR	
				Address of debug tool prog
(18)	CHARACTER	8	*	reserved
20 Subpool Tokens				
(20)	CHARACTER	40	*	
(20)	CHARACTER	8	DPA_GENERAL_ SUBPOOL	
				DP_GENRL
(28)	CHARACTER	8	DPA_DPTA_ SUBPOOL	DPTA
(30)	CHARACTER	8	DPA_DPLA_ SUBPOOL	DPLA

Table 92. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	CHARACTER	8	DPA_DPLE_ SUBPOOL	DPLE
(40)	CHARACTER	8	DPA_DPLP_ SUBPOOL	DPLP
(48)	CHARACTER	0	*	

Table 93.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	DPTA	
00 Header				
(0)	CHARACTER	16	*	Header
(0)	UNSIGNED	4	DPTA_LENGTH	
(4)	CHARACTER	8	DPTA_EYE_ CATCHER	>DFHDPTA
(C)	CHARACTER	4	*	reserved
10 Flags				
(10)	CHARACTER	16	*	
(10)	CHARACTER	4	*	
(10)	CHARACTER	1	*	
	1...		DPTA_DEBUG1	Pattern match task passed
	.1..		DPTA_DEBUG2	Pattern match profile passed
	..1.		DPTA_NEED_ LIST_REFRESH	
				Profiles exist with CUs
	...1		DPTA_LIST_ INIT_COMPLETE	
				Pattern match task complete
	 1111		*	reserved
(11)	CHARACTER	3	*	reserved
(14)	ADDRESS	4	DPTA_DPA_PTR	-> DP anchor block
(18)	ADDRESS	4	DPTA_PM_ LIST_PTR	-> List for pattern match
(1C)	ADDRESS	4	DPTA_LAST_ IN_LIST_PTR	
				-> End of list
20 Task Data				
(20)	CHARACTER	16	*	
(20)	CHARACTER	8	DPTA_USERID	DP_GENRL

Table 93. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	CHARACTER	4	DPTA_TASKID	reserved
(2C)	CHARACTER	4	*	reserved
(30)	CHARACTER	0	*	

Table 94.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	316	DPWI	
00 Header				
(0)	UNSIGNED	4	DPWI_LENGTH	
(4)	CHARACTER	8	DPWI_EYE_CATCHER	HDPWHDPWS
(C)	ADDRESS	4	DPWI_NEXT_PTR	-> DPWS or 0
10 Data name=value pair				
(10)	UNSIGNED	1	DPWI_DATATYPE	Querystring or Form
(11)	CHARACTER	3	*	reserved
(14)	UNSIGNED	4	DPWI_NAME_LEN	insert string number
(18)	CHARACTER	32	DPWI_NAME	insert string number
(38)	UNSIGNED	4	DPWI_VALUE_LEN	length of html
(3C)	CHARACTER	256	DPWI_VALUE	variable length string max size is 256.
(13C)	CHARACTER	0	*	

Table 95.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	320	DPWS	
00 Header				
(0)	UNSIGNED	4	DPWS_LENGTH	
(4)	CHARACTER	8	DPWS_EYE_CATCHER	HDPWHDPWS
(C)	ADDRESS	4	DPWS_NEXT_PTR	-> DPWS or 0
10 Data				
(10)	UNSIGNED	1	DPWS_DATATYPE	String or string number
(11)	UNSIGNED	1	DPWS_NUM_INSERTS	Number of insert strings
(12)	UNSIGNED	1	DPWS_STYLE	List style (Navlink)
(13)	CHARACTER	1	*	reserved
(14)	UNSIGNED	4	DPWS_INSERT	insert string number

Table 95. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	UNSIGNED	4	DPWS_HTML_LEN	length of html
(1C)	CHARACTER	4	*	reserved
20 Insert 1				
(20)	CHARACTER	8	DPWS_INSERT1	1st null terminated string
(28)	CHARACTER	1	*	reserved as null
(29)	CHARACTER	7	*	reserved
30 Insert 2				
(30)	CHARACTER	8	DPWS_INSERT2	2nd null terminated string
(38)	CHARACTER	1	*	reserved as null
(39)	CHARACTER	7	*	reserved
40 HTML Data				
(40)	CHARACTER	256	DPWS_HTML	variable length string
(140)	CHARACTER	0	*	

```
!:erefstep.dfhdpdc_  dcl_dpws ----------------------------------------
!:refstep.dfhdpdc_ profile_ layout ---------------------- DFHDPDC 292 -
!
  ! Purpose Layout for a debugging profile record
! Key CICS
  ! Lifetime Until DPFM exit
  ! Subpool DPFM Lifo
  ! Base Addr In DPFM Lifo
  ! Created byDFHDPFM
  ! Deleted byDFHDPFM
!
  !---------------------------------------------------------------------
```

Table 96.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1835	DPP_ENTRY	
(0)	CHARACTER	16	DPP_HEADER	
(0)	FULLWORD	4	DPP_HDR_LENGTH	
(4)	CHARACTER	12	DPP_HDR_EYE_DPP	
(10)	CHARACTER	18	DPP_PROF_FIELDS1	
(10)	CHARACTER	1	DPP_FILLER	
(11)	CHARACTER	1	DPP_RECORD_TYPE	
(12)	CHARACTER	8	DPP_PROFILE_ OWNER	
(1A)	CHARACTER	8	DPP_PROFILE_ NAME	
(22)	CHARACTER	1	DPP_FLAGS	
(22)	BIT(8)	1	*	

Table 96. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(23)	CHARACTER	1	*	
(24)	FULLWORD	4	DPP_PATTERN_ MATCH_NUMBER	
(28)	CHARACTER	8	DPP_CREATED_ TIMESTAMP	
(30)	CHARACTER	8	DPP_UPDATED_ TIMESTAMP	
(38)	CHARACTER	46	DPP_PROF_FIELDS2	
(38)	CHARACTER	4	DPP_TRANID	
(3C)	CHARACTER	4	DPP_TERMID	
(40)	CHARACTER	8	DPP_PROGID	
(48)	CHARACTER	30	DPP_COMP_UNIT	
(66)	UNSIGNED	1	DPP_STATUS	
(67)	UNSIGNED	1	DPP_PROFILE_TYPE	
(68)	CHARACTER	255	DPP_BEAN	
(167)	CHARACTER	255	DPP_CLASS	
(266)	CHARACTER	255	DPP_METHOD	
(365)	CHARACTER	255	DPP_MANGLED_ METHOD	
(464)	CHARACTER	24	DPP_PROFILE_ FIELDS3	
(464)	CHARACTER	8	DPP_USERID	
(46C)	CHARACTER	8	DPP_NETNAME	
(474)	CHARACTER	8	DPP_APPLID	
(47C)	UNSIGNED	1	DPP_SESSION_TYPE	
(47D)	UNSIGNED	1	DPP_SOCKET_TYPE	
(47E)	CHARACTER	255	DPP_IP_ NAME_OR_ADDR	
(580)	UNSIGNED	4	DPP_PORT	
(584)	CHARACTER	4	DPP_LU_ 3270_DISPLAY	
(588)	CHARACTER	8	DPP_JVM_PROFILE	
(590)	CHARACTER	149	DPP_DEBUGGER_ OPTIONS	
(590)	UNSIGNED	1	DPP_TEST_LEVEL	
(591)	CHARACTER	54	DPP_COMMAND_ FILE	
(5C7)	CHARACTER	40	DPP_PROMPT	
(5EF)	CHARACTER	54	DPP_PREFERENCE_ FILE	
(625)	CHARACTER	254	DPP_LE_OPTIONS	

Table 96. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(723)	CHARACTER	8	DPP_ACTIVATE_ USERID	

```
!:erefstep.dfhdpdc_ profile_ layout ----------------------------------
!:refstep.dfhdpdc_ user_defaults_ layout ---------------- DFHDPDC 379 -
!
  ! Purpose Layout for a user defaults record
! Key CICS
  ! Lifetime Until DPUM exit
  ! Subpool DPUM Lifo
  ! Base Addr In DPUM Lifo
  ! Created byDFHDPUM
  ! Deleted byDFHDPUM
!
  !-------------------------------------------------------------------
```

Table 97.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	723	DPU_ENTRY	
(0)	CHARACTER	16	DPU_HEADER	
(0)	FULLWORD	4	DPU_HDR_LENGTH	
(4)	CHARACTER	12	DPU_HDR_EYE_DPU	
(10)	CHARACTER	1	DPU_FILLER	
(11)	CHARACTER	1	DPU_RECORD_TYPE	
(12)	CHARACTER	8	DPU_OWNER_USERID	
(1A)	CHARACTER	8	DPU_PADDING	
(22)	CHARACTER	2	DPU_RESERVED	
(24)	FULLWORD	4	DPU_PM_NUM	
(28)	UNSIGNED	1	DPU_SESSION_TYPE	
(29)	UNSIGNED	1	DPU_SOCKET_TYPE	
(2C)	UNSIGNED	4	DPU_PORT	
(30)	CHARACTER	4	DPU_LU_ 3270_DISPLAY	
(34)	CHARACTER	8	DPU_JVM_PROFILE	
(3C)	UNSIGNED	1	DPU_TEST_LEVEL	
(3D)	CHARACTER	54	DPU_COMMAND_FILE	
(73)	CHARACTER	40	DPU_PROMPT	
(9B)	CHARACTER	54	DPU_PREFERENCE_ FILE	
(D1)	CHARACTER	254	DPU_LE_OPTIONS	
(1CF)	CHARACTER	255	DPU_IP_ NAME_OR_ADDR	
(2CE)	UNSIGNED	1	DPU_FILTER_USER	
(2CF)	UNSIGNED	1	DPU_FILTER_ ACTIVE	

Table 97. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2D0)	UNSIGNED	1	DPU_SORT_TYPE	
(2D1)	UNSIGNED	1	DPU_SUPPRESS_ PANEL	
(2D2)	UNSIGNED	1	DPU_PROFILE_TYPE	

Table 98.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	50	DPLA_ENTRY	
(0)	CHARACTER	16	DPLA_HEADER	
(0)	FULLWORD	4	DPLA_HDR_LENGTH	
(4)	CHARACTER	12	DPLA_HDR_ EYE_DPLA	
(10)	CHARACTER	34	DPLA_FIELDS	
(10)	ADDRESS	4	DPLA_FIRST_ PROFILE	
(14)	ADDRESS	4	DPLA_LAST_ PROFILE	
(18)	ADDRESS	4	DPLA_CURRENT_ PROFILE	
(1C)	ADDRESS	4	DPLA_INPUTS_ CURRENT_PROFILE	
(20)	CHARACTER	8	DPLA_CURRENT_ USERID	
(28)	UNSIGNED	1	DPLA_CURRENT_ FILTER_U	
(29)	UNSIGNED	1	DPLA_CURRENT_ FILTER_A	
(2A)	UNSIGNED	1	DPLA_CURRENT_ SORT	
(2C)	HALFWORD	2	DPLA_CURRENT_ PAGE	
(2E)	HALFWORD	2	DPLA_PROFILE_ NUMBER	
(30)	HALFWORD	2	DPLA_PAGE_SIZE	

Table 99.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1864	DPLE_ENTRY	
(0)	CHARACTER	16	DPLE_HEADER	
(0)	FULLWORD	4	DPLE_HDR_LENGTH	
(4)	CHARACTER	12	DPLE_HDR_ EYE_DPLE	
(10)	CHARACTER	1848	DPLE_FIELDS	

Table 99. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	CHARACTER	1835	DPLE_PROFILE_ DATA	
(73B)	CHARACTER	1	DPLE_INPUT	
(73C)	CHARACTER	1	DPLE_INVALID_ INPUT	
(740)	ADDRESS	4	DPLE_NEXT_ PROFILE	
(744)	ADDRESS	4	DPLE_PREV_ PROFILE	

Table 100.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1856	DPLP_ENTRY	
(0)	CHARACTER	16	DPLP_HEADER	
(0)	FULLWORD	4	DPLP_HDR_LENGTH	
(4)	CHARACTER	12	DPLP_HDR_ EYE_DPLP	
(10)	CHARACTER	1840	DPLP_FIELDS	
(10)	CHARACTER	1835	DPLP_PROFILE_ DATA	
(73C)	ADDRESS	4	DPLP_NEXT_ PROFILE	

Table 101.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	933	DPCC_ENTRY	
(0)	CHARACTER	19	DPCC_HEADER	
(0)	FULLWORD	4	DPCC_HDR_LENGTH	
(4)	CHARACTER	12	DPCC_HDR_ EYE_DPCC	
(10)	UNSIGNED	1	DPCC_FUNCTION	
(11)	UNSIGNED	1	DPCC_VERSION	
(12)	UNSIGNED	1	DPCC_RESPONSE	
(13)	CHARACTER	70	DPCC_IN_PARMS	
(13)	CHARACTER	4	DPCC_TRANID	
(17)	CHARACTER	4	DPCC_TERMID	
(1B)	CHARACTER	8	DPCC_PROGID	
(23)	CHARACTER	30	DPCC_COMP_UNIT	
(41)	CHARACTER	8	DPCC_USERID	
(49)	CHARACTER	8	DPCC_NETNAME	
(51)	CHARACTER	8	DPCC_APPLID	

Table 101. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(59)	CHARACTER	391	DPCC_OUT_PARMS	
(59)	CHARACTER	4	DPCC_PROFILE_TRANID	
(5D)	CHARACTER	4	DPCC_PROFILE_TERMID	
(61)	CHARACTER	8	DPCC_PROFILE_PROGID (8)	
(A1)	CHARACTER	30	DPCC_PROFILE_COMP_UNIT	
(BF)	CHARACTER	8	DPCC_PROFILE_USERID	
(C7)	CHARACTER	8	DPCC_PROFILE_NETNAME	
(CF)	CHARACTER	8	DPCC_PROFILE_APPLID	
(D7)	CHARACTER	1	DPCC_SESSION_TYPE	
(D8)	CHARACTER	255	DPCC_IP_NAME_OR_ADDR	
(1D7)	CHARACTER	5	DPCC_PORT	
(1DC)	CHARACTER	4	DPCC_3270_DISPLAY	
(1E0)	CHARACTER	453	DPCC_DEBUGGER_OPTIONS	
(1E0)	UNSIGNED	1	DPCC_TEST_LEVEL	
(1E1)	CHARACTER	54	DPCC_COMMAND_FILE	
(217)	CHARACTER	40	DPCC_PROMPT	
(23F)	CHARACTER	54	DPCC_PREFERENCE_FILE	
(275)	CHARACTER	254	DPCC_LE_OPTIONS	
(373)	CHARACTER	1	DPCC_SOCKET_TYPE	
(374)	CHARACTER	49	*	Reserved

Constants

Table 102.

Len	Type	value	Name	Description
1	DECIMAL	1	DPWI_DATATYPE_QUERY	
1	DECIMAL	2	DPWI_DATATYPE_FORM	
1	DECIMAL	1	DPWS_DATATYPE_HTML	
1	DECIMAL	2	DPWS_DATATYPE_INSERT	
1	DECIMAL	3	DPWS_DATATYPE_NAVLINK	

Table 102. (continued)

Len	Type	value	Name	Description
1	DECIMAL	4	DPWS_DATATYPE_ HELPLINK	
1	DECIMAL	0	DPWS_STYLE_NORMAL	
1	DECIMAL	1	DPWS_STYLE_INDENT	
1	DECIMAL	2	DPWS_STYLE_SECTION	
Constants dpp_record_type				
1	CHARACTER	P	DPP_DEBUG_PROFILE	
1	CHARACTER	U	DPP_USER_DEFAULTS	
dpp_status				
1	DECIMAL	1	DPP_ACTIVE	
1	DECIMAL	2	DPP_INACTIVE	
dpp_profile_type				
1	DECIMAL	1	DPP_CORBA	
1	DECIMAL	2	DPP_EJB	
1	DECIMAL	3	DPP_JAVA_APPLIC	
1	DECIMAL	4	DPP_NON_JAVA	
dpp_session_type				
1	DECIMAL	1	DPP_LU3270	
1	DECIMAL	2	DPP_TCP	
dpp_socket_type				
1	DECIMAL	1	DPP_SINGLE	
1	DECIMAL	2	DPP_MULTIPLE	
dpp_test_level				
1	DECIMAL	1	DPP_ALL	
1	DECIMAL	2	DPP_ERROR	
1	DECIMAL	3	DPP_NONE	
Constants dpu_record_type				
1	CHARACTER	P	DPU_DEBUG_PROFILE	
1	CHARACTER	U	DPU_USER_DEFAULTS	
dpu_filter_user				
1	DECIMAL	1	DPU_CURRENT_USER	
1	DECIMAL	2	DPU_ALL_U	
dpu_filter_active				
1	DECIMAL	1	DPU_ACTIVE_P	
1	DECIMAL	2	DPU_ALL_P	
dpu_session_type				
1	DECIMAL	1	DPU_LU3270	

Table 102. (continued)

Len	Type	value	Name	Description
1	DECIMAL	2	DPU_TCP	
dpp_socket_type				
1	DECIMAL	1	DPU_SINGLE	
1	DECIMAL	2	DPU_MULTIPLE	
dpu_test_level				
1	DECIMAL	1	DPU_ALL	
1	DECIMAL	2	DPU_ERROR	
1	DECIMAL	3	DPU_NONE	
dpu_sort_type				
1	DECIMAL	1	DPU_OWNER	
1	DECIMAL	2	DPU_NAME	
1	DECIMAL	3	DPU_TRANID	
1	DECIMAL	4	DPU_PROGRAM	
1	DECIMAL	5	DPU_STATUS	
1	DECIMAL	6	DPU_TERMID	
1	DECIMAL	7	DPU_USERID	
1	DECIMAL	8	DPU_APPLID	
1	DECIMAL	9	DPU_NETNAME	
1	DECIMAL	10	DPU_COMP_UNIT	
1	DECIMAL	11	DPU_TYPE	
dpu_suppress_panel				
1	DECIMAL	1	DPU_SUPPRESS	
1	DECIMAL	2	DPU_NOSUPPRESS	
dpu_profile_type				
1	DECIMAL	1	DPU_JAVA_APPLIC	
1	DECIMAL	2	DPU_EJB	
1	DECIMAL	3	DPU_CORBA	
1	DECIMAL	4	DPU_NON_JAVA	
Constants dple_input				
1	DECIMAL	1	DPLE_ACTIVATE	
1	DECIMAL	2	DPLE_INACTIVATE	
1	DECIMAL	3	DPLE_COPY	
1	DECIMAL	4	DPLE_DELETE	
1	DECIMAL	5	DPLE_CLEAR	
Constants				
4	DECIMAL	8	DPCC_NUMPGMIDS	
dpcc_function				

Table 102. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	DPCC_PATTERN_ MATCH_TASK	
1	DECIMAL	2	DPCC_PATTERN_ MATCH_PROFILE	
dpcc_session_type				
1	DECIMAL	1	DPCC_3270	
1	DECIMAL	2	DPCC_TCP	
dpcc_socket_type				
1	DECIMAL	1	DPCC_SINGLE	
1	DECIMAL	2	DPCC_MULTIPLE	
dpcc_test_level				
1	DECIMAL	1	DPCC_ALL	
1	DECIMAL	2	DPCC_ERROR	
1	DECIMAL	3	DPCC_NONE	
dpcc_response				
1	DECIMAL	1	DPCC_MATCH	
1	DECIMAL	2	DPCC_NO_MATCH	
1	DECIMAL	3	DPCC_NO_ENVIRONMENT	

DSANC Dispatcher Domain Anchor Block

```
IF (MODNAME = 'DFHTRPT') | (MODNAME = 'DFHTRFT')
  CONTROL BLOCK NAME = DFHDSANC
  DESCRIPTIVE NAME  = CICS Dispatcher Anchor Block

  Restricted Materials of IBM

  FUNCTION =
       This include contains the definition of the Dispatcher
       Anchor Block. It also contains definitions of the DS_TCB,
       Sub_dispatcher, Stimer and Authorised blocks. See below
       for descriptions.
       The anchor block contains all dispatcher-related information
       that is not task, or suspend_resume_area specific.
  LIFETIME =
       Dispatcher Lifetime.
  STORAGE CLASS =
       OS Getmained from subpool 0.
  LOCATION =
       Held by Kernel
  INNER CONTROL BLOCKS =
       DS_TCB contains information associated with particular MVS
       TCBs controlled by the Dispatcher. This consists mainly of
       wait related data, eg the wake up ecb for the TCB.
       There is also a macro included here to post the wake up ecb
       of a particular TCB.
       Sub_dispatcher data is associated with one particular mode.
       Currently there is only one TCB per mode, but in case of
       more being introduced, we should distinguish between TCB
       and mode-related data. The key data is concerned with
       the dispatchable chain of tasks with the sub-dispatcher's
       mode.
```

```
      The STimer block contains an array of blocks to associate
      with the up to 11 outstanding stimerm calls that can be
      issued by dispatcher.
 NOTES :
  DEPENDENCIES = XA
  RESTRICTIONS =
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES = None
   DATA AREAS = None
   CONTROL BLOCKS = None
   GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 103.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2816	ANCHOR	
(0)	CHARACTER	16	EYE_CATCHER	eye catcher
(0)	HALFWORD	2	CB_LENGTH	Length of cb
(2)	CHARACTER	1	ARROW	> character
(3)	CHARACTER	3	DFH	DFH characters
(6)	CHARACTER	2	DOMID	DS for Dispatcher domain
(8)	CHARACTER	8	BLK_NAME	set to ctlblock name
----------				
(10)	CHARACTER	200	LONG_TERM_STATIC	Quasi-static data
Dispatcher state info				
(10)	CHARACTER	104	DISPATCHER_ STATE	
DISPATCHER STATE INFO KEPT IN THE CICS CATALOG				
(10)	HALFWORD	2	NUMBER_ OF_SUBTASKS	
				No. CO mode TCBS
(12)	UNSIGNED	2	PRIORITY_ MULTIPLIER	
				Priority Aging factor
(14)	ADDRESS	4	DEAD_DS_TCBS	ds_tcbs whose TCBs have terminated but that can't be freed yet.
(18)	CHARACTER	8	SCAN_DELAY_ INTERVAL	
				icvtsd
(20)	CHARACTER	8	MAXIMUM_ WAIT_INTERVAL	
				ICV time

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Dispatcher state constants set up in DFHDSDM.				
(28)	CHARACTER	8	SO_OFTEN_SHP	checking interval for scan_hand_postables
(30)	CHARACTER	8	PHS1_PERIOD_ LENGTH	
(38)	CHARACTER	8	PHS1_PRIORITY_ BONUS	
(40)	CHARACTER	8	SO_OFTEN_CE	Check_executables checking interval
(48)	CHARACTER	8	TIME_OUT_GAP	period between delayed deadlock timeouts
this is the penalty applied to ALL new tasks				
(50)	CHARACTER	8	NEW_TASK_DELAY	
(58)	ADDRESS	4	SM_ISOLATION_ TOKEN	
				Subspace isolation token used on switches
(5C)	FULLWORD	4	STORE_SHORT_ POINT	
				for sos processing
(60)	FULLWORD	4	STORE_CRITICAL_ POINT	
				for sos processing
(64)	FULLWORD	4	NEW_TASK_ PENALTY	
(68)	HALFWORD	2	SCAN_DELAY_ INTERVAL_SIT	
				ICVTSD from SIT
(6A)	HALFWORD	2	TASKS_PER_ BLOCK	Number of task blocks that fit into a page of storage
(6C)	FULLWORD	4	MAXIMUM_ WAIT_INTERVAL_SIT	
				SIT ICV time
Bit String state flags. The following flags are deliberately separated to avoid clashes when updating the bytes under multiple TCBs.				
(70)	CHARACTER	1	*	
	1...		SHUTDOWN_ DISPATCHER	

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				1= shutdown
	.1..		QUIESCE_ IN_PROGRESS	
				1= quiesce in prog
	..1.		FORCEALL_ YES_AT_PREINIT	
				PAGP FORCE_ALL
	...1		IN_INITIALISATION	
				after PRE_INIT, before end of INIT phase
(71)	CHARACTER	1	*	
	1...		PERFORM_ BEFORE_WAIT_UEXIT	
				set if required
(72)	CHARACTER	1	*	
	1...		PERFORM_ AFTER_WAIT_UEXIT	
				set if required
(73)	CHARACTER	1	*	Reserved
The following flags are set in pre_init				
(74)	UNSIGNED	4	DS_FLAGS	flag strip
	1...		POST_EXIT_ ENABLED	
	.1..		NO_LGDFINT_PE	
	..1.		*	
The following flags are set under the QR lock				
	...1		BUILD_WAIT_ LIST	Build QR waitlist if set
	.... 1...		*	
	.... .1..		IN_DISPATCHER_ PRE_INIT	
				Set 'TRUE' when dispatcher pre-initialisation is entered. Set off at end. See DFHDSDM
AP_INTERFACES Fields used in servicing the AP domain				
(78)	CHARACTER	4	AP	
(78)	ADDRESS	4	CSA_ADDRESS	Addr of the CICS CSA
Miscellaneous Tokens and Pointers				

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7C)	CHARACTER	4	KERN_ANCHOR	KE domain anch
(80)	CHARACTER	8	SM_VARIABLE_ SUBPOOL_TOKEN	
				Hash table subpool token
(88)	CHARACTER	8	STIMER_ SUBPOOL_TOKEN	
(90)	CHARACTER	8	DS_TCB_ SUBPOOL_TOKEN	
(98)	CHARACTER	8	BRTOKEN_SUBPOOL	
(A0)	CHARACTER	8	R_N_I_DEAD_ TCBS_TOKEN	
				Set up by DFHDSDM with a TISR REQUEST NOTIFY INTERVAL. Required by DFHTISRI REQUEST NOTIFY IMMEDIATELY.
(A8)	CHARACTER	8	EXPIRATION_ TOKEN	Input to DFHTITST macro
(B0)	CHARACTER	4	DSIT_LOCK_TOKEN	Lock token for dsit
(B4)	ADDRESS	4	POST_EXIT_ ADDRESS	Addr of post exit
(B8)	ADDRESS	4	STIMER_ BLOCK_PTR	Addr of stimer block
(BC)	ADDRESS	4	STATS_BUFFER_ PTR	Ptr to Stats Buffer
Statistics Last Reset Time.				
(C0)	CHARACTER	8	LAST_RESET_TIME	
The following fields are used to manage open TCBs.				
(C8)	CHARACTER	16	OPEN_TCBS	
(C8)	CHARACTER	8	NEXT_EXCESS_ TCB_TIME	
(D0)	ADDRESS	4	OPEN_TCB_ MANAGEMENT_LOCK	
(D4)	BIT(32)	4	OPEN_FLAGS	
	1...		TRANISO	on if TRANISO = YES

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		LOCK_FAILED	open mgmt lock has failed
(D8)	CHARACTER	0	DSA_PAD1	
(D8)	CHARACTER	40	*	
Working Counters and State. These fields are set to zero during initialisation They are updated as required during dispatcher operation				
(100)	CHARACTER	2560	SHORT_TERM_ VOLATILE	
(100)	CHARACTER	32	VOLATILE_ DISPATCHER_STATE	
(100)	FULLWORD	4	NUM_TASKS	Current # of tasks
(104)	FULLWORD	4	PEAK_NUM_TASKS	Peak # of tasks
(108)	FULLWORD	4	CURRENT_ STORAGE_FREE	
				Free storage init (16M)
(10C)	FULLWORD	4	STORAGE_ SHORTFALL	
				store_short_point-above>0
(110)	CHARACTER	8	NEW_TASK_MINUS	Dispatch priority modifier for new tasks
Lock Words. These words are used for compare and swap locking FFFFFFFF = locked, 0000000 = unlocked				
(118)	CHARACTER	8	LOCK_WORDS	lockwords
(118)	UNSIGNED	4	EXECUTABLE_ CHAIN_LOCK	
				set when scanning the executable chain
(11C)	UNSIGNED	4	*	Reserved
ECB queue. This chain is for aliens to chain requests to the dispatcher for a service. This is to be used when DFHIRP (in the FOR) wants the AOR to post an AOR ECB. Rather than doing an MVS post (with the overhead of an SRB) it will queue the request so the local dispatcher can do a local post or, even better, do a hand post. This chain will be serviced by DFHDSTCB just before its dispatcher scan.				
(120)	CHARACTER	8	ECB_Q_DW	Double Word for CDS
(120)	ADDRESS	4	Z_ANCHOR	Anchor for ECB Q chain
(124)	UNSIGNED	4	Z_NUMBER	Number in Queue
Special tasks area. This area keeps track of the special task CSTP. This tasks can issue special WAITs, and we must				

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(128)	CHARACTER	12	SPECIAL_AREA	
(128)	CHARACTER	12	CSTP_AREA	
(128)	ADDRESS	4	CSTP_TASK_REF	TCP's task block
(12C)	ADDRESS	4	CSTP_ECB_LIST	TCP's ecb list
(130)	BIT(8)	1	CSTP_FLAGS	TCP's flags
	1...		CSTP_WAITING	TCP's is in special wait
	.1..		CSTP_MUST_ DSP	CSATCPEV was set
	..11 1111		*	reserved
(131)	UNSIGNED	3	*	
	The Executable Chain. This chain is a list of all currently attached tasks. It is used to implement the AMAX,Interval,and Timeout scans. Task detach requires that an element be removed from the middle of this chain. Because of this, only one TCB is allowed to browse this chain at a time. If another TCB finds the chain 'locked' it can assume that the tcb that is currently scanning the chain will perform any required operations on the behalf of all tcbs. A Compare and Swap "push" to the top of the chain is always allowed.			
(134)	CHARACTER	4	EXECUTABLE_ CHAIN	
(134)	ADDRESS	4	EXECUTABLE_ HEADER	
	Roots of dispatcher control blocks			
(138)	CHARACTER	16	TASK_CELL_ROOT	PTR TO TASK BLOCKS
(138)	ADDRESS	4	PAM_ADDR	Ptr to page alloc map
(13C)	FULLWORD	4	CELL_COUNT	number of cells in pool
(140)	CHARACTER	8	FREE_CHAIN_CDS	FREE CHAIN HEADER
(140)	ADDRESS	4	FREE_CHAIN_ PTR	PTR TO FIRST FREE CELL
(144)	UNSIGNED	4	FREE_CHAIN_ COUNT	
				CDS SAFETY COUNT
(148)	CHARACTER	16	USER_TASK_ROOT	Ptr to user task blocks
(148)	ADDRESS	4	PAM_ADDR	
(14C)	FULLWORD	4	CELL_COUNT	
(150)	CHARACTER	8	FREE_CHAIN_CDS	
(150)	ADDRESS	4	FREE_CHAIN_ PTR	

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(154)	UNSIGNED	4	FREE_CHAIN_ COUNT	
(158)	CHARACTER	16	SUSPEND_ CELL_ROOT	Ptr to suspend blocks
(158)	ADDRESS	4	PAM_ADDR	
(15C)	FULLWORD	4	CELL_COUNT	
(160)	CHARACTER	8	FREE_CHAIN_CDS	
(160)	ADDRESS	4	FREE_CHAIN_ PTR	
(164)	UNSIGNED	4	FREE_CHAIN_ COUNT	
(168)	CHARACTER	16	USER_EXTENSION_ ROOT	
				root of ecb extension blocks
(168)	ADDRESS	4	PAM_ADDR	
(16C)	FULLWORD	4	CELL_COUNT	
(170)	CHARACTER	8	FREE_CHAIN_CDS	
(170)	ADDRESS	4	FREE_CHAIN_ PTR	
(174)	UNSIGNED	4	FREE_CHAIN_ COUNT	
(178)	CHARACTER	16	EXTENSION_ CELL_ROOT	
				root of ecb extension blocks
(178)	ADDRESS	4	PAM_ADDR	
(17C)	FULLWORD	4	CELL_COUNT	
(180)	CHARACTER	8	FREE_CHAIN_CDS	
(180)	ADDRESS	4	FREE_CHAIN_ PTR	
(184)	UNSIGNED	4	FREE_CHAIN_ COUNT	
Hand Postable Chain. Define all fields relating to the anchor portion of the hand postable Q. Tasks on this Q expect that their ECB'S can be posted by an OI of the post bit in the ECB.				
(188)	CHARACTER	24	HAND_POSTABLE_	The hand postable q
(188)	ADDRESS	4	HAND_POSTABLE_ CHAIN	
				Anchor for hpq
(18C)	ADDRESS	4	HPT_LAST_PTR	Last entry in HP chain

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
The following fields (hpt_wait_list_xxx) describe the wait list used by the quasi-reentrant (QR) TCB when invoking the MVS WAIT during partition exit. The list consists of the wakeup ecb, other special ecbs, and all waiting OLD_WAIT ecbs being waited on by tasks in the handpostable chain				
(190)	ADDRESS	4	HPT_WAIT_ LIST_START	
				Actual begining of list
(194)	ADDRESS	4	HPT_WAIT_ LIST_END	
				First byte "AFTER" the end of the wait list
(198)	ADDRESS	4	HPT_WAIT_ LIST_CURSOR	
				Ptr -> the next available slot in the wait list
(19C)	UNSIGNED	2	HPT_WAIT_ LIST_SIZE	
				How many ECBs the wait- list will hold.
(19E)	UNSIGNED	2	*	Reserved
(1A0)	CHARACTER	8	DELAY_QUEUE	
The delay queue consists of tasks which have received a resume request which we wish to delay until either a specified interval has expired, or CICS has nothing better to do. This facility is used by high priority server tasks such as CSNC which do not necessarily want to be awoken as soon as requests arrive. This allows a CICS server task to achieve batching under the CICS TCB. This method of batching is separate from that used to reduce the MVS dispatching overhead: the delay queue is intended to offer a mechanism for server tasks to reduce the CICS dispatching overhead.				
(1A0)	ADDRESS	4	DELAY_QUEUE_ HEAD	head of chain of tasks
(1A4)	CHARACTER	4	DELAY_QUEUE_ TIME	earliest delayed work
TIME Fields				
(1A8)	CHARACTER	80	TIMER	
(1A8)	CHARACTER	8	CURRENT_TIME	system time
(1B0)	CHARACTER	8	NEXT_CE_TIME	Next time the check_ executables routine is due

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1B8)	CHARACTER	8	NEXT_SHP_TIME	Next time the hand_ postable_scan (quasi-reent function) is due
(1C0)	BIT(64)	8	NEXT_TIMEOUT_ TIME	
				Earliest time for deadlock timeout since last timeout
(1C8)	CHARACTER	8	NEXT_TI_EVENT	Next scheduled event for the timer domain. This is set by the ?DFHTITST macro in DFHDSTCB
(1D0)	CHARACTER	8	NEXT_TCP_ DISPATCH_TIME	
(1D8)	CHARACTER	8	DSCSA_WORK	work area for DFHDSCSA
(1E0)	CHARACTER	8	SAVED_NEXT_ TCP_DISPATCH_TIME	
				value of next_tcp_dispatch_time while cstp_waiting is off
(1E8)	UNSIGNED	4	QR_CPU_PERCENT	Percent cpu usage by QR TCB
(1EC)	UNSIGNED	4	EXPIRED_ TIMEOUT_COUNT	
				Number of tasks with expired timeout times found during check executables scan
(1F0)	BIT(64)	8	NEXT_OPEN_ TIMEOUT_TIME	
				Earliest time for open tcb timeout since last timeout
(1F8)	CHARACTER	8	PHS1_PRIORITY	
(1F8)	BIT(32)	4	PHS1_PRIORITY_ HIGH	
(1FC)	UNSIGNED	4	PHS1_PRIORITY_ LOW	

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(200)	HALFWORD	2	NEXT_FREE_SUBD	Index of next free sub_disp array element
(202)	BIT(8)	1	OPEN_TCB_FLAGD	Dynamic open flags
	1...		OPEN_CODE_ WAS_RUNNING	
				Set OFF before then check executables task scan and set ON if a task RUNNING_ABTERM_ALLOWE is located during the scan or DFHDSBRI sets a tasks state to RUNNING_ABTERM_ALLOWE
	.1..		DSTI_UNPRODUCTIVE	
				Set ON when QR partition exit issues DFHTISRI NOTIFY to get DFHDSTI to relieve long waiters. DSTI resets when it resumes a waiter. Bit accessed under QR only
(203)	CHARACTER	5	*	reserved
Lock for getmains from outside CICS Storage. Using DFHKERN type(lock/unlock)				
(208)	CHARACTER	8	GETPAGE_LOCK	DFHKERN LOCK FOR GETMAIN
The high water mark length of the MVS TCB stats buffer.				
(210)	FULLWORD	4	DSANC_DSMTS_HWM	HWM so far
(214)	FULLWORD	4	*	Reserved
Miscellaneous Pointers and counters				
(218)	ADDRESS	4	FREE_DS_TCBS	chain of free ds_tcbs
(21C)	ADDRESS	4	DETACHED_ DS_TCBS	Need post-DETACH proc'g
(220)	ADDRESS	4	TERM_ANCHOR	Termination-deferred TCBs
(224)	UNSIGNED	4	TOTAL_IN_ TERM_NUM	all TCBs being deleted

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(228)	FULLWORD	4	TOTAL_NON_ OPEN_MULTI_ TCB_MODES	
(22C)	FULLWORD	4	*	Reserved
More Time fields.				
(230)	CHARACTER	32	TIMER2	
(230)	BIT(64)	8	NOT_SOON_TIME	Not soon time
(230)	BIT(40)	5	NOT_SOON_STCK	Not soon STCK units, only bit 0 - 33 required to hold value rounded to next 1/4 sec tick
(235)	UNSIGNED	1	*	Reserved
(236)	UNSIGNED	2	NOT_SOON_ COUNT	Not soon count
(238)	BIT(64)	8	EARLIEST_ TIMER_EXPIRY	
				Earliest timer expiry 0 except when QR is executing the PSTIMERM or OPTMVSWT code during partition exit processing
(240)	BIT(64)	8	NEXT_OPEN_ TIMEOUT_CHECK	
				Next open time check time
(248)	CHARACTER	8	NO_PE_FINISH	No delay for partition exit if earlier
(250)	UNSIGNED	4	LENGTH_ OF_BLOCK_HEADER	
				Standard cell blk hdr len
(254)	UNSIGNED	4	LENGTH_ OF_TASK_BLOCK	
				Task block len
The following WL table is used to keep track of the average length of the last few MVS WAITs issued under the QR TCB.				
(258)	CHARACTER	64	WL	
(258)	CHARACTER	8	WL_AVERAGE_ DURATION	
				8 byte
(258)	CHARACTER	2	*	

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(25A)	FULLWORD	4	WL_AVERAGE	4 byte average
(25E)	CHARACTER	2	*	
(260)	FULLWORD	4	WL_SUM	sum of last WL_N WAITs
(264)	FULLWORD	4	WL_N	number of table entries
(268)	ADDRESS	4	WL_OLDEST	oldest entry
(26C)	ADDRESS	4	WL_FIRST	first entry
(270)	ADDRESS	4	WL_LAST	last entry
(274)	FULLWORD	4	WL_DURATION (8)	the entries
(294)	FULLWORD	4	*	reserved
(298)	CHARACTER	0	DSA_PAD2	Alignment
(298)	CHARACTER	104	*	
(300)	CHARACTER	644	*	
(300)	CHARACTER	96	OPEN_POOLS (4)	open pools live here
(480)	CHARACTER	96	* (2)	future pool space
(540)	CHARACTER	68	FREE_CHAINS	Arrays indexed by open TCB type
(540)	ADDRESS	4	FREE_OPEN_ BASESPACE_DS_TCBS (7)	
				chain of basespace TCBs unalloc'd to tasks
(55C)	CHARACTER	12	*	space for above array expand
(568)	ADDRESS	4	FREE_OPEN_ SUBSPACE_DS_TCBS (7)	
				hash chns of subsp TCBs unalloc'd to tasks
(584)	CHARACTER	0	DSA_PAD3	
(584)	CHARACTER	124	*	

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
The mode/sub_dispatcher control blocks. A SUB_Dispatcher is responsible for a given dispatch "mode". It contains a list of dispatcher tcbs owned by this mode, a Dispatchable Q that is a list of tasks that are ready to be dispatched. (i.e. not suspended), and a set of flags representing the state for this sub dispatcher. In this release, there is exactly one tcb for each sub_disp. The Modes introduced in CICS/ESA 3.1.1 were: QR: Quasi-Reentrant. This mode runs all old CICS non-reentrant code. It also runs all application code. RO: Resource Owning Tasks switch to this mode to perform operations that will tie up a TCB for a long period of time. An example open and close files or perform any BLDL operations. Tasks running in this mode run concurrently with any other tasks in the system. CO: Concurrent Mode. Tasks running in this mode run concurrently with any other tasks in the system. Tasks in this mode are expected to give control back to the dispatcher in a reasonable time. CO mode can be viewed as a superior VSAM subtask mode. The current users of CO mode are all the old VSAM subtask users. TSP,FCP,TDP and JCP and domain service tasks, eg for TI and SM. In CICS/ESA 3.3 the following TCB was added: SZ: Secondary LU support mode. Tasks running in this mode run concurrently with any other tasks in the system. This mode is used by tasks processing EXEC CICS FEPI requests. This mode is NOT for general purpose use, but is reserved exclusively for use by the secondary LU support code. In CICS/ESA 4.1 the following TCB was added: RP: ONC/RPC support mode This mode is used by tasks using the ONC/RPC feature and is intended as a tactical solution only. In CICS/TS 1.1 the following TCB was added: FO: file open/close mode This mode is used rather than RO mode to avoid the possible delay caused to other tasks when migrated files are opened (takes a long time). The sub_dispatchers are implemented as an array within the dispatcher anchor block. The array indices correspond with (QR,RO,CO,SZ,RP,FO) modes respectively, followed by entries for the more recent open power of 2 to speed up indexing into the array.				
(600)	CHARACTER	64	* (20)	Modes in order shown above
(600)	CHARACTER	64	SUB_DISP	
(600)	CHARACTER	16	SD_EYE_ CATCHER	
(600)	HALFWORD	2	CB_LENGTH	
(602)	CHARACTER	1	ARROW	
(603)	CHARACTER	3	DFH	
(606)	CHARACTER	2	DOMID	
(608)	CHARACTER	8	BLK_NAME	
(610)	CHARACTER	8	BATCH_CONTROL	
(610)	FULLWORD	4	BATCH_SIZE	
(614)	FULLWORD	4	BATCH_CURRENT	
(618)	ADDRESS	4	TCB_LIST	
(61C)	HALFWORD	2	TCB_COUNT	

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(61E)	HALFWORD	2	RELATIVE_ PRIORITY	
(620)	BIT(16)	2	SUBD_FLAGS	
	1...		MODE_ACTIVE	
	.1..		CHANGE_ MODE_POSSIBLE	
	..1.		EXEC_CAPABLE	
	...1		LE_CICS	
	.... 1...		OPEN_MODE	
	.... .1..		TCBKEY9	
	.... ..1.		INHERIT_SS	
	1		ESSENTIAL_ TCB	
(621)	1...		MULTIPLE_ TCBS	
	.1..		SZERO	
	..1.		PTHREAD	
(622)	UNSIGNED	2	NOTIFY_ DELETE_DOMAIN	
(624)	UNSIGNED	4	SUBD_MODE	
(628)	CHARACTER	2	SUBD_MODENAME	
(62A)	CHARACTER	2	PARENT_ MODENAME	
(62C)	UNSIGNED	4	OPEN_INDEX	
(630)	CHARACTER	8	TCB_ID_RANGE	
(630)	CHARACTER	1	*	
(631)	UNSIGNED	3	NEXT_ID	
(634)	CHARACTER	1	*	
(635)	UNSIGNED	3	LAST_ID	
(638)	UNSIGNED	1	WAIT_FOR_ MATCH	
(639)	CHARACTER	2	DEPENDENT_ON	
(63B)	UNSIGNED	1	OPEN_POOL_ NUMBER	
(63C)	UNSIGNED	2	NON_OPEN_ MULTI_TCB_INDEX	
(63E)	UNSIGNED	2	*	
(640)	CHARACTER	0	*	Pad to 32 bytes

```
%DS_TCB_DCL:;
```

Table 104.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	252	DS_TCB	
(0)	CHARACTER	24	DS_TCB_PART1	
(0)	CHARACTER	16	EYE_CATCHER	
(0)	HALFWORD	2	CB_LENGTH	Length of cb
(2)	CHARACTER	1	ARROW	> character
(3)	CHARACTER	3	DFH	DFH characters
(6)	CHARACTER	2	DOMID	DS for Dispatcher domain
(8)	CHARACTER	8	BLK_NAME	set to ctlblock name
(10)	ADDRESS	4	NEXT_TCB	ptr to next tcb ctl block Last one is set to X'00'
(14)	ADDRESS	4	TCB_SUBD_PTR	Ptr to owning subdisp cb
(18)	CHARACTER	16	DS_TCB_PART2	
(18)	UNSIGNED	4	INSTANCE_COUNT	TCB instance
(18)	BIT(31)	4	*	
(1B)	1		TCB_AVAILABLE	1 = TCB still active
(1C)	CHARACTER	8	DISPATCHABLE_ CHAIN	
				the dispatchable q
(1C)	ADDRESS	4	FRONT_PTR	
(20)	ADDRESS	4	BACK_PTR	
(24)	ADDRESS	4	KE_TASK_TOKEN	TASK_TOKEN passed back by DFHKEDS CREATE_TCB
(28)	CHARACTER	212	DS_TCB_PART3	
(28)	UNSIGNED	4	WAKE_UP_ECB	ECB used to wake TCB
	1...		TCB_WAITING	waiting bit.
	.1..		TCB_POSTED	used for tcb_state
(2C)	ADDRESS	4	RUNNING_TASK	Currently running task
(30)	ADDRESS	4	TCB_ANC_ADDR	Ptr -> Anchor Block

Table 104. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	ADDRESS	4	ASSOCIATED_ LE_ANCHOR	
				LE anchor, for TCBs...
(38)	CHARACTER	8	TCB_SUBD_NAME	QR | RO | CO | SZ | RP | FO
(40)	UNSIGNED	1	TCB_MODE	As per dsat modes 1 = Qr mode 2 = RO mode 3 = CO mode 4 = SZ Mode 5 = RP mode 6 = FO mode
(41)	BIT(8)	1	DS_TCB_FLAGS	
	1...		PERFORM_ KE_READ_TIME	
				KE_READ_TIME needed
	.1..		DELETE_ TCB_COMPLETE	
				delete_tcb req ended
	..1.		ESSENTIAL_TCB	essential_tcb(yes)
	...1		DELETE_ TCB_REQUESTED	
				delete_tcb entered
	.... 1...		POST_DETACH_ DONE	post_DETACH logic done
	.... .1..		AWAITING_ DELETE	waiting for TCB term
	.... ..1.		ABEND_PARTITION_ EXIT	
				abend in PE
(42)	BIT(8)	1	DS_TCB_FLAGS2	
	1...		SHUTDOWN_TCB	NB needs its own byte
(43)	UNSIGNED	1	*	Reserved
(44)	UNSIGNED	4	*	Reserved
(48)	CHARACTER	8	WAIT_FINISH	STCK when Ptn exit starts
(50)	CHARACTER	8	WAIT_START	STCK when Ptn exit completes
(58)	CHARACTER	8	ANC_TCB_ WAIT_TIME	OP System wait time
(60)	CHARACTER	8	ANC_TCB_ DISP_TIME	TCB dispatch time

Table 104. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(68)	FULLWORD	4	ANC_SYSTEM_ WAITS	No of partition exits
(6C)	FULLWORD	4	*	Reserved
The following fields are used to manage open TCBs				
(70)	CHARACTER	52	OPEN_DS_ TCB_STATE	Fields for open TCBs
(70)	CHARACTER	8	MOST_RECENT_ USE	last time TCB used
(78)	CHARACTER	8	OPEN_TIMEOUT	timeout value
(80)	ADDRESS	4	SUBSPACE_TOKEN	TCB's associated subsp
(84)	ADDRESS	4	OWNING_TASK	Task owning this TCB
(88)	ADDRESS	4	NEXT_OPEN_FREE	Open TCB chain fwd ptr
(8C)	ADDRESS	4	PRIMARY_ TOKEN_ANCHOR	
				primary tkn blk
(90)	ADDRESS	4	SECONDARY_ TOKEN_ANCHOR	
				secry tkn blk
(94)	BIT(24)	3	OPEN_FLAGS	prot'ed by Open mgmt lock
	1...		SUBSPACE_ ELIGIBLE	
				1 = TCB attached with subspace
	.1..		OPEN_MODE	open(open_yes) mode
	..1.		DELETE_ TCB_ISSUED	
				set before issuing DELETE_TCB
	...1		TCB_TERM_ BEFORE_DELETE_TCB	
				TCB terminated before DELETE_TCB issued (implies TCB terminated catastrophically)
	.... 1...		OPEN_INITIALISED	
				Candidate for DELETE_ALL_OPEN_TCBS
(94)	BIT(19) POS(6)	3	*	reserved

Table 104. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(97)	BIT(8)	1	OPEN_FLAGS_2	unprot'ed by Open mgmt lk
	1...		DELETION_ SCHEDULED	
				DELETE_OPEN_TCB issued
	.111 1111		*	reserved
(98)	ADDRESS	4	OWNED_FWD	TCBs of same open mode...
(9C)	HALFWORD	2	LATEST_ HISTORY_ENTRY	
				index to history entry for TCB's most recent request
(9E)	CHARACTER	6	*	reserved for open TCBs
(A4)	ADDRESS	4	TCB_ADDRESS	MVS TCB address
(A8)	CHARACTER	5	TCB_ID	for trace entries
(A8)	CHARACTER	2	TCB_MODENAME	Modename
(AA)	CHARACTER	3	TCB_NUMBER	Base36 alphanum taskid
(AD)	CHARACTER	3	*	Reserved
'Saved' statistical values used in the calculation of CPU utilisation.				
(B0)	CHARACTER	16	TCB_SAVED_ CPU_FIELDS	
(B0)	CHARACTER	8	TCB_SAVE_ WAIT_TIME	
(B8)	CHARACTER	8	TCB_SAVE_ ACC_TIME	
The following two fields are used in the calculation of DSGACT, which is the CPU time used by any TCB during a given Statistics Interval. TCB_TOTAL_ACC_CPU_TIME is the total CPU time burnt by a TCB. TCB_OLD_CPU_TIME is the total CPU time burnt by a TCB up to the start of a given Statistics Interval.				
(C0)	CHARACTER	8	TCB_TOTAL_ ACC_CPU_TIME	
(C8)	CHARACTER	8	TCB_OLD_ CPU_TIME	
The following two fields are used in the calculation of DSGTCT, which is the CPU time used by any TCB while processing the DS task during a given Statistics Interval. TCB_DS_TOT_ACC_CPU_TIME is the total CPU time burnt by a TCB while executing the DS task. TCB_DS_OLD_CPU_TIME is the total CPU time burnt by a TCB up to the start of a given Statistics Interval.				

Table 104. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(D0)	CHARACTER	8	TCB_DS_ TOT_ACC_CPU_TIME	
(D8)	CHARACTER	8	TCB_DS_ OLD_CPU_TIME	
Miscellaneous fields, infrequently used.				
(E0)	UNSIGNED	4	ESTAE_WAITERS_ ECB	for ESTAE exit WAITs
(E4)	ADDRESS	4	NEXT_DEAD_ DS_TCB	chain of ESTAE wtrs
(E8)	CHARACTER	4	OWNER_TCB_TOKEN	TCB owner's token
(EC)	BIT(32)	4	TCB_TERM_ CONTROL	CS word
	1...		DETACH_DONE	DETACH issued
	.1..		DELETE_ INITIATED	DELETE_TCB started
	..1.		AWAITER_RESUME	Awaiter RESUMEs if PURGE
	...1		DETACHER_ RESUME	Detchr RESUMEs if PURGE
(EC)	BIT(28) POS(5)	4	*	reserved
(F0)	ADDRESS	4	TERM_FWD	Fwd ptr in dfrd term chn
(F4)	ADDRESS	4	DETACHED_FWD	Fwd ptr in detached chn
(F8)	ADDRESS	4	AWAIT_DELETE_ TOKEN	
				A(SUSP tok) for detch

Sub_dispatcher
The subdispatcher control block

Table 105.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	SUB_DISPATCHER	Subdispatcher Control blk
(0)	CHARACTER	16	SD_EYE_CATCHER	Eye catcher
(0)	HALFWORD	2	CB_LENGTH	Length of cb
(2)	CHARACTER	1	ARROW	> character
(3)	CHARACTER	3	DFH	DFH characters
(6)	CHARACTER	2	DOMID	DS for Dispatcher domain

Table 105. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	8	BLK_NAME	set to ctlblock name
(10)	CHARACTER	8	BATCH_CONTROL	
(10)	FULLWORD	4	BATCH_SIZE	total batch size
(14)	FULLWORD	4	BATCH_CURRENT	no reqs left to fill batch
(18)	ADDRESS	4	TCB_LIST	Ptr to a list of tcb's owned by this mode.
(1C)	HALFWORD	2	TCB_COUNT	TCBs for this mode
(1E)	HALFWORD	2	RELATIVE_ PRIORITY	prty relative to QR
(20)	BIT(16)	2	SUBD_FLAGS	Flags word
	1...		MODE_ACTIVE	A successful activate_mode has been issued.
	.1..		CHANGE_ MODE_POSSIBLE	
				At least one TCB exists for this mode
	..1.		EXEC_CAPABLE	This mode supports EXEC CICS commands and LE.
	...1		LE_CICS	On - LE will use CICS services, off - LE will use MVS services
	.... 1...		OPEN_MODE	1 = open(yes) specified on activate_mode
	.... .1..		TCBKEY9	1 = key 9 TCBs
	.... ..1.		INHERIT_SS	1 = inherits subspace
	1		ESSENTIAL_TCB	1 = terminate CICS if this TCB fails and can't recover
(21)	1...		MULTIPLE_TCBS	1 = more than one TCB allowed for this mode
	.1..		SZERO	1 = TCB of this mode attached with SZERO=Y
	..1.		PTHREAD	1 = pthread tcb

Table 105. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(22)	UNSIGNED	2	NOTIFY_ DELETE_DOMAIN	
				domain no.for NOTIFY@LRA
(24)	UNSIGNED	4	SUBD_MODE	Default mode
(28)	CHARACTER	2	SUBD_MODENAME	from activate_mode
(2A)	CHARACTER	2	PARENT_MODENAME	mode of TCB used to ATTACH TCBs in this mode
(2C)	UNSIGNED	4	OPEN_INDEX	index into array of open TCB types (0 if not open)
(30)	CHARACTER	8	TCB_ID_RANGE	current range of available tcb ids for this mode.
(30)	CHARACTER	1	*	reserved
(31)	UNSIGNED	3	NEXT_ID	next available value in current range
(34)	CHARACTER	1	*	reserved
(35)	UNSIGNED	3	LAST_ID	highest available value
(38)	UNSIGNED	1	WAIT_FOR_MATCH	conditions in which it's..
(39)	CHARACTER	2	DEPENDENT_ON	mode on which this mode...
(3B)	UNSIGNED	1	OPEN_POOL_NUMBER	pool id for TCBs of this..
(3C)	UNSIGNED	2	NON_OPEN_ MULTI_TCB_INDEX	
				for task array to... set most-recently used TCB in tokenless CHGE_MODE
(3E)	UNSIGNED	2	*	Reserved

Table 106.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	OPEN_POOL	
(0)	CHARACTER	16	OPEN_POOL_ EYE_CATCHER	
				eye catcher

Table 106. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	CB_LENGTH	Length of cb
(2)	CHARACTER	1	ARROW	> character
(3)	CHARACTER	3	DFH	DFH characters
(6)	CHARACTER	2	DOMID	DS for Dispatcher domain
(8)	CHARACTER	8	BLK_NAME	set to ctlblock name
(10)	UNSIGNED	4	POOL_NUM	number of this pool
(14)	ADDRESS	4	REQUEST_HISTORY	pool's rqst hist blk
(18)	CHARACTER	8	OLDEST_ AWAITER_TIME	
				time of longest waiter... ...currently on queue
(20)	CHARACTER	40	COUNTS	
(20)	UNSIGNED	4	CURR_ALLOC_ OPEN_TCBS	
				TCBs allocated to current tasks
(24)	UNSIGNED	4	HIGH_ALLOC_ OPEN_TCBS	
				highwater mark for CURR_ALLOC_OPEN_TCBS
(28)	UNSIGNED	4	CURR_OPEN_TCBS	total no. open TCBs currently in existence
(2C)	UNSIGNED	4	HIGH_OPEN_TCBS	highwater mark for CURR_OPEN_TCBS
(30)	UNSIGNED	4	MAXPOOLTCBS	SIT/override limiting no. of open TCBs
(34)	UNSIGNED	4	SUSPENDED_ AWAITING_OPEN_TCB	
				no. tasks suspended awaiting open TCBs
(38)	UNSIGNED	4	SUSPENDED_ AWAITING_POOL_TCB	

Table 106. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				no. tasks suspended awaiting pool TCBs
(3C)	FULLWORD	4	IN_TERM_NUM	TCBs in TCB termination
(40)	UNSIGNED	4	DECAYING_ HIGH_ALLOC_ OPEN_TCBS	
(44)	UNSIGNED	4	SUSPENDED_ MVS_STORAGE_ CONSTRAINED	
				No. tasks suspended because MVS storage is contrained
(48)	BIT(32)	4	OPEN_POOL_FLAGS	
	1...		ALREADY_ AT_MAXOPEN	
				at max TCB lim
	.1..		ELIGIBLE_ FOR_MVSSTOR_ CONSTRAINT	
				Pool eligible for MVS storage constraint
	..1.		MVS_STORAGE_ THRESHOLD_ BREACHED	
				MVS storage threshold has been breached
	...1		MVS_STORAGE_ CUSHION_BREACHED	
				MVS storage cushion has been breached
(4C)	ADDRESS	4	AWAITING_ OPEN_TCB	chain of tasks awaiting a free TCB
(50)	ADDRESS	4	AWAITING_ OPEN_TCB_END	
				end of chain of tasks awaiting a free TCB
(54)	UNSIGNED	4	*	Reserved
(58)	BIT(64)	8	CRITICAL_ WAIT_PERIOD	

Table 106. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				curr value as STCK
(60)	CHARACTER	0	OPL_PAD	Reserved
(60)	CHARACTER	0	*	
(60)	CHARACTER	0	OPEN_POOL_END	end of block

Table 107.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	3232	OPEN_POOL_HISTORY	
(0)	CHARACTER	16	EYE_CATCHER	eye catcher
(0)	HALFWORD	2	CB_LENGTH	Length of cb
(2)	CHARACTER	1	ARROW	> character
(3)	CHARACTER	3	DFH	DFH characters
(6)	CHARACTER	2	DOMID	DS Dispatcher domain
(8)	CHARACTER	8	BLK_NAME	set to ctlblock name
(10)	HALFWORD	2	HIST_NEXT_ENTRY	index of next free entry
(12)	CHARACTER	14	*	reserved
(20)	CHARACTER	32	HIST_ENTRIES (100)	
(20)	CHARACTER	8	HIST_TIME	this has one of 2 values: (1) If the requester still owns the TCB (HIST_TCB_FREED is OFF): time at which the requester was allocated the TCB (2) If the requester has freed the TCB (HIST_TCB_FREED is ON): length of time during which requester owned TCB
(28)	BIT(32)	4	HIST_FLAGS	
	1...		HIST_TCB_FREED	contrls HIST_TIME above@M2A
	.1..		HIST_PRIM_ TOK_PRESENT	
				primry token rqstd@M2A
(28)	BIT(30) POS(3)	4	*	reserved

Table 107. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	ADDRESS	4	HIST_DS_TCB	DS_TCB used for this rqst
(30)	CHARACTER	8	HIST_PRIMARY_TOKEN	
				prim token (if any)
(38)	CHARACTER	2	HIST_MODE	requested mode
(3A)	CHARACTER	6	*	reserved

```
Double Chains.
A Double Chain is a type of linked list that is designed to
provide a sorted list of tasks while allowing concurrent
push/pop operations on it from multiple TCBS..
It consists of 2 linked lists. These are described as the
"front" and the "back" halves of the Q.
Any TCB can "push" a new element onto the "Front" half
with a Compare and Swap instruction.
When a TCB wants to pop a task of the Q, it "hides" the
frontq by zeroing the frontq ptr. Any future pushes to
the front half therefor start a fresh front half.
The TCB then sorts and merges the tasks from the hidden
front half down onto the back half.
The back half then consists of a list of tasks sorted
in priority Order.
The Dispatchable chain is implemented as a double chain.
```

Table 108.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	DOUBLE_CHAIN	
(0)	ADDRESS	4	FRONT_PTR	Publicly appendable half
(4)	ADDRESS	4	BACK_PTR	Hidden/sorted half

```
%IF (MODNAME = 'DFHTRPT') | (MODNAME = 'DFHTRFT')
  %THEN %GOTO DSANC_END ;
                          Stimer Block
The block of storage needed for the STIMER times and tokens
```

Table 109.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	624	STIMER_BLOCK	
(0)	CHARACTER	16	SB_EYE_CATCHER	eye catcher
(0)	HALFWORD	2	CB_LENGTH	Length of cb
(2)	CHARACTER	1	ARROW	> character
(3)	CHARACTER	3	DFH	DFH characters
(6)	CHARACTER	2	DOMID	DS for Dispatcher domain
(8)	CHARACTER	8	BLK_NAME	set to ctlblock name

Table 109. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	BIT(64)	8	STIMER_INIT_TIME	Stimer block init time
Stimer block indexes				
(18)	UNSIGNED	2	STIMER_ TIMEOUT_ NEXT_TICK_INDEX	
				Next timeout tick index
(1A)	UNSIGNED	2	STIMER_ TIMEOUT_ LAST_TICK_INDEX	
				Last timeout tick index
(1C)	UNSIGNED	2	STIMER_ FIRST_ACTIVE_ INDEX	
				First active stimer index
(1E)	UNSIGNED	2	STIMER_ FIRST_FREE_INDEX	
				First free stimer index
(20)	UNSIGNED	2	STIMER_ LAST_FREE_INDEX	
				Last free stimer index
(22)	UNSIGNED	2	*	Reserved
Various stimer block addresses and values				
(24)	ADDRESS	4	STIMER_DSTCB	ds_tcb address
(28)	ADDRESS	4	STIMER_ ANCHOR_ADDR	Anchor address
(2C)	ADDRESS	4	*	Reserved
(30)	BIT(64)	8	STIMER_ LAST_CANCELLED_ TIME	
				Last cancelled stimer time value
Various stimer block counts				
(38)	UNSIGNED	4	STIMER_SET_COUNT	Count of stimerm sets
(3C)	UNSIGNED	4	STIMER_ CANCEL_COUNT	
				Count of stimerm
(40)	UNSIGNED	4	STIMER_ EXIT_RUN_COUNT	

Table 109. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Count ot stimerm exits executed
(44)	CHARACTER	28	*	Reserved
Stimer array. This array is only updated by the PSTIMERM routine during QR's partition exit processing Active stimer elements are chained using halfword indexes from stimer_first_active_index. Available stimer elements are chained using halfword indexes from stimer_first_free_index. The last available element index is contained in stimer_last_free_index.				
(60)	CHARACTER	32	STIMER_ARRAY (0-10)	Stimer array@M5C
(60)	BIT(64)	8	STIMER_TIME	Stimer element time
(60)	BIT(40)	5	STIMER_STCK	Stimer stck time
(65)	UNSIGNED	3	*	
(68)	UNSIGNED	2	STIMER_ NEXT_FREE_INDEX	
				Index of next free stimer element
(6A)	UNSIGNED	2	STIMER_ NEXT_ACTIVE_INDEX	
				Index of next active stimer element
(6C)	CHARACTER	4	STIMER_TOKEN	ASSOCIATED TOKENS FROM XA
(70)	ADDRESS	4	STIMER_ ENTRY_ADDR	-> own array element
(74)	ADDRESS	4	STIMER_ BLOCK_ADDR	-> parent stimer block
(78)	CHARACTER	8	*	Reserved

Table 109. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Timeout array. This array contains timeout counts for the next 11 quarter second stimer ticks. The count field contains the number if timeouts that will expiry at the completion of the tick. During a wait or suspend one is added to the appropriate elements count and at the completion of the wait or suspend one is subtracted from the count. CDS is used to maintain the timeout value and count. The check_executables routine reassigns expired elements and ensures that suspended tasks that timeout times have come into the array range because of this reassignment of expired elements are included in the appropriate count. The timeout elements are chained using halfword indexes from stimer_timeout_next_tick_index. The last available element index is contained in stimer_timeout_last_tick_index.				
(1C0)	CHARACTER	16	STIMER_ TIMEOUT_ARRAY (0-10)	
				Stimer timeout array
(1C0)	BIT(64)	8	STIMER_ TIMEOUT_TIME	
				Timeout time
(1C0)	BIT(40)	5	STIMER_ TIMEOUT_STCK	
				STCK units of 1/4 second tick (only 34 bits needed to define 1/4 tick
(1C5)	UNSIGNED	1	*	Reserved
(1C6)	UNSIGNED	2	STIMER_ TIMEOUT_COUNT	
				Number of waits/suspends which will timeout at completion of tick
(1C8)	UNSIGNED	2	STIMER_ TIMEOUT_ NEXT_INDEX	
				Index to next timeout array element
(1CA)	UNSIGNED	2	*	Reserved
(1CC)	UNSIGNED	4	*	Reserved

DSAUSB. This is the address-space-wide (ie. global) dispatcher authorized block. It is key 0, job-step local, and is addressed by the CICS AFCS.

Table 110.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	164	DSAUSB	
(0)	CHARACTER	16	DSSEYECATCH	standard eyecatcher
(0)	HALFWORD	2	CB_LENGTH	
(2)	CHARACTER	1	ARROW	
(3)	CHARACTER	3	DFH	
(6)	CHARACTER	2	DOMID	
(8)	CHARACTER	8	BLK_NAME	
(10)	ADDRESS	4	DSPXENT (0-7)	POST exit entry pts in DSAUT
(30)	ADDRESS	4	DSPXADD (0-7)	POST exit initial entry pts (in POST exit stubs in LPA)
(50)	CHARACTER	72	DSSREGSAV	savearea
(98)	FULLWORD	4	DSPSWAP	DONTSWAP count
(9C)	CHARACTER	1	* (0-7)	Byte array
	1...		DSPXENAB	bitstrip giving postexit enable & disable state
(A4)	CHARACTER	0	DSAUSB_END	end of ctl blk

```
DSAUTB. This is the TCB-local
       dispatcher authorized block. It is key 0, TCB-related
       lsqa, and is addressed by the CICS AFCB.
```

Table 111.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	104	DSAUTB	
(0)	CHARACTER	16	DSTEYECATCH	standard eyecatcher
(0)	HALFWORD	2	CB_LENGTH	
(2)	CHARACTER	1	ARROW	
(3)	CHARACTER	3	DFH	
(6)	CHARACTER	2	DOMID	
(8)	CHARACTER	8	BLK_NAME	
(10)	ADDRESS	4	DST_DS_TCB_ADDR	Addr of this TCB's DS_TCB
(14)	CHARACTER	72	DSTREGSAV	savearea
(5C)	ADDRESS	4	DSTPEXAD	temp for post exit addr

Table 111. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(60)	CHARACTER	8	DSTUSER_PARM	area to hold user parms
(60)	FULLWORD	4	REQUEST_TYPE	caller's request type - hold here for integrity
(64)	FULLWORD	4	PEX_NUM	caller's postexit num - hold here for integrity
(68)	CHARACTER	0	DSAUTB_END	end of ctl blk

```
Quickcell Page Allocation Maps.
The dispatcher quickcell mechanisms use page allocation maps
to implement the mapping from the cell tokens to the cell
addresses.
```

Table 112.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DS_CELL_PAM	
(0)	CHARACTER	16	EYE_CATCHER	eye catcher
(0)	HALFWORD	2	CB_LENGTH	Length of cb
(2)	CHARACTER	1	ARROW	> character
(3)	CHARACTER	3	DFH	DFH characters
(6)	CHARACTER	2	DOMID	DS for Dispatcher domain
(8)	CHARACTER	8	BLK_NAME	set to ctlblock name
(10)	ADDRESS	4	CELL_PAGE_MAP (*)	Array of page addresses

Table 113.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2064	DS_TASK_PAM	
(0)	CHARACTER	16	EYE_CATCHER	eye catcher
(0)	HALFWORD	2	CB_LENGTH	Length of cb
(2)	CHARACTER	1	ARROW	> character
(3)	CHARACTER	3	DFH	DFH characters
(6)	CHARACTER	2	DOMID	DS for Dispatcher domain
(8)	CHARACTER	8	BLK_NAME	set to ctlblock name
(10)	ADDRESS	4	TASK_PAGE_MAP (0-511)	Array of page addresses

Table 114.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1040	DS_SUSPEND_PAM	
(0)	CHARACTER	16	EYE_CATCHER	eye catcher
(0)	HALFWORD	2	CB_LENGTH	Length of cb
(2)	CHARACTER	1	ARROW	> character
(3)	CHARACTER	3	DFH	DFH characters
(6)	CHARACTER	2	DOMID	DS for Dispatcher domain
(8)	CHARACTER	8	BLK_NAME	set to ctlblock name
(10)	ADDRESS	4	SUSPEND_PAGE_MAP (0-255)	Array of page addresses

Table 115.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1040	DS_EXTENSION_PAM	
(0)	CHARACTER	16	EYE_CATCHER	eye catcher
(0)	HALFWORD	2	CB_LENGTH	Length of cb
(2)	CHARACTER	1	ARROW	> character
(3)	CHARACTER	3	DFH	DFH characters
(6)	CHARACTER	2	DOMID	DS for Dispatcher domain
(8)	CHARACTER	8	BLK_NAME	set to ctlblock name
(10)	ADDRESS	4	EXTENSION_ PAGE_MAP (0-255)	Array of page addresses

Constants

Table 116.

Len	Type	value	Name	Description
OPEN_POOL The open TCB pool control block. Open TCBs are kept in separate pools of disparate types of TCBs. For example, TCBs with JVMs (which are expensive to build) are kept separate from OPENAPI TCBs (eg. DB2 threads) so that they can be better protected. All TCBs of a given mode are in the same pool. The pool number for the mode is a parameter to ACTIVATE_MODE. Each pool is managed as a separate entity, with its own wait queue, internal stealing, and pool size (eg MAXOPENTCBS) parameter.				
2	DECIMAL	4	MAX_OPEN_POOLS	Max no. of open pools *
2	DECIMAL	100	HISTORY_TABLE_ ARRAY_SIZE	

Table 116. (continued)

Len	Type	value	Name	Description
UNEXTEND subroutine return code equates, used by the subroutine in DFHDSSUB, and its callers.				
4	DECIMAL	0	UNEX_OK	
4	DECIMAL	4	UNEX_NOT_EXTENDED	

DSTBA Task Browse Area

```
CONTROL BLOCK NAME = DFHDSTBA
DESCRIPTIVE NAME  = CICS Dispatcher task browse area

Restricted Materials of IBM

FUNCTION =
     This block indicates where a browse of the CICS tasks should
     resume. The block and task-within-block numbers are used
     to identify where in the chain of task pages we have reached
LIFETIME =
     Dispatcher Browse lifetime
STORAGE CLASS =
     Dispatcher Browse Subpool
LOCATION =
     Pointed to by Browse Token
INNER CONTROL BLOCKS = None
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS =
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
  Task Browse Area for dispatcher browse
```

Table 117.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	18	BROWSE_AREA	
(0)	CHARACTER	16	CELL_HEADER	Header
(0)	HALFWORD	2	LEN	Length of browse area
(2)	CHARACTER	1	ARROW	>
(3)	CHARACTER	13	NAME	DFHDSBROWSE
(10)	UNSIGNED	2	CELL_ID	1st half of token of next task *

DSTSK Dispatcher Domain Task Description

```
CONTROL BLOCK NAME = DFHDSTSK
DESCRIPTIVE NAME  = CICS Dispatcher Task Area

Restricted Materials of IBM

FUNCTION =
     The Task is the main control block associated with a CICS-
```

```
     dispatchable unit by the Dispatcher.
LIFETIME =
     ATTACH (DFHDSAT) to DETACH (DFHDSTCB after return from PUSH)
     Note TASKs are never freed by the Dispatcher but are instead
     managed by the DS quickcell routines.
STORAGE CLASS =
     MVS Subpool 0.
LOCATION =
     Chained off the DS Anchor on various TASKS Chains depending
     on State.
INNER CONTROL BLOCKS =
     EXTENSION. MVS ECB EXTENSION for WAIT_MVSs done by this task
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS =
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 118.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	384	TASK	
DTA - Dispatcher Task Area				
The default suspend/resume area for a task is imbedded within the task. By placing the suspend/resume area at the start of the task the standard_cell_fields for both the task and the suspend resume area will be at the start of dsect.				
(0)	CHARACTER	44	DEFAULT_ SUSPRES_AREA	
(0)	CHARACTER	8	CELL_HEADER	
(0)	ADDRESS	4	UNUSED_PTR	
(4)	UNSIGNED	4	CELL_TOKEN	
(4)	UNSIGNED	2	CELL_ID	
(6)	UNSIGNED	2	USE_COUNT	
(8)	CHARACTER	8	RESOURCE_TYPE	
(10)	CHARACTER	16	RESOURCE_NAME	
(20)	ADDRESS	4	STASK	
(24)	UNSIGNED	1	COMPLETION_CODE	
(25)	UNSIGNED	1	PURGE_TYPE	
(26)	CHARACTER	2	*	
(28)	UNSIGNED	4	SUSPEND_CS_WORD	
(28)	UNSIGNED	1	STATE	
(29)	CHARACTER	3	*	
The data at the start of the DTA is referenced in the dispatcher scans, and may be referenced not just when dispatching the DTA for this task, but also when considering dispatching other tasks.				

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Chaining fields for task There are many chains within the dispatcher, but only 2 chaining fields are required. The following shows which Chains are Mutualy Exclusive. Unused or Executable If a task is on the Executable chain, it can also be on ONE of the following chains. Dispatchable(s) (one per TCB) Hand_postable Executable chain = This is the list of all DS tasks. This chain is used by functions such as Timeout, that are interested in scanning sets of tasks rather than just selecting a task from the front of a list. Note that a task can be on other chains as well as this one. GENERAL_CHAIN = This is a chain field used for the following chains. 1. Free - Alias the 'Unused',or the 'Not in use' chain. All spellings are talking about the same thing ! The next chain is dealing with tasks that are ' ready '. Ie they are not suspended or waiting. 2. Dispatchable. - The List(s) of tasks that are waiting to be dispatched. 3. Hand_postable. - Tasks are put here when they issue a WAIT_OLDW or a WAIT_OLDC. The chain is scan to see if any ecbs for these tasks have been 'Hand Posted' by some program setting the post bit on in the ECB. All these fields are just straight forward ptrs to the next task in the chain.				
(2C)	ADDRESS	4	EXECUTABLE_NEXT	
(30)	ADDRESS	4	GENERAL_NEXT	
(34)	ADDRESS	4	HAND_POST_NEXT	
(38)	BIT(64)	8	TIMEOUT_TIME	0 or timeout expiry time
(38)	BIT(40)	5	TIMEOUT_STCK	STCK units timeout value rounded to nearest 1/4 second tick (only 34 bits needed to define a 1/4 second tick
(3D)	BIT(16)	2	*	Reserved
(3F)	UNSIGNED	1	TIMEOUT_INDEX	Index into stimer array

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	BIT(32)	4	CHAIN_FLAGS	
(40)	BIT(8)	1	CHAIN_FLAGS1	
	1...		HAND_POST_ IGNORE	ignore during hand_postable scan, this task logically removed from hand_postable chain.
	.1..		TEMP_HIGH_ PRIORITY	
				If this is set to YES give task temporary high priority boost on wakeup. Introduced to give LG defer task a boost on timer pop to stop it getting held up by normal traffic due to its potentially low priority.
	..11 1111		*	
(41)	BIT(8)	1	CHAIN_FLAGS2	Reserved
(42)	BIT(8)	1	CHAIN_FLAGS3	Reserved
(43)	BIT(8)	1	CHAIN_FLAGS4	Reserved
The data in the middle of the DTA is typically referenced each time this task is dispatched, or made dispatchable. This data is not usually referenced unless this task is dispatched, or about to be dispatched.				
State related fields that must be compared and swapped together				
(44)	UNSIGNED	4	CS_GROUP	
(44)	UNSIGNED	1	TASK_STATE	
(45)	UNSIGNED	1	PURGE_STATUS	
(46)	CHARACTER	2	*	
STCK fields must be on dword boundaries				
(48)	BIT(64)	8	DISPATCH_ PRIORITY	sort field for dispatch chains measured in store clock units *
(48)	CHARACTER	7	*	
(4F)	UNSIGNED	1	DISPATCH_ PRIORITY_BIN	

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				bin(8) if prtyage=0
(50)	BIT(64)	8	ENQUEUE_TIME	
	Time task was set to particular stat measured in store clock units			
(50)	UNSIGNED	4	ENQUEUE_ TIME_IN_SECS	
(58)	BIT(64)	8	PHS1_EXPIRY_TIME	PHS1 expiry time as STCK
	Pointers to related blocks			
(60)	ADDRESS	4	EXTENSION_ ADDRESS	addr of ds extension cell *
(64)	CHARACTER	4	KERNEL_TASKID	
	DFHDSATI inline macro.			
(68)	BIT(8)	1	TASK_MODE	TCB Affinity
	1-QR 2-RO 3-CO			
(69)	UNSIGNED	1	TYPE	System | Non_System
	1 System 2 Non_System System tasks are not subject to new task penalties.			
(6A)	BIT(8)	1	TASK_MISC_FLAGS	Odds and ends
	1...		SPECIAL_TYPE	special task
	.1..		SPECIAL_ TYPE_SMSY	SM special task SMSY
	..1.		SPECIAL_ TYPE_IMMEDIATE_ SHUTDOWN	
				immediate shutdown task
	...1		PURGEABLE	Does user expect purges?
	.... 1...		BATCH_REQD	Should TCB posts be patched? *
	.... .1..		DELAY_ACTIVE	delay task resumed ?
	.... ..1.		RETRY_REQUEST	continuation of old req
	1		DELAY_OVER_WAIT	Allow delay to cross partition exits
(6B)	UNSIGNED	1	PRIORITY	User Assigned Priority high=important *
	Data associated with Suspend/Wait			

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6C)	ADDRESS	4	WAIT_TOKEN	Not waiting/ suspended if this is 0. May contain ECBADDR, Suspend_token add ETC.
(70)	ADDRESS	4	ECBPARM	ECB or ECBLIST parm to WAIT
(74)	UNSIGNED	1	WAIT_TYPE	Type of WAIT,SUSPEND
1-OLDC 2-MVS 3-OLDW 4-SUSPEND				
(75)	UNSIGNED	1	ECBPARM_TYPE	indicates LIST or SINGLE *
1-SINGLE 2-LIST				
(76)	UNSIGNED	1	TIMEOUT_TYPE	interval/ deadlock
Data for communication with TCB task				
(77)	UNSIGNED	1	CURRENT_REQUEST	Current processing to be completed by TCB level code *
(78)	ADDRESS	4	CURRENT_TCB_DATA	pointer to TCB's DS data block
(7C)	ADDRESS	4	CURRENT_ PARM_LIST	pointer to domain call format
(80)	CHARACTER	0	MIDDLE_END	end of this section of DTA
The data at the end of the DTA is typically referenced infrequently, for example when a task is created or destroyed. Data should not be placed in this section of the DTA if it is referenced on every dispatch of the task.				
(80)	CHARACTER	8	DTA_XM_TXN	XM domain transaction token
(88)	BIT(64)	8	RETRY_SUSPEND_ START	
				time of last RETRYABLE suspend
(88)	UNSIGNED	4	RETRY_SUSPEND_ START_IN_SECS	
(90)	BIT(64)	8	PRIORITY_ TIME_FACTOR	
				priority part of above

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(98)	CHARACTER	8	DELAY_EXPIRED_ TIME	time con dsptch
(A0)	BIT(8)	1	GENERAL_FLAGS	
	1...		PULLED_ AND_RECOVERY_	SET
				Task was "pulled" from a non essential TCB that suffered a non-recoverable error. The task was the subject of a dfhkern recovery_set during the pull processing.
	.1..		DEFERRED_ ABEND_SET	
				Send deferred abend issued by the dispatcher
	..1.		RUNNING_ ON_L8_TCB	Task is on L8 TCB
(A1)	BIT(16)	2	KILL_FLAGS	Task purge flags
(A1)	BIT(8)	1	KILL_FLAG1	
	1...		KILL_ACCEPTED	Kill accepted
	.1..		KILL_ACCEPTED_ AGAIN	
				More than one kill command accepted
	..1.		KILL_SUSPEND_ PURGEABLE_ PROTECTED	
				Task being killed is in a non-purgeable suspend
	...1		KILL_SUSPEND_ KE_FORCE_ PURGE_PROTECTED	
				Task being killed is kernel force- purge protected
	.... 1...		KILL_SUSPEND_ KE_PURGE_ PROTECTED	

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Task being killed is kernel purge protected
	.... .1..		KILL_SUSPEND_SPURGE_PROTECTED	
				Task being killed is spurge protected
	11		*	Reserved
(A2)	BIT(8)	1	KILL_FLAG2	
	1...		KILL_CEKL_PURGE_REQUESTED	
				Purge requested by CEKL
	.1..		KILL_CEKL_FORCE_PURGE_REQUESTED	
				Force purge req by CEKL
	..1.		KILL_CEKL_KILL_REQUESTED	
				Kill requested by CEKL
	...1 1111		*	Reserved
(A3)	CHARACTER	1	*	alignment
(A4)	CHARACTER	4	DOMAIN_OWNER	Attaching Domain
(A8)	CHARACTER	4	REPLY_GATE	TASK_REPLY gate in OWNER for this task *
(AC)	CHARACTER	4	USER_TOKEN	Attachers name for task eg XM's TQE *
(B0)	BIT(64)	8	DTIMOUT	Deadlock timeout period for task in Store Clock units
(B8)	BIT(32)	4	ABTERM_PENDING_ECB	
Wait for ABTERM to end.				
(BC)	ADDRESS	4	DTA_DSMTS	MVS TCB stats block
(C0)	CHARACTER	8	CANCEL_DATA	Task cancel data

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C0)	UNSIGNED	2	CANCEL_COUNT	Count to identify task updated at same time as task USE_COUNT
(C2)	BIT(16)	2	CANCEL_FLAGS	Flag bytes
(C2)	BIT(8)	1	CANCEL_FLAG1	Flag byte 1
	1...		CANCEL_NORMAL	Normal cancel
	.1..		CANCEL_FORCE	Force cancel
	..1.		CANCEL_KILL	Kill cancel
	...1 1111		*	Reserved
(C3)	BIT(8)	1	CANCEL_FLAG2	Flag byte 2
(C4)	CHARACTER	4	CANCEL_ DEFERRED_ABEND	
				Cancel pending deferred abend
(C8)	CHARACTER	16	POST_RESUME_ WORKAREA	
				Post/resume workarea
(C8)	BIT(64)	8	POST_RESUME_ TASK_TIMEOUT	
				Task timeout time
(C8)	BIT(40)	5	POST_RESUME_ TASK_STCK	
				Task timeout STCK units to nearest 1/4 second tick
(CD)	BIT(16)	2	*	Reserved
(CF)	UNSIGNED	1	POST_RESUME_ TASK_INDEX	
				Stimer array element index
(D0)	BIT(64)	8	POST_RESUME_ STIMER_TIME	
				Stimer array element index for timeout time
(D0)	BIT(40)	5	POST_RESUME_ STIMER_STCK	
				Stimer element STCK units to nearest 1/4 second tick

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(D5)	BIT(8)	1	*	Reserved
(D6)	BIT(16)	2	POST_RESUME_ STIMER_COUNT	
				Stimer element count of waits and suspends
(D8)	CHARACTER	28	OPEN_TIMEOUT_ FIELDS	
				Open timeout fields
(D8)	BIT(64)	8	OPEN_WAIT_ START_TIME	
				Start of period when check executables found the task to be waiting or suspended
(E0)	BIT(64)	8	OPEN_CPU_ TIME_USED	
				Value of TCBTTIME for waiting/ suspended task at OPEN_WAIT_START_TIME
(E8)	UNSIGNED	4	TCB_SWITCH_ COUNT	Cumulative count of task attaches and TCB switches effecting this DS-task
(EC)	UNSIGNED	4	OPEN_WAIT_ START_TCB_ SWITCH_COUNT	
				Copy of TCB_SWITCH_COUNT at OPEN_WAIT_START_TIME
(F0)	BIT(8)	1	OPEN_TIMEOUT_ FLAGS	
				Open timeout flags
	1...		TIMEOUT_ FIELDS_SET	
				Timeout fields initialised for wait or suspend
	.1..		OPEN_PURGE_ INHIBITED	

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Purge inhibited
	..11 1111		*	Reserved
(F1)	CHARACTER	3	*	Reserved
(F4)	BIT(72)	9	TASK_STATE_SAVE	TASK_STATE save
(F4)	BIT(56)	7	TASK_STATE_DSTCB	DSTCB
(F4)	BIT(8)	1	TASK_STATE_DSTCB(1)	DSTCB TASK_STATE1
(F5)	BIT(8)	1	TASK_STATE_DSTCB(2)	DSTCB TASK_STATE2
(F6)	BIT(8)	1	TASK_STATE_DSTCB(3)	DSTCB TASK_STATE3
(F7)	BIT(8)	1	TASK_STATE_DSTCB(4)	DSTCB TASK_STATE4
(F8)	BIT(8)	1	TASK_STATE_DSTCB(5)	DSTCB TASK_STATE5
(F9)	BIT(8)	1	TASK_STATE_DSTCB(6)	DSTCB TASK_STATE6
(FA)	BIT(8)	1	TASK_STATE_DSTCB(7)	DSTCB TASK_STATE7
(FB)	BIT(16)	2	TASK_STATE_DSWKT	DSWKT
(FB)	BIT(8)	1	TASK_STATE_DSTCB(8)	DSWKT TASK_STATE8
(FC)	BIT(8)	1	TASK_STATE_DSTCB(9)	DSWKT TASK_STATE9
(FD)	CHARACTER 7	*	Reserved	
(104)	ADDRESS	4	LAST_USED_ TCB_IN_MODE (3)	
				for non-open multi-TCB modes,holds last used TCB of that mode
The following fields are used to manage open TCBs				
(110)	CHARACTER	60	OPEN_TCBS	
(110)	ADDRESS	4	AWAITED_DS_TCB	given to task awaiting TCB
(114)	CHARACTER	8	AWAIT_TIME	time task started wait for TCB
(11C)	BIT(32)	4	TYPES_USED	BITS 1 to 32: bit 33-n set if task used nth open type in... OPEN_DS_TCB array (above)

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(120)	ADDRESS	4	AWAITING_ OPEN_TCB_TOKEN	
				SUSPEND token assoc'd with AWAITING_OPEN_TCB chain
(124)	BIT(8)	1	OPEN_FLAGS	Flag byte
	1...		UNCLEAN	=1 if task set unclean
	.1..		ADD_SUSPEND_ ISSUED	
				for await tcb queue
	..11 11..		*	reserved
	.... ..1.		MVS_STORAGE_ WAIT	awaiting MVS storage
	1		AT_POOL_ LIMIT_WAIT	
				awaiting TCB at limit
(125)	CHARACTER	1	*	reserved for open TCBs
(126)	BIT(8)	1	SUSPEND_FOOTPRINT	Footprint SUSPEND
(126)	1...	DSTCB_CS_1	DFHDSTCB	
	.1...	DSTCB_CS_2	DFHDSTCB	
	..1.	DSTCB_CS_3	DFHDSTCB	
	...1	DSTCB_CS_4	DFHDSTCB	
	.... 1...	DSTCB_CS_5	DFHDSTCB	
	.... .1..	DSTCB_CS_6	DFHDSTCB	
	.... ..1.	DSTCB_CS_7	DFHDSTCB	
	1	*	reserved	
(127)	BIT(8)	1	RESUME_FOOTPRINT	Footprint RESUME
(127)	1...	DSWKT_CS_8	DFHDSWKT	
	.1..	DSWKT_CS_9	DFHDSWKT	
	..1.	DSSR_CS_10	DFHDSSR	
	...1 1111	*	reserved	
(128)	ADDRESS	4	AWAIT_CHAIN_FWD	await tcb queue - fwd ptr
(12C)	ADDRESS	4	OPEN_CHANGE_ MODE_PLIST	
				capture C_M plist

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!! NOTE. The following field is an array whose dimensions can change !! when new open TCB modes are introduced. Therefore !! it SHOULD BE KEPT AT THE END OF THE TASK BLOCK				
(130)	ADDRESS	4	OPEN_DS_TCB (7)	For each open TCB type: addr of task's open TCB
(14C)	CHARACTER	0	OPEN_DS_TCB_END	Stops assembler scan
(14C)	CHARACTER	0	TASK_END	
(14C)	CHARACTER	52	*	

```
  Suspend Resume:- Area Corresponding to a Suspend Token.
 Area. :-
SUSPEND_ RESUME_ AREA can have states of RESET|SUSPENDED|RESUMED
  UNUSED or PURGED
```

Table 119.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	44	SUSPEND_ RESUME_AREA	
(0)	CHARACTER	8	CELL_HEADER	
(0)	ADDRESS	4	UNUSED_PTR	
(4)	UNSIGNED	4	CELL_TOKEN	
(4)	UNSIGNED	2	CELL_ID	
(6)	UNSIGNED	2	USE_COUNT	
cell chaining fields, token etc				
(8)	CHARACTER	8	RESOURCE_TYPE	Res. type passed by caller
(10)	CHARACTER	16	RESOURCE_NAME	Res. name passed by caller
(20)	ADDRESS	4	STASK	Set when token is suspended
(24)	UNSIGNED	1	COMPLETION_CODE	Comp code from user
(25)	UNSIGNED	1	PURGE_TYPE	Why was task purged?
(26)	CHARACTER	2	*	
(28)	UNSIGNED	4	SUSPEND_CS_WORD	
(28)	UNSIGNED	1	STATE	state of S/R area *
(29)	CHARACTER	3	*	

```
  ECB extension. This block is pointed by the task (field
EXTENSION_ ADDRESS).
```

Table 120.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	EXTENSION	ecb extension
(0)	CHARACTER	8	CELL_FIELDS	quickcell management fields
(0)	ADDRESS	4	UNUSED_PTR	
(4)	UNSIGNED	4	CELL_TOKEN	
(4)	UNSIGNED	2	CELL_ID	
(6)	UNSIGNED	2	USE_COUNT	
(8)	CHARACTER	24	MVS_EXTENSION	actual ecb extension
(8)	UNSIGNED	1	EXT_VALUE	ECB extension VALUE byte
(9)	BIT(8)	1	EXT_MODE	ECB extension MODE byte
(A)	BIT(16)	2	EXT_RES	ECB extension RESERVED field *
(C)	ADDRESS	4	EXT_POSTEXIT	ECB extension POST EXIT addr *
(10)	CHARACTER	12	EXT_USER	ECB extension user area
(10)	ADDRESS	4	EXT_THISTASK	ECB extension owning task addr *
(14)	UNSIGNED	4	EXT_STATUS	ECB extension status - see below for values
The POST routine DFHDSCPX relies on the following field EXT_CHEAPEXIT being at offset X'10' in this control block DO NOT CHANGE IT !!!!!!!!!				
(18)	UNSIGNED	4	EXT_CHEAPEXIT	Addr of CHEAP POST EXIT
(1C)	UNSIGNED	4	*	Reserved

Constants

Table 121.

Len	Type	value	Name	Description
NBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNB NB NB NB The module prolog for DFHDSTSK is found immediately before NB NB the level 1 declare for the TASK. This is so that the NB NB PLASMAP formatting routine generates the data area's book NB NB correctly. NB NB NB NBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNBNB Enumerated Data types for Task fields TYPE_OF_TASK is SYSTEM|NON_SYSTEM				

Table 121. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	SYSTEM	
1	DECIMAL	2	NON_SYSTEM	
TIMEOUT_TYPE IS INTERVAL|DEADLOCK_DELAYED|DEADLOCK_IMMEDIATE				
1	DECIMAL	1	INTERVAL	
1	DECIMAL	2	DEADLOCK_DELAYED	
1	DECIMAL	3	DEADLOCK_IMMEDIATE	
PURGE_STATUS is OK|PURGE_PENDING|PURGED|ABTERM_PENDING				
1	DECIMAL	1	PURGE_PENDING	
1	DECIMAL	171	ABTERM_PENDING	
WAIT_TYPE is OLDC|MVS|OLDW|SUSPEND				
1	DECIMAL	1	OLDC	
1	DECIMAL	2	MVS	
1	DECIMAL	3	OLDW	
1	DECIMAL	4	SUSPEND	
ECB_TYPE is LIST|SINGLE				
1	DECIMAL	1	ECB_SINGLE	
1	DECIMAL	2	ECB_LIST	
TASK_STATE is UNUSED|NON_EXECUTABLE|DISPATCHABLE| RUNNING_ABTERM_ALLOWED|RUNNING_ABTERM_NOT_ALLOWED| SUSPENDED|RESUMED|RESUMED_EARLY				
1	DECIMAL	2	RUNNING_ABTERM_ NOT_ALLOWED	
1	DECIMAL	3	DISPATCHABLE	
1	DECIMAL	4	RUNNING_ABTERM_ ALLOWED	
1	DECIMAL	5	RESUMED_EARLY	
CURRENT_REQUEST IS DETACH SLEEP OR REQUEUE.				
1	DECIMAL	1	DETACH	
1	DECIMAL	2	SLEEP	
1	DECIMAL	3	REQUEUE	
TASKS_IN_BLOCK is the number of tasks that fit in a page of storage				
4	DECIMAL	10	TASKS_IN_BLOCK	
No. of elements in task's array of last used non-open multi-TCB mode TCBs				
2	DECIMAL	3	MAX_NON_OPEN_ MULTI_TCB_MODES	
8	HEX	0000000080000000	TEMP_HIGH_ PRIORITY_BOOST	
This is used to give the task a temporary boost on wakeup if TEMP_HIGH_PRIORITY is on				

Table 121. (continued)

Len	Type	value	Name	Description
8	HEX	FFFFFFFF7FFFFFFF	TEMP_HIGH_PRIORITY_MASK	
4	DECIMAL	82	SUSPEND_RESUME_AREAS_IN_BLOCK	
				*
The following constants describe the values taken by the ecb extension status field, EXT_STATUS. Note that the field is changed via Compare-and-swap				
4	DECIMAL	0	EXT_ST_UNUSED	Unused
4	DECIMAL	1	EXT_ST_EXTEND	Started to extd ecbs
4	DECIMAL	2	EXT_ST_EXIT_RAN	POSTEXIT ran before extending complete
4	DECIMAL	3	EXT_ST_EXT_COMPL	Extending complete
EXTENSIONS_IN_BLOCK = number of exts that fit in a page of storage				
4	DECIMAL	124	EXTENSIONS_IN_BLOCK	

DTCPS Data Tables Connection Anchor Blocks

DTCHD_BLOCK, the Data Tables Connect Header Block, is allocated once per region which has performed client initialization processing to allow connections to other regions. It is addressed via the region anchor. It contains information used by the supervisor routines which establish and validate connections to files associated with data tables in server regions.

Table 122.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	544	DTCHD_BLOCK	DT Connect Header block
(0)	CHARACTER	16	DTCHD_PREFIX	Standard CICS prefix
(0)	HALFWORD	2	DTCHD_LEN	Length of connect anchor
(2)	CHARACTER	1	DTCHD_ARROW	Eye catcher '>'
(3)	CHARACTER	5	DTCHD_DFHDT	Eye catcher 'DFHDT'
(8)	CHARACTER	8	DTCHD_ID	Eye catcher 'CONNECT'
(10)	CHARACTER	8	DTCHD_VECTOR_DESC	Connect vector descriptor
(10)	ADDRESS	4	DTCHD_VECTOR_PTR	Address of connect vector
(14)	FULLWORD	4	DTCHD_VECTOR_SIZE	Total connect vector entries

Table 122. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	FULLWORD	4	DTCHD_VECTOR_HI_ACTIVE_INDEX	
				Highest index for which current DTCON_COUNT is non-zero - never less than true value but might be more
(1C)	ADDRESS	4	DTCHD_CALLER_RB	Address of RB which issued initialization call, checked against RB issuing CONNECT, DISCONNECT or record retrieval requests
(20)	BIT(4096)	512	DTCHD_LX_MAP	Bit map indexed by LX 0-4095 indicating whether ETCON has been performed for a server region using that LX value

```
DTCON_VECTOR, the Data Tables Connect Vector, is effectively a
variable length extension of the Connect Header Block, but it is
stored separately to allow it to be reallocated at a larger size
if necessary. It contains information used to establish and
validate cross-memory connections to data tables.
```

Table 123.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	DTCON_VECTOR (*)	Data Tables Connect Vector
(0)	FULLWORD	4	DTCON_COUNT	Number of valid connections to the remote file instance identified by this entry
(4)	UNSIGNED	2	DTCON_ASID	Target address space id - for diagnostic purposes only
(6)	CHARACTER	10	DTCON_INFO	Coded connection information which is used for retrieval

Table 123. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6)	UNSIGNED	2	DTCON_LX	PC linkage index
(8)	UNSIGNED	4	DTCON_FILE_ REUSE	Server file reuse counter
(C)	ADDRESS	4	DTCON_FILE_ TOKEN	Server file block address
(10)	CHARACTER	8	DTCON_APPLID	Server region CICS APPLID - for diagnostic purposes only
(18)	CHARACTER	8	DTCON_FILE_NAME	File name in server region - for diagnostic purposes only

DTLPS Data Tables Local Access Anchor Blocks

```
DTHDR_BLOCK, the Data Tables Header Block, is a unique CICS
lifetime block which is getmained by CICS data tables
initialization and referenced by CICS data tables loading and
record access services. It contains heads of chains and other
information which occurs once per CICS region, plus a storage
area which is used by the record retrieval module DFHDTRE for
its working storage.
```

Table 124.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DTHDR_BLOCK	Header Block
(0)	CHARACTER	16	DTHDR_PREFIX	Standard CICS prefix
(0)	HALFWORD	2	DTHDR_LEN	Length of header block
(2)	CHARACTER	1	DTHDR_ARROW	Eye catcher '>'
(3)	CHARACTER	5	DTHDR_DFHDT	Eye catcher 'DFHDT'
(8)	CHARACTER	8	DTHDR_ID	Eye catcher 'HEADER'
(10)	ADDRESS	4	DTHDR_DTFOR_EP	DFHDTFOR module entry point for diagnostic purposes
(14)	ADDRESS	4	DTHDR_RECMAN_EP	Record manager entry point (DFHDTRM, loaded to address)
(18)	CHARACTER	16	DTHDR_TABLE_INFO	Table block information
(18)	ADDRESS	4	DTHDR_TABLE_ HEAD	Head of active table chain

Table 124. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	ADDRESS	4	DTHDR_TABLE_POOL	Table block cell pool id
(20)	ADDRESS	4	DTHDR_TABLE_FREE	Head of free chain
(24)	FULLWORD	4	DTHDR_TABLE_COUNT	Number of blocks in use
(28)	CHARACTER	20	DTHDR_FILE_INFO	File block information
(28)	ADDRESS	4	DTHDR_FILE_HEAD	Head of active file chain
(2C)	ADDRESS	4	DTHDR_FILE_POOL	File block cell pool id
(30)	ADDRESS	4	DTHDR_FILE_FREE	Head of free chain
(34)	FULLWORD	4	DTHDR_FILE_COUNT	Number of blocks in use
(38)	FULLWORD	4	DTHDR_MAX_ATTRS_LEN	
				File attribute suffix size
(3C)	FULLWORD	4	DTHDR_LOAD_ID	Unique identifier which is allocated to each table load task, always contains the most recently allocated id
(40)	ADDRESS	4	DTHDR_BACKOUT_POOL	Backout cell pool id
(44)	ADDRESS	4	DTHDR_ENTRY_ALET_PTR	
				Address of entry data space ALET and data space index within data space entry
(48)	ADDRESS	4	DTHDR_DATA_SPACE_PTR	
				Address of data space block
(4C)	ADDRESS	4	DTHDR_INDEX_ALET_PTR	
				Address of index data space ALET and data space index within data space entry

Table 124. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	CHARACTER	*	DTHDR_RE_WORK	DFHDTRE working storage

```
At Data Tables FOR initialization, DFHDTINS getmains and
initializes DTDUM_BLOCK. This block represents a dummy table
and must always overlay the first part of DTTBL_BLOCK so that
the pointer to the header block is at the same offset in both
control blocks. Its address is passed in DTP_TABLE_TOKEN
whenever DFHDTUP is called for a commit/backout request, and it
allows commit and backout to find the header block.
```

Table 125.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	DTDUM_BLOCK	Dummy recovery blk
(0)	CHARACTER	24	DTDUM_PREFIX	Standard CICS prefix
(0)	HALFWORD	2	DTDUM_LEN	Length of table block
(2)	CHARACTER	1	DTDUM_ARROW	Eye catcher '>'
(3)	CHARACTER	5	DTDUM_DFHDT	Eye catcher 'DFHDT'
(8)	CHARACTER	8	DTDUM_ID	Eye catcher 'DUMMY'
(10)	CHARACTER	8	DTDUM_NAME	Unused, matches table block
(18)	CHARACTER	8	DTDUM_CHAIN	Unused, matches table block
(18)	ADDRESS	4	DTDUM_NEXT	Unused, matches table block
(1C)	UNSIGNED	4	DTDUM_CHANGES	Unused, matches table block
(20)	ADDRESS	4	DTDUM_HEADER_PTR	Pointer back to header block

```
DTTBL_BLOCK, the DT Table Block, is the control block which
describes a table and its associated index and record storage.
The first few fields should never be moved without also changing
DTDUM_BLOCK, because the pointer to the header block must remain
at the same offset in both.
```

Table 126.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	232	DTTBL_BLOCK	Data Tables Table Block
(0)	CHARACTER	24	DTTBL_PREFIX	Standard CICS prefix
(0)	HALFWORD	2	DTTBL_LEN	Length of table block
(2)	CHARACTER	1	DTTBL_ARROW	Eye catcher '>'

Table 126. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	CHARACTER	5	DTTBL_DFHDT	Eye catcher 'DFHDT'
(8)	CHARACTER	8	DTTBL_ID	Eye catcher 'TABLE'
(10)	CHARACTER	8	DTTBL_NAME	Name of file which initiated the creation of the table
(18)	CHARACTER	8	DTTBL_CHAIN	Align for block-concurrent fetch so change count can be used to validate chain field
(18)	ADDRESS	4	DTTBL_NEXT	Next in active or free chain or zero at end of chain
(1C)	UNSIGNED	4	DTTBL_CHANGES	Counter updated whenever a change is made to the table state or table contents, and also when the block is freed
(20)	ADDRESS	4	DTTBL_HEADER_PTR	Pointer back to header block
(24)	BIT(8)	1	DTTBL_FLAGS	Table type and state flags
	1...		DTTBL_CMT	On if CICS maintained table, Off if user maintained (UMT)
	.1..		DTTBL_RECOVERABLE	Table is a recoverable UMT
	..1.		DTTBL_INCOMPLETE	One or more gaps in table (CMT only)
	...1		DTTBL_LOAD_EOF	Set by the END_LOAD service when loader has reached EOF

Table 126. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		DTTBL_LOAD_GAP	The previous record was discarded during loading, so the next accepted record will need a gap before it
	.... .1..		DTTBL_LOAD_DISC	A record with a key above the highest loaded key was discarded since the previous loading request, so a gap is needed if the next loaded record has a higher key
	.... ..1.		DTTBL_ADD_GAP	Within add processing, this indicates whether the entry is being added within a gap
	1		*	Reserved
(25)	BIT(8)	1	DTTBL_T_FLAGS	Table shared access flags
	1...		DTTBL_AVAILABLE	Table available for access. Set when table reaches a stage at which it is available for shared access (for a CMT - when the load load has been initiated, for a UMT - at completion of loading). Never turned off again until table is closed.
	.111 1111		*	Reserved
(26)	HALFWORD	2	DTTBL_DATA_USED_LO	Data size used modulo 1K
(28)	FULLWORD	4	DTTBL_FILE_COUNT	Number of associated files
(2C)	ADDRESS	4	DTTBL_DSNAME_PTR	Source data set name pointer

Table 126. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	FULLWORD	4	DTTBL_DSNAME_LEN	Length of data set name
(34)	FULLWORD	4	DTTBL_LOAD_ID	Identifying counter of the valid loading task for this table
(38)	CHARACTER	16	DTTBL_STATS	External statistics about internal (loading) requests
(38)	UNSIGNED	4	DTTBL_LOAD_ COUNT	Requests to load a record
(3C)	UNSIGNED	4	DTTBL_REJECT_ COUNT	
				Loads rejected by user exit
(40)	UNSIGNED	4	DTTBL_FULL_ COUNT	Loads failed due to full tbl
(44)	UNSIGNED	4	DTTBL_ENTRY_HWM	Entry count high water mark
(48)	FULLWORD	4	DTTBL_KEY_LEN	Length of record key
(4C)	FULLWORD	4	DTTBL_KEY_OFFSET	Offset of key within record
(50)	FULLWORD	4	DTTBL_MAX_RECLEN	Maximum record length
(54)	ADDRESS	4	DTTBL_LOAD_ HIGH_KEY	
				Address of copy of highest key accepted during loading, which must be changed only by switching the pointer to a new copy, to allow for concurrent read access
(58)	ADDRESS	4	DTTBL_LOAD_ DISC_KEY	

Table 126. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Address of copy of lowest discarded key above previous highest loaded key (valid if discarded key flag is set), also used as alternate area for highest loaded key area, swapped over at each change
(5C)	CHARACTER	16	DTTBL_ENTRY_INFO	Entry information, primarily for record manager DFHDTRM
(5C)	ADDRESS	4	DTTBL_ENTRY_ALET_PTR	
				Table entry ALET pointer
(60)	ADDRESS	4	DTTBL_ENTRY_POOL	Record entry pool token
(64)	FULLWORD	4	DTTBL_ENTRY_COUNT	Number of entries in use
(68)	FULLWORD	4	DTTBL_ENTRY_LIMIT	Limit specified for table
(6C)	CHARACTER	12	DTTBL_ADD_SAVE	Temporary saved position within add processing while locating the previous record
(6C)	UNSIGNED	4	* (3)	Position needs 3 fullwords
(78)	CHARACTER	20	DTTBL_INDEX_INFO	Index information, primarily for index manager DFHDTIX
(78)	ADDRESS	4	DTTBL_INDEX_ROOT	Root node for index tree
(7C)	ADDRESS	4	DTTBL_INDEX_ALET_PTR	
				Index storage ALET pointer
(80)	ADDRESS	4	DTTBL_INDEX_POOL	Index cell pool token
(84)	FULLWORD	4	DTTBL_INDEX_COUNT	Index cells in use

Table 126. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	FULLWORD	4	DTTBL_INDEX_HWM	High water index cells
(8C)	CHARACTER	44	DTTBL_DATA_INFO	Data storage and data space information, primarily for DFHDTDM and DFHDTDA. Note that frame and segment pointers are represented as an address value (which is a multiple of 4K) plus a data space index in the low 12 bits
(8C)	FULLWORD	4	DTTBL_DATA_ ALET_STEP	
				Element spacing for ALET array within data space entry array, which can be multiplied by data space index to give offset of ALET from array origin
(90)	ADDRESS	4	DTTBL_DATA_ ALET_ORIGIN	
				Origin (address of entry zero) for ALET array within data space entry array, used to look up ALET given data space index value
(94)	ADDRESS	4	DTTBL_DATA_HEAD	Head of data frame chain (plus data space index)
(98)	FULLWORD	4	DTTBL_DATA_ FRAME	Size of each frame

Table 126. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9C)	ADDRESS	4	DTTBL_DATA_START	Address (plus data space index) of segment which contains the current vector being used to track segments allocated to this table
(A0)	ADDRESS	4	DTTBL_DATA_NEXT	Next unallocated frame within latest segment (plus data space index)
(A4)	ADDRESS	4	DTTBL_DATA_END	End of current frame area within latest segment (plus data space index)
(A8)	FULLWORD	4	DTTBL_DATA_USED	Total data storage in use in units of 1K bytes
(AC)	ADDRESS	4	DTTBL_DATA_FREE	Head of free frame chain (plus data space index)
(B0)	FULLWORD	4	DTTBL_DATA_COUNT	Number of data areas in use
(B4)	FULLWORD	4	DTTBL_DATA_HWM	High water data area count
(B8)	FULLWORD	4	DTTBL_RETRY_COUNT	Shared read retry count
---------- The next field should always be addressed indirectly using DTTBL_DSNAME_PTR except when it is first set up. This allows new fields to be added in front of it, and means that it can be removed if it becomes unnecessary to store the DSN in the table. ----------				
(BC)	CHARACTER	44	DTTBL_DSNAME	Source data set name

```
DTFIL_BLOCK is a data tables file block. There is one such
block for every UMT, and one for each file resource that refers
to a source data set where one of the files is defined as a CMT.
```

Table 127.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DTFIL_BLOCK	Data Tables File Block
(0)	CHARACTER	24	DTFIL_PREFIX	Standard CICS prefix

Table 127. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	DTFIL_LEN	Length including attributes
(2)	CHARACTER	1	DTFIL_ARROW	Eye catcher '>'
(3)	CHARACTER	5	DTFIL_DFHDT	Eye catcher 'DFHDT'
(8)	CHARACTER	8	DTFIL_ID	Eye catcher 'FILE'
(10)	CHARACTER	8	DTFIL_NAME	File resource name
(18)	CHARACTER	8	DTFIL_CHAIN	Align for block-concurrent fetch so reuse count can be used to validate chain field
(18)	ADDRESS	4	DTFIL_NEXT	Next in active or free chain or zero at end of chain
(1C)	UNSIGNED	4	DTFIL_REUSE_ COUNT	Allocate and release count - odd when file block is in the active file chain (i.e. DTFIL_NEXT is valid for an active chain scan)
(20)	ADDRESS	4	DTFIL_TABLE_PTR	Pointer to table block
(24)	BIT(8)	1	DTFIL_FLAGS	File-related status flags

```
------------------------------------------------------------
-- Shared access to a file uses the DTFIL_ENABLED and
DTFIL_CONTINUE flags. DTFIL_ENABLED flag on means file
enabled for new requests. This flag is tested on shared
access when the request specifies TEST_ENABLE, but is
ignored otherwise. The feature should never set this flag to
disabled unless it knows from file control that the file
really is disabled. The flag is therefore set ON when the
file is opened, and reset to ON or OFF on a SET_ENABLEMENT
call. If the flag is OFF then new requests will fail with a
DISABLED exception. DTFIL_CONTINUE flag on means old
requests can continue. When this flag is ON, existing
requests to the file can continue. If the flag is OFF then
all requests will fail with a DISABLED exception, regardless
of whether or not they are continuations of existing
requests (which do not test DTFIL_ENABLED). This flag will
always be ON unless a FORCE DISABLE is issued, when it will
be set to OFF. A subsequent ENABLE request will turn it back
on. The flag is set ON when the file block is opened. ------
------------------------------------------------------------
```

Table 127. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		DTFIL_ENABLED	Enabled for new requests
	.1..		DTFIL_INITIATOR	File initiated the table
	..1.		DTFIL_CONTINUE	Old requests can continue
	...1 1111		*	Reserved
(25)	BIT(8)	1	DTFIL_A_FLAGS	File shared access flags
	1...		DTFIL_AVAILABLE	Available for shared access. When set, file is visible. Set on once the enablement state of the file is known, never turned off until the file is closed.
	.111 1111		*	Reserved
(26)	CHARACTER	2	*	Reserved for alignment
(28)	FULLWORD	4	DTFIL_ATTRS_LEN	Length of attributes package
(2C)	CHARACTER	*	DTFIL_ATTRS	Saved file attributes

DTRPS Data Tables Remote Sharing Anchor Block

```
DTRHD_BLOCK, the Data Tables Remote Header Block, is a unique
CICS lifetime block which is getmained by CICS data tables
remote initialization. It contains information which occurs
once per application region which has connections to shared data
tables in other regions. In the current implementation, this
only consists of a pointer used for diagnostic purposes.
```

Table 128.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	DTRHD_BLOCK	Remote Header Block
(0)	CHARACTER	16	DTRHD_PREFIX	Standard CICS prefix
(0)	HALFWORD	2	DTRHD_LEN	Length of remote header
(2)	CHARACTER	1	DTRHD_ARROW	Eye catcher '>'
(3)	CHARACTER	5	DTRHD_DFHDT	Eye catcher 'DFHDT'
(8)	CHARACTER	8	DTRHD_ID	Eye catcher 'REMHEAD'

Table 128. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	ADDRESS	4	*	Reserved for future use
(14)	ADDRESS	4	DTRHD_DTAOR_ED	DFHDTAOR module entry point for diagnostic purposes

DTSPS Data Tables SVC Routine Anchor Blocks

```
DTSYS_ANCHOR, the Data Tables System Anchor, is allocated once
within an MVS image. It primarily provides an anchor point to
enable code running in one address space to find out about data
table servers running in other address spaces.
Each region using data tables initially accesses the system
anchor via the internal CICS QSSCT chain starting at SSCTSUS2
in the "CICS" SSCVT, then saves the address in the region anchor
for subsequent use. The address also appears in the server
element for use by the EOM RESMGR routine.
```

Table 129.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	DTSYS_ANCHOR	Data Tables System Anchor
(0)	CHARACTER	16	DTSYS_PREFIX	Standard CICS prefix
(0)	HALFWORD	2	DTSYS_LEN	Length of system anchor
(2)	CHARACTER	1	DTSYS_ARROW	Eye catcher '>'
(3)	CHARACTER	5	DTSYS_DFHDT	Eye catcher 'DFHDT'
(8)	CHARACTER	8	DTSYS_ID	Eye catcher 'SYSTEM'
(10)	CHARACTER	8	DTSYS_ACTIVE_CLOCK	STCK value updated when files become available for shared access
(18)	ADDRESS	4	DTSYS_SERVER_HEAD	Head of active server chain
(1C)	UNSIGNED	4	DTSYS_CONNECTS_IN_FLIGHT	
				Number of in-flight CONNECT requests in this MVS image that cannot tolerate termination of their server

```
DTRGN_ANCHOR, the Data Tables Region Anchor, is allocated once
per region which is using shared data tables support, and is
located via AFDTRGNP for the appropriate CICS QR TCB. It
provides a common anchor for the data areas used by supervisor
code for data tables server and connection processing. Note
that the offset of DTRGN_LOOKUP_EP is relied on by code outside
the SVC routine, and must remain fixed for any new version.
```

Table 130.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	76	DTRGN_ANCHOR	Data Tables Region Anchor
(0)	CHARACTER	16	DTRGN_PREFIX	Standard CICS prefix
(0)	HALFWORD	2	DTRGN_LEN	Length of region anchor
(2)	CHARACTER	1	DTRGN_ARROW	Eye catcher '>'
(3)	CHARACTER	5	DTRGN_DFHDT	Eye catcher 'DFHDT'
(8)	CHARACTER	8	DTRGN_ID	Eye catcher 'REGION'
(10)	ADDRESS	4	DTRGN_SYSTEM_PTR	Address of system anchor
(14)	CHARACTER	12	DTRGN_CONNECT_INFO	Connected region information
(14)	ADDRESS	4	DTRGN_REMOTE_PTR	Remote header block address set from global token passed on remote initialization
(18)	ADDRESS	4	DTRGN_LOOKUP_EP	Connect vector look-up entry point (DFHDTCV in ECSA) - CAUTION - THIS OFFSET MUST NOT CHANGE - see preceding block comment.
(1C)	ADDRESS	4	DTRGN_CONNECT_PTR	Connect block address, set up at remote initialization
(20)	CHARACTER	44	DTRGN_SERVER_INFO	Server region information
(20)	ADDRESS	4	DTRGN_HEADER_PTR	Local header block address, set from global token passed on local initialization

Table 130. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	ADDRESS	4	DTRGN_RECMAN_EP	Record manager entry point, loaded during server initialization
(28)	ADDRESS	4	DTRGN_SERVER_PTR	Server element address, set during server logon
(2C)	UNSIGNED	4	DTRGN_EOM_TOKEN	EOM RESMGR token
(30)	CHARACTER	8	DTRGN_HOME_STOKEN	Home address space STOKEN
(38)	ADDRESS	4	DTRGN_ALET_LIST_PTR	
				Start of first section of list of PASN ALETs added by DTSVC, for DELETE validation
(3C)	ADDRESS	4	DTRGN_EXIT_WORKA_PTR	
				Address of work area for SYNCH exit to issue trial ALESERV for STOKEN checks
(40)	BIT(8)	1	DTRGN_FLAGS	Flag byte
	1...		DTRGN_TRANSWAP	SYSEVENT TRANSWAP was done
	.1..		DTRGN_EOM_RESMGR_DELETE_ACTIVE	
				EOM RESMGR DELETE might be in progress
	..11 1111		*	Reserved
(41)	CHARACTER	3	*	Reserved for alignment
(44)	FULLWORD	4	DTRGN_DTAM_LENGTH	Length of DFHDTAM, set if CICS has loaded DTAM, zero if it is in the LPA

Table 130. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	ADDRESS	4	DTRGN_DTAM_ ORIGIN	Origin of DFHDTAM in storage, set if CICS has loaded DTAM, zero if it is in the LPA

```
DTSRV_ELEMENT, a Data Tables Server element, is created in ECSA
when a server region logs on. Its address is stored in the
region anchor, and when it is active it can be located from
other address spaces via a chain from the the system anchor. It
contains the information needed to connect to an active server
from another address space.
```

Table 131.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	DTSRV_ELEMENT	Data Tables Server Element
(0)	CHARACTER	24	DTSRV_PREFIX	Standard CICS prefix
(0)	HALFWORD	2	DTSRV_LEN	Length of block
(2)	CHARACTER	1	DTSRV_ARROW	Eye catcher '>'
(3)	CHARACTER	5	DTSRV_DFHDT	Eye catcher 'DFHDT'
(8)	CHARACTER	8	DTSRV_ID	Eye catcher 'SERVER'
(10)	CHARACTER	8	DTSRV_APPLID	Server generic CICS APPLID
(18)	ADDRESS	4	DTSRV_NEXT	Chain to next, zero if last
(1C)	ADDRESS	4	DTSRV_SYSTEM_PTR	Address of system anchor - Zero if this server element is neither in the active chain nor being used by any in-flight CONNECT requests
(20)	UNSIGNED	2	DTSRV_ASID	Server address space id
(22)	UNSIGNED	2	DTSRV_LX	Server PC linkage index - 1st bit is 1 if this server does not currently own an LX
(24)	UNSIGNED	4	DTSRV_ET_TOKEN	Server PC entry table token
(28)	ADDRESS	4	DTSRV_SEC_EP	Connect security entry point

Table 131. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	ADDRESS	4	DTSRV_SEC_TOKEN	Connect security block token - Zero if this server is not enforcing file security
(30)	FULLWORD	4	DTSRV_DTAM_ LENGTH	Length of DFHDTAM, set if CICS has loaded DTAM, zero if it is in the LPA
(34)	ADDRESS	4	DTSRV_DTAM_ ORIGIN	Origin of DFHDTAM in storage, set if CICS has loaded DTAM, zero if it is in the LPA

DTXPS Data Tables Security Anchor Block

```
DTSEC_BLOCK, the Data Tables Security Block, is allocated in
ECSA by connect security initialization, called during server
logon processing. It contains information from the server
address space which will be needed for security checks at
connect time, when the server private region is not accessible.
It is pointed to by the security token in the server element.
```

Table 132.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	DTSEC_BLOCK	Data Tables Security Block
(0)	CHARACTER	16	DTSEC_PREFIX	Standard CICS prefix
(0)	HALFWORD	2	DTSEC_LEN	Length of security block
(2)	CHARACTER	1	DTSEC_ARROW	Eye catcher '>'
(3)	CHARACTER	5	DTSEC_DFHDT	Eye catcher 'DFHDT'
(8)	CHARACTER	8	DTSEC_ID	Eye catcher 'SECURITY'
(10)	CHARACTER	8	DTSEC_SERVER_ USERID	
				Security userid for server region, binary zero if none
(18)	CHARACTER	8	DTSEC_DEFAULT_ USERID	
				Server region default userid

Table 132. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	CHARACTER	9	DTSEC_RESNAME_ PREFIX	
				Resource name prefix including final '.'
(29)	UNSIGNED	1	DTSEC_RESNAME_ PREFIX_LENGTH	
				Length of resource name prefix, zero if none
(2A)	UNSIGNED	1	*	Reserved
(2B)	UNSIGNED	1	DTSEC_FC_ CLASS_NAME_LENGTH	
				Length of security class name for server's files
(2C)	CHARACTER	8	DTSEC_FC_ CLASS_NAME	
				Security class name for server's files

DUFC Dump Formatting Communication Area *O7C

```
Dump formatting communication area.
```

Table 133.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	124	DUF_COM	
(0)	ADDRESS	4	DUF_PRDMP_ PARMLIST_PTR	
(4)	ADDRESS	4	DUF_AFCB_PTR	
(8)	ADDRESS	4	DUF_GBUFFERP	
(C)	ADDRESS	4	*	
(10)	ADDRESS	4	DUF_DOMAIN_ TABLE_PTR	
(14)	BIT(8)	1	*	
	1...		DUF_UPPERCASE_ REQ	
	.111 1111		*	
(15)	CHARACTER	3	*	
(18)	FULLWORD	4	DUF_GBUFFERLEN	
(1C)	FULLWORD	4	*	unused
(20)	FULLWORD	4	*	unused

Table 133. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	FULLWORD	4	*	unused
(28)	CHARACTER	64	DUF_NDX_HEAD	
(68)	ADDRESS	4	DUF_NDX_FREEHEAD	
(6C)	ADDRESS	4	DUF_ERB_IHEAD	
(70)	ADDRESS	4	DUF_ERB_IFREE	
(74)	ADDRESS	4	DUF_ERB_EHEAD	
(78)	ADDRESS	4	DUF_ERB_EFREE	
(7C)	CHARACTER	0	*	

`Domain table.`

Table 134.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	180	DUF_DOMAIN_TABLE	
(0)	ADDRESS	4	DUF_DOMAIN_ ANCHOR (45)	

`Control block index entry.`

Table 135.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	NDX	
(0)	ADDRESS	4	NDX_NEXT	-> next in address order
(4)	ADDRESS	4	NDX_NEXT2	-> next in name order
(8)	BIT(64)	8	NDX_BLOCK_ ADDRESS64	
(8)	ADDRESS	4	NDX_BLOCK_ ADDRHIGH	
(C)	ADDRESS	4	NDX_BLOCK_ ADDRESS	
(10)	FULLWORD	4	NDX_BLOCK_LENGTH	
(14)	FULLWORD	4	NDX_PAGE_NUMBER	
(18)	CHARACTER	25	NDX_BLOCK_NAME	name.resource
(31)	CHARACTER	15	*	reserved
(40)	CHARACTER	0	*	

`TMP Browse Block.`

Table 136.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	TBB	
(0)	CHARACTER	4	TBB_EYECATCHER	

Table 136. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	CHARACTER	4	*	
(8)	BIT(64)	8	TBB_DIR_ ELEMENT_ADDRESS64	
(8)	CHARACTER	4	*	
(C)	ADDRESS	4	TBB_DIR_ ELEMENT_ADDRESS	

```
Error index block.
```

Table 137.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	264	ERB	
(0)	ADDRESS	4	ERB_NEXT	-> next error block
(4)	FULLWORD	4	ERB_INDEX	number in this block
(8)	FULLWORD	4	ERB_PAGE_NUMBER (64)	page number array

Constants

Table 138.

Len	Type	value	Name	Description
4	CHARACTER	>TBB	TBB_EYECATCHER_ VALUE	

DUFP Parameter Area Declarations

```
Restricted Materials of IBM

DFHDUFP - dump formatting routines - parameter declarations.
```

Table 139.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	300	DUF_PARMS	
(0)	CHARACTER	16	DUF_PREFIX	
(0)	HALFWORD	2	DUF_LENGTH	
(2)	CHARACTER	1	DUF_ARROW	
(3)	CHARACTER	3	DUF_DFH	
(6)	CHARACTER	2	DUF_DOMID	
(8)	CHARACTER	8	DUF_BLCK_NAME	
(10)	ADDRESS	4	DUF_COM_PTR	
(14)	CHARACTER	200	DUF_USER_PARMS	
(14)	UNSIGNED	1	DUF_FUNCTION	
(15)	BIT(8)	1	DUF_FLAGS	

Table 139. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		DUF_EJECT	
	.1..		DUF_SPACE_ BEFORE	
	..1.		DUF_SPACE_ AFTER	
	...1		DUF_ALLOW_ZERO	
	.... 1...		DUF_LONG_ NAME_X	
	.... .1..		*	
	.... ..1.		DUF_BLOCK_ RESOURCE2_X	
	1		*	
(16)	UNSIGNED	1	DUF_INDEX_ ENTRY_TYPE	
(16)	UNSIGNED	1	DUF_TMP_TABLE	
(17)	UNSIGNED	1	DUF_SEVERITY_ LEVEL	
(18)	UNSIGNED	1	DUF_MESSAGE_ TYPE	
(19)	UNSIGNED	1	DUF_BOUNDARY	
(1A)	UNSIGNED	1	*	
(1B)	UNSIGNED	1	*	
(1C)	FULLWORD	4	DUF_RC	
(20)	ADDRESS	4	DUF_BLOCK_ ADDRESS	
(24)	FULLWORD	4	DUF_BLOCK_ LENGTH	
(28)	ADDRESS	4	DUF_SET_PTR	
(2C)	ADDRESS	4	DUF_ANCHOR_PTR	
(30)	ADDRESS	4	DUF_LIST_TOKEN	
(30)	ADDRESS	4	DUF_BROWSE_ TOKEN	
(34)	ADDRESS	4	DUF_ADDRESS	
(34)	ADDRESS	4	DUF_TABLE_ ENTRY_ADDRESS	
(38)	FULLWORD	4	DUF_OFFSET	
(3C)	CHARACTER	24	DUF_LONG_NAME	
(3C)	CHARACTER	8	DUF_BLOCK_NAME	
(44)	CHARACTER	16	DUF_BLOCK_ RESOURCE	
(54)	FULLWORD	4	DUF_BLOCK_ TITLE_LENGTH	

Table 139. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	FULLWORD	4	DUF_INDEX_ ENTRY_TEXT_LENGTH	
(54)	FULLWORD	4	DUF_MESSAGE_ TEXT_LENGTH	
				@BA22329A
(58)	CHARACTER	132	DUF_LINE	
(58)	CHARACTER	112	DUF_BLOCK_ TITLE	
(58)	CHARACTER	40	DUF_INDEX_ ENTRY_TEXT	
(58)	CHARACTER	30	DUF_MESSAGE_ TEXT	
(C8)	CHARACTER	8	DUF_BLOCK_ RESOURCE2	
(DC)	CHARACTER	0	*	
(DC)	BIT(32)	4	DUF_FORMAT_LEVEL	
	1...		DUF_FORMAT_ SUMMARY	
	.1..		DUF_FORMAT_ BLOCKS	
	..1.		DUF_FORMAT_ CHECKING	
(DC)	BIT(29) POS(4)	4	*	
(E0)	CHARACTER	33	DUF_TIME_DATE	
(E0)	CHARACTER	17	DUF_TIME_ DATE_FORMAT	
(F1)	CHARACTER	8	DUF_TIME_ DATE_STCK	
(F9)	CHARACTER	8	DUF_DUMP_ HEADER_STCK	
(101)	CHARACTER	3	*	
(104)	ADDRESS	4	DUF_TRFCA_PTR	
(108)	UNSIGNED	2	DUF_LINES_ LEFT_ON_PAGE	
				*
(10A)	CHARACTER	1	*	
(10A)	BIT(8)	1	DUF_FLAGS2	
	1...		DUF_PF3_ PRESSED	
(10B)	CHARACTER	1	*	
(10C)	CHARACTER	8	DUF_READ_TOKEN	
(10C)	ADDRESS	4	DUF_READ_PTR	
(110)	FULLWORD	4	DUF_READ_INDEX	

Table 139. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(114)	ADDRESS	4	DUF_DUFF_PTR	
(118)	CHARACTER	3	DUF_TASKID	
(11B)	BIT(8)	1	DUF_FLAGBYTE2	
	1...		DUF_LINK_ TO_CEEERRIP	
	.1..		DUF_INITIALISE_ TRACE	
	..11 1111		*	
(11C)	CHARACTER	8	DUF_ADDRESS64	
(124)	CHARACTER	8	DUF_BLOCK_ ADDRESS64	
(12C)	CHARACTER	0	*	

Constants

Table 140.

Len	Type	value	Name	Description
Function values.				
4	DECIMAL	1	DUF_FORMAT_BLOCK	
4	DECIMAL	2	DUF_GET_BLOCK	
4	DECIMAL	3	DUF_PRINT_LINE	
4	DECIMAL	4	DUF_PRINT_MESSAGE	
4	DECIMAL	5	DUF_CREATE_LIST	
4	DECIMAL	6	DUF_DELETE_LIST	
4	DECIMAL	7	DUF_ADD_LIST	
4	DECIMAL	8	DUF_ADD_INDEX_ENTRY	
4	DECIMAL	9	DUF_TMP_START_BROWSE	
4	DECIMAL	10	DUF_TMP_GET_NEXT	
4	DECIMAL	11	DUF_TMP_END_BROWSE	
4	DECIMAL	12	DUF_FORMAT_ MAIN_STORAGE	
4	DECIMAL	13	DUF_FORMAT_STCK	
4	DECIMAL	14	DUF_START_READ_LIST	
4	DECIMAL	15	DUF_READ_LIST	
4	DECIMAL	16	DUF_ADD_LIST_REVERSE	
4	DECIMAL	17	DUF_READ_ LIST_REVERSE	
4	DECIMAL	18	DUF_START_ READ_LIST_REVERSE	
4	DECIMAL	19	DUF_CREATE_ LIST_REVERSE	

Table 140. (continued)

Len	Type	value	Name	Description
4	DECIMAL	20	DUF_FORMAT_ BLOCK_ASCII	
Index entry types.				
4	DECIMAL	1	DUF_INDEX_ ENTRY_TYPE_KEYWORD	
4	DECIMAL	2	DUF_INDEX_ ENTRY_TYPE_BLOCK	
4	DECIMAL	3	DUF_INDEX_ ENTRY_TYPE_TEXT	
Message types.				
4	DECIMAL	1	DUF_MSG_ZERO_POINTER	
4	DECIMAL	2	DUF_MSG_INVALID_ POINTER	
4	DECIMAL	3	DUF_MSG_ZERO_ADDRESS	
4	DECIMAL	4	DUF_MSG_INVALID_ ADDRESS	
4	DECIMAL	5	DUF_MSG_LOOP_ DETECTED	
4	DECIMAL	6	DUF_MSG_FORMATTING_ ERROR	
4	DECIMAL	7	DUF_MSG_INVALID_ EYECATCHER	
4	DECIMAL	8	DUF_MSG_TMP_ START_BROWSE	
4	DECIMAL	9	DUF_MSG_TMP_GET_NEXT	
4	DECIMAL	10	DUF_MSG_UNREFERENCED_ PAGE	
4	DECIMAL	11	DUF_MSG_INVALID_ DATA_LEN	
4	DECIMAL	12	DUF_MSG_SAA1_INVALID	
4	DECIMAL	13	DUF_MSG_SAA2_INVALID	
4	DECIMAL	14	DUF_MSG_SAAS_INVALID	
4	DECIMAL	15	DUF_MSG_SAAS_DIFFER	
4	DECIMAL	16	DUF_MSG_INVALID_DBA2329A	
Message severity level values.				
4	DECIMAL	1	DUF_SEVERITY_LEVEL_I	
4	DECIMAL	2	DUF_SEVERITY_LEVEL_E	
TMP table types.				
4	DECIMAL	4	DUF_TMP_TABLE_PFT	
4	DECIMAL	5	DUF_TMP_TABLE_FCT	
4	DECIMAL	6	DUF_TMP_TABLE_DCT	
4	DECIMAL	7	DUF_TMP_TABLE_TCTE	
4	DECIMAL	8	DUF_TMP_TABLE_TCTN	

Table 140. (continued)

Len	Type	value	Name	Description
4	DECIMAL	9	DUF_TMP_TABLE_TCTS	
4	DECIMAL	10	DUF_TMP_TABLE_AFCT	
4	DECIMAL	11	DUF_TMP_TABLE_DSN	
4	DECIMAL	12	DUF_TMP_TABLE_DSNA	
4	DECIMAL	13	DUF_TMP_TABLE_PRT	
4	DECIMAL	15	DUF_TMP_TABLE_TCNT	
4	DECIMAL	15	DUF_TMP_TABLE_DUMY	
4	DECIMAL	16	DUF_TMP_TABLE_AITM	
Return codes				
4	DECIMAL	0	DUF_OK	
4	DECIMAL	1	DUF_INVALID_ADDRESS	
4	DECIMAL	2	DUF_NOT_FOUND	
4	DECIMAL	3	DUF_FORMATTING_ERROR	
4	DECIMAL	4	DUF_DUPLICATE_ ADDRESS	
4	DECIMAL	5	DUF_END_BROWSE	
4	DECIMAL	6	DUF_TMP_START_ BROWSE_ERROR	
4	DECIMAL	7	DUF_TMP_GET_ NEXT_ERROR	
4	DECIMAL	8	DUF_INVALID_ BROWSE_TOKEN	
4	DECIMAL	9	DUF_INVALID_DATA_LEN	
4	DECIMAL	10	DUF_QUIT_JOB	

EJANE Enterprise Java Domain Elements Anchor block

```
!:refstep.ejdef_ane ---------------------------------- DFHEJDEF 176 -
!
!
! The DFHEJ Elements Anchor Block.
!
! - This is the Anchor block for the Elements part of the EJ Domain
! (CorbaServers, DJars and Beans
!
! - This is addressed via the DFHEJANC Anchor block for the whole of
! the EJ Domain
!
! - This Block is logically split into the three above areas, and
! managed as a triad.
!
! - Note that there is no explicit Anchor Block Pointer defined (due
! to the above reason)
!
!-------------------------------------------------------------------
```

Table 141.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	312	DFHEJANE	EJ Elements Anchor
(0)	HALFWORD	2	EJAE_LEN	Block Length
(2)	CHARACTER	14	EJAE_EYEF	Front Eyecatcher Shared Things
(10)	CHARACTER	4	EJAE_S_ID	Eyecatcher
(14)	UNSIGNED	4	EJAE_S_STATE	Elements State
(18)	UNSIGNED	4	EJAE_S_STARTUP	Startup type
(1C)	ADDRESS	4	EJAE_S_ANCPTR	EJ Domain Anchor
(20)	CHARACTER	8	EJAE_S_SPNAME	General Subpool Name
(28)	CHARACTER	8	EJAE_S_SPTOKEN	General Subpool Token
(30)	CHARACTER	8	EJAE_S_TSPNAME	Task Subpool Name
(38)	CHARACTER	8	EJAE_S_TSPTOKEN	Task Subpool Token
(40)	CHARACTER	8	EJAE_S_LOCKN	Lock Name
(48)	ADDRESS	4	EJAE_S_LOCKT	Token Transaction Things
(4C)	CHARACTER	4	EJAE_T_ID	Eyecatcher
(50)	CHARACTER	8	EJAE_T_LOCKN	Lock Name
(58)	ADDRESS	4	EJAE_T_LOCKT	Token
(5C)	UNSIGNED	4	EJAE_T_RSTATE	CB Resolution
(60)	UNSIGNED	4	EJAE_T_RCOUNT	CB Resolution Count CorbaServer Things
(64)	CHARACTER	4	EJAE_C_ID	Eyecatcher
(68)	CHARACTER	8	EJAE_C_ISPN	CorbaServer SP name
(70)	CHARACTER	8	EJAE_C_ISPT	SP token
(78)	ADDRESS	4	EJAE_C_IPTRF	Chain 1st
(7C)	ADDRESS	4	EJAE_C_IPTRL	Chain Last
(80)	CHARACTER	8	EJAE_C_BSPN	Browse SP name
(88)	CHARACTER	8	EJAE_C_BSPT	SP token
(90)	ADDRESS	4	EJAE_C_BPTRF	Chain 1st
(94)	ADDRESS	4	EJAE_C_BPTRL	Chain Last
(98)	CHARACTER	8	EJAE_C_LOCKN	Lock Name
(A0)	ADDRESS	4	EJAE_C_LOCKT	Token
(A4)	UNSIGNED	4	EJAE_C_ALLOC	Alloc Count DJar Things

Table 141. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A8)	CHARACTER	4	EJAE_D_ID	Eyecatcher
(AC)	CHARACTER	8	EJAE_D_ISPN	Djar SP name
(B4)	CHARACTER	8	EJAE_D_ISPT	SP token
(BC)	ADDRESS	4	EJAE_D_IPTRF	Chain 1st
(C0)	ADDRESS	4	EJAE_D_IPTRL	Chain Last
(C4)	CHARACTER	8	EJAE_D_BSPN	Browse SP name
(CC)	CHARACTER	8	EJAE_D_BSPT	SP token
(D4)	ADDRESS	4	EJAE_D_BPTRF	Chain 1st
(D8)	ADDRESS	4	EJAE_D_BPTRL	Chain Last
(DC)	CHARACTER	8	EJAE_D_LOCKN	Lock Name
(E4)	ADDRESS	4	EJAE_D_LOCKT	Token Bean Things
(E8)	CHARACTER	4	EJAE_B_ID	Eyecatcher
(EC)	CHARACTER	8	EJAE_B_ISPN	Bean SP name
(F4)	CHARACTER	8	EJAE_B_ISPT	SP token
(FC)	ADDRESS	4	EJAE_B_IPTRF	Chain 1st
(100)	ADDRESS	4	EJAE_B_IPTRL	Chain Last
(104)	CHARACTER	8	EJAE_B_BSPN	Browse SP name
(10C)	CHARACTER	8	EJAE_B_BSPT	SP token
(114)	ADDRESS	4	EJAE_B_BPTRF	Chain 1st
(118)	ADDRESS	4	EJAE_B_BPTRL	Chain Last
(11C)	CHARACTER	8	EJAE_B_LOCKN	Lock Name
(124)	ADDRESS	4	EJAE_B_LOCKT	Token
(128)	CHARACTER	16	EJAE_EYEB	End Eyecatcher

Constants

Table 142.

Len	Type	value	Name	Description
4	DECIMAL	312	DFHEJANE_LENGTH	
Literals contained within the EJ Anchor Block				
14	CHARACTER	>DFHEJEANCHOR>	EJAE_EYEF_V	
16	CHARACTER	DFHEJEANCHOR<<<	EJAE_EYEB_V	
8	CHARACTER	EJSPGVNC	EJAE_S_SPNAME_V	
8	CHARACTER	EJSPTVNC	EJAE_S_TSPNAME_V	
4	CHARACTER	COMM	EJAE_S_ID_V	
4	CHARACTER	TRAN	EJAE_T_ID_V	
4	CHARACTER	CSRV	EJAE_C_ID_V	
4	CHARACTER	DJAR	EJAE_D_ID_V	
4	CHARACTER	BEAN	EJAE_B_ID_V	

Table 142. (continued)

Len	Type	value	Name	Description
8	CHARACTER	EJSPCFIC	EJAE_C_ISPN_V	
8	CHARACTER	EJSPDFIC	EJAE_D_ISPN_V	
8	CHARACTER	EJSPBVIC	EJAE_B_ISPN_V	
8	CHARACTER	EJSPCFBC	EJAE_C_BSPN_V	
8	CHARACTER	EJSPDFBC	EJAE_D_BSPN_V	
8	CHARACTER	EJSPBFBC	EJAE_B_BSPN_V	
8	CHARACTER	EJLSHARE	EJAE_S_LOCKN_V	
8	CHARACTER	EJLTRAN	EJAE_T_LOCKN_V	
8	CHARACTER	EJLCALL	EJAE_C_LOCKN_V	
8	CHARACTER	EJLDALL	EJAE_D_LOCKN_V	
8	CHARACTER	EJLBALL	EJAE_B_LOCKN_V	
This flag shows whether or not the elements part of the EJ domain can accept work				
4	DECIMAL	0	EJAE_S_STATE_UNK	Unknown
4	DECIMAL	1	EJAE_S_STATE_OK	OK
4	DECIMAL	2	EJAE_S_STATE_INIT	Initialising
4	DECIMAL	3	EJAE_S_STATE_NOSP	Storage failure
4	DECIMAL	4	EJAE_S_STATE_NOLK	Lock failure
4	DECIMAL	5	EJAE_S_STATE_NOSS	OSS failure
4	DECIMAL	6	EJAE_S_STATE_NOST	Setmain failure
This flag shows how the EJ Domain initialised				
4	DECIMAL	0	EJAE_S_STARTUP_COLD	COLD
4	DECIMAL	1	EJAE_S_STARTUP_WARM	WARM
This flag shows the status of the Resolution Transaction CEJR				
4	DECIMAL	0	EJAE_T_RSTATE_NOTRUN	Not yet run
4	DECIMAL	1	EJAE_T_RSTATE_RUN	Run sometime
General purpose literals associated with the Anchor Block Define the Transaction name for the EJ Resolution process (ensure this name matches up with that in DFHCURDI)				
4	CHARACTER	CEJR	EJAE_L_RTRAN	Resolution tran

EJANC Enterprise Java Domain anchor block

```
!:refstep.ejdef_anc --------------------------------- DFHEJDEF 124 -
!
!
! The DFHEJ Domain Anchor Block
!
! - As the EJ Domain is logically divided into Object Store and
! System Definitional parts, the Domain Anchor Block is
! rudimentary - all the interesting information is contained in
! additional anchors for the aforementioned divisions.
!
! - Note that there is no explicit Anchor Block Pointer defined (due
```

```
! to the above reason)
!
!-------------------------------------------------------------------
```

Table 143.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	76	DFHEJANC	EJ Domain Anchor Block
(0)	HALFWORD	2	EJA_LEN	Block Length
(2)	CHARACTER	14	EJA_EYEF	Front Eyecatcher
(10)	FULLWORD	4	EJA_STATE	Domain state
(14)	CHARACTER	8	EJA_SPNAME	General Subpool Name
(1C)	CHARACTER	8	EJA_SPTOKEN	General Subpool Token
(24)	ADDRESS	4	EJA_OS_PTR	Store Anchor
(28)	ADDRESS	4	EJA_EL_PTR	@Elements Anchor
(2C)	ADDRESS	4	EJA_DI_PTR	@Directory Anchor
(30)	ADDRESS	4	EJA_DU_PTR	@Dump Anchor
(34)	ADDRESS	4	EJA_ST_PTR	@Statistics Anchor
(38)	ADDRESS	4	EJA_MI_PTR	@Method_Info Anchor
(3C)	CHARACTER	16	EJA_EYEB	End Eyecatcher

Constants

Table 144.

Len	Type	value	Name	Description
Associated constants for the EJ Anchor Block				
4	DECIMAL	76	DFHEJANC_LENGTH	
Literals contained within the EJ Anchor Block				
14	CHARACTER	>DFHEJANCHOR<	EJA_EYEF_V	
16	CHARACTER	DFHEJANCHOR<<EJA&EYEB;	EJA_EYEB_V	
8	CHARACTER	EJSPCOMM	EJA_SPNAME_V	
Flag settings within the EJ Anchor Block				
4	DECIMAL	0	EJE_STATE_UNKNOWN	
4	DECIMAL	1	EJE_STATE_ INITIALISING	
4	DECIMAL	2	EJE_STATE_ACTIVE	
4	DECIMAL	3	EJE_STATE_QUIESCING	
4	DECIMAL	4	EJE_STATE_QUIESCED	
4	DECIMAL	5	EJE_STATE_ TERMINATING	

Table 144. (continued)

Len	Type	value	Name	Description
4	DECIMAL	6	EJE_STATE_TERMINATED	
4	DECIMAL	7	EJE_STATE_FAILED	

EJANE Enterprise Java Domain Object Store Anchor block

```
!:refstep.ejo_anchor_block_and_constants -------------- DFHEJEJ 211 -
!
!
! This anchor block contains the global storage for the Object Store
! section of the EJ domain.
!
! It defines state information, variables and constants required by
! the EJOS and EJOB gates.
!
!--------------------------------------------------------------------
```

Table 145.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	EJAO	
(0)	CHARACTER	16	EJAO_PREFIX	===> eyecatcher <===
(0)	HALFWORD	2	EJAO_LENGTH	length of ejao
(2)	CHARACTER	14	EJAO_PREFIX_ TEXT	>DFHEJOSAnchor
!:refstep.ejao_domain_state -------------------------- DFHEJEJ 233 - ! ! Object Store Domain state information ! !----------				
(10)	ADDRESS	4	EJAO_LOCK_TOKEN	EJOS lock token
(14)	ADDRESS	4	EJAO_LIST_LOCK	OS list lock token
(18)	STRUCTURE IsA(ETOKEN)	8	EJAO_GENERAL_ SPTOKEN	
				token received when general subpool added
(18)	ADDRESS	4	P	
(1C)	FULLWORD	4	N	
(20)	STRUCTURE IsA(ETOKEN)	8	EJAO_TASK_ SPTOKEN	token received when task subpool added
(20)	ADDRESS	4	P	
(24)	FULLWORD	4	N	
(28)	ADDRESS	4	EJAO_OS_LIST	List of object stores
(2C)	CHARACTER	8	EJAO_TIMER_TOKEN1	Notify_interval token

Table 145. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	UNSIGNED	1	EJAO_EJ_STATE	EJ OS domain state initialised, quiesced or terminated
(35)	UNSIGNED	1	EJAO_FLAGS	
	1...		EJAO_COLD_START	1=CICS cold started
	.1..		EJAO_DI_ MSG_0501	1=message 0501 issued
	..1.		EJAO_FC_READY	1=File Control available
	...1		EJAO_TIMEOUT_ STARTED	
				1=Timeout scan started
(36)	CHARACTER	2	*	
!:erefstep.ejao_domain_state ----------				
(38)	CHARACTER	0	EJAO_END	

```
!:refstep.ejo_ object_ store ---------------------------- DFHEJEJ 255 -
!
! An OS_  element is created when an object store is opened, and
  ! deleted when the store is closed. There is a linked list of
! OS_elements anchored in ejao_ os_list.
!
  !---------------------------------------------------------------------
```

Table 146.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	OS_ELEMENT	Object Store element
(0)	ADDRESS	4	OS_NEXT_STORE	Next object_store in list
(4)	HALFWORD	2	OS_STORE_ID	Object_store ID
(6)	HALFWORD	2	*	Reserved
(8)	CHARACTER	8	OS_STORE_NAME	Object_store name
(10)	CHARACTER	8	OS_FILE_NAME	CICS file name
(18)	FULLWORD	4	OS_RECORD_SIZE	File record size
(1C)	UNSIGNED	4	OS_PASSIVE_ TIMEOUT	Passive object timeout
(20)	UNSIGNED	4	OS_ACTIVE_ TIMEOUT	Active object timeout
(24)	FULLWORD	4	OS_ACTIVATES	Count Activates
(28)	FULLWORD	4	OS_STORES	Count stores
(2C)	FULLWORD	4	OS_FAIL_ ACTIVATES	Failed activates

Constants

Table 147.

Len	Type	value	Name	Description
!:erefstep.ejo_object_store ---------- !:refstep.ejo_domain_states ---------- DFHEJEJ 277 - ! ! EJ Domain States (printed in formatted dump) ! !----------				
1	DECIMAL	1	EJAO_STATE_ INITIALISING	
1	DECIMAL	2	EJAO_STATE_ INITIALISED	
1	DECIMAL	3	EJAO_STATE_QUIESCING	
1	DECIMAL	4	EJAO_STATE_QUIESCED	
1	DECIMAL	5	EJAO_STATE_ TERMINATED	
!:erefstep.ejo_domain_states ---------- !:refstep.ejo_literals ---------- DFHEJEJ 287 - ! ! Literals ! !----------				
14	CHARACTER	>DFHEJOSANCHOR	EJAO_EYE_CATCHER	
8	CHARACTER	EJOSLOCK	EJO_LOCK_NAME	
8	CHARACTER	EJOSGENS	EJO_GEN_SPNAME	
8	CHARACTER	EJOSTSKS	EJO_TSK_SPNAME	
8	CHARACTER	EJOSELLK	EJO_ELS_LOCKNAME	
!:erefstep.ejo_literals ---------- !:refstep.ejo_error_codes ---------- DFHEJEJ 302 - ! ! Error codes (for DFHKERN RECOVERY_REQUEST) ! !----------				
4	CHARACTER	AEJA	EJO_LOCK_ ERROR_CODE	
4	CHARACTER	AEJB	EJO_UNLOCK_ ERROR_CODE	

EJANS Enterprise Java Statistics Anchor Block

```
!:refstep.ejs_anchor_block_and_constants ------------- DFHEJST 1366 -
!
!
! This anchor block contains the global storage for the Statistics
! section of the EJ domain.
!
! It defines state information, variables and constants required by
! the STST gate.
!
!----------
```

Table 148.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	EJAS	
(0)	CHARACTER	16	EJAS_PREFIX	===> eyecatcher <===
(0)	HALFWORD	2	EJAS_LENGTH	length of ejao
(2)	CHARACTER	14	EJAS_PREFIX_ TEXT	>DFHEJSTAnchor
!:refstep.ejas_domain_state ------------------------- DFHEJST 1386 - ! ! Statistics Domain state information ! !----------				
(10)	CHARACTER	8	EJAS_GENERAL_ SPTOKEN	
				token received when general subpool added
(18)	ADDRESS	4	EJAS_STATISTICS_ BUFFER	
				statistics buffer
(1C)	CHARACTER	8	EJAS_LAST_ RESET_TIME	
				statistics last reset
(24)	UNSIGNED	1	EJAS_EJ_STATE	EJ ST domain state initialised, quiesced or terminated
(25)	CHARACTER	3	*	
!:erefstep.ejas_domain_state ----------				
(28)	CHARACTER	0	EJAS_END	

Constants

Table 149.

Len	Type	value	Name	Description
!:refstep.ejs_domain_states ------------------------- DFHEJST 1400 - ! ! EJ Domain States (printed in formatted dump) ! !----------				
1	DECIMAL	1	EJAS_STATE_ INITIALISING	
1	DECIMAL	2	EJAS_STATE_ INITIALISED	
1	DECIMAL	3	EJAS_STATE_QUIESCING	
1	DECIMAL	4	EJAS_STATE_QUIESCED	

Table 149. (continued)

Len	Type	value	Name	Description
1	DECIMAL	5	EJAS_STATE_ TERMINATED	
!:erefstep.ejs_domain_states ---------- !:refstep.ejs_literals ---------- DFHEJST 1410 - ! ! Literals ! !----------				
14	CHARACTER	>DFHEJSTANCHOR<	EJAS_EYE_CATCHER	
8	CHARACTER	EJSTGENS	EJS_GEN_SPNAME	
4	DECIMAL	4096	EJS_ST_BUFFER_SIZE	

EJBBE Enterprise Java Bean Browse Blocks

```
This Structure defines the Bean Browse blocks
   Each of these fixed-length items comprises an
   active browse upon the Beans.
   This block is chained from the EJ Elements Anchor
   Block (ejae_b_broot) and obtained from the
   fixed length ejae_b_bspn/t storage subpool).
   The _l_ field shows the current position in the
   Browse (the last returned element) - if this is
   not found on a get_next then this absence breaks
   the browse.
   The _s_ fields shows what selection the browse
   is running - no wild cards are supported.
```

Table 150.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	344	DFHEJBBE	Bean Browse
(0)	CHARACTER	8	EJBB_EYEF	Front Eyecatcher
(8)	UNSIGNED	4	EJBB_LEN	Block Length
(C)	ADDRESS	4	EJBB_CHAINF	Chain - Next
(10)	ADDRESS	4	EJBB_L_BLOCKP	Current Entry
(14)	CHARACTER	240	EJBB_L_BEAN	Last one found
(104)	CHARACTER	32	EJBB_L_DJAR	Last one found
(124)	CHARACTER	4	EJBB_L_ CORBASERVER	Last one found
(128)	CHARACTER	4	EJBB_S_ CORBASERVER	Selection
(12C)	CHARACTER	32	EJBB_S_DJAR	Selection
(14C)	UNSIGNED	4	EJBB_S_MODE	All | Norm | Temp
(150)	CHARACTER	8	EJBB_EYEB	End Eyecatcher

Constants

Table 151.

Len	Type	value	Name	Description
Associated constants for the EJ Bean Browse block				
4	DECIMAL	344	DFHEJBBE_LENGTH	
Literals contained within the EJ Bean Browse block				
8	CHARACTER	>EJBBE>>	EJBB_EYEF_V	
8	CHARACTER	<EJBBE<<	EJBB_EYEB_V	
Flag settings within the EJ Bean Browse block				
4	DECIMAL	0	EJBB_S_MODE_ANY_V	
4	DECIMAL	1	EJBB_S_MODE_NORMAL_V	
4	DECIMAL	2	EJBB_S_MODE_TEMP_V	

EJBIE Enterprise Java Bean Elements

```
This Structure defines the Bean Elements
   Each of these fixed-length items comprises an
   installed Bean that Java knows about
   Each element should have an associated entry in the
   Object Store (and are restored therefrom on
   Warm restart)
   This block is chained from the EJ Elements Anchor
   Block (ejae_b_iroot) and obtained from the
   fixed length ejae_b_ispn/t storage subpool).
```

Table 152.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	328	DFHEJBIE	Bean Element
(0)	CHARACTER	8	EJBI_EYEF	Front Eyecatcher
(8)	UNSIGNED	4	EJBI_LEN	Block Length
(C)	ADDRESS	4	EJBI_CHAINF	Chain - Next
(10)	UNSIGNED	4	EJBI_STATUS	Bean Status
(14)	CHARACTER	240	EJBI_BEAN	Bean name
(104)	CHARACTER	32	EJBI_DJAR	from DJar
(124)	CHARACTER	4	EJBI_CORBASERVER	CorbaServer
(128)	UNSIGNED	4	EJBI_DDLEN	Len Deploydata in OS
(12C)	UNSIGNED	4	EJBI_ACTIVATES	Activate count !@LEA
(130)	UNSIGNED	4	EJBI_PASSIVATES	Pasivate count !@LEA
(134)	UNSIGNED	4	EJBI_CREATES	Creates count !@LEA
(138)	UNSIGNED	4	EJBI_REMOVES	Removes count !@LEA
(13C)	UNSIGNED	4	EJBI_METHOD_CALLS	Methods count !@LEA
(140)	CHARACTER	8	EJBI_EYEB	End Eyecatcher

Table 152. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(148)	CHARACTER	0	EJBI_DDAREA	Start of Meta data

Constants

Table 153.

Len	Type	value	Name	Description
Associated constants for the EJ Bean Item Entry				
4	DECIMAL	328	DFHEJBIE_LENGTH	
Literals contained within the EJ Bean Item Entry				
8	CHARACTER	>EJBIE>>	EJBI_EYEF_V	
8	CHARACTER	<EJBIE<<	EJBI_EYEB_V	
Flag settings within the EJ Bean Item Entry				
4	DECIMAL	1	EJBI_STATUS_OK	CB is finalised
4	DECIMAL	2	EJBI_STATUS_TEMP	CB is temporary

EJCBE Enterprise Java Corbaserver Browse Block

```
This Structure defines the CorbaServer Browse Blocks
   Each of these fixed-length items comprises an
   active browse upon the CorbaServers
   This block is chained from the EJ Elements Anchor
   Block (ejae_c_broot) and obtained from the
   fixed length ejae_c_bspn/t storage subpool).
   The _l_ field shows the current position in the
   Browse (the last returned element) - if this is
   not found on a get_next then this absence breaks
   the browse.
```

Table 154.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	DFHEJCBE	CorbaServer Browse
(0)	CHARACTER	8	EJCB_EYEF	Front Eyecatcher
(8)	UNSIGNED	4	EJCB_LEN	Block Length
(C)	ADDRESS	4	EJCB_CHAINF	Chain - Next
(10)	ADDRESS	4	EJCB_L_BLOCKP	Current Entry
(14)	CHARACTER	4	EJCB_L_ CORBASERVER	Last one found
(18)	CHARACTER	8	EJCB_EYEB	End Eyecatcher

Constants

Table 155.

Len	Type	value	Name	Description
Associated constants for the EJ CorbaServer Browse Block				

Table 155. (continued)

Len	Type	value	Name	Description
4	DECIMAL	32	DFHEJCBE_LENGTH	
Literals contained within the EJ CorbaServer Browse Block				
8	CHARACTER	>EJCBE>>	EJCB_EYEF_V	
8	CHARACTER	<EJCBE<<	EJCB_EYEB_V	
Flag settings within the EJ CorbaServer Browse Block General purpose literals associated with the Bean Define the Wait name and timeout for use when waiting upon requested Bean being available (or not) for use.				
8	CHARACTER	EJ.ST.BE	EJBI_L_STATEN	Wait name
4	DECIMAL	500	EJBI_L_STATEI	interval

EJCIE Enterprise Java Bean Corbaserver

```
!:refstep.ejdef_cie --------------------------------- DFHEJDEF 327 -
!
!
! The CorbaServer Elements.
!
! - Each of these fixed-length items comprises an installed
! CorbaServer definition.
!
! - Each element should have an associated entry in the Global
! Catalog (and are restored therefrom on Warm restart)
!
! - This block is chained from the EJ Elements Anchor Block
! (ejae_c_iroot) and obtained from the fixed length ejae_c_ispn/t
! storage subpool).
!
!-------------------------------------------------------------------
```

Table 156.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1584	DFHEJCIE	CorbaServer Element
(0)	CHARACTER	1076	*	
(0)	CHARACTER	8	EJCI_EYEF	Front Eyecatcher
(8)	UNSIGNED	4	EJCI_LEN	Block Length
(C)	ADDRESS	4	EJCI_CHAINF	Chain - Next
(10)	CHARACTER	4	EJCI_CORBASERVER	CorbaServer name
(14)	UNSIGNED	4	EJCI_STATE	Control Block State
(18)	UNSIGNED	4	EJCI_ENABLE_STATE	Enable State
(1C)	UNSIGNED	4	EJCI_AUTO_PUBLISH	Auto Publish
(20)	UNSIGNED	4	EJCI_SCANINTERVAL	Scan interval
(24)	UNSIGNED	4	EJCI_SCANRUNNING	Scan running ?
(28)	UNSIGNED	4	EJCI_TIMEOUT	Timeout (s)

Table 156. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	CHARACTER	255	EJCI_DJARDIR	Djar Directory
(12B)	UNSIGNED	1	EJCI_DJARDIR_ LEN	Djardir length
(12C)	CHARACTER	255	EJCI_JNDIPREFIX	JNDI Prefix
(22B)	UNSIGNED	1	EJCI_JNDIPREFIX_ LEN	
				Prefix length
(22C)	CHARACTER	255	EJCI_SHELF	Shelf for copy
(32B)	UNSIGNED	1	EJCI_SHELF_LEN	Shelf length
(32C)	CHARACTER	255	EJCI_HOST	TCPIP destination
(42B)	UNSIGNED	1	EJCI_HOST_LEN	Host length
(42C)	CHARACTER	8	EJCI_TIMER_ TOKEN	TISR Notify token
(434)	CHARACTER	48	EJCI_TCPIPSERVICES	
(434)	CHARACTER	8	EJCI_ASSERTED_ TCPIPSERVICE	
				asserted
(43C)	CHARACTER	8	EJCI_BASIC_ TCPIPSERVICE	
				basic
(444)	CHARACTER	8	EJCI_CLIENTCERT_ TCPIPSERVICE	
				clientcert
(44C)	CHARACTER	8	EJCI_KERBEROS_ TCPIPSERVICE	
				kerberos
(454)	CHARACTER	8	EJCI_UNAUTH_ TCPIPSERVICE	
				unauth
(45C)	CHARACTER	8	EJCI_SSLUNAUTH_ TCPIPSERVICE	
				sslunauth
(464)	CHARACTER	64	*	Outbound SSL fields
(464)	CHARACTER	2	EJCI_PAD4	
(466)	UNSIGNED	1	EJCI_OUTPRIVACY	req | supp | not
(467)	UNSIGNED	1	EJCI_CIPHER_ COUNT	# of ciphers
(468)	CHARACTER	28	EJCI_CIPHERS	cipher codes
(484)	CHARACTER	32	EJCI_CERTLABEL	certif label
following data is a copy of the listener's TCPIPSERVICE definitions				

Table 156. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4A4)	CHARACTER	120	EJCI_TCPIPSERVICE_ DEFINITIONS	
(4A4)	UNSIGNED	4	EJCI_ASSERTED_ PORT	
				port #
(4A8)	CHARACTER	12	EJCI_ASSERTED_ HASH	
				hash string
(4B4)	UNSIGNED	1	EJCI_ASSERTED_ PRIVACY	
				req | supp | not
(4B5)	UNSIGNED	1	EJCI_ASSERTED_ SSL	client
(4B6)	CHARACTER	1	EJCI_FLAGS	
	1...		EJCI_TCPIPSERVICES_ INITIALISED	
	.111 1111		*	
(4B7)	CHARACTER	1	EJCI_PAD5	
(4B8)	UNSIGNED	4	EJCI_BASIC_PORT	port #
(4BC)	CHARACTER	12	EJCI_BASIC_HASH	hash string
(4C8)	UNSIGNED	1	EJCI_BASIC_ PRIVACY	
				req | supp | not
(4C9)	UNSIGNED	1	EJCI_BASIC_SSL	yes | client
(4CA)	CHARACTER	2	EJCI_PAD6	
(4CC)	UNSIGNED	4	EJCI_CLIENTCERT_ PORT	
				port #
(4D0)	CHARACTER	12	EJCI_CLIENTCERT_ HASH	
				hash string
(4DC)	UNSIGNED	1	EJCI_CLIENTCERT_ PRIVACY	
				req | supp | not
(4DD)	UNSIGNED	1	EJCI_CLIENTCERT_ SSL	
				client
(4DE)	CHARACTER	2	EJCI_PAD7	
(4E0)	UNSIGNED	4	EJCI_KERBEROS_ PORT	
				port #
(4E4)	CHARACTER	12	EJCI_KERBEROS_ HASH	

Table 156. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				hash string
(4F0)	UNSIGNED	1	EJCI_KERBEROS_ PRIVACY	
				req | supp | not
(4F1)	UNSIGNED	1	EJCI_KERBEROS_ SSL	yes | client
(4F2)	CHARACTER	2	EJCI_PAD8	
(4F4)	UNSIGNED	4	EJCI_UNAUTH_ PORT	port #
(4F8)	CHARACTER	12	EJCI_UNAUTH_ HASH	hash string
(504)	UNSIGNED	1	EJCI_UNAUTH_ PRIVACY	
				req | supp | not
(505)	UNSIGNED	1	EJCI_UNAUTH_SSL	yes | no | client
(506)	CHARACTER	2	EJCI_PAD9	
(508)	UNSIGNED	4	EJCI_SSLUNAUTH_ PORT	
				port #
(50C)	CHARACTER	12	EJCI_SSLUNAUTH_ HASH	
				hash string
(518)	UNSIGNED	1	EJCI_SSLUNAUTH_ PRIVACY	
				req | supp | not
(519)	UNSIGNED	1	EJCI_SSLUNAUTH_ SSL	
				yes | no | client
(51A)	CHARACTER	2	EJCI_PAD10	
(51C)	CHARACTER	260	EJCI_TCPIPSERVICE_ DEFINITIONS2	
(51C)	CHARACTER	8	EJCI_RACF_REALM	realm name
(524)	CHARACTER	8	EJCI_KERBEROS_ REALM	
				realm name
(52C)	CHARACTER	240	EJCI_KERBEROS_ PRINCIPAL	
				kerbprncpl
(61C)	UNSIGNED	4	EJCI_KERBEROS_ PRINCIPAL_LEN	
				principal
(620)	CHARACTER	8	EJCI_USE_ COUNT_FIELDS	
(620)	UNSIGNED	4	EJCI_USE_COUNT	use count

Table 156. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(624)	UNSIGNED	4	EJCI_ALLOC_ COUNT	alloc count
(628)	CHARACTER	8	*	
(628)	CHARACTER	8	EJCI_EYEB	End Eyecatcher

Constants

Table 157.

Len	Type	value	Name	Description
Associated constants for the EJ CorbaServer Item Entry				
4	DECIMAL	1584	DFHEJCIE_LENGTH	
Literals contained within the EJ CorbaServer Item Entry				
8	CHARACTER	>EJCIE>>	EJCI_EYEF_V	
8	CHARACTER	<EJCIE<<	EJCI_EYEB_V	
Flag settings within the EJ CorbaServer Item Entry This flag shows the setting for the CorbaServers Internal Status (ensure that this list matches that within EJ Messages)				
4	DECIMAL	0	EJCI_STATE_UNKNOWN	Unknown
4	DECIMAL	1	EJCI_STATE_PENDINIT	Awaiting Init
4	DECIMAL	2	EJCI_STATE_INITING	Running Init
4	DECIMAL	3	EJCI_STATE_UNUSABLE	Unusable
4	DECIMAL	4	EJCI_STATE_ PENDRESOLV	
				Resolv waiting
4	DECIMAL	5	EJCI_STATE_RESOLVING	Resolving
4	DECIMAL	6	EJCI_STATE_ UNRESOLVED	
				failed
4	DECIMAL	7	EJCI_STATE_INSERV	Inservice
4	DECIMAL	8	EJCI_STATE_DELETING	Deleting
This flag shows the setting for the CorbaServers ENABLE STATE				
4	DECIMAL	1	EJCI_DISABLED	Disabled
4	DECIMAL	2	EJCI_ENABLED	Enabled
4	DECIMAL	3	EJCI_DISABLING	Disabling
4	DECIMAL	4	EJCI_ENABLING	enabling
4	DECIMAL	5	EJCI_DISCARDING	discarding
This flag shows the setting for the CorbaServers AUTO PUBLISH				
4	DECIMAL	1	EJCI_AUTO_NO	No publish
4	DECIMAL	2	EJCI_AUTO_YES	Auto publish
This flag shows the setting for the TCPIPSERVICE Privacy settings				
4	DECIMAL	1	EJCI_PRIVACY_ REQUIRED	

Table 157. (continued)

Len	Type	value	Name	Description
4	DECIMAL	2	EJCI_PRIVACY_ SUPPORTED	
4	DECIMAL	3	EJCI_PRIVACY_ NOTSUPPORTED	
General purpose literals associated with the CorbaServer Define the Wait name and timeout for use when waiting upon CorbaServer being available (or not) for use.				
8	CHARACTER	EJ.ST.CS	EJCI_L_STATEN	Wait name
4	DECIMAL	500	EJCI_L_STATEI	interval
Define the Object Store VSAM files and prefixes used by the CorbaServer in Java Mode				
8	CHARACTER	DFHEJDIR	EJCI_L_VSAM_ DIR_DDNAME	
4	CHARACTER	%DIR	EJCI_L_VSAM_ DIR_PREFIX	
8	CHARACTER	DFHEJOS	EJCI_L_VSAM_ BST_DDNAME	
4	CHARACTER	%SBS	EJCI_L_VSAM_ BST_PREFIX	

EJDBE Enterprise Java DJAR Browse Block

```
This Structure defines the DJar Browse blocks
   Each of these fixed-length items comprises an
   active browse upon the DJars.
   This block is chained from the EJ Elements Anchor
   Block (ejae_d_broot) and obtained from the
   fixed length ejae_d_bspn/t storage subpool).
   The _l_ field shows the current position in the
   Browse (the last returned element) - if this is
   not found on a get_next then this absence breaks
   the browse.
   The _s_ field shows what selection the browse
   is running - no wild cards are supported.
```

Table 158.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	68	DFHEJDBE	DJar Browse
(0)	CHARACTER	8	EJDB_EYEF	Front Eyecatcher
(8)	UNSIGNED	4	EJDB_LEN	Block Length
(C)	ADDRESS	4	EJDB_CHAINF	Chain - Next
(10)	ADDRESS	4	EJDB_L_BLOCKP	Current Entry
(14)	CHARACTER	32	EJDB_L_DJAR	Last one found
(34)	CHARACTER	4	EJDB_L_ CORBASERVER	Last one found
(38)	CHARACTER	4	EJDB_S_ CORBASERVER	Selection
(3C)	CHARACTER	8	EJDB_EYEB	End Eyecatcher

Constants

Table 159.

Len	Type	value	Name	Description
Associated constants for the EJ DJar Browse block				
4	DECIMAL	68	DFHEJDBE_LENGTH	
Literals contained within the EJ DJar Browse block				
8	CHARACTER	>EJDBE>>	EJDB_EYEF_V	
8	CHARACTER	<EJDBE<<	EJDB_EYEB_V	

EJDIE Enterprise Java Bean DJar

```
This Structure defines the DJar Elements
   Each of these fixed-length items comprises an
   installed DJar definition.
   Each element should have an associated entry in the
   Global Catalog (and are restored therefrom on
   Warm restart)
   This block is chained from the EJ Elements Anchor
   Block (ejae_d_iroot) and obtained from the
   fixed length ejae_d_ispn/t storage subpool).
```

Table 160.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	348	DFHEJDIE	DJar element
(0)	CHARACTER	8	EJDI_EYEF	Front Eyecatcher
(8)	UNSIGNED	4	EJDI_LEN	Block Length
(C)	ADDRESS	4	EJDI_CHAINF	Chain - Next
(10)	CHARACTER	32	EJDI_DJAR	DJar name
(30)	CHARACTER	4	EJDI_CORBASERVER	For CorbaServer
(34)	UNSIGNED	4	EJDI_STATE	Control Block State
(38)	CHARACTER	255	EJDI_HFSFILE	from HFSfile name
(137)	CHARACTER	1	EJDI_PAD1	
(138)	CHARACTER	8	EJDI_VERSION	
(140)	CHARACTER	8	EJDI_TIME	
(148)	CHARACTER	8	EJDI_DATE	
(150)	BIT(8)	1	EJDI_FLAGS	
	1...		EJDI_EASY	Easy installed
	.111 1111		*	
(151)	CHARACTER	3	*	
(154)	CHARACTER	8	EJDI_EYEB	End Eyecatcher

Constants

Table 161.

Len	Type	value	Name	Description
Associated constants for the EJ DJar Item Entry				
4	DECIMAL	348	DFHEJDIE_LENGTH	
Literals contained within the EJ DJar Item Entry				
8	CHARACTER	>EJDIE>>	EJDI_EYEF_V	
8	CHARACTER	<EJDIE<<	EJDI_EYEB_V	
Flag settings within the EJ DJar Item Entry This flag shows the setting for the DJars Internal Status (ensure that this list matches that within EJ Messages)				
4	DECIMAL	0	EJDI_STATE_UNKNOWN	Unknown
4	DECIMAL	1	EJDI_STATE_PENDINIT	Init waiting
4	DECIMAL	2	EJDI_STATE_INITING	Initializing
4	DECIMAL	3	EJDI_STATE_UNUSABLE	Unusable
4	DECIMAL	4	EJDI_STATE_ PENDRESOLV	
				Resolv waiting
4	DECIMAL	5	EJDI_STATE_RESOLVING	Resolving
4	DECIMAL	6	EJDI_STATE_ UNRESOLVED	
				failed
4	DECIMAL	7	EJDI_STATE_INSERV	In service
4	DECIMAL	8	EJDI_STATE_DELETING	Deleting
General purpose literals associated with the DJar Define the Wait name and timeout for use when waiting upon DJar being available (or not) for use.				
8	CHARACTER	EJ.ST.DJ	EJDI_L_STATEN	Wait name
4	DECIMAL	500	EJDI_L_STATEI	interval
Define the Wait name and timeout for use when waiting upon all the DJars for a CorbaServer to become usable				
8	CHARACTER	EJ.ST.DC	EJDI_L_STATEC	Wait name
4	DECIMAL	500	EJDI_L_STATED	interval

FBWAC File Browse Work Area for data tables

```
CONTROL BLOCK NAME = DFHFBWAC
DESCRIPTIVE NAME  = CICS (FC) File Browse Work Area

Restricted Materials of IBM

FUNCTION =
     Browse work area for browsing data tables.
     This control block is part of data tables support within
     CICS file control. It is used to keep track of the
     status of a browse to a data table. It is used for both
     shared data tables support and coupling facility data table
     support, although not all fields are used by both.
     An instance of the FBWA represents a browse thread by a
     unit of work to a data table, so there will be one FBWA
     per data table being browsed per UOW that is browsing.
```

```
 LIFETIME =
      An FBWA is created when a START_BROWSE is issued to a
      data table, and destroyed when the browse is ended.
 STORAGE CLASS =
      FBWAs are getmained from one of the FC buffer pools in the
      FC_ABOVE subpool, which is above the line, CICS key stg.
      It is freed back to the buffer pool when the browse ends.
 LOCATION =
      The FBWA for a request is addressed by FRT_FBWA_ADDRESS
      in the FRTE.
 INNER CONTROL BLOCKS =
      None.
 NOTES :
  DEPENDENCIES = S/390
  RESTRICTIONS = None
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES =
       No referenced items are defined outside this control block
   DATA AREAS =
       No fields in operating system data areas are referenced
   CONTROL BLOCKS =
       FBWA_FREE_CHAIN addresses the home buffer chain
   GLOBAL VARIABLES (Macro pass) =
       No global macro variables are referenced
-------------------------------------------------------------------
  File Browse Work Area
  This area is used to record status information about a browse
  sequence. It is addressed via a pointer in the FRTE associated
  with the browse and created using an IO buffer of appropriate
  size obtained from a file control IO buffer pool.
  Some of the data relate to the state of the browse as perceived
  at the API, e.g. whether the browse is GENERIC and what key was
  last returned to the application.
  CMT-specific fields
  -------------------
  Because browsing a CICS-maintained shared data table may
  require references to the source data set it may be necessary
  institute a source browse. Some data in the FBWA relate to the
  state of any such browse and its relationship to the API browse.
  The following is an explanation of some of the less immediately
  obvious items which refer to the source data set browse.
  FBWA_SOURCE_CURRENT
      is meaningful only if FBWA_SOURCE_STARTED is on. It shows
      that the last browse request was satisfied by reference to
      the source so the next one could validly be processed by
      simply passing the request on to the source browse service.
  FBWA_SOURCE_IN_SEQ
      is meaningful only if FBWA_SOURCE_STARTED is on. It shows
      that the browse is full key GTEQ and that the source browse
      is known to be positioned at a key less than or equal to
      that of the current API browse position.
      It is used to determine whether a RESETBR can be safely
      omitted in some cases where recourse to the source browse
      is necessary to satisfy a request.
      It is used solely for optimization and is set only in
      circumstances in which it is easy to be sure of its truth.
      SOURCE_IN_SEQ is used to hold the value of the flag at the
      start of a request and the flag itself is set off. It is
      set on again at the end of the request if appropriate.
  FBWA_TOKEN_VALID
      shows that the last browse request was satisfied from the
      table and that the token in the FRTE, FRT_DT_RECORD_TOKEN,
      corresponds to the current browse key FBWA_CURRENT_KEY.
      The token is used to optimize table access for sequential
      browse requests by avoiding the index search.
      This field is also used for UMTs.
```

```
FBWA_NEXT_KEY_VALID
    shows that the key in FBWA_NEXT_KEY is valid. If a gap is
    encountered while browsing a table SDTF returns the next
    key in the table. This is copied into FBWA_NEXT_KEY and
    FBWA_NEXT_KEY_VALID is set on. As long as the browse
    remains sequential, no attempt will be made to revert to
    table retrieval until this key value is reached.
FBWA_SEQUENTIAL
    shows that the next browse request may be treated as
    sequential provided that it satisfies the criteria. The
    indicator is set only after a request has completed with
    an OK or ENDFILE response so that continuation in any other
    case, e.g. after NOTFND, will be treated as a reposition.
    This field is also used for UMTs and CFDTs.
UMT-specific fields
-------------------
There are no fields used exclusively for UMTs.
CFDT-specific fields
--------------------
There are no fields used exclusively for CFDTs.
```

Table 162.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	FBWA	
(0)	CHARACTER	48	FBWA_FIXED_PART	Fixed format part of FBWA
(0)	CHARACTER	16	FBWA_EYE_ CATCHER	Eye catcher
(0)	HALFWORD	2	FBWA_LENGTH	Length of used part
(2)	CHARACTER	6	FBWA_EYE1	>DFHFC
(8)	CHARACTER	8	FBWA_EYE2	FBWA
(10)	BIT(8)	1	FBWA_FLAGS1	Type of request indicators
	1...		FBWA_RBA	Browsing by RBA
	.1..		FBWA_BACKWARDS	Browsing backwards
	..1.		FBWA_GTEQ	Browse is GTEQ
	...1		FBWA_GENERIC	Browse is GENERIC
	.... 1...		FBWA_FIRST	Last request was STARTBR or RESETBR
	.... .111		*	Reserved
(11)	BIT(8)	1	FBWA_FLAGS2	More indicators
	1...		FBWA_TOKEN_ VALID	Table token corresponds to current key
	.1..		FBWA_SOURCE_ STARTED	
				Source browse initiated

Table 162. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		FBWA_SOURCE_CURRENT	
				Source browse is correctly positioned
	...1		FBWA_SOURCE_IN_SEQ	
				Source browse is FKGE and not later than current key
	.... 1...		FBWA_NEXT_KEY_VALID	
				End of gap key is valid
	.... .1..		FBWA_SEQUENTIAL	Sequential is allowed for next browse request
	11		*	Reserved
(12)	HALFWORD	2	FBWA_KEY_LENGTH	Current browse key length
(14)	ADDRESS	4	FBWA_FREE_CHAIN	Home buffer chain
(18)	ADDRESS	4	FBWA_CURRENT_KEY	Current key field address
(1C)	ADDRESS	4	FBWA_REQUEST_KEY	Request key field address
(20)	ADDRESS	4	FBWA_NEXT_KEY	End of gap key address
(24)	CHARACTER	12	FBWA_RECORD_TOKEN	Current key table token
(30)	CHARACTER	0	FBWA_FIXED_END	End of fixed part
(30)	CHARACTER	0	FBWA_KEYS	Start of key fields

FCPEC File Control CFDT Pool Element

```
CONTROL BLOCK NAME = DFHFCPEC
DESCRIPTIVE NAME  = CICS FC Pool Element (FCPE)

Restricted Materials of IBM

FUNCTION =
     DFHFCPE describes the DSECT for a File Control Pool
     Element. A pool element represents one connection to a
     Coupling Facility Data Table Pool.
     Coupling Facility Data Tables are organised into pools,
     each of which is similar in scope and function to a
     CICS FOR.
     For each table pool which can be accessed by a given MVS
     image, there is a table server region running in that image
```

```
      which manages access to the pool.
      A pool element is created and chained to FC static when a
      file definition that refers to the pool is installed and
      there is not already a pool element for that CFDR pool.
      A connection to the CFDT server is made when CICS opens
      the first table for the pool, and a flag in the FCPE is
      set to indicate that the pool is now connected.
      If the CFDT server goes down the FCPE will be marked
      connect_failed when CICS realises the server has gone.
      This flag is only reset when the server returns
      and a new connection is successfully made. Note : it is
      important that the testing of the connect_failed flag
      is always serialised with any connect that may already
      be in progress, by waiting on the connect complete ECB.
      The address of the head of the FCPE chain in FC Static is
      field FC_FCPE_CHAIN.
      FCPEs are getmained from the FCPE subpool which is
      created by DFHFCRP during File Control Initialisation.
      File Control Pool Elements are freemained by
      DFHFCSD at CICS shutdown when pool disconnections are
      issued.
LIFETIME =
       Created during installation of a file definition that
       refers to the associated pool.
       Deleted at shutdown (when disconnects are also issued
       for all pools to which CICS is currently connected).
STORAGE CLASS =
     Above 16M line. CICS key.
LOCATION =
INNER CONTROL BLOCKS = None.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
```

Table 163.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	76	DFHFCPE	
Eye catcher				
(0)	CHARACTER	16	FCPE_EYE_CATCHER	Eye catcher
(0)	UNSIGNED	2	FCPE_LENGTH	Length of FCPE
(2)	CHARACTER	6	FCPE_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FCPE_EYE2	FCPE
Main part of FCPE				
(10)	CHARACTER	60	FCPE_MAIN_PART	Main part of FCPE
(10)	ADDRESS	4	FCPE_NEXT_ ADDRESS	next in chain
(14)	ADDRESS	4	FCPE_PREV_ ADDRESS	prev in chain
(18)	CHARACTER	8	FCPE_POOL_NAME	Name of pool
(20)	ADDRESS	4	FCPE_CONNECTION_ TOKEN	
				connection token
(24)	FULLWORD	4	FCPE_COUNT_ OF_OPENS	

Table 163. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				CFDTs open for pool
(28)	FULLWORD	4	FCPE_INSTANCE_ NUMBER	
				server instance
(2C)	BIT(8)	1	FCPE_FLAGS	flags
	1...		FCPE_CONNECT_ FAILED	
				server failed
	.1..		FCPE_RESTARTED	a restart call to the server has been issued successfully
	..1.		FCPE_CONNECT_ IN_PROGRESS	
				a CONNECT to this pool is in progress
	...1 1111		*	reserved
(2D)	CHARACTER	3	*	reserved
(30)	ADDRESS	4	FCPE_LOCK_TOKEN	Lock token used for serialisation
(34)	FULLWORD	4	FCPE_LRS_COUNT	Number of free locking request slots (LRSs)
(38)	CHARACTER	8	FCPE_LRS_ WAIT_HEAD	
				Chain head for chain of LRS waiters
(38)	ADDRESS	4	FCPE_FIRST_ LRS_WAITER	
				first LRS waiter in chain
(3C)	ADDRESS	4	FCPE_LAST_ LRS_WAITER	
				last LRS waiter in chain
(40)	CHARACTER	8	FCPE_WAIT_HEAD	Chain head for chain of maxreqs waiters
(40)	ADDRESS	4	FCPE_FIRST_ WAITER	
				first maxreqs waiter in chain
(44)	ADDRESS	4	FCPE_LAST_ WAITER	last maxreqs waiter in chain

Table 163. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	ADDRESS	4	FCPE_OPEN_ FILE_CHAIN	
				anchor for chain of files open against CFDTs in pool

FCPWC File Control CFDT Pool Wait Element

```
CONTROL BLOCK NAME = DFHFCPWC
DESCRIPTIVE NAME  = CICS FC CFDT Pool Wait Element

Restricted Materials of IBM

FUNCTION =
     DFHFCPW describes the DSECT for a File Control CFDT Pool
     Wait Element. A pool wait element represents a task which
     has tried to issue a request to a coupling facility data
     table that resides in a particular server pool, but which
     has to wait because the number of requests allowed in the
     server at any one time has been reached. Depending on
     the kind of request, the FCPW will represent either a
     'Locking request slot' waiter or a 'MaxReqs' waiter.
     A Locking request slot waiter is a Locking request (one
     which will acquire locks) that has to wait because all the
     slots allocated to Locking requests are currently in use.
     A MaxReqs waiter is a non-locking request which has to wait
     because the maximum number of requests (of any kind)
     allowed in the server has been exceeded. Thus the Locking
     request slots are a subset of the MaxReqs slots.
     Different kinds of waiter are chained on separate queues.
     When a request has to wait, it needs to be appended to a
     chain anchored from the pool element, and unchained when
     the request can be resumed. The different kinds of waiter
     are chained on separate wait queues.
     FCPWs are getmained from the FCPW subpool which is
     created by DFHFCRP during File Control Initialisation.
     A file control CFDT Pool Wait Element is freemained
     when the waiter that it represents has been successfully
     resumed.
     The FCPW contains the following fields:
      - Pointer to next FCPW in chain
      - Pointer to previous FCPW in chain
      - Suspend token
      - Task token for the waiting task
      - Suspend start time (for monitoring)
      - Transaction number (for debug - so it appears in a dump)
      - The priority at which the task should be resumed
        (it will be set to a higher priority when it is
        dequeued, to give it more chance of restarting)
      - Some flags, indicating: type of waiter
LIFETIME =
     The lifetime of an FCPW is the time during which the
     waiter task has to wait. It is created by the module
     issuing the request when it is discovered that the request
     will have to wait, and destroyed by that module when the
     request is resumed.
STORAGE CLASS =
     Above 16M line. CICS key.
LOCATION =
     The addresses for the heads of the different FCPW wait
```

```
      chains are in the pool element for the server pool being
      accessed, in fields FCPE_LRS_WAIT_CHAIN (for the Locking
      request slot waiters) and FCPE_WAIT_CHAIN (for the MaxReqs
      waiters).
 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 164.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	DFHFCPW	
Eye catcher for FC CFDT Pool Wait element				
(0)	CHARACTER	16	FCPW_EYE_CATCHER	Eye catcher
(0)	UNSIGNED	2	FCPW_LENGTH	Length of FCPW
(2)	CHARACTER	6	FCPW_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FCPW_EYE2	FCPW
Main part of FC CFDT Pool Wait element				
(10)	CHARACTER	32	FCPW_MAIN_PART	Main part of FCPW
(10)	CHARACTER	8	FCPW_CHAIN	chaining fields
(10)	ADDRESS	4	FCPW_NEXT_ ADDRESS	
				next in chain
(14)	ADDRESS	4	FCPW_PREV_ ADDRESS	
				prev in chain
(18)	ADDRESS	4	FCPW_SUSPEND_ TOKEN	
				suspend token
(1C)	ADDRESS	4	FCPW_TASK_TOKEN	Task token for waiting task
(20)	CHARACTER	8	FCPW_SUSPEND_ TIME	suspend time (for monitoring)
(28)	UNSIGNED	1	FCPW_RESUME_ PRIORITY	
				priority at which task should be resumed
(29)	BIT(8)	1	FCPW_FLAGS	flags
	1...		FCPW_LRS_WAIT	wait is for a Locking request slot

Table 164. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		FCPW_MAXREQS_WAIT	
				wait is for a MaxReqs slot
	..11 1111		*	reserved
(2A)	CHARACTER	2	*	reserved
(2C)	FULLWORD	4	FCPW_TRAN_NUM	Transaction number (for debug purposes)

FCQRE File Control Quiesce Receive Element

```
!:refstep.dfhfcqrc_copybook --------------------------- DFHFCQM 234 -
!
!
! File Control Quiesce Receive Element
!
! Declare the FC Quiesce Receive Element (FCQRE) and associated
! structures and constants.
!
!------------------------------------------------------------------------
!:refstep.fcqm_declare_fcqre ------------------------- DFHFCQM 245 -
!
! Element
!
! Each quiesce request received from VSAM RLS via the quiesce exit
! results in DFHFCQX, the quiesce exit module, creating an FCQRE
! which is passed to DFHFCQR, the quiesce receive system task
! module. FCQREs reside in MVS getmained storage because DFHFCQX has
! no access to CICS services. They are chained in a one-way linked
! list anchored in FC static field FC_FCQRE_FIRST.
!
! Because DFHFCQX runs under a different MVS TCB to DFHFCQR,
! standard compare-and-swap chain manipulation logic is used when
! processing the chain. DFHFCQX adds a new FCQRE to the front of the
! chain. DFHFCQR isolates the chain then reverses the order of the
! FCQREs so that processing occurs oldest first. The isolated chain
! is anchored in FC static field FC_FCQRE_ISOLATE.
!
! There is also a permanent Error FCQRE used for communicating
! errors between DFHFCQX and DFHFCQR. This is addressed from FC
! static field FC_FCQRE_ERROR, and is added to the chain when an
! error occurs.
!
! All FCQREs appear in a CICS system dump, including the Error FCQRE
! if it is in use at the time.
!
!------------------------------------------------------------------------
```

Table 165.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	DFHFCQRE	
(0)	CHARACTER	24	FCQRE_PREFIX	
(0)	HALFWORD	2	FCQRE_LENGTH	length
(2)	CHARACTER	1	FCQRE_ARROW	'>'

Table 165. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	CHARACTER	3	FCQRE_DFH	'DFH'
(6)	CHARACTER	2	FCQRE_DOMAIN	'FC'
(8)	CHARACTER	8	FCQRE_BLOCKNAME	'QRE'
(10)	ADDRESS	4	FCQRE_NEXT	-> next new fcqre
(14)	ADDRESS	4	FCQRE_NEXT_ ISOLATE	
				-> next isolated fcqre
(18)	CHARACTER	72	FCQRE_BODY	
(18)	CHARACTER	44	FCQRE_DATASET	dataset name
(18)	CHARACTER	16	FCQRE_CACHE	cache name
(44)	UNSIGNED	1	FCQRE_ELEMENT_ TYPE	
				type of element
(45)	UNSIGNED	1	FCQRE_QUIESCE_ TYPE	
				type of quiesce request
(46)	UNSIGNED	1	FCQRE_ERROR_ TYPE	type of error request
(47)	BIT(8)	1	FCQRE_FLAGS	flags
	1...		FCQRE_IMMEDIATE	1=immediate close
	.1..		FCQRE_CONCURRENT	1=concurrent copy technique
	..1.		FCQRE_ERROR_ USED	1=error fcqre & in use
	...1 1111		*	reserved
(48)	CHARACTER	8	FCQRE_QUICMP_ TOKEN	
				token to return to vsam rls on quicmp call
(50)	UNSIGNED	4	FCQRE_ERROR_ DATA	error data if error request
(54)	UNSIGNED	4	FCQRE_DATASET_ LENGTH	
				sig length dataset name@P1C
(54)	UNSIGNED	4	FCQRE_CACHE_ LENGTH	
				sig length cache name
(58)	CHARACTER	8	*	reserved

Constants

Table 166.

Len	Type	value	Name	Description
!:erefstep.fcqm_declare_fcqre ---------- !:refstep.fcqm_declare_fcqre_constants ---------- DFHFCQM 301 - ! ! Constants ! ! Declare the constants associated with the FCQRE. There are ! constants for FCQRE type, quiesce type, error type and prefix ! eyecatcher. For the quiesce type constants, the VSAM equivalent is ! shown alongside. ! !----------				
1	DECIMAL	1	FCQRE_QUIESCE_ REQUEST	
1	DECIMAL	2	FCQRE_ERROR_REQUEST	
1	DECIMAL	1	FCQRE_QUIESCE	quiclose
1	DECIMAL	2	FCQRE_UNQUIESCE	quiopen
1	DECIMAL	3	FCQRE_NONBWO_START	quicopy
1	DECIMAL	4	FCQRE_NONBWO_END	quicend
1	DECIMAL	5	FCQRE_BWO_START	quibwo
1	DECIMAL	6	FCQRE_BWO_END	quibend
1	DECIMAL	7	FCQRE_LOCKS_ RECOV_COMPLETE	
				quillrc
1	DECIMAL	8	FCQRE_FWD_ RECOV_COMPLETE	
				quifrc
1	DECIMAL	9	FCQRE_CACHE_ AVAILABLE	
				quica
1	DECIMAL	1	FCQRE_STG_FAILURE	storage obtain macro failed in quiesce exit
8	CHARACTER	QRE	FCQRE_EYE	eyecatcher

FCQSE File Control Quiesce Send Element

```
!:refstep.dfhfcqsc_copybook ---------- DFHFCQM 116 -
!
!
! File Control Quiesce Send Element
!
! Declare the FC Quiesce Send Element (FCQSE) and associated
! structures and constants.
!
!----------
!:refstep.fcqm_declare_fcqse ---------- DFHFCQM 128 -
!
! Element
```

```
!
! Each quiesce request initiated by CICS results in DFHFCQI, the
! quiesce initiate module, creating an FCQSE which is passed to
! DFHFCQS, the quiesce send module. FCQSEs reside in subpool
! FC_ABOVE, the token for which is in FC static. They are chained in
! a two-way linked list anchored in FC static fields FC_FCQSE_FIRST
! and FC_FCQSE_LAST.
!
! FCQSEs are added to the end of the chain by DFHFCQI. The chain is
! scanned from the front by DFHFCQS, so the oldest FCQSE is
! processed first.
!
! All FCQSEs appear in a CICS system dump.
!
!------------------------------------------------------------------------
```

Table 167.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	112	DFHFCQSE	
(0)	CHARACTER	24	FCQSE_PREFIX	
(0)	HALFWORD	2	FCQSE_LENGTH	length
(2)	CHARACTER	1	FCQSE_ARROW	'>'
(3)	CHARACTER	3	FCQSE_DFH	'DFH'
(6)	CHARACTER	2	FCQSE_DOMAIN	'FC'
(8)	CHARACTER	8	FCQSE_BLOCKNAME	'QSE'
(10)	ADDRESS	4	FCQSE_NEXT	-> next fcqse
(14)	ADDRESS	4	FCQSE_PREV	-> prev fcqse
(18)	CHARACTER	88	FCQSE_BODY	
(18)	CHARACTER	44	FCQSE_DSNAME	dataset name
(44)	UNSIGNED	1	FCQSE_QUIESCE_TYPE	
				type of quiesce request
(45)	BIT(8)	1	FCQSE_FLAGS	flags
	1...		FCQSE_WAIT	1=wait for completion
	.1..		FCQSE_CICS	1=cics initiated
	..11 1111		*	reserved
(46)	UNSIGNED	1	FCQSE_RESP_CODE	response from request
(47)	UNSIGNED	1	FCQSE_STATE	element state
(48)	UNSIGNED	4	FCQSE_SUSPEND_TOKEN	
				suspend/resume token
(4C)	ADDRESS	4	FCQSE_VSAM_ECB_ADDR	
				-> vsam rls ecb
(50)	UNSIGNED	4	FCQSE_TIMEOUT_TIME	

Table 167. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				timeout time (secs)
(54)	UNSIGNED	1	FCQSE_CONFLICT	Type of conflicting quiesce
(55)	CHARACTER	3	*	reserved
(58)	CHARACTER	10	FCQSE_USERID	userid of initiating task
(62)	CHARACTER	2	FCQSE_VSAM_RC	vsam rls codes
(62)	UNSIGNED	1	FCQSE_R15	gpr 15
(63)	UNSIGNED	1	FCQSE_REASON	reason code
(64)	CHARACTER	4	FCQSE_TRAN_ NUMBER	xm transaction number of initiating task
(68)	FULLWORD	4	FCQSE_DSNAME_ LENGTH	
				sig length of dsname
(6C)	CHARACTER	4	*	reserved

Table 168.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	STCK_TYPE	store clock data type
(0)	UNSIGNED	4	APPROX_SECONDS	hi-p word approxes to secs
(4)	UNSIGNED	4	REST_OF_STCK	rest of store clock

Constants

Table 169.

Len	Type	value	Name	Description
!:erefstep.fcqm_declare_fcqse ---------- !:refstep.fcqm_declare_fcqse_constants ---------- DFHFCQM 187 - ! ! Constants ! ! Declare the constants associated with the FCQSE. There are ! constants for quiesce type, quiesce response code, FCQSE state, ! conflicting quiesce, and the prefix eyecatcher. ! !----------				
1	DECIMAL	1	FCQSE_QUIESCE	quiesce
1	DECIMAL	2	FCQSE_IMMQUIESCE	immed quiesce
1	DECIMAL	3	FCQSE_UNQUIESCE	unquiesce
1	DECIMAL	4	FCQSE_NONBWO_CANCEL	cancel of a non-bwo backup

Table 169. (continued)

Len	Type	value	Name	Description
1	DECIMAL	5	FCQSE_BWO_CANCEL	cancel of a bwo backup
1	DECIMAL	6	FCQSE_QUIESCE_CANCEL	cancel of a quiesce
1	DECIMAL	1	FCQSE_OK	successful
1	DECIMAL	3	FCQSE_UNKNOWN_ VSAM_DATASET	
				unknown
1	DECIMAL	4	FCQSE_QUIESCE_ NOT_POSSIBLE	
				conflict
1	DECIMAL	5	FCQSE_UNQUIESCE_ NOT_POSSIBLE	
				conflict
1	DECIMAL	7	FCQSE_CANCELLED	cancelled
1	DECIMAL	8	FCQSE_TIMED_OUT	timedout
1	DECIMAL	9	FCQSE_IOERR	i/o error
1	DECIMAL	10	FCQSE_SERVER_FAILURE	no server
1	DECIMAL	11	FCQSE_DATASET_ MIGRATED	
				migrated
1	DECIMAL	12	FCQSE_VSAM_ERROR	vsam abend
1	DECIMAL	13	FCQSE_USER_NOT_AUTH	no auth
1	DECIMAL	1	FCQSE_NEW_STATE	
1	DECIMAL	2	FCQSE_SENT_STATE	
1	DECIMAL	3	FCQSE_TIMEDOUT_STATE	
1	DECIMAL	4	FCQSE_RESUMED_STATE	
1	DECIMAL	1	FCQSE_CONF_QUIESCE	quiesce
1	DECIMAL	2	FCQSE_CONF_UNQUIESCE	unquiesce
1	DECIMAL	3	FCQSE_CONF_NOBWO	no bwo backup
1	DECIMAL	4	FCQSE_CONF_BWO	bwo backup
1	DECIMAL	5	FCQSE_CONF_UNKNOWN	unknown
8	CHARACTER	QSE	FCQSE_EYE	eyecatcher

FCUPC File Control CFDT UOW Pool Block

```
CONTROL BLOCK NAME = DFHFCUPC
DESCRIPTIVE NAME  = CICS (FC) CFDT UOW Pool Block

Restricted Materials of IBM

FUNCTION =
     The FCUP block represents recoverable updates made within
     a unit of work to tables within a coupling facility data
     table pool.
```

```
     THE FCUP block is used by the CF data tables part of the
     File Control component. Each FCUP block represents the
     RMC link to a CF data table pool within a unit of work.
     This means that within a unit of work, each CF data table
     pool which contains one or more CF data tables to which
     the UOW has made recoverable updates will be represented
     by an FCUP block: there is one FCUP block per UOW per
     recoverably-updated CFDT pool.
     FCUP blocks are getmained from the FCUP subpool which is
     created by DFHFCRP during File Control Initialisation.
LIFETIME =
     The lifetime of an FCUP block is the same as that of the
     RMC Link which it represents.
     An FCUP block is created by the CF data tables request
     processor, DFHFCDR, when the first recoverable update is
     made within a unit of work to a table which resides in the
     CF data table pool to which the FCUP block will refer.
     The FCUP block is created at the same time as an RMC link
     is created, and it represents File Control's interest in
     that link.
     The FCUP block is freed at syncpoint time by the CFDT
     Syncpoint processor, DFHFCDW, at the successful completion
     of syncpoint for that pool within the unit of work.
STORAGE CLASS =
     Above 16M line. CICS key.
LOCATION =
     The FCUP blocks for a unit of work are chained from the
     FRAB, addressed by FRAB_FCUP_CHAIN_ADDRESS.
INNER CONTROL BLOCKS =
     None
NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
      None
  DATA AREAS =
      None
  CONTROL BLOCKS =
      THE FCUP block contains pointer to the pool element for
      the CFDT pool it represents, and a back-pointer to the
      FRAB from which it is chained.
  GLOBAL VARIABLES (Macro pass) =
      None
-------------------------------------------------------------------
```

Table 170.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	44	DFHFCUP	
Eye catcher for FC CFDT UOW Pool Block				
(0)	CHARACTER	16	FCUP_EYE_CATCHER	Eyecatcher
(0)	UNSIGNED	2	FCUP_LENGTH	Length of FCUP
(2)	CHARACTER	6	FCUP_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FCUP_EYE2	FCUP
Main part of FC CFDT UOW Pool Block				
(10)	CHARACTER	28	FCUP_MAIN_PART	Main part of FCUP
(10)	CHARACTER	8	FCUP_CHAIN	chaining fields

Table 170. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	ADDRESS	4	FCUP_NEXT_ ADDRESS	
				next in chain
(14)	ADDRESS	4	FCUP_PREV_ ADDRESS	
				prev in chain
(18)	CHARACTER	8	FCUP_POOL_NAME	CFDT Pool Name
(20)	ADDRESS	4	FCUP_LINK_TOK	RMC Link Token
(24)	ADDRESS	4	FCUP_POOL_ ELEM_PTR	
				Pointer to FCPE
(28)	ADDRESS	4	FCUP_FRAB_PTR	Back-pointer to FRAB

FLLBC File Control Locks Locator Block

Table 171.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	DFHFLLB	
Eye catcher				
(0)	CHARACTER	16	FLLB_EYE_CATCHER	Eye catcher
(0)	UNSIGNED	2	FLLB_LENGTH	Length of FLLB
(2)	CHARACTER	6	FLLB_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FLLB_EYE2	FLLB
Main part of FLLB				
(10)	CHARACTER	48	FLLB_MAIN_PART	Main part of FLLB
(10)	ADDRESS	4	FLLB_DSNB_ ADDRESS	DSNB address
(14)	CHARACTER	4	*	
(14)	ADDRESS	4	FLLB_NEXT_ IN_DSNB_CHAIN	
				-> next FLLB in DSNB chain
(18)	CHARACTER	4	*	
(18)	ADDRESS	4	FLLB_PREV_ IN_DSNB_CHAIN	
				-> prev FLLB in DSNB chain
(1C)	CHARACTER	4	*	
(1C)	ADDRESS	4	FLLB_NEXT_ IN_FRAB_CHAIN	

Table 171. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				-> next FLLB in FRAB chain
(20)	CHARACTER	8	FLLB_LUWID	LUWID
(28)	BIT(8)	1	FLLB_LOCK_ CONDITION	
				Lock Condition
	1...		FLLB_LOST_ LOCKS	Lost Locks
	.1..		FLLB_OVERRIDDEN_ LOCKS	
				Overridden Locks
	..1.		FLLB_OFFSITE_ RECOVERY	
				Offsite recovery
	...1 1111		*	Reserved
(29)	CHARACTER	3	*	Reserved
The following chain is task local and needs no lock				
(2C)	ADDRESS	4	FLLB_NEXT_ IN_REMOVE_CHAIN	
				Freemain chain
(30)	ADDRESS	4	FLLB_NEXT_ IN_UNCATLG_CHAIN	
				-> next FLLB
(34)	CHARACTER	12	*	Reserved
(40)	CHARACTER	0	*	

PGHM Handle Manager declarations

```
*****************************************************************
  Handle Table Block
  The Handle Manager owns and manages the repository of the data
  which needs to be held to record a user program's EXEC CICS Handle
  requests.
  Data for each unique Condition, AID or Abend is retained as a
  single entry in the repository: an entry in this repository is
  known as a Handle Table Entry. There are three such tables of
  entries: The Conditions Table which contains the entries for all
  handled Conditions, the AIDs Table which contains the entries for
  all handled AIDs and the Abend Table which contains the entry -
  there can only be one entry in this table - for a handled Abend.
  In addition, 16 bits are set aside in the Block to hold a set of
  flags used to indicate whether any of the following conditions
  have been handled by the user: RDATT, WRBRK, EOF, SIGNAL,
  OVERFLOW, NOSPACE, QBUSY, NOSTG, ENQBUSY, NOJBUFSP, SYSBUSY and
  SESSBUSY. These flags are used by various EXEC CICS API handling
  modules and are provided to improve run-time performance in their
  respective areas.
  A Handle Table Block therefore holds all data representing a
  single level of the handle state. A multi-level handling system
  is enabled with this technique because the current Handle Table
```

```
Block can be stacked at any time, for example as a result of a
PUSH command, and a new level instated: similarly, a previous
level can be reinstated following a POP.
Addressability to the current Handle Table Block is via a pointer
named the Handle Level Token which is defined in the Program
Level Control Block owned by the PG Domain. The Program Level
Control Block is addressed via the PG Domain Transaction Storage
which is in turn anchored off the PG Transaction Token,
managed by the Transaction Manager. The Handle Manager obtains
addressability to the PG Token and thus to the Handle Level Token
using the DFHXMIQ Inquire_Transaction_Token service.
Whenever a Handle Table Block is PUSHed onto the stack and a new
Block created, the new Block contains a pointer, in its
htb_prev_table field, to the PUSHed Block. This both facilitates
the reinstatement of the previous Block if a POP is driven, but
also allows for the speedy freeing up of all Handle Table Blocks
at program termination.
A Handle Table Block is acquired out of the HTB subpool.
====================================================================
```

Table 172.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2020	HTB	
(0)	CHARACTER	16	HTB_PREFIX	
(0)	HALFWORD	2	HTB_LENGTH	
(2)	CHARACTER	1	HTB_ARROW	
(3)	CHARACTER	3	HTB_DFH	
(6)	CHARACTER	2	HTB_DOMID	
(8)	CHARACTER	8	HTB_HTB	
(10)	CHARACTER	8	*	
(10)	ADDRESS	4	HTB_NEXT_FREE	Next free htb
(10)	ADDRESS	4	HTB_PREV_TABLE	address of previous table/zero
(14)	ADDRESS	4	HTB_USED_RSAS	address of 1st in use RSA
(18)	CHARACTER	1996	HTB_TABLES	
(18)	CHARACTER	4	*	
(18)	BIT(16)	2	FASTPATH_FLAGS	
(1A)	BIT(16)	2	*	Conditions table
(1C)	CHARACTER	1500	HTB_CONDITIONS_ TABLE	
				AIDs table
(5F8)	CHARACTER	480	HTB_AIDS_TABLE	Abend table
(7D8)	CHARACTER	12	HTB_ABEND_TABLE	

```
====================================================================
  Handle Table Entry
  An unique entry exists in the appropriate table for every
  possible condition, AID or abend.
  Handle Condition entries are held within the table known as
htb_ conditions_ table: Handle AID entries are held within the
htb_  aids_table: and the single Handle Abend entry is held in
```

```
htb_  abend_table. All three tables form part of the current
  Handle Table Block.
The first byte of every entry - named HTE_  ACTIVE - is used to
  denote whether or not that particular entry is active, ie that
  some user handle for that condition, AID or abend has been issued
  at the current level.
Should HTE_  ACTIVE be 00, ie FALSE, then the entry is not active.
For any value of HTE_  ACTIVE other than 00, the entry IS active.
=====================================================================
```

Table 173.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	HTE	
(0)	BIT(8)	1	HTE_ACTIVE	0 = entry is not active ^0 = this entry is active
	1...		HTE_DEFAULT	
	.1..		HTE_IGNORE	
	..1.		HTE_ABEND_ PROGRAM	handle abend(program)
	...1 1111		*	the 'depending on' value
(1)	BIT(8)	1	HTE_LANGUAGE	the language of the program issuing the handle
(2)	BIT(8)	1	HTE_PROGRAM_MASK	the program mask of the program issuing the handle
(3)	BIT(8)	1	HTE_EXECUTION_ KEY	the execution key of the program issuing the handle
(4)	CHARACTER	8	HTE_PROGRAM	handle abend program name
(4)	CHARACTER	4	HTE_LABEL	handle go to label address
(4)	ADDRESS	4	HTE_COBOL_RSA	RSA address (Cobol only)
(4)	CHARACTER	1	HTE_LABEL_ BYTE	
	1...		HTE_LABEL_ AMODE_31	
				AMODE on=31 off=24
(8)	ADDRESS	4	HTE_USER_RSA	caller's RSA address

```
!:refstep.pg_transaction_token ----------------------- DFHHMDC 249 -
!
! Program Manager Transaction Token
!
! This is a special token, managed by the Transaction Manager, and
```

```
! owned by the PG Domain.
!
! The Handle Manager will use this token in order to find the
! address of the PG Domain's transaction storage: this latter area
! contains the Handle Level Token which is used by the Handle
! Manager to access the current Handle Table Block.
!
! The PG Transaction Token is accessed by the Handle Manager using
! the DFHXMIQ Inquire_Transaction_Token service.
!
!--------------------------------------------------------------------
```

Table 174.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	PG_TRANSACTION_ TOKEN	
(0)	FULLWORD	4	*	
(4)	ADDRESS	4	TRANSACTION_ STG_PTR	

```
======================================================================
  Handle Manager Register Save Area
  A register save area has to be acquired by CICS during the
  processing of Handle requests for Cobol programs: the area is
  needed to hold the contents of the user's registers as at the
  time of the Handle command. These register values remain
  unchanged for the duration of that handle, and do not alter for
  any intervening EXEC CICS commands.
  The Handle registers are necessary because, in the case of Cobol
  programs only, when a handled event occurs, CICS passes control
  back to the program instruction immediately following the Handle:
  this instruction is a Cobol 'goto lab1, lab2.... depending on
  dfheigdi' statement and it needs the register values at the
  original handle in order to operate correctly.
  A single register save area is acquired when needed out of the
  HMRSA subpool. Every distinct event within a single command is
  able to share the same registers, therefore in order to assist
  with the management of the save areas, a count is maintained for
  each area. For every event in any one Handle command the
rsa_  user_count field is incremented by one. Whenever a new
  handle for an event is issued, thereby rendering the first save
  area unwanted for that event, the count is decremented. When the
  count reaches zero, the register save area is returned to the
subpool.
  Register save areas are chained together so that those in use may
  be speedily freed during program termination.
======================================================================
```

Table 175.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	72	RSA	
(0)	CHARACTER	64	RSA_REGS	
(40)	FULLWORD	4	RSA_USER_COUNT	
(44)	ADDRESS	4	RSA_NEXT	

IEDCC IP ECI Domain Control Blocks

```
*****************************************************************

   Restricted Materials of IBM

   This copy book includes the following areas.
    IEA - IE domain anchor block
    IECSB - IE Client State Block
    IECCB - IE Client Conversation Block
    IPHDR - CICS TCPIP Protocol Header
    FMH5 - SNA format FMH5 used in ECI
-----------------------------------------------------------------
*****************************************************************
*****************************************************************
  IEA - IE Anchor block
  This block contains the global storage for the IE domain.
*****************************************************************
```

Table 176.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	IEA	IE domain anchor block
(0)	CHARACTER	16	IEA_PREFIX	
(0)	HALFWORD	2	IEA_LENGTH	
(2)	CHARACTER	1	IEA_ARROW	'>'
(3)	CHARACTER	3	IEA_DFH	'DFH'
(6)	CHARACTER	2	IEA_DOMID	'IE'
(8)	CHARACTER	8	IEA_BLOCK_NAME	'ANCHOR'
(10)	CHARACTER	8	IEA_GENERAL_SUBPOOL	
				General subpool token
(18)	CHARACTER	8	IEA_BUFFER_SUBPOOL	Buffer subpool token
(20)	CHARACTER	8	IEA_CSB_SUBPOOL	IECSB subpool token
(28)	CHARACTER	8	IEA_CCB_SUBPOOL	IECCB subpool token
(30)	ADDRESS	4	IEA_IECSB_CHAIN	IECSB chain anchor
(34)	FULLWORD	4	IEA_APPLID_COUNT	Next applid generation
(38)	CHARACTER	0	*	

```
*****************************************************************
  IECSB - IE Client State Block
  This block contains the state for a specified installed client.
*****************************************************************
```

Table 177.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	104	IECSB	IE Client State Block

Table 177. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	16	IECSB_PREFIX	Eyecatcher
(0)	HALFWORD	2	IECSB_LENGTH	Length including length field
(2)	CHARACTER	1	IECSB_ARROW	'>'
(3)	CHARACTER	3	IECSB_DFH	'DFH'
(6)	CHARACTER	2	IECSB_DOMID	'IE'
(8)	CHARACTER	8	IECSB_BLOCK_ NAME	'CSB'
(10)	CHARACTER	15	IECSB_CLIENT_ IP_ADDR	
				Client's network address
(1F)	CHARACTER	1	*	Filler
(20)	UNSIGNED	4	IECSB_CLIENT_ BIN_IP_ADDR	
				Client's network address
(24)	CHARACTER	8	IECSB_TCPIPSERVICE_ NAME	
				SO name for this port
(2C)	ADDRESS	4	IECSB_FWD_CHAIN	Forward IECSB chain pointer
(30)	ADDRESS	4	IECSB_BWD_CHAIN	Backward IECSB chain pointer
(34)	ADDRESS	4	IECSB_IECCB_ CHAIN	CCBs for this client
(38)	CHARACTER	8	IECSB_APPLID	Applid returned to client
(40)	UNSIGNED	4	IECSB_SOCKET_ TOKEN	This client's SO domain token
(44)	BIT(32)	4	IECSB_FLAGS	Various flags
	1...		IECSB_INSTALL_ RUN	CCIN INSTALL completed
	.1..		IECSB_CONN_ PING_REPLY_ PENDING	
				Connection ping pending
	..1.		IECSB_CONV_ PING_SUPPORTED	
				Conversation ping supported
(44)	BIT(29) POS(4)	4	*	Reserved

Table 177. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	UNSIGNED	4	IECSB_NEXT_SEQ_NO	Conversation sequence number
(4C)	UNSIGNED	4	IECSB_CLIENT_CCSID	Code page - IBM CCSID
(50)	UNSIGNED	4	IECSB_CLIENT_INDEX	Code page - client index
(54)	CHARACTER	10	IECSB_CLIENT_CODEPAGE	
				Code page from CCIN INSTALL
(5E)	BIT(8)	1	IECSB_CLIENT_ENVIRONMENT	
				Environment from CCIN
	1111 11..		*	
	.... ..1.		IECSB_EBCDIC	Character data B'0' - ASCII B'1' - EBCDIC
	1		IECSB_ENDIAN	Binary data B'0' - big endian B'1' - little endian
(5F)	BIT(16)	2	IECSB_CLIENT_CAPABILITIES	
				Capabilities from CCIN
(61)	BIT(8)	1	*	Reserved
(62)	UNSIGNED	2	IECSB_LISTENER_PORT	
				TCPIPSERVICE port number
(64)	UNSIGNED	4	IECSB_SECURITY	Various security flags
(64)	UNSIGNED	1	IECSB_SECURITY_SETTING	
				Local or verify
(65)	UNSIGNED	1	IECSB_ECIATTACH_PASSWORD	
				Password required
(66)	UNSIGNED	1	IECSB_ECIATTACH_USERID	
				Userid required
(67)	UNSIGNED	1	*	Reserved
(68)	CHARACTER	0	*	

```
====================================================================
  IECCB - IE Client Conversation Block
  The IECCB contains the state for a specific conversation with
  the client. A conversation is uniquely identified by its session
  id (which is re-used by the client) and sequence number. An
  IECCB is created when an attach FMH is received for a mirror
  transaction (which flows with BB) and deleted when we send or
receive CEB.
====================================================================
```

Table 178.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	IECCB	IP ECI Client Conversation
(0)	CHARACTER	16	IECCB_PREFIX	Eyecatcher
(0)	HALFWORD	2	IECCB_LENGTH	Length including length field
(2)	CHARACTER	1	IECCB_ARROW	'>'
(3)	CHARACTER	3	IECCB_DFH	'DFH'
(6)	CHARACTER	2	IECCB_DOMID	'IE'
(8)	CHARACTER	8	IECCB_BLOCK_ NAME	'CCB'
(10)	UNSIGNED	4	IECCB_SEQUENCE_ NUM	Conversation sequence number
(14)	UNSIGNED	2	IECCB_SESSION_ID	Identifies this conversation
(16)	UNSIGNED	1	IECCB_SESSION_ STATE	
				Send or Receive
(17)	UNSIGNED	1	IECCB_USER_STATE	Send or Receive
(18)	CHARACTER	4	IECCB_TRAN_ NUMBER	Packed decimal transaction num
(1C)	CHARACTER	4	IECCB_TRANSID	Mirror transaction id
(20)	CHARACTER	4	IECCB_TERMID	Termid for EIBTRMID
(24)	BIT(32)	4	IECCB_FLAGS	Various flags
	1...		IECCB_WAITING	Mirror task in WAIT_MVS
	.1..		IECCB_RECEIVE_ TIMED_OUT	
				WAIT_MVS timed out
	..1.		IECCB_CONV_ PING_RECEIVED	
				Client has sent conv ping req
	...1		IECCB_CONV_ PING_REPLY_ PENDING	

Table 178. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				We sent conv ping req
	.... 1...		IECCB_CONN_ PING_REPLY_ PENDING	
				Initiated by this mirror
	.... .1..		IECCB_DATA_ CROSSED_PING	
				Data recvd while ping pending
	.... ..1.		IECCB_ABEND	Tell CPMI to abend after wait
	1		IECCB_FMH7_SENT	FMH7 has been sent
(25)	1...		IECCB_DELETE_ PENDING	
				About to be deleted
	.1..		IECCB_CONV_ ABENDED	
				Conversation abended
(25)	BIT(22) POS(3)	3	*	Reserved
(28)	ADDRESS	4	IECCB_IECSB_PTR	The IECSB of this IECCB
(2C)	ADDRESS	4	IECCB_FWD_CHAIN	Next conv for this client
(30)	ADDRESS	4	IECCB_BWD_CHAIN	Previous conv for this client
(34)	UNSIGNED	4	IECCB_RECEIVE_ ECB	For the mirror to wait on
(38)	ADDRESS	4	IECCB_INOUT_ DATA_PTR	
				Send/Receive data address
(3C)	FULLWORD	4	IECCB_INOUT_ DATA_LEN	
				Send/Receive data length
(40)	ADDRESS	4	IECCB_BUFFER_PTR	Send/Receive buffer address
(44)	FULLWORD	4	IECCB_BUFFER_LEN	Send/Receive buffer length
(48)	FULLWORD	4	IECCB_TIME_OUT	Read time out in seconds
(4C)	CHARACTER	10	IECCB_USERID	For DFHIEXM

Table 178. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(56)	CHARACTER	10	IECCB_PASSWORD	For DFHIEXM
(60)	CHARACTER	0	*	

Constants

Table 179.

Len	Type	value	Name	Description
========== IE domain constants ========== ---------- MAX_ECI_LEN is the length used by IE domain when getmaining buffers to receive and send data from/to the client. The documented CICS family maximum recommended commarea length is 32500 bytes. However, the only policed restriction is the 32767 byte limit imposed by program manager. We therefore need to allow for a 32K commarea plus space for the headers. ----------				
4	DECIMAL	33792	MAX_ECI_LEN	Max data in one output flow
4	DECIMAL	32768	MAX_ECI_REQ	Max data on input request
---------- MAX_TR_LEN is the length used by IE domain when tracing data received from or sent to a client. ----------				
4	DECIMAL	4000	MAX_TR_LEN	Max data in one trace
---------- IET_ are the constants used to represent the different flow types sent and received by IE domain. ----------				
1	DECIMAL	1	IET_MIRROR_ATTACH	
1	DECIMAL	2	IET_USER_DATA	
1	DECIMAL	3	IET_CCIN_ATTACH	
1	DECIMAL	4	IET_FMH7	
1	DECIMAL	5	IET_CONN_ PING_REQUEST	
1	DECIMAL	6	IET_CONN_PING_REPLY	
1	DECIMAL	7	IET_CONV_ PING_REQUEST	
1	DECIMAL	8	IET_CONV_PING_REPLY	
1	DECIMAL	9	IET_CONV_ PING_REPLY_NOT_ KNOWN	
1	DECIMAL	10	IET_CONV_ PING_REPLY_ABENDED	

Table 179. (continued)

Len	Type	value	Name	Description
1	DECIMAL	11	IET_CONV_ PING_REPLY_NOT_ ABENDED	
1	DECIMAL	12	IET_LAST_FLOW	
1	DECIMAL	13	IET_CTIN_ATTACH	
1	DECIMAL	14	IET_CTIN_ ERROR_RESPONSE	
1	DECIMAL	15	IET_INSTALL_REPLY	
1	DECIMAL	98	IET_ERROR_HANDLED	
1	DECIMAL	99	IET_INVALID_INPUT	
0	BIT	0	IECSB_BIG_ENDIAN	
0	BIT	1	IECSB_LITTLE_ ENDIAN	
1	DECIMAL	1	IE_RECEIVE	ieccb_sess/ user_state value
1	DECIMAL	2	IE_SEND	ieccb_sess/ user_state value
== IE Domain Message numbers ==				
4	DECIMAL	2	IEMSG_SEVERE_ERROR	
4	DECIMAL	1001	IEMSG_BRACKET_ERROR	
4	DECIMAL	1002	IEMSG_CHAIN_ STATE_ERROR	
4	DECIMAL	1003	IEMSG_CLIENT_ NOT_RESPONDING	
4	DECIMAL	1004	IEMSG_LENGTH_ERROR	
4	DECIMAL	1005	IEMSG_INSTALL_FAILED	
4	DECIMAL	1006	IEMSG_NOT_INSTALLED	
4	DECIMAL	1007	IEMSG_INVALID_CCIN	
4	DECIMAL	1008	IEMSG_INVALID_ CCIN_VERSION	
4	DECIMAL	1009	IEMSG_INVALID_ CODEPAGE	
4	DECIMAL	1010	IEMSG_INVALID_ CONV_STATE	
4	DECIMAL	1011	IEMSG_INVALID_ USER_DATA	
4	DECIMAL	1012	IEMSG_NO_CODEPAGE	
4	DECIMAL	1013	IEMSG_UNEXPECTED_ CONN_PING_REPLY	
4	DECIMAL	1101	IEMSG_GETMAIN_ FAILURE	
4	DECIMAL	1102	IEMSG_INVALID_PLIST	

Table 179. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1103	IEMSG_INVALID_ REQUEST	
4	DECIMAL	1104	IEMSG_RECEIVE_ FAILURE	
4	DECIMAL	1105	IEMSG_SEND_FAILURE	
4	DECIMAL	1106	IEMSG_WAIT_FAILURE	
4	DECIMAL	1107	IEMSG_FREEMAIN_ FAILURE	
4	DECIMAL	1201	IEMSG_ATTACH_FAILURE	
4	DECIMAL	1202	IEMSG_CONV_ PING_ABEND	
4	DECIMAL	1203	IEMSG_CTIN_ NOT_SUPPORTED	
4	DECIMAL	1204	IEMSG_EXPECTED_ DATA_MISSING	
4	DECIMAL	1205	IEMSG_INPUT_ NOT_RECOGNISED	
4	DECIMAL	1206	IEMSG_MIRROR_ DISABLED	
4	DECIMAL	1207	IEMSG_MIRROR_ NOT_FOUND	
4	DECIMAL	1208	IEMSG_MIRROR_ SHUTDOWN_DISABLED	
4	DECIMAL	1209	IEMSG_NO_ TERMID_AVAILABLE	
4	DECIMAL	1210	IEMSG_PING_ REPLY_NOT_KNOWN	
4	DECIMAL	1211	IEMSG_REQUESTED_ ABEND	
4	DECIMAL	1212	IEMSG_UNEXPECTED_ USER_DATA	
4	DECIMAL	1213	IEMSG_FMH7_RECEIVED	
========== IE Domain System Dump Codes ==========				
8	CHARACTER	IE1102	IESDC_INVALID_ PLIST	
8	CHARACTER	IE1103	IESDC_INVALID_ REQUEST	
========== FMH7 Sense Codes used by IE domain ==========				
4	DECIMAL	268984331	IESNS_RESOURCE_ FAILURE	
4	DECIMAL	268984353	IESNS_TPN_ NOT_RECOGNIZED	

Table 179. (continued)

Len	Type	value	Name	Description
4	DECIMAL	139157553	IESNS_NOT_ AVAIL_RETRY	
4	DECIMAL	139198464	IESNS_NOT_ AVAIL_NO_RETRY	
4	DECIMAL	140771329	IESNS_DEALLOCATE_ ABEND_SVC	
4	DECIMAL	135203203	IESNS_ACCESS_DENIED	
4	DECIMAL	135225425	IESNS_SECURITY_ NOT_VALID	
== IE Domain trace point ids == ---------- DFHIEIE trace point ids 0001-00FF ----------				
2	DECIMAL	1	TID_IEIE_ENTRY	
2	DECIMAL	2	TID_IEIE_EXIT	
2	DECIMAL	3	TID_IEIE_ INVALID_FORMAT	
2	DECIMAL	4	TID_IEIE_ INVALID_FUNCTION	
2	DECIMAL	5	TID_IEIE_ RECOVERY_ENTERED	
2	DECIMAL	6	TID_IEIE_DATA_BUFFER	
2	DECIMAL	7	TID_IEIE_ MIRROR_POSTED_ NORMAL	
2	DECIMAL	8	TID_IEIE_ MIRROR_POSTED_ TO_ABEND	
2	DECIMAL	9	TID_IEIE_ INPUT_DATA_TYPE	
2	DECIMAL	10	TID_IEIE_ OUTPUT_DATA_TYPE	
2	DECIMAL	11	TID_IEIE_CSB_AND_CCB	
2	DECIMAL	12	TID_IEIE_ DATA_BUFFER_CONT	
2	DECIMAL	16	TID_IEIE_ ATTACH_FAILURE	
2	DECIMAL	17	TID_IEIE_ BRACKET_ERROR	
2	DECIMAL	18	TID_IEIE_ CHAIN_STATE_ERROR	
2	DECIMAL	19	TID_IEIE_ CLIENT_NOT_RESPONDING	
2	DECIMAL	20	TID_IEIE_ CONV_PING_ABEND	

Table 179. (continued)

Len	Type	value	Name	Description
2	DECIMAL	21	TID_IEIE_ CTIN_NOT_SUPPORTED	
2	DECIMAL	22	TID_IEIE_ LENGTH_ERROR	
2	DECIMAL	23	TID_IEIE_ DUPLICATE_SESSION	
2	DECIMAL	24	TID_IEIE_ EXPECTED_DATA_ MISSING	
2	DECIMAL	25	TID_IEIE_ FMH7_RECEIVED	
2	DECIMAL	26	TID_IEIE_ FREEMAIN_FAILURE	
2	DECIMAL	27	TID_IEIE_ GETMAIN_FAILURE	
2	DECIMAL	28	TID_IEIE_ INPUT_NOT_RECOGNISED	
2	DECIMAL	29	TID_IEIE_ INSTALL_FAILED	
2	DECIMAL	31	TID_IEIE_ INVALID_CCIN	
2	DECIMAL	32	TID_IEIE_ INVALID_CCIN_VERSION	
2	DECIMAL	33	TID_IEIE_ INVALID_CODEPAGE	
2	DECIMAL	34	TID_IEIE_ INVALID_CONV_STATE	
2	DECIMAL	35	TID_IEIE_ INVALID_REQUEST	
2	DECIMAL	36	TID_IEIE_ INVALID_USER_DATA	
2	DECIMAL	37	TID_IEIE_NO_CODEPAGE	
2	DECIMAL	38	TID_IEIE_ NO_TERMID_AVAILABLE	
2	DECIMAL	39	TID_IEIE_ NOT_INSTALLED	
2	DECIMAL	40	TID_IEIE_ PING_REPLY_NOT_ KNOWN	
2	DECIMAL	41	TID_IEIE_ SECURITY_ERROR	
2	DECIMAL	42	TID_IEIE_ SO_ASYNC_RECEIVE_ FAILURE	
2	DECIMAL	43	TID_IEIE_ SO_SEND_FAILURE	

Table 179. (continued)

Len	Type	value	Name	Description
2	DECIMAL	44	TID_IEIE_ SO_SYNC_RECEIVE_ FAILURE	
2	DECIMAL	45	TID_IEIE_ UNEXPECTED_CLOSE	
2	DECIMAL	46	TID_IEIE_ UNEXPECTED_CONN_ PING_REPLY	
2	DECIMAL	47	TID_IEIE_ UNEXPECTED_USER_ DATA	
2	DECIMAL	48	TID_IEIE_ WAIT_MVS_FAILURE	
2	DECIMAL	49	TID_IEIE_ MIRROR_NOT_FOUND	
2	DECIMAL	50	TID_IEIE_ MIRROR_DISABLED	
2	DECIMAL	51	TID_IEIE_ MIRROR_SHUTDOWN_ DISABLED	
2	DECIMAL	52	TID_IEIE_ REQUESTED_ABEND	
---------- DFHIEDM trace point ids 0100-01FF ----------				
2	DECIMAL	256	TID_IEDM_ENTRY	
2	DECIMAL	257	TID_IEDM_EXIT	
2	DECIMAL	258	TID_IEDM_ INVALID_FORMAT	
2	DECIMAL	259	TID_IEDM_ INVALID_FUNCTION	
2	DECIMAL	260	TID_IEDM_ RECOVERY_ENTERED	

MDA RQ model class anchor block.

```
!:refstep.dfhiimdc ------------------------------------ DFHIIMD 69 -
!
!
! RQMODEL class.
!
!----------------------------------------------------------------------
```

Table 180.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	4	RQMODEL	
INSTANCE DATA				
Declared Data				

Table 180. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER Priv	4	*	
!:refstep.iimd_class_data ---------- DFHIIMD 187 - ! ! This defines the control blocks used for the RQMODEL class data ! structures. There is a class anchor block which contains data ! items for the class as a whole such as subpool tokens and a lock ! manager token for the class lock. ! ! There are two types of control block, model blocks and browse ! blocks. There is a single doubly-chained list of browse blocks ! which are managed in a fairly standard way. ! ! For the models, there is a global chain containing all models in ! collating sequence of model name. There are also two match ! chains, one for EJB type models and one for CORBA type models. ! Within each chain, the blocks are held in match order (i.e. most ! specific first in case of possible ambiguity). In the case of a ! model which can match both EJB and CORBA requests, the model block ! is inserted into both chains at the appropriate point so that ! matches of either type will find it. ! !---------- ---------- MDA - RQ model class anchor block. ----------				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	572	MDA	
(0)	CHARACTER Prot	8	MDA_EYECATCHER	'MDA '
(8)	CHARACTER Prot	8	MDA_MDB_SPTOKEN	Subpool for mdb's
(10)	CHARACTER Prot	8	MDA_MBR_SPTOKEN	Subpool for mbr's
(18)	ADDRESS Prot	4	MDA_LMTOKEN	LM lock token for RQMODELs
(1C)	CHARACTER Prot	24	*	The format of this section must match mdb
(1C)	ADDRESS Prot	4	MDA_MDB_FIRST	-> first mdb
(20)	ADDRESS Prot	4	MDA_MDB_LAST	-> last mdb
(24)	ADDRESS Prot	4	MDA_MDB_ FIRST_EJB	
				-> first ejb model
(28)	ADDRESS Prot	4	MDA_MDB_ LAST_EJB	-> last ejb model
(2C)	ADDRESS Prot	4	MDA_MDB_ FIRST_CORBA	

Table 180. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				-> first corba model
(30)	ADDRESS Prot	4	MDA_MDB_ LAST_CORBA	
				-> last corba model
(34)	CHARACTER Prot	8	MDA_MBRHEAD	Chain field offsets must match mbr
(34)	ADDRESS Prot	4	MDA_MBR_FIRST	-> first mbr
(38)	ADDRESS Prot	4	MDA_MBR_LAST	-> last mbr
(3C)	CHARACTER Prot	256	MDA_FIELD1	
(13C)	CHARACTER Prot	256	MDA_FIELD2	
(23C)	CHARACTER Prot	0	*	
---------- Header for mdb chain. ----------				
(0)	CHARACTER Prot	*	MDA_MDBHEAD	
---------- MDB - RQ model block. ----------				
(0)	STRUCTURE Prot	*	MDB	
(0)	CHARACTER Prot	109	MDB_FIXED	
(0)	CHARACTER Prot	20	MDB_PREFIX	
(0)	CHARACTER Prot	8	MDB_EYECATCHER	'RRIMDB '
(8)	SIGNED Prot	4	MDB_LENGTH	Total overall length.
(C)	CHARACTER Prot IsA(RQMODELNAME)	8	MDB_NAME	model name field
(14)	CHARACTER Prot	24	MDB_HEAD	
(14)	CHARACTER Prot	24	*	
(14)	ADDRESS Prot	4	MDB_NEXT	-> next mdb
(18)	ADDRESS Prot	4	MDB_PREV	-> prev mdb
(1C)	ADDRESS Prot	4	MDB_NEXT_EJB	
(20)	ADDRESS Prot	4	MDB_PREV_EJB	

Table 180. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	ADDRESS Prot	4	MDB_NEXT_ CORBA	
(28)	ADDRESS Prot	4	MDB_PREV_ CORBA	
(2C)	CHARACTER Prot	6	MDB_ATTRIBUTES	
(2C)	CHARACTER Prot IsA(RQ_TRANID)	4	MDB_TRANID	tranid
(30)	FIXED Prot IsA(RQ_DEMARCATION)	1	MDB_DEMARCATION	
(31)	FIXED Prot IsA(RQ_XCOORDINATOR)	1	MDB_XCOORDINATOR	
(34)	CHARACTER Prot	24	MDB_COMMON_ PARAMETERS	
(34)	CHARACTER Prot IsA(RQ_CORBASERVERNAME)	4	MDB_CORBASERVER	
(38)	UNSIGNED Prot	1	MDB_CORBASERVER_ LEN	
				Significant length
(39)	FIXED Prot IsA(RQ_MODEL_TYPE)	1	MDB_MODEL_ TYPE	
(3A)	CHARACTER Prot	2	*	Reserved padding
(3C)	STRUCTURE Prot IsA(VARG)	16	MDB_OPERATION	
(3C)	ADDRESS Priv	4	VARG_ADDRESS	Address of argument
(40)	SIGNED Priv	4	VARG_OFFSET	Offset from mdb start
(44)	SIGNED Priv	4	VARG_LENGTH	Significant length
(48)	SIGNED Priv	4	VARG_ATTRS	
(48)	BIT(8) Priv	1	VARG_FLAGS	
	1... .... Priv		VARG_GENERIC	This is a generic attribute
	.111 1111 Priv		*	
(49)	CHARACTER Priv	3	*	
(4C)	CHARACTER Prot	32	MDB_SPECIFIC_ PARAMETERS	
(4C)	CHARACTER Prot	17	MDB_EJB_ PARAMETERS	
(4C)	STRUCTURE Prot IsA(VARG)	16	MDB_BEANNAME	

Table 180. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	ADDRESS Priv	4	VARG_ADDRESS	Address of argument
(50)	SIGNED Priv	4	VARG_OFFSET	Offset from mdb start
(54)	SIGNED Priv	4	VARG_LENGTH	Significant length
(58)	SIGNED Priv	4	VARG_ATTRS	
(58)	BIT(8) Priv	1	VARG_FLAGS	
	1... .... Priv		VARG_GENERIC	
				This is a generic attribute
	.111 1111 Priv		*	
(59)	CHARACTER Priv	3	*	
(5C)	FIXED Prot IsA(RQ_INTERFACE_TYPE)	1	MDB_INTERFACE_ TYPE	
(4C)	CHARACTER Prot	32	MDB_CORBA_ PARAMETERS	
(4C)	STRUCTURE Prot IsA(VARG)	16	MDB_MODULE	
(4C)	ADDRESS Priv	4	VARG_ADDRESS	Address of argument
(50)	SIGNED Priv	4	VARG_OFFSET	Offset from mdb start
(54)	SIGNED Priv	4	VARG_LENGTH	Significant length
(58)	SIGNED Priv	4	VARG_ATTRS	
(58)	BIT(8) Priv	1	VARG_FLAGS	
	1... .... Priv		VARG_GENERIC	
				This is a generic attribute
	.111 1111 Priv		*	
(59)	CHARACTER Priv	3	*	
(5C)	STRUCTURE Prot IsA(VARG)	16	MDB_INTERFACE	
(5C)	ADDRESS Priv	4	VARG_ADDRESS	Address of argument
(60)	SIGNED Priv	4	VARG_OFFSET	Offset from mdb start
(64)	SIGNED Priv	4	VARG_LENGTH	Significant length
(68)	SIGNED Priv	4	VARG_ATTRS	
(68)	BIT(8) Priv	1	VARG_FLAGS	

Table 180. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1... .... Priv		VARG_GENERIC	
				This is a generic attribute
	.111 1111 Priv		*	
(69)	CHARACTER Priv	3	*	
(6C)	CHARACTER Prot	1	MDB_MODEL_INFO	
(6C)	BIT(8) Prot	1	MDB_FLAG	model block flags
	1... .... Prot		MDB_GENERIC	generic definition
	.111 1111 Prot		*	Reserved
(6D)	CHARACTER Prot	0	*	
(6D)	CHARACTER Prot	*	MDB_VARIABLE	
---------- MBR - rqmodel browse block. ----------				
(0)	STRUCTURE Prot	28	MBR	
(0)	ADDRESS Prot	4	MBR_NEXT	-> next mbr
(4)	ADDRESS Prot	4	MBR_PREV	-> previous mbr
(8)	CHARACTER Prot	4	MBR_TRANID	browsing tranid
(C)	CHARACTER Prot	4	MBR_TRANNUM	browsing tran number
(10)	CHARACTER Prot	8	MBR_TRANTOKEN	browsing tran token
(18)	ADDRESS Prot	4	MBR_MDBP	-> current mbr
!:erefstep.iimd_class_data ----------				
(0)	CHARACTER Publ	8	RQMODELNAME	
(0)	CHARACTER Publ	4	RQ_TRANID	
(0)	CHARACTER Publ	4	RQ_CCTOKEN	
(0)	CHARACTER Publ	4	RQ_CORBASERVERNAME	
(0)	FIXED Publ	1	REQUESTMODELRESET	
(0)	FIXED Publ	1	REQUESTMODELDATA	
(0)	FIXED Publ	1	RQ_BOOL	
(0)	FIXED Publ	1	RQ_INTERFACE_TYPE	

Table 180. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	FIXED Publ	1	RQ_DEMARCATION	
(0)	FIXED Publ	1	RQ_XCOORDINATOR	
(0)	FIXED Publ	1	RQ_MODEL_TYPE	
(0)	FIXED Publ	1	RQ_LOCK_STATE	
(0)	FIXED Publ	4	MDL_RESPONSE	
This structure is a descriptor for an attribute of a Request Model and several of these may appear in an MDB. The initial value (binary zeroes) will apply only in the case of instances which are explicitly declared initial or are initialized.				
(0)	STRUCTURE Priv	16	VARG	NOT public!
(0)	ADDRESS Priv	4	VARG_ADDRESS	Address of argument
(4)	SIGNED Priv	4	VARG_OFFSET	Offset from mdb start
(8)	SIGNED Priv	4	VARG_LENGTH	Significant length
(C)	SIGNED Priv	4	VARG_ATTRS	
(C)	BIT(8) Priv	1	VARG_FLAGS	
	1... .... Priv		VARG_GENERIC	This is a generic attribute
	.111 1111 Priv		*	Reserved.
(D)	CHARACTER Priv	3	*	Reserved.
(0)	STRUCTURE Prot IsA(VARG)	16	NULL_VARG	All fields are zero.
(0)	ADDRESS Priv	4	VARG_ADDRESS	Address of argument
(4)	SIGNED Priv	4	VARG_OFFSET	Offset from mdb start
(8)	SIGNED Priv	4	VARG_LENGTH	Significant length
(C)	SIGNED Priv	4	VARG_ATTRS	
(C)	BIT(8) Priv	1	VARG_FLAGS	
	1... .... Priv		VARG_GENERIC	This is a generic attribute
	.111 1111 Priv		*	
(D)	CHARACTER Priv	3	*	
This structure is passed to IIMD when a block or buffer parameter is provided at the CDURUN interface.				
(0)	STRUCTURE Publ	12	BUFFER_ELEMENT	

Table 180. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	ADDRESS Publ	4	BUFFER_ADDRESS	Address of area (in/out)
(4)	SIGNED Publ	4	BUFFER_ LENGTH_IN	Length of area (input)
(8)	ADDRESS Publ	4	BUFFER_ LENGTH_OUTP	
				Address of bin for output length

Constants

Table 181.

Len	Type	value	Name	Description
---------- Constants. ----------				
1	CHARACTER	*	GENERIC_CHAR	
8	CHARACTER	>IIMDA	MDA_EYECATCHER_ STRING	
8	CHARACTER	>IIMDB	MDB_EYECATCHER_ STRING	
8	CHARACTER	RQ_MODEL	MODEL_TYPE	
8	CHARACTER	RQLMLOCK	RQ_LOCK_NAME	
4	CHARACTER	CIRP	RQ_DEFAULT_TRANID	
1	DECIMAL	2	RQ_DEFAULT_ DEMARCATION	
1	DECIMAL	1	RQ_DEFAULT_ XCOORDINATOR	
1	CHARACTER		BLANK	
1	CHARACTER	*	STAR	
4	DECIMAL	0	NULL_PTR	
0	BIT	1	TRUE	
0	BIT	0	FALSE	
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	1	RQ_TRUE	
1	DECIMAL	0	RQ_FALSE	
1	DECIMAL	1	RQ_INTERFACE_HOME	
1	DECIMAL	2	RQ_INTERFACE_REMOTE	
1	DECIMAL	3	RQ_INTERFACE_BOTH	

Table 181. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	RQ_OBJECT_MANAGED	
1	DECIMAL	2	RQ_CONTAINER_MANAGED	
1	DECIMAL	1	RQ_RESPECTED	
1	DECIMAL	2	RQ_IGNORED	
1	DECIMAL	1	RQ_EJB_MODEL	
1	DECIMAL	2	RQ_CORBA_MODEL	
1	DECIMAL	3	RQ_GENERIC_MODEL	
1	DECIMAL	1	RQ_LOCK_UNLOCKED	
1	DECIMAL	2	RQ_LOCK_SHARED	
1	DECIMAL	3	RQ_LOCK_EXCLUSIVE	
4	DECIMAL	0	MDL_OK	
4	DECIMAL	1	MDL_NOT_FOUND	
4	DECIMAL	2	MDL_DUPLICATE_NAME	
4	DECIMAL	3	MDL_DUPLICATE_ PATTERN	
4	DECIMAL	4	MDL_END_BROWSE	
4	DECIMAL	5	MDL_INVALID_PATTERN	
4	DECIMAL	6	MDL_PURGED	
4	DECIMAL	7	MDL_DISASTER	
4	DECIMAL	8	MDL_INVALID_NAME	
4	DECIMAL	9	MDL_INVALID_ BROWSE_TOKEN	
4	DECIMAL	10	MDL_CATLG_ READ_FAILURE	
4	DECIMAL	11	MDL_CATLG_ WRITE_FAILURE	
4	DECIMAL	12	MDL_LOCK_ERROR	
4	DECIMAL	13	MDL_PARAMETER_ TOO_LONG	

ISDCC ISC IP Domain Control Blocks

```
!:erefstep.dfhismf_is_http_header_names -----------------------------
!:refstep.dfhismf_is_http_header ---------------------- DFHISMF 122 -
!
! This name of this header is defined in constant ISHH_NAME.
!
! The main IS 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
! function to determine what action to take on receipt of incoming
! IPIC data.
!
! The conversation ID relates the message to its session.
```

```
!
! 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 might 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_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 182.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	41	ISHH	
(0)	CHARACTER	10	ISHH_PREFIX	fixed part of ishh
(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
(4)	CHARACTER	6	ISHH_CONV_ID	conversation ID correlator
(A)	CHARACTER	31	*	
(A)	CHARACTER	31	ISHH_CONV_DATA	data (msg_type=D)
(A)	CHARACTER	13	ISHH_CONV_ DATA_PREFIX	
				fixed part of conv_data
(A)	CHARACTER	6	ISHH_MSG_ SEQNO	message no. w/n conversation

Table 182. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	CHARACTER	1	ISHH_CHAIN	chain indicator: F,M,L,P
(11)	CHARACTER	6	ISHH_CHAIN_ SEQNO	
				chain element sequence no.
(17)	CHARACTER	18	*	
(17)	CHARACTER	18	ISHH_CONV_ ATTACH_DATA	
				reqd if conv_state=B
(17)	CHARACTER	4	ISHH_ATTACH_ TRAN_ID	
				mirror tran ID
(1B)	CHARACTER	8	ISHH_SRC_ TOKEN	WLM SRC token
(23)	CHARACTER	5	ISHH_CCSID	client ccsid:' 'for no conv,'-1 'for default conv
(28)	CHARACTER	1	ISHH_ENDIAN	client endian:0=little,1=big
(A)	CHARACTER	4	ISHH_CMD_DATA	command (msg_type=C|X)
(A)	CHARACTER	2	ISHH_CMD_ID	command
(C)	CHARACTER	2	*	reserved

```
!:erefstep.dfhismf_is_http_header ----------------------------------
!:refstep.dfhismf_is_uow_header ---------------------- DFHISMF 224 -
!
! 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 183.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	54	ISUH	
(0)	CHARACTER	54	ISUH_UOW_ID	Remote UOW ID

```
!:erefstep.dfhismf_is_field_types ----------------------------------
!:refstep.dfhismf_is_field_header --------------------- DFHISMF 287 -
!
```

```
! The generic field header format.
!
!--------------------------------------------------------------------
```

Table 184.

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

```
!:erefstep.dfhismf_is_field_header ---------------------------------
!:refstep.dfhismf_is_capex_req ----------------------- DFHISMF 300 -
!
! 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
! socket is connected, before the connection can be used for any
! other work.
!
! The Capability Exchange both identifies the partner and defines
! any functional constraints it might 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 issuse 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).
!
!--------------------------------------------------------------------
```

Table 185.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	68	ISCE	
(0)	CHARACTER	68	ISCE_V11	length at v1.1
(0)	CHARACTER	2	ISCE_PREFIX	
(0)	UNSIGNED	1	ISCE_MAJOR_ VERSION	
(1)	UNSIGNED	1	ISCE_MINOR_ VERSION	

Table 185. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(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	
	1...		ISCE_INITIATOR	1=capex initiator
	.111 1111		*	Spare
(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

Table 185. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		ISCE_RECOV_ CICS	
	.1..		ISCE_RECOV_XA	
	..11 1111		*	Spare
(3E)	CHARACTER	6	ISCE_CONV_ID	copy of conv_id
(44)	CHARACTER	0	ISCE_SUBFIELDS	Start of variable data

Table 186.

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
(2)	UNSIGNED	1	ISCE_SUB_TYPE	Subfield type
(3)	CHARACTER	*	ISCE_SUB_DATA	Argument data

```
!:erefstep.dfhismf_is_capex_req -------------------------------------
!:refstep.dfhismf_is_capex_resp ---------------------- DFHISMF 387 -
!
! 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 tcpipservice from that used for
! the capability exchange.
! REASON(TCPIPSERVICE_NOT_FOUND)
! Either acquire_connection has been called for an ipconn but the
! tcpipservice named in the ipconn is not installed or
! release_connection has been called for a tcpipservice that is no
! longer installed.
! REASON(TCPIPSERVICE_NOT_OPEN)
! DFHISCO acquire_connection has been called for an ipconn but the
! tcpipservice named in the ipconn is not open.
! REASON(NO_IPCONN)
! DFHISCO acquire or release_connection has been called for a
! tcpipservice 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 acceptable to the
! partner system.
!
!--------------------------------------------------------------------
```

Table 187.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	50	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	

Table 187. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				max sessions allowed
(8)	BIT(64)	8	ISCER_CAPABILITIES	
				system capabilities
(8)	BIT(8)	1	IS_PROTOCOLS	protocols supported
	1...		IS_RECOV_CICS	
	.1..		IS_RECOV_XA	
	..11 1111		*	Spare
(9)	BIT(8)	1	IS_FUNCTIONS	functions supported
	1...		IS_SYNCLEVEL2	
	.1..		IS_DPL	
	..1.		IS_CONTAINER	
	...1 1111		*	Spare
(A)	BIT(8)	1	IS_FUNCTIONS2	More functions supported
	.... 1...		IS_TIMEOUT	TIMEOUT EXPD flows
(B)	BIT(40)	5	*	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

Table 187. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(31)	BIT(8)	1	ISCER_RESULTS	negotiated values
	1...		ISCER_SEC_ VERIFY	auth: verify user sec
	.1..		ISCER_SEC_ IDENTIFY	
				auth: identify user sec
	..1.		ISCER_SEC_ CERTIFICATE	
				auth: certificate sec
	...1		ISCER_RESYNC	resync possible
	 1111		*	Spare

```
!:erefstep.dfhismf_is_capex_resp -----------------------------------
!:refstep.dfhismf_is_syncpoint_command ---------------- DFHISMF 537 -
!
! The Syncpoint Command field (Type 6).
!
! The normal syncpoint exchange is as follows:-
! Initiator -----------Prepare----------> Agent 1
! &lt;------Request Commit--------
!
! Initiator -------Request Commit-------> Agent 2 (=last agent)
! &lt;----------Committed---------
! ------------Forget---------->
!
! Initiator -----------Committed--------> Agent 1
! &lt;-----------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 preceeded 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 188.

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	

Table 188. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(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	
(7)	UNSIGNED	1	PS_SPC_MOD1	

```
!:erefstep.dfhismf_ is_syncpoint_ command -----------------------------
!:refstep.dfhismf_ is_conversation_ error --------------- DFHISMF 620 -
!
  ! The Conversation Error field (Type 7).
!
  ! IS7 messages are similar in intent and content to the SNA FMH7.
  ! Their purpose is to notifiy 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.
!
! - 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 189.

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
	1...		IS7_LOG_DATA	Error msg present
	.111 1111		*	Reserved

Table 190.

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

```
!:erefstep.dfhismf_is_conversation_error ----------------------------
!:refstep.dfhismf_is_uowid_recovery_data -------------- DFHISMF 685 -
!
! 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 191.

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

```
!:erefstep.dfhismf_is_uowid_recovery_data ----------------------------
!:refstep.dfhismf_is_xid_recovery_data ---------------- DFHISMF 708 -
!
! 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 192.

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	

```
!:erefstep.dfhismf_ is_xid_ recovery_data -----------------------------
!:refstep.dfhismf_ is_xid_ recovery_list ---------------- DFHISMF 732 -
!
  ! The XID recovery list field (Type C).
!
  ! An XA client can request that CICS carrys 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 193.

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 194.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	140	XIDRL_ITEM	Recovery list item
(0)	UNSIGNED	4	XIDRL_UOW_TOKEN	CICS UOW token
(4)	CHARACTER	136	XIDRL_XID_VALUE	

```
!:erefstep.dfhismf_ is_xid_ recovery_list -----------------------------
!:refstep.dfhismf_ is_resync_ outcome ------------------- DFHISMF 763 -
!
  ! 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 195.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	RSO_DATA	Type C field data
(0)	CHARACTER	1	RSO_VALUE	Outcome value

```
!:erefstep.dfhismf_is_resync_outcome --------------------------------
!:refstep.dfhismf_is_api_request ---------------------- DFHISMF 822 -
!
! 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 196.

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)

Table 196. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(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 197.

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

```
!:erefstep.dfhismf_is_api_request ----------------------------------
!:refstep.dfhismf_is_channel ------------------------- DFHISMF 873 -
!
! 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 198.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	DFHCHAN	
(0)	UNSIGNED	2	CHAN_LEN	Length of channel header

Table 198. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER	8	CHAN_EYE	Eye catcher
(A)	CHARACTER	16	CHAN_INAME	Name of channel
(1A)	UNSIGNED	1	CHAN_VERSION	Version of channel header
(1B)	CHARACTER	5	*	May be useful one day
(20)	UNSIGNED	4	CHAN_CCSID	Channel code page (as CCSID)
(24)	UNSIGNED	4	CHAN_CNUM	Total number of containers

```
!:erefstep.dfhismf_is_channel ----------------------------------------
!:refstep.dfhismf_is_container ---------------------- DFHISMF 898 -
!
! 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 199.

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	
	1...		CHDR_DELETED	Container is deleted
	.1..		CHDR_CHANGED	Container is changed
	..1.		CHDR_READONLY	Container is readonly
	...1		CHDR_CICS	Container is owned by system
	 1111		*	
(1B)	CHARACTER	1	CHDR_DATATYPE	Datatype (see values below)
(1C)	UNSIGNED	4	CHDR_CCSID	Codepage (as CCSID)

```
!:erefstep.dfhismf_is_container -----------------------------------
!:refstep.dfhismf_is_security ------------------------ DFHISMF 786 -
!
! The Security field (Type 8).
!
! Subfields
!
! - Type 1 - Userid
!
! - Type 2 - Password
!
!-------------------------------------------------------------------
```

Table 200.

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 201.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	10	IS8_STRING_FIELDS	
(0)	CHARACTER	10	IS8_STRING_ USERID	
(0)	CHARACTER	10	IS8_STRING_ PASSWORD	
(0)	UNSIGNED	1	IS8_STRING_ PASSWORD_TYPE	
(0)	CHARACTER	10	IS8_STRING_ GROUPID	

```
====================================================================
  ISA - IS Anchor block
  This block contains the global storage for the IS domain.
====================================================================
```

Table 202.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	220	ISA	IS domain anchor block
(0)	CHARACTER	16	ISA_PREFIX	
(0)	HALFWORD	2	ISA_LENGTH	
(2)	CHARACTER	1	ISA_ARROW	'>'
(3)	CHARACTER	3	ISA_DFH	'DFH'
(6)	CHARACTER	2	ISA_DOMID	'IS'
(8)	CHARACTER	8	ISA_BLOCK_NAME	'ANCHOR'

Table 202. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	CHARACTER	8	ISA_GENERAL_ SUBPOOL	
				General subpool token
(18)	CHARACTER	8	ISA_BUFFER_ SUBPOOL	Buffer subpool token
(20)	CHARACTER	8	ISA_CB_SUBPOOL	ISCB subpool token
(28)	CHARACTER	8	ISA_SB_SUBPOOL	ISSB subpool token
(30)	CHARACTER	8	ISA_AQ_SUBPOOL	ISAQ subpool token
(38)	STRUCTURE IsA(ISSQ)	8	ISA_INPUT_Q	CISR session input queue
(38)	ADDRESS	4	ISSQ_FIRST	Head of queue
(3C)	UNSIGNED	4	ISSQ_COUNT	Guard count
(40)	STRUCTURE IsA(ISSQ)	8	ISA_ERROR_Q	CISE error & message queue
(40)	ADDRESS	4	ISSQ_FIRST	Head of queue
(44)	UNSIGNED	4	ISSQ_COUNT	Guard count
(48)	ADDRESS	4	ISA_ISSS_RETRY_Q	Isss's awaiting retry
(4C)	ADDRESS	4	ISA_CONV_ERROR_Q	Isq conversation error q
(50)	ADDRESS	4	ISA_DFHISAL_ ADDRESS	
				Session management subr
(54)	ADDRESS	4	ISA_DFHISSR_ ADDRESS	
				Send/receive subroutine
(58)	ADDRESS	4	ISA_DFHISZA_ ADDRESS	
				General request logic
(5C)	ADDRESS	4	ISA_DFHISXF_ ADDRESS	
				Transformers
(60)	ADDRESS	4	ISA_DFHISEM_ ADDRESS	
				Error and message handler
(64)	ADDRESS	4	ISA_DFHISRE_ ADDRESS	

Table 202. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Resync processing
(68)	ADDRESS	4	ISA_CISR_ SUSPEND_TOKEN	
(6C)	ADDRESS	4	ISA_CISE_ SUSPEND_TOKEN	
(70)	BIT(8)	1	ISA_FLAGS	
	1...		ISA_TASK_ ATTACH_ISSUED	
				CISR,CISE attach issued
	.1..		ISA_CISR_ WAITING	CISR waiting for data
	..1.		ISA_CISE_ WAITING	CISE waiting for data
	...1		ISA_XRSINDI_ ACTIVE	
				XRSINDI exit status
	.... 1...		ISA_XISQUE_ ACTIVE	XISQUE exit status
	.... .1..		ISA_CONFDATA	hide confidential data
	.... ..1.		ISA_SECURITY_ACTIVE	Security active
	1		*	Spare
(71)	UNSIGNED	1	ISA_IS_STATE	IS domain state
(72)	CHARACTER	2	*	Spare
(74)	CHARACTER	16	ISA_FULL_APPLID	Our fully qualified applid
(74)	CHARACTER	8	ISA_NETWORKID	
(7C)	CHARACTER	8	ISA_APPLID	
(84)	CHARACTER	8	ISA_CAPABILITIES	Capabilities of this system
(84)	BIT(8)	1	IS_PROTOCOLS	
	1...		IS_RECOV_CICS	
	.1..		IS_RECOV_XA	
	..11 1111		*	
(85)	BIT(8)	1	IS_FUNCTIONS	
	1...		IS_SYNCLEVEL2	
	.1..		IS_DPL	
	..1.		IS_CONTAINER	
	...1 1111		*	
(86)	BIT(48)	6	*	

Table 202. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8C)	ADDRESS	4	ISA_ISCB_ CHAIN_LOCK	
				Lock token for iscb chain
(90)	ADDRESS	4	ISA_STATS_ BUFFER_PTR	
				Statistics buffer
(94)	CHARACTER	8	ISA_STATS_ LAST_RESET_TIME	
				Stats last reset time
(9C)	UNSIGNED	4	ISA_APPLID_COUNT	For generating applids
(A0)	ADDRESS	4	ISA_ISIN_ DIRECTORY	ISCB directory by name
(A4)	ADDRESS	4	ISA_ISIA_ DIRECTORY	ISCB directory by applid
(A8)	STRUCTURE IsA(ISSS)	52	ISA_DUMMY_ISSS	Dummy ISSS
(A8)	CHARACTER	1	ISSS_TYPE	'C'/'S' for client/server
(A9)	BIT(8)	1	ISSS_FLAGS	Flags
	1...		ISSS_CONN_ ERROR	Connection level error
	.1..		ISSS_SESS_ ERROR	Web session unusable
	..1.		ISSS_ON_ ERROR_Q	isss error being handled
	...1 1111		*	Spare
(AA)	UNSIGNED	1	ISSS_CONNSTATUS	Session Acq, Rel...
(AB)	CHARACTER	1	*	Spare
(AC)	CHARACTER	8	ISSS_WB_SESSION	Web session
(B4)	ADDRESS	4	ISSS_INPUT_NEXT	Next isss on isa input queue
(B8)	ADDRESS	4	ISSS_RETRY_NEXT	Next isss on isa retry queue
(BC)	ADDRESS	4	ISSS_ERROR_NEXT	Next isss on isa error queue
(C0)	ADDRESS	4	ISSS_WRITE_ LOCK_TOKEN	
				Write lock token
(C4)	STRUCTURE IsA(ISSS_ANCHOR_TYPE)	16	ISSS_ANCHOR	Anchor for ISSBs
(C4)	UNSIGNED	4	ISSS_FREE_ COUNT	Count of free ISSBs

Table 202. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C8)	ADDRESS	4	ISSS_FREE_ISSB	Free pool head of chain
(CC)	ADDRESS	4	ISSS_ACTIVE_ ISSB	Active pool head of chain
(D0)	ADDRESS	4	ISSS_CHAIN_ LOCK_TOKEN	
				Lock token for chains
(D4)	UNSIGNED	4	ISSS_ISSB_ IN_PROGRESS	
				Receive in progress for issb
(D8)	HALFWORD	2	ISSS_ERROR_CODE	Error code for CISE
(DA)	HALFWORD	2	ISSS_RETRY_ COUNT	Retry count for this notify
(DC)	ADDRESS	4	ISA_CISR_ SUSPEND_TOKEN2	CICS suspend token
(E0)	CHARACTER	0	*	

```
====================================================================
  ISCB - IS Connection Block
  This block contains the state for a specified installed IPCONN.
====================================================================
```

Table 203.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	620	ISCB	IS Connection Block
(0)	CHARACTER	16	ISCB_PREFIX	Eyecatcher
(0)	HALFWORD	2	ISCB_LENGTH	Length including length field
(2)	CHARACTER	1	ISCB_ARROW	'>'
(3)	CHARACTER	3	ISCB_DFH	'DFH'
(6)	CHARACTER	2	ISCB_DOMID	'IS'
(8)	CHARACTER	8	ISCB_BLOCK_NAME	'ISCB'
(10)	CHARACTER	8	ISCB_NAME	Name of IPCONN
(18)	CHARACTER	16	ISCB_FULL_APPLID	Partner fully qualified applid
(18)	CHARACTER	8	ISCB_NETWORKID	
(20)	CHARACTER	8	ISCB_APPLID	
(28)	CHARACTER	4	ISCB_STATUS_WORD	EBCDIC of status
(28)	UNSIGNED	1	ISCB_SERVSTATUS	IN or OUT of service
(29)	UNSIGNED	1	ISCB_CONNSTATUS	Acquired, Released...

Table 203. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2A)	CHARACTER	2	*	Spare
(2C)	UNSIGNED	1	ISCB_RECOV_ PROTOCOL	
				CICS or XA
(2D)	UNSIGNED	1	ISCB_AUTOCONNECT	YES or NO from IPCONN
(2E)	UNSIGNED	1	ISCB_PENDSTATUS	PENDING or NOTPENDING
(2F)	UNSIGNED	1	ISCB_RECOVSTATUS	RECOVDATA, NRS...
(30)	UNSIGNED	1	ISCB_XLNSTATUS	XNOTDONE, XOK...
(31)	UNSIGNED	1	ISCB_XLNACTION	KEEP or FORCE from IPCONN
(32)	BIT(8)	1	ISCB_FLAGS	
	1...		ISCB_AUTOINSTALLED	
				IPCONN was autoinstalled
	.1..		*	Spare
	..1.		ISCB_LINK_ SECURITY	
				Link security in use
	...1 1111		*	Spare
(33)	UNSIGNED	1	ISCB_PARTNER_ LOCALITY	
				LOCAL, SYSPLEX or NETWORK
(34)	UNSIGNED	4	ISCB_IPADDRESS	IPv4 address of connected sys
(38)	CHARACTER	8	ISCB_GMT_AI_TIME	Time of autoinstall or null
(40)	ADDRESS	4	ISCB_LOCK	Lock token for this IPCONN
(44)	CHARACTER	10	ISCB_SECURITYNAME	SECURITYNAME from IPCONN
(4E)	CHARACTER	6	*	Spare
---------- IPSERVER - State for using the connected system as a server ----------				
(54)	STRUCTURE IsA(ISSS)	52	ISCB_SERVER_SS	
(54)	CHARACTER	1	ISSS_TYPE	'C'/'S' for client/server

Table 203. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(55)	BIT(8)	1	ISSS_FLAGS	Flags
	1...		ISSS_CONN_ ERROR	Connection level error
	.1..		ISSS_SESS_ ERROR	Web session unusable
	..1.		ISSS_ON_ ERROR_Q	isss error being handled
	...1 1111		*	Spare
(56)	UNSIGNED	1	ISSS_CONNSTATUS	Session Acq, Rel...
(57)	CHARACTER	1	*	Spare
(58)	CHARACTER	8	ISSS_WB_SESSION	Web session
(60)	ADDRESS	4	ISSS_INPUT_NEXT	Next isss on isa input queue
(64)	ADDRESS	4	ISSS_RETRY_NEXT	Next isss on isa retry queue
(68)	ADDRESS	4	ISSS_ERROR_NEXT	Next isss on isa error queue
(6C)	ADDRESS	4	ISSS_WRITE_ LOCK_TOKEN	
				Write lock token
(70)	STRUCTURE IsA(ISSS_ANCHOR_TYPE)	16	ISSS_ANCHOR	Anchor for ISSBs
(70)	UNSIGNED	4	ISSS_FREE_ COUNT	Count of free ISSBs
(74)	ADDRESS	4	ISSS_FREE_ISSB	Free pool head of chain
(78)	ADDRESS	4	ISSS_ACTIVE_ ISSB	Active pool head of chain
(7C)	ADDRESS	4	ISSS_CHAIN_ LOCK_TOKEN	
				Lock token for chains
(80)	UNSIGNED	4	ISSS_ISSB_ IN_PROGRESS	
				Receive in progress for issb
(84)	HALFWORD	2	ISSS_ERROR_CODE	Error code for CISE
(86)	HALFWORD	2	ISSS_RETRY_ COUNT	Retry count for this notify
(88)	CHARACTER	0	*	
(88)	CHARACTER	116	ISCB_HOST	Host name from IPCONN
(FC)	UNSIGNED	4	ISCB_HOST_LEN	Length of host name

Table 203. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(100)	FULLWORD	4	ISCB_PORTNUMBER	PORTNUMBER from IPCONN. NO=-1
(104)	UNSIGNED	4	ISCB_SENDCOUNT	SENDCOUNT from IPCONN
(108)	UNSIGNED	4	ISCB_SENDLIMIT	Negotiated send limit
(10C)	FULLWORD	4	ISCB_QUEUELIMIT	QUEUELIMIT from IPCONN. NO=-1
(110)	FULLWORD	4	ISCB_MAXQTIME	MAXQTIME from IPCONN. NO=-1
(114)	UNSIGNED	4	*	Spare
(118)	ADDRESS	4	ISCB_ISAQ	ISAQ chain first element
(11C)	ADDRESS	4	ISCB_ISAQ_END	ISAQ chain last element
(120)	ADDRESS	4	ISCB_ISAQ_SYSTEM	System ISAQ chain first element
(124)	ADDRESS	4	ISCB_ISAQ_ SYSTEM_END	
				System ISAQ chain last element
(128)	CHARACTER	8	ISCB_CAPABILITIES	Capabilities of the partner
(128)	BIT(8)	1	IS_PROTOCOLS	
	1...		IS_RECOV_CICS	
	.1..		IS_RECOV_XA	
	..11 1111		*	
(129)	BIT(8)	1	IS_FUNCTIONS	
	1...		IS_SYNCLEVEL2	
	.1..		IS_DPL	
	..1.		IS_CONTAINER	
	...1 1111		*	
(12A)	BIT(48)	6	*	
(130)	UNSIGNED	4	ISCB_DPL_COUNT	Number of DPL requests sent
(134)	UNSIGNED	4	ISCB_TRANS_ ATTACHED	
				No. transactions attached

Table 203. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(138)	BIT(64)	8	ISCB_BYTES_SENT	IS bytes sent (dword aligned)
(140)	BIT(64)	8	ISCB_BYTES_ RECEIVED	
				IS bytes rcvd (dword aligned)
(148)	FULLWORD	4	ISCB_READ_ TIMEOUT	Timeout from tcpipservice
(14C)	UNSIGNED	1	ISCB_USERAUTH_ PARTNER	
				USERAUTH of partner
(14D)	CHARACTER	1	*	Spare
(14E)	UNSIGNED	1	ISCB_SSLTYPE	Is SSL on?
(14F)	UNSIGNED	1	ISCB_CIPHER_ COUNT	cipher count
(150)	CHARACTER	64	ISCB_CIPHER_LIST	ciphers
(190)	CHARACTER	28	ISCB_CIPHER_ SUITES	cipher suites
(1AC)	CHARACTER	32	ISCB_CERTIFICATE_ LABEL	
				certificate label
(1CC)	CHARACTER	4	ISCB_STATE_FLAGS	
(1CC)	BIT(8)	1	*	
	1...		ISCB_ALLOCATE_ QUEUE_PURGED	
				Allocate queue purged state
	.1..		ISCB_ISSB_ ORPHANED	
				An ISSB has been orphaned
	..11 1111		*	Spare
(1CD)	CHARACTER	3	*	Spare state flags
---------- IPCLIENT - State for the connected system acting as a client ----------				
(1D0)	STRUCTURE IsA(ISSS)	52	ISCB_CLIENT_SS	
(1D0)	CHARACTER	1	ISSS_TYPE	'C'/'S' for client/server
(1D1)	BIT(8)	1	ISSS_FLAGS	Flags
	1...		ISSS_CONN_ ERROR	Connection level error
	.1..		ISSS_SESS_ ERROR	Web session unusable

Table 203. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		ISSS_ON_ ERROR_Q	isss error being handled
	...1 1111		*	Spare
(1D2)	UNSIGNED	1	ISSS_CONNSTATUS	Session Acq, Rel...
(1D3)	CHARACTER	1	*	Spare
(1D4)	CHARACTER	8	ISSS_WB_SESSION	Web session
(1DC)	ADDRESS	4	ISSS_INPUT_NEXT	Next isss on isa input queue
(1E0)	ADDRESS	4	ISSS_RETRY_NEXT	Next isss on isa retry queue
(1E4)	ADDRESS	4	ISSS_ERROR_NEXT	Next isss on isa error queue
(1E8)	ADDRESS	4	ISSS_WRITE_ LOCK_TOKEN	
				Write lock token
(1EC)	STRUCTURE IsA(ISSS_ANCHOR_TYPE)	16	ISSS_ANCHOR	Anchor for ISSBs
(1EC)	UNSIGNED	4	ISSS_FREE_ COUNT	Count of free ISSBs
(1F0)	ADDRESS	4	ISSS_FREE_ISSB	Free pool head of chain
(1F4)	ADDRESS	4	ISSS_ACTIVE_ ISSB	Active pool head of chain
(1F8)	ADDRESS	4	ISSS_CHAIN_ LOCK_TOKEN	
				Lock token for chains
(1FC)	UNSIGNED	4	ISSS_ISSB_ IN_PROGRESS	
				Receive in progress for issb
(200)	HALFWORD	2	ISSS_ERROR_CODE	Error code for CISE
(202)	HALFWORD	2	ISSS_RETRY_ COUNT	Retry count for this notify
(204)	CHARACTER	0	*	
(204)	CHARACTER	8	ISCB_TCPIPSERVICE	TCPIPSERVICE name from IPCONN
(20C)	UNSIGNED	4	ISCB_RECEIVECOUNT	RECEIVECOUNT from IPCONN
(210)	UNSIGNED	4	ISCB_RECVLIMIT	Negotiated receive limit
(214)	FULLWORD	4	ISCB_LINK_ USER_TOKEN	

Table 203. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Link security user token
(218)	UNSIGNED	1	ISCB_LINKAUTH	LINKAUTH from IPCONN
(219)	UNSIGNED	1	ISCB_USERAUTH	USERAUTH from IPCONN
(21A)	BIT(8)	1	*	
	1...		ISCB_RECV_ AVAIL_WAIT	Recv ISSB available wait
(21B)	CHARACTER	5	*	Spare
---------- Statistics and time fields ----------				
(220)	UNSIGNED	4	ISCB_CURRENT_ SEND_SESSIONS	
				Current send sessions
(224)	UNSIGNED	4	ISCB_PEAK_ SEND_SESSIONS	
				Peak send sessions
(228)	UNSIGNED	4	ISCB_CURRENT_ RECEIVE_SESSIONS	
				Current receive sessions
(22C)	UNSIGNED	4	ISCB_PEAK_ RECEIVE_SESSIONS	
				Peak receive sessions
(230)	UNSIGNED	4	ISCB_TOTAL_ ALLOCATES	
				Total no. of ALLOCATE_SENDs
(234)	UNSIGNED	4	ISCB_CURRENT_ QUEUED_ALLOCATES	
				Current ALLOCATE_SEND requests that are queued
(238)	UNSIGNED	4	ISCB_QUEUED_ ALLOCATES_ SATIFIED	
				Number of ALLOCATE_SENDs since queue started
(23C)	UNSIGNED	4	ISCB_PEAK_ QUEUED_ALLOCATES	

Table 203. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Peak number of ALLOCATE_SEND requests that were queued
(240)	UNSIGNED	4	ISCB_ALLOCATES_ FAILED_LINK	
				ALLOCATE_SENDs failed due to IPCONN out or released
(244)	UNSIGNED	4	ISCB_ALLOCATES_ FAILED_OTHER	
				ALLOCATE_SENDs failed due to sessions not available
(248)	UNSIGNED	4	ISCB_QLIMIT_ ALLOC_REJECTS	
				ALLOCATE_SENDs rejected due to QUEUELIMIT
(24C)	UNSIGNED	4	ISCB_MAXQTIME_ ALLOC_QPURGES	
				Queue of ALLOCATE_SENDs purged due to MAXQTIME
(250)	UNSIGNED	4	ISCB_MAXQTIME_ ALLOCS_PURGED	
				ALLOCATE_SENDs purged due to MAXQTIME
(254)	UNSIGNED	4	ISCB_XISQUE_ ALLOC_REJECTS	
				ALLOCATE_SENDs rejected due to user exit
(258)	UNSIGNED	4	ISCB_XISQUE_ ALLOC_QPURGES	
				Queue of ALLOCATE_SENDs purged due to user exit
(25C)	UNSIGNED	4	ISCB_XISQUE_ ALLOCS_PURGED	
				ALLOCATE_SENDs purged due to user exit
(260)	CHARACTER	8	ISCB_ALLOCATE_ QUEUE_START_TIME	

Table 203. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Time when current queue of
(260)	UNSIGNED	4	ISCB_ALLOCATE_QUEUE_START_TIME_WORD1	
				ALLOCATE_SENDs
(264)	UNSIGNED	4	ISCB_ALLOCATE_QUEUE_START_TIME_WORD2	
				started
(268)	UNSIGNED	4	ISCB_FREES_WHILE_QUEUE_PURGED	
				Number of FREE_SENDs while queue is in purged state

(26C)	CHARACTER	0	*	

```
====================================================================
  ISSB - IS Session Block
  The ISSB represents a particular session with a connected
  system. It serves the same function as a session TCTTE in APPC.
====================================================================
```

Table 204.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	173	ISSB	ISC/IP Session
(0)	CHARACTER	16	ISSB_PREFIX	Eyecatcher
(0)	HALFWORD	2	ISSB_LENGTH	Length including length field
(2)	CHARACTER	1	ISSB_ARROW	'>'
(3)	CHARACTER	3	ISSB_DFH	'DFH'
(6)	CHARACTER	2	ISSB_DOMID	'IS'
(8)	CHARACTER	8	ISSB_BLOCK_NAME	'ISB'
(10)	CHARACTER	4	ISSB_TERMID	Termid for EIBTRMID
(14)	ADDRESS	4	ISSB_FWD_CHAIN	Fwd chain to next issb in the same pool or zero
(18)	CHARACTER	1	ISSB_USE	Type of use, send or receive
(19)	CHARACTER	1	ISSB_POOL	Current pool for this issb
(1A)	UNSIGNED	2	*	Spare

Table 204. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	ADDRESS	4	ISSB_FACILITY_ FWD_CHAIN	
				Fwd chain to next issb in use by the same task
(20)	ADDRESS	4	ISSB_ISCB_PTR	Address of iscb
(24)	ADDRESS	4	ISSB_SUSPEND_ TOKEN	IO wait token
(28)	ADDRESS	4	ISSB_BUFFER_PTR	IO buffer
(2C)	UNSIGNED	4	ISSB_BUFFER_ DATA_LENGTH	
				Length of data in buffer
(30)	FULLWORD	4	ISSB_PRINCIPAL_ USER_TOKEN	
				Principal user token
(34)	CHARACTER	8	ISSB_BLE (5)	Buffer list elements
(34)	ADDRESS	4	ISSB_BLE_BUFP	BLE buffer pointer
(38)	FULLWORD	4	ISSB_BLE_DATAL	BLE data length

(5C)	CHARACTER	0	ISSB_FIELDS	Fields used by a task from Allocate until Free
(5C)	UNSIGNED	4	ISSB_CONV_ID	Identifies this conversation
(60)	UNSIGNED	1	*	Spare
(61)	BIT(8)	1	ISSB_TIMEOUT	Timeout flags
	1...		ISSB_DO_NOT_ TIMEOUT	In WB write_response
	.1..		ISSB_TIMEOUT_ RCVD	EXPD CMD received
(62)	UNSIGNED	2	ISSB_ERROR_CODE	Conversation error code (tid)
(64)	CHARACTER	4	ISSB_TRAN_NUMBER	Packed decimal transaction num
(68)	CHARACTER	4	ISSB_TRAN_ID	Mirror transaction id
(6C)	UNSIGNED	4	ISSB_DATA_LEN	Receive data length
(70)	ADDRESS	4	ISSB_BUF_NAB	Next available byte in buffer
(74)	FULLWORD	4	ISSB_READ_ TIMEOUT	Read time out from profile

Table 204. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(78)	ADDRESS	4	ISSB_ERROR_NEXT	Next issb on error queue
(7C)	CHARACTER	4	ISSB_CONV	Conversation interlock data
(7C)	UNSIGNED	1	ISSB_WB_STATE	IS comms protocol state
(7D)	BIT(8)	1	ISSB_CS_FLAGS	flags needing CS logic
	1...		ISSB_TASK_ WAITING	
				Waiting to be notified of data
	.1..		*	Spare
	..1.		ISSB_MSG_ AVAILABLE	
				Request already in buffer
	...1		ISSB_PACING_ RECEIVED	
				Request already in buffer
	.... 1...		ISSB_RECV_ CHAINING	
				Receiving a chain
	.... .1..		ISSB_LAST_ RECEIVED	
				ishh_last received
	11		*	Spare
(7E)	UNSIGNED	1	ISSB_WB_BLE	last buffer received from WB
(7F)	UNSIGNED	1	ISSB_IS_BLE	last buffer returned by IS
(80)	UNSIGNED	1	ISSB_BLE_STATUS (5)	BLE Buffer status
(85)	UNSIGNED	1	ISSB_STATE	User conversation state
(86)	BIT(8)	1	ISSB_FLAGS1	
	1...		ISSB_SEND_ CHAINING	
				Sending a chain
	.111 1111		*	Spare
(87)	BIT(8)	1	ISSB_FLAGS2	

Table 204. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		*	Spare
	.1..		ISSB_CONV_ERROR	Conversation error queued
	..1.		ISSB_ABEND	Task must abend when resumed
	...1		ISSB_ATTACH_ SENT	Attach has been sent
	.... 1...		ISSB_IS7_SENT	Error IS field has been sent
	.... .1..		ISSB_SYSTEM	alloc'd as system_service(yes)
	.... ..1.		ISSB_ORPHANED_ DUE_TO_ERROR	
				Unable to free ISSB because unable to lock after error
	1		ISSB_CONFDATA	hide confidential data
(88)	CHARACTER	9	ISSB_LOGNAME	Resource manager log name
(88)	UNSIGNED	1	ISSB_LOGNAME_ LENGTH	
				Length of log name
(89)	CHARACTER	8	ISSB_LOGNAME_ DATA	Log name
(91)	BIT(8)	1	*	
	1...		ISSB_INITIAL_ RECEIVE	
				Initialize receiver called
	.1..		ISSB_USER_ADDED	User added during attach
	..1.		*	Spare
	...1		ISSB_SFU	Free at user syncpoint
	.... 1...		ISSB_SFR	Free at restart
	.... .1..		ISSB_SPUN	Not protected at start
	.... ..1.		ISSB_SRBR	Rollback received (=tctesrbr)
	1		ISSB_ABP	Abend pending (=tcteabp)

Table 204. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(92)	BIT(8)	1	ISSB_SPS	Syncpoint flags (=tctesps)
	1...		ISSB_SPSH	Shunt received (=tctespsh)
	.1..		ISSB_SPAB	Issue Abend (=tctespab)
	..1.		ISSB_SPER	Issue Error (=tctesper)
	...1		ISSB_SPRB	Sync Rollback (=tctesprb)
	.... 1...		ISSB_SPSS	SP request sent (=tctespss)
	.... .1..		ISSB_SPID	In-doubt indicated (=tctespid)
	.... ..1.		ISSB_SPSR	Received (=tctespsr)
	1		ISSB_SPPR	Prepare received (=tctesppr)
(93)	BIT(8)	1	ISSB_SPSA	Additional SP flags (=tctespsa)
	1...		ISSB_2PC_ SESS_FAIL	
				session failure during 2PC
	.1..		ISSB_SPRP	Send Prepare (=tctesprp)
	..1.		ISSB_SPRC	Send Prepare Invite (=tctesprc)
	...1		ISSB_SPRL	Send Prepare Req EB (=tctesprl)
	.... 1...		ISSB_RPRC	Receive Prepare Invite (=tctesprc)
	.... .1..		ISSB_RPRL	Receive Prepare Req EB (=tcterprl)
	11		*	reserved
(94)	BIT(8)	1	ISSB_CSFG	Conversation State Flags
	1...		ISSB_BBS	BB sent by ISSR
	.1..		ISSB_BBR	BB received by ISRR
	..1.		ISSB_CEBS	EB reqd on next send (=tctecebs)
	...1		ISSB_CEBR	EB received by ISRR (=tctecebr)

Table 204. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		ISSB_EBS	EB sent by ISSR
	.... .1..		ISSB_CCDS	CD to be sent (=tcteccds)
	.... ..1.		ISSB_CCDR	CD received (= tcteccdr)
	1		ISSB_IMP	IMPLICIT SEND (= tcteimp)
(95)	BIT(8)	1	ISSB_CVT	(=tctecvt)
	1111 1...		*	reserved
	.... .1..		ISSB_MAPD	Mapped Conversation(=tctemapd)
	.... ..1.		ISSB_CPIC	Is CPIC (=tctecpic)
	1		ISSB_NCPC	Is not CPIC (=tctencpc)
(96)	BIT(8)	1	ISSB_FLAGS3	
	1...		ISSB_LIC	Last in chain received
	.1..		ISSB_PURGE_SENT	Purge sent or received
	..1.		ISSB_FORCE_SENT	Forcepurge sent or received
	...1		ISSB_KILL_SENT	Kill sent or received
	.... 1...		ISSB_PURGED	Purged
	.... .1..		ISSB_FORCED	Forcepurged
	.... ..1.		ISSB_KILLED	Killed
	1		ISSB_BIG_ENDIAN	1=Client is big endian
(97)	CHARACTER	1	ISSB_SPL	Syncpoint level (=tctespl)
(98)	UNSIGNED	4	ISSB_CURRENT_RM_LINK	
				Current RM Link Token
(9C)	UNSIGNED	4	ISSB_PENDING_RM_LINK	
				Pending RM Link Token
(A0)	FULLWORD	4	ISSB_MSG_SEQNO	Last msg sequence no. sent/received
(A4)	CHARACTER	2	ISSB_COMMAND	conversation level command in progess

Table 204. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A6)	UNSIGNED	2	ISSB_CHAIN_SEQ_LAST	Last chain sequence no. sent
(A8)	UNSIGNED	2	ISSB_CHAIN_SEQ_LAST_R	Last chain sequence no. received
(AA)	UNSIGNED	2	ISSB_CCSID	client ccsid (0=no conversion)
(AC)	UNSIGNED	1	ISSB_CHAIN_COUNT	No.of chain elems since pacing sent
(AD)	CHARACTER	0	ISSB_FIELDS_TAIL	

```
======================================================================
  ISCR - The IPCONN catalog record
  Each IPCONN is recorded on the Global Catalog when installed so
  that it can be recovered during a warm start.
======================================================================
```

Table 205.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	285	ISCR	IS Catalog Record
(0)	CHARACTER	8	ISCR_NAME	Name of IPCONN
(8)	CHARACTER	16	ISCR_FULL_APPLID	Partner fully qualified applid
(8)	CHARACTER	8	ISCR_NETWORKID	
(10)	CHARACTER	8	ISCR_APPLID	
(18)	UNSIGNED	1	ISCR_SERVSTATUS	IN or OUT of service
(19)	UNSIGNED	1	ISCR_AUTOCONNECT	YES or NO from IPCONN
(1A)	UNSIGNED	1	ISCR_XLNACTION	KEEP or FORCE from IPCONN
(1B)	CHARACTER	1	*	Spare
	1...		ISCR_AUTOINSTALLED	
				The IPCONN was autoinstalled
	.111 1111		*	Spare
(1C)	CHARACTER	116	ISCR_HOST	Host name from IPCONN
(90)	UNSIGNED	4	ISCR_HOST_LEN	Length of host name
(94)	UNSIGNED	4	ISCR_PORTNUMBER	PORTNUMBER from IPCONN

Table 205. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(98)	UNSIGNED	4	ISCR_SENDCOUNT	SENDCOUNT from IPCONN
(9C)	FULLWORD	4	ISCR_QUEUELIMIT	QUEUELIMIT from IPCONN. NO=-1
(A0)	FULLWORD	4	ISCR_MAXQTIME	MAXQTIME from IPCONN. NO=-1
(A4)	CHARACTER	8	ISCR_TCPIPSERVICE	TCPIPSERVICE name from IPCONN
(AC)	UNSIGNED	4	ISCR_RECEIVECOUNT	RECEIVECOUNT from IPCONN
(B0)	CHARACTER	10	ISCR_SECURITYNAME	SECURITYNAME from IPCONN
(BA)	UNSIGNED	1	ISCR_SSLTYPE	SSLTYPE from IPCONN
(BB)	CHARACTER	32	ISCR_CERTIFICATE	CERTIFICATE NAME from IPCONN
(DB)	CHARACTER	64	ISCR_CIPHER_LIST	CIPHER LIST from IPCONN
(11B)	UNSIGNED	1	ISCR_USERAUTH	USERAUTH from IPCONN
(11C)	UNSIGNED	1	ISCR_LINKAUTH	LINKAUTH from IPCONN
(11D)	CHARACTER	0	*	

```
====================================================================
  ISAQ - IS Session Allocation Queue Element
  An ISAQ is used to record data associated with a request to
  allocate an ISSB session which is queued waiting for an
  ISSB session to become free.
  Note that the use of this control block is similar to the use
  of an allocate type AID with LU62 communications.
====================================================================
```

Table 206.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	ISAQ	ISAQ control block
(0)	CHARACTER	16	ISAQ_PREFIX	
(0)	HALFWORD	2	ISAQ_LENGTH	
(2)	CHARACTER	1	ISAQ_ARROW	'>'
(3)	CHARACTER	3	ISAQ_DFH	'DFH'
(6)	CHARACTER	2	ISAQ_DOMID	'IS'
(8)	CHARACTER	8	ISAQ_BLOCK_NAME	'ISAQ'
(10)	ADDRESS	4	ISAQ_CHAIN_FWD	Forward chain ptr

Table 206. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	UNSIGNED	4	ISAQ_SUSPEND_ CLOCK	TOD clock when suspended
(18)	CHARACTER	16	ISAQ_DATA_ STRUCTURE	
(18)	ADDRESS	4	ISAQ_ISCB_PTR	ISCB for this ISAQ
(1C)	CHARACTER	4	ISAQ_TRAN_ NUMBER	XM transaction number of queueing task
(20)	ADDRESS	4	ISAQ_SUSPEND_ TOKEN	
				DS suspend token
(24)	BIT(8)	1	ISAQ_STATUS	Status of this ISAQ
	1...		ISAQ_SYSTEM_ SERVICE	
				System service request
	.1..		ISAQ_SUSPENDED	DS suspend issued
	..1.		ISAQ_RESUMED	DS resume issued
	...1		ISAQ_CANCEL	Request to be cancelled
	.... 1...		ISAQ_ORPHANED_ DUE_TO_ERROR	
				Error stopped element being unchained, no task associated
	.... .111		*	Spare
(25)	UNSIGNED	1	ISAQ_RESUME_ REASON	
				Resume reason
(26)	CHARACTER	2	*	Spare

```
====================================================================
  XMAT attach parms for the CISC connection acquire and release.
  session_type applies only to iscop_terminate
  resource_type applies only to iscop_release
====================================================================
```

Table 207.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	ISCOP_ATTACH_ PARMS	
(0)	UNSIGNED	1	ISCOP_FUNCTIONS	ISCO function required

Table 207. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	UNSIGNED	1	ISCOP_SESSION_ TYPE	client, server or both
(2)	UNSIGNED	1	ISCOP_RESOURCE_ TYPE	
				ipconn, tcpipservice
(3)	CHARACTER	1	*	Spare
(4)	CHARACTER	8	ISCOP_RESOURCE_ NAME	
				IPCONN or TCPIPISERVICE name

Constants

Table 208.

Len	Type	value	Name	Description

`!:refstep.dfhismf_is_http_header_names ---------- DFHISMF 108 -`
`!`
`  Restricted Materials of IBM`
`!`
`! 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	
17	CHARACTER	X-ibm-cics-is-uo w	ISUH_NAME	
17	CHARACTER	X-ibm-cics-is-od r	ISOH_NAME	
`Values of major_version`				
1	CHARACTER	1	ISHH_MAJOR_CURRENT	
`Values of minor_version`				
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

Table 208. (continued)

Len	Type	value	Name	Description
1	CHARACTER	I	ISHH_IN	in conversation
1	CHARACTER	E	ISHH_END	final or only req/resp
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
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
Values of ishh_cmd_id for ishh_msg_type=ISHH_EXPD				
2	CHARACTER	51	ISHH_PURGE_NORMAL	purge
2	CHARACTER	52	ISHH_PURGE_FORCE	forcepurge
2	CHARACTER	53	ISHH_PURGE_KILL	kill
!:erefstep.dfhismf_is_uow_header ---------- !:refstep.dfhismf_is_field_types ---------- DFHISMF 241 - ! ! 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 - CAPABILITIY EXCHANGE REQUEST				
2	DECIMAL	1	ISFLD_TYPE_CE	
TYPE 2 - CAPABILITIY EXCHANGE RESPONSE				
2	DECIMAL	2	ISFLD_TYPE_CER	
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	

Table 208. (continued)

Len	Type	value	Name	Description
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 43 - API REQUEST/RESPONSE (= SNA FMH43)				
2	DECIMAL	67	ISFLD_TYPE_API	
TYPE 44 - CHANNEL HEADER				
2	DECIMAL	68	ISFLD_TYPE_CHANNEL	
TYPE 45 - CONTAINER				
2	DECIMAL	69	ISFLD_TYPE_CONTAINER	
Values of isce_sub_type				
1	DECIMAL	1	ISCE_SUB_LOGNAME1	Local logname
Values of isce_major_version				
1	DECIMAL	1	ISCE_MAJOR_CURRENT	
Values of isce_minor_version				
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_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	

Table 208. (continued)

Len	Type	value	Name	Description
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	99	ISCER_UNKNOWN	
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

Table 208. (continued)

Len	Type	value	Name	Description
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				
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	135203203	ISSNS_ACCESS_DENIED	
4	DECIMAL	135225425	ISSNS_SECURITY_ NOT_VALID	
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	
1	CHARACTER	S	RSO_SUCCESS	
1	CHARACTER	F	RSO_FAILURE	
1	DECIMAL	2	IS43_SUB_PROGRAM	LINK program name

Table 208. (continued)

Len	Type	value	Name	Description
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
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	Masked
1	DECIMAL	2	IS8_PASSWORD_CLEAR	
IS domain states				
1	DECIMAL	1	IS_STATE_ INITIALISING	
1	DECIMAL	2	IS_STATE_INITIALISED	
1	DECIMAL	3	IS_STATE_QUIESCING	
1	DECIMAL	4	IS_STATE_QUIESCED	
1	DECIMAL	5	IS_STATE_TERMINATED	
========== IS domain constants ========== ---------- IS_BUFFER_SIZE is the size of the IS request/response fixed length buffers. Allow 4K for HTTP & IP headers to keep the packet to <64K ----------				
4	DECIMAL	61440	IS_BUFFER_SIZE	

Table 208. (continued)

Len	Type	value	Name	Description
---------- IS_NETWORKID_DEFAULT is the default high level network qualifier for applids used by IS. This value can be overridden by SIT param UOWNETQL to allow IP connections from CICS systems in different networks with the same applid. ----------				
8	CHARACTER	9UNKNOWN	IS_NETWORKID_ DEFAULT	
---------- IS_GC_TYPE is the type value for IPCONN records on the global catalog. ----------				
8	CHARACTER	ISIPCONN	IS_GC_TYPE	
---------- These constants restrict the length of data traced by IS domain when tracing data received from or sent to an ISC partner. IS_MAX_TRACE is the max length of data per IS data trace entry. IS_MAX_TR_LEN is the max length of data per trace entry. ----------				
4	DECIMAL	256	IS_MAX_TRACE	
4	DECIMAL	4000	IS_MAX_TR_LEN	
---------- IS_TR_xxxx defines the type of data buffer being traced ----------				
1	DECIMAL	1	IS_TR_REQ_S	Request sent
1	DECIMAL	2	IS_TR_REQ_R	Request received
1	DECIMAL	3	IS_TR_RSP_S	Response sent
1	DECIMAL	4	IS_TR_RSP_R	Response received
---------- IS_SUPP_CONST replaces user data in IS traces when confdata=yes in the trandef and confdata=hidetc in the SIT ----------				
40	CHARACTER	SUPPRESSED DUE T O CONFDATA=HIDET C IN SIT	IS_SUPP_CONST	
---------- IS_PACING_COUNT defines how many elements of a message chain may be sent before waiting for a pacing response. IS_BUFFER_SLOTS must be one greater than the pacing count to allow for the send buffer still being in use when the next chain of requests or responses arrives. ----------				
2	DECIMAL	4	IS_PACING_COUNT	
2	DECIMAL	5	IS_BUFFER_SLOTS	
---------- IS_ALL_HEADERS defines the no. of HTTP headers that may be used with all recovery protocols. IS_CICS_HEADERS defines the no. of additional HTTP headers that may be used with the CICS recovery protocol. ----------				

Table 208. (continued)

Len	Type	value	Name	Description
1	DECIMAL	3	IS_ALL_HEADERS	
1	DECIMAL	1	IS_CICS_HEADERS	
---------- IS_MAX_RECV_RETRIES restricts the no of consecutive attempts that may be made to receive a single input message for an ISSS ----------				
2	DECIMAL	3	IS_MAX_RECV_RETRIES	
---------- IS_MEDIATYPE is the mediatyped specified by IS when sending http messages over an ISC web session. ----------				
28	CHARACTER	application/vnd.ibm.cics.isc	IS_MEDIATYPE	
---------- IS_HTTP_xx are used by IS for checking http status code ranges when receiving response messages over an ISC web session. ----------				
2	DECIMAL	200	IS_HTTP_OK	
2	DECIMAL	300	IS_HTTP_REDIRECT	
2	DECIMAL	400	IS_HTTP_CLIENT_ERROR	
2	DECIMAL	500	IS_HTTP_SERVER_ERROR	
---------- Certain IPCONN parameters are set to -1 to indicate that they are not specified. ----------				
4	DECIMAL	-1	IS_NOT_SPECIFIED	
Values of iscb_servstatus				
1	DECIMAL	1	ISCB_INSERVICE	
1	DECIMAL	2	ISCB_OUTSERVICE	
Values of iscb_connstatus				
1	DECIMAL	1	ISCB_RELEASED	
1	DECIMAL	2	ISCB_OBTAINING	
1	DECIMAL	3	ISCB_ACQUIRED	
1	DECIMAL	4	ISCB_FREEING	
Values of iscb_autoconnect				
1	DECIMAL	1	ISCB_AUTOCONN_YES	
1	DECIMAL	2	ISCB_AUTOCONN_NO	
Values of iscb_pendstatus				
1	DECIMAL	1	ISCB_NOTPENDING	
1	DECIMAL	2	ISCB_PENDING	
Values of iscb_recovstatus				
1	DECIMAL	1	ISCB_NORECOVDATA	
1	DECIMAL	2	ISCB_NRS	

Table 208. (continued)

Len	Type	value	Name	Description
1	DECIMAL	3	ISCB_RECOVDATA	
Values of iscb_xlnstatus				
1	DECIMAL	1	ISCB_NOTAPPLIC	
1	DECIMAL	2	ISCB_XNOTDONE	
1	DECIMAL	3	ISCB_XOK	
Values of iscb_xlnaction				
1	DECIMAL	1	ISCB_KEEP	
1	DECIMAL	2	ISCB_FORCE	
Values of iscb_recov_protocol				
1	DECIMAL	1	ISCB_CICS	
1	DECIMAL	2	ISCB_XA	
Values of iscb_partner_locality				
1	DECIMAL	1	ISCB_LOCAL	
1	DECIMAL	2	ISCB_SYSPLEX	
1	DECIMAL	3	ISCB_NETWORK	
Values of iscb_ssl				
1	DECIMAL	1	ISCB_SSL_YES	
1	DECIMAL	2	ISCB_SSL_NO	
Values of iscb_userauth				
1	DECIMAL	1	ISCB_USERAUTH_LOCAL	
1	DECIMAL	2	ISCB_USERAUTH_ IDENTIFY	
1	DECIMAL	3	ISCB_USERAUTH_VERIFY	
1	DECIMAL	4	ISCB_USERAUTH_ DEFAULTUSER	
Values of iscb_linkauth				
1	DECIMAL	1	ISCB_LINKAUTH_ CERTUSER	
1	DECIMAL	2	ISCB_LINKAUTH_ SECUSER	
ISSS types				
1	CHARACTER	C	ISSS_TYPE_CLIENT	
1	CHARACTER	S	ISSS_TYPE_SERVER	
1	CHARACTER	D	ISSS_TYPE_DUMMY	
issb_conv.issb_state values				
1	DECIMAL	1	IS_RECEIVE	
1	DECIMAL	2	IS_SEND	
1	DECIMAL	3	IS_SENDING	
Values of issb_pool				
1	CHARACTER	F	ISSB_FREE	

Table 208. (continued)

Len	Type	value	Name	Description
1	CHARACTER	A	ISSB_ACTIVE	
Values of issb_use				
1	CHARACTER	S	ISSB_SEND	
1	CHARACTER	R	ISSB_RECEIVE	
1	CHARACTER	E	ISSB_ERROR	
Values of issb_ble_status				
1	DECIMAL	0	ISSB_NOT_IN_USE	
1	DECIMAL	1	ISSB_RECEIVING	
1	DECIMAL	2	ISSB_RECEIVED	
1	DECIMAL	3	ISSB_REUSABLE	
1	DECIMAL	4	ISSB_REUSED	
1	DECIMAL	5	ISSB_SENDING	
Sync Level constants used with issb_spl				
1	DECIMAL	0	ISSB_SPL0	--- None (=tctespl0)
1	DECIMAL	1	ISSB_SPL1	--- Commit (=tctespl1)
1	DECIMAL	2	ISSB_SPL2	--- All (=tctespl2)
1	HEX	00	ISSB_UNMP	"unmapped" (=tcteunmp)
issb_ccsid must have a value supported by dfhcnv or 0				
2	DECIMAL	0	ISSB_NO_CONV	
Values of isaq_resume_reason				
1	DECIMAL	1	ISAQ_AVAILABLE	Session available
1	DECIMAL	2	ISAQ_CANCELLED	Queueing cancelled
Values of iscop_function				
1	DECIMAL	1	ISCOP_ACQUIRE	
1	DECIMAL	2	ISCOP_INITIALIZE	
1	DECIMAL	3	ISCOP_RELEASE	
1	DECIMAL	4	ISCOP_TERMINATE	
Values of iscop_session_type				
1	DECIMAL	1	ISCOP_CLIENT	
1	DECIMAL	2	ISCOP_SERVER	
1	DECIMAL	3	ISCOP_BOTH	
Values of iscop_resource_type				
1	DECIMAL	1	ISCOP_IPCONN	
1	DECIMAL	2	ISCOP_TCPIPSERVICE	

Table 208. (continued)

Len	Type	value	Name	Description
========== IS Domain Message numbers ==========				
4	DECIMAL	1	ISMSG_ABEND	
4	DECIMAL	2	ISMSG_SEVERE_ERROR	
4	DECIMAL	998	ISMSG_MIRROR_ABENDED	
4	DECIMAL	1000	ISMSG_INVALID_PLIST	
4	DECIMAL	1001	ISMSG_UNEXPECTED_EXC	
4	DECIMAL	1002	ISMSG_IPCONN_ NOT_FOUND	
4	DECIMAL	1003	ISMSG_INVALID_ IPCONN_STATE	
4	DECIMAL	1004	ISMSG_TCPIPSERVICE_ NOT_FOUND	
4	DECIMAL	1005	ISMSG_TCPIPSERVICE_ NOT_OPEN	
4	DECIMAL	1006	ISMSG_TCPIP_CLOSED	
4	DECIMAL	1007	ISMSG_SESSION_ OPEN_FAILED	
4	DECIMAL	1008	ISMSG_ISCER_ HTTP_ERROR	
4	DECIMAL	1009	ISMSG_ISCER_ TIMED_OUT	
4	DECIMAL	1010	ISMSG_ISCER_ERROR	
4	DECIMAL	1011	ISMSG_ISCER_ BAD_RESPONSE	
4	DECIMAL	1012	ISMSG_ISCE_ERROR	
4	DECIMAL	1013	ISMSG_ISCE_ INVALID_APPLID	
4	DECIMAL	1014	ISMSG_ISCE_TIMED_OUT	
4	DECIMAL	1015	ISMSG_INVALID_ PARTNER_STATE	
4	DECIMAL	1016	ISMSG_ISCE_BAD_RECOV	
4	DECIMAL	1017	ISMSG_BAD_ INPUT_QUEUE	
4	DECIMAL	1018	ISMSG_BAD_ ERROR_QUEUE	
4	DECIMAL	1019	ISMSG_BAD_CONVID	
4	DECIMAL	1020	ISMSG_SHUTDOWN	
4	DECIMAL	1021	ISMSG_WEB_ SESSION_ERROR	
4	DECIMAL	1022	ISMSG_CONNECTION_ ERROR	

Table 208. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1023	ISMSG_CONVERSATION_ERROR	
4	DECIMAL	1024	ISMSG_NO_ISSB_AVAILABLE	
4	DECIMAL	1025	ISMSG_MIRROR_ATTACH_FAILED	
4	DECIMAL	1026	ISMSG_TCPIPSERVICE_MISMATCH	
4	DECIMAL	1027	ISMSG_SECURITY_VIOLATION	
4	DECIMAL	1028	ISMSG_ACCESS_DENIED	
4	DECIMAL	1029	ISMSG_ONE_WAY_IPCONN	
4	DECIMAL	1030	ISMSG_RECOV_MISMATCH	
4	DECIMAL	1031	ISMSG_CAPEX_RACE	
4	DECIMAL	2000	ISMSG_NEW_SERVER_SESSION	
4	DECIMAL	2001	ISMSG_NEW_CLIENT_SESSION	
4	DECIMAL	2002	ISMSG_SEND_SESSION_MISMATCH	
4	DECIMAL	2003	ISMSG_RECV_SESSION_MISMATCH	
4	DECIMAL	2006	ISMSG_PORT_MISMATCH	
4	DECIMAL	2008	ISMSG_TIMED_OUT	
4	DECIMAL	2009	ISMSG_CLIENT_SESSION_CLOSED	
4	DECIMAL	2010	ISMSG_SERVER_SESSION_CLOSED	
4	DECIMAL	2011	ISMSG_IPCONN_PURGED	
4	DECIMAL	2040	ISMSG_ACQUIRE_SEC_VIOLATION	
========== IS Domain System Dump Codes ==========				
8	CHARACTER	IS0001	ISSDC_ABEND	
8	CHARACTER	IS0002	ISSDC_SEVERE_ERROR	
8	CHARACTER	IS1000	ISSDC_INVALID_PLIST	
8	CHARACTER	IS1001	ISSDC_UNEXPECTED_EXC	
8	CHARACTER	IS1002	ISSDC_BAD_INPUT_QUEUE	
8	CHARACTER	IS1003	ISSDC_BAD_ERROR_QUEUE	

Table 208. (continued)

Len	Type	value	Name	Description
========== IS Domain trace point ids ========== ---------- DFHISDM trace point ids 0100-01FF ----------				
2	DECIMAL	256	TID_ISDM_ENTRY	
2	DECIMAL	257	TID_ISDM_EXIT	
2	DECIMAL	258	TID_ISDM_ INVALID_FORMAT	
2	DECIMAL	259	TID_ISDM_ INVALID_FUNCTION	
2	DECIMAL	260	TID_ISDM_ RECOVERY_ENTERED	
2	DECIMAL	261	TID_ISDM_ ADD_IPCONN_FAILED	
2	DECIMAL	262	TID_ISDM_ ACQUIRE_PROG_FAILED	
2	DECIMAL	263	TID_ISDM_ ADD_GATE_FAILED	
2	DECIMAL	264	TID_ISDM_ ADD_LOCK_FAILED	
2	DECIMAL	265	TID_ISDM_ ADD_SUBPOOL_FAILED	
2	DECIMAL	266	TID_ISDM_ ATTACH_CISC_FAILED	
2	DECIMAL	267	TID_ISDM_ BITMAP_INIT_FAILED	
2	DECIMAL	268	TID_ISDM_ CCCC_BROWSE_FAILED	
2	DECIMAL	269	TID_ISDM_ DEFINE_PROG_FAILED	
2	DECIMAL	270	TID_ISDM_ DIR_CREATE_FAILED	
2	DECIMAL	271	TID_ISDM_ GET_PARAMETERS_ FAILED	
2	DECIMAL	272	TID_ISDM_ GETMAIN_FAILED	
2	DECIMAL	273	TID_ISDM_ INQUIRE_KERNEL_ FAILED	
2	DECIMAL	274	TID_ISDM_ REGISTER_FAILED	
2	DECIMAL	275	TID_ISDM_ SET_ANCHOR_FAILED	
2	DECIMAL	276	TID_ISDM_ TYPE_PURGE_FAILED	

Table 208. (continued)

Len	Type	value	Name	Description
2	DECIMAL	277	TID_ISDM_ UNLOCK_FAILED	
2	DECIMAL	278	TID_ISDM_ WAIT_PHASE_FAILED	
---------- DFHISIS trace point ids 0200-02FF ----------				
2	DECIMAL	512	TID_ISIS_ENTRY	
2	DECIMAL	513	TID_ISIS_EXIT	
2	DECIMAL	514	TID_ISIS_ INVALID_FORMAT	
2	DECIMAL	515	TID_ISIS_ INVALID_FUNCTION	
2	DECIMAL	516	TID_ISIS_ RECOVERY_ENTERED	
2	DECIMAL	517	TID_ISIS_ APCR_FAILURE	
2	DECIMAL	518	TID_ISIS_ INVALID_DATA	
2	DECIMAL	519	TID_ISIS_LIC_MISSING	
---------- DFHISIC trace point ids 0300-03FF ----------				
2	DECIMAL	768	TID_ISIC_ENTRY	
2	DECIMAL	769	TID_ISIC_EXIT	
2	DECIMAL	770	TID_ISIC_ INVALID_FORMAT	
2	DECIMAL	771	TID_ISIC_ INVALID_FUNCTION	
2	DECIMAL	772	TID_ISIC_ RECOVERY_ENTERED	
2	DECIMAL	773	TID_ISIC_ UNLOCK_ERROR	
2	DECIMAL	774	TID_ISIC_ CREATE_SESSID_ ERROR	
2	DECIMAL	775	TID_ISIC_ COMMAREA_BEFORE_ AUP	
2	DECIMAL	776	TID_ISIC_ COMMAREA_AFTER_ AUP	
2	DECIMAL	777	TID_ISIC_ AUTOINSTALL_FAILURE	
2	DECIMAL	778	TID_ISIC_ ADD_LOCK_FAILED	

Table 208. (continued)

Len	Type	value	Name	Description
2	DECIMAL	779	TID_ISIC_ ADD_SUSPEND_ERROR	
2	DECIMAL	780	TID_ISIC_ ATTACH_FAILURE	
2	DECIMAL	781	TID_ISIC_ CC_ADD_FAILED	
2	DECIMAL	782	TID_ISIC_ CC_GET_FAILED	
2	DECIMAL	783	TID_ISIC_ CC_PUT_FAILED	
2	DECIMAL	784	TID_ISIC_ DIR_ADD_FAILED	
2	DECIMAL	785	TID_ISIC_ GETMAIN_FAILURE	
2	DECIMAL	786	TID_ISIC_LOCK_FAILED	
2	DECIMAL	787	TID_ISIC_ URM_FOR_DELETE_ FAILED	
---------- DFHISLO trace point ids 0400-04FF ----------				
2	DECIMAL	1024	TID_ISLO_ENTRY	
2	DECIMAL	1025	TID_ISLO_EXIT	
2	DECIMAL	1026	TID_ISLO_ INVALID_FORMAT	
2	DECIMAL	1027	TID_ISLO_ INVALID_FUNCTION	
2	DECIMAL	1028	TID_ISLO_ RECOVERY_ENTERED	
---------- DFHISCO trace point ids 0500-05FF ----------				
2	DECIMAL	1280	TID_ISCO_ENTRY	
2	DECIMAL	1281	TID_ISCO_EXIT	
2	DECIMAL	1282	TID_ISCO_ISCE_DATA	
2	DECIMAL	1283	TID_ISCO_ISCER_DATA	
2	DECIMAL	1284	TID_ISCO_ INVALID_FORMAT	
2	DECIMAL	1285	TID_ISCO_ INVALID_FUNCTION	
2	DECIMAL	1286	TID_ISCO_ RECOVERY_ENTERED	
2	DECIMAL	1287	TID_ISCO_ UNEXPECTED_EXC	
2	DECIMAL	1288	TID_ISCO_ IPCONN_NOT_FOUND	

Table 208. (continued)

Len	Type	value	Name	Description
2	DECIMAL	1289	TID_ISCO_ INVALID_IPCONN_ STATE	
2	DECIMAL	1290	TID_ISCO_ TCPIPSERVICE_NOT_ FOUND	
2	DECIMAL	1291	TID_ISCO_ TCPIPSERVICE_NOT_ OPEN	
2	DECIMAL	1292	TID_ISCO_ TCPIP_CLOSED	
2	DECIMAL	1293	TID_ISCO_ SESSION_OPEN_FAILED	
2	DECIMAL	1294	TID_ISCO_ ISCER_HTTP_ERROR	
2	DECIMAL	1295	TID_ISCO_ ISCER_TIMED_OUT	
`dcl tid_isco_xxxx bin(16) constant(0510x) ;`				
2	DECIMAL	1297	TID_ISCO_ ISCER_BAD_RESPONSE	
2	DECIMAL	1298	TID_ISCO_ INVALID_APPLID	
2	DECIMAL	1299	TID_ISCO_ ISCE_INVALID_APPLID	
2	DECIMAL	1300	TID_ISCO_ ISCE_TIMED_OUT	
2	DECIMAL	1301	TID_ISCO_ INVALID_PARTNER_ STATE	
2	DECIMAL	1302	TID_ISCO_ AUTOINSTALL_FAILED	
2	DECIMAL	1303	TID_ISCO_SHUTDOWN	
2	DECIMAL	1304	TID_ISCO_ ISCE_BAD_RECOV	
2	DECIMAL	1305	TID_ISCO_ SEND_DRAIN_ERROR	
2	DECIMAL	1306	TID_ISCO_NO_IPCONN	
2	DECIMAL	1307	TID_ISCO_ TCPIPSERVICE_MISMATCH	
2	DECIMAL	1308	TID_ISCO_ INVALID_CLIENT_ CERT	
2	DECIMAL	1309	TID_ISCO_ ONE_WAY_IPCONN	
2	DECIMAL	1310	TID_ISCO_ RECOV_MISMATCH	
2	DECIMAL	1311	TID_ISCO_CAPEX_RACE	

Table 208. (continued)

Len	Type	value	Name	Description
2	DECIMAL	1312	TID_ISCO_NO_LOGNAME	
2	DECIMAL	1313	TID_ISCO_ ISCE_ERR_SHORT	
2	DECIMAL	1314	TID_ISCO_ ISCE_ERR_TYPE	
2	DECIMAL	1315	TID_ISCO_ISCE_ERR_WB	
2	DECIMAL	1316	TID_ISCO_ ISCE_ERR_MEDIA	
2	DECIMAL	1317	TID_ISCO_ ISCE_ERR_CONVID	
2	DECIMAL	1318	TID_ISCO_ ISCER_ERR_SHORT	
2	DECIMAL	1319	TID_ISCO_ ISCER_ERR_TYPE	
2	DECIMAL	1320	TID_ISCO_ ISCER_ERR_WB	
2	DECIMAL	1321	TID_ISCO_ ISCER_ERR_MEDIA	
2	DECIMAL	1328	TID_ISCO_ ACQUIRE_SEC_VIOLATION	
2	DECIMAL	1424	TID_ISCO_ NEW_SERVER_SESSION	
2	DECIMAL	1425	TID_ISCO_ NEW_CLIENT_SESSION	
2	DECIMAL	1426	TID_ISCO_ SEND_SESSION_MISMATCH	
2	DECIMAL	1427	TID_ISCO_ RECV_SESSION_MISMATCH	
2	DECIMAL	1428	TID_ISCO_ PORT_MISMATCH	
---------- DFHISRR trace point ids 0600-06FF ----------				
2	DECIMAL	1536	TID_ISRR_ENTRY	
2	DECIMAL	1537	TID_ISRR_EXIT	
2	DECIMAL	1538	TID_ISRR_DATA_BUFFER	
2	DECIMAL	1539	TID_ISRR_ DATA_BUFFER_CONT	
2	DECIMAL	1540	TID_ISRR_DUMMY_ISSS	
2	DECIMAL	1541	TID_ISRR_ INVALID_FORMAT	
2	DECIMAL	1542	TID_ISRR_ INVALID_FUNCTION	
2	DECIMAL	1543	TID_ISRR_ RECOVERY_ENTERED	

Table 208. (continued)

Len	Type	value	Name	Description
2	DECIMAL	1544	TID_ISRR_ NOTIFY_TIMEOUT	
2	DECIMAL	1545	TID_ISRR_ NOTIFY_SESSION_ CLOSED	
2	DECIMAL	1546	TID_ISRR_ NOTIFY_ERROR	
2	DECIMAL	1547	TID_ISRR_ INVALID_ACTION	
2	DECIMAL	1548	TID_ISRR_ SUSPEND_FAILED	
2	DECIMAL	1549	TID_ISRR_ RESUME_FAILED	
2	DECIMAL	1550	TID_ISRR_ BAD_INPUT_QUEUE	
2	DECIMAL	1551	TID_ISRR_ INVALID_USER_TOKEN	
2	DECIMAL	1552	TID_ISRR_ UNEXPECTED_EXC	
2	DECIMAL	1553	TID_ISRR_ISHH_ERROR	
2	DECIMAL	1554	TID_ISRR_SHUTDOWN	
2	DECIMAL	1555	TID_ISRR_BAD_CONVID	
`dcl tid_isrr_xxxx bin(16) constant(0614x) ;`				
2	DECIMAL	1557	TID_ISRR_ IPCLIENT_UNAVAILABLE	
2	DECIMAL	1558	TID_ISRR_ IPSERVER_SESSION_ ERROR	
2	DECIMAL	1559	TID_ISRR_ IPCLIENT_SESSION_ ERROR	
2	DECIMAL	1560	TID_ISRR_ MIRROR_NOT_FOUND	
2	DECIMAL	1561	TID_ISRR_ MIRROR_DISABLED	
2	DECIMAL	1562	TID_ISRR_ MIRROR_SHUTDOWN_ DISABLED	
2	DECIMAL	1563	TID_ISRR_ MIRROR_ATTACH_ FAILURE	
2	DECIMAL	1564	TID_ISRR_ TASK_RESUME_FAILED	
2	DECIMAL	1565	TID_ISRR_ NO_ISSB_AVAILABLE	
2	DECIMAL	1566	TID_ISRR_ INVALID_CONV_STATE	

Table 208. (continued)

Len	Type	value	Name	Description
2	DECIMAL	1567	TID_ISRR_ ISSB_IN_ERROR	
2	DECIMAL	1568	TID_ISRR_ SECONDARY_ERROR	
2	DECIMAL	1569	TID_ISRR_ NOTIFY_CANCELLED	
2	DECIMAL	1570	TID_ISRR_ ATTACH_FAILED	
2	DECIMAL	1571	TID_ISRR_ NOTIFY_SESSION_ DRAINED	
2	DECIMAL	1572	TID_ISRR_ AC_STR_INVALID_ SIZE	
2	DECIMAL	1573	TID_ISRR_ AC_INVALID_HEX_ CHAR	
2	DECIMAL	1574	TID_ISRR_ISOH_ERROR	
2	DECIMAL	1575	TID_ISRR_ INVALID_UOW_HDR_ LEN	
2	DECIMAL	1576	TID_ISRR_ INVALID_UOW_HDR_ CHAR	
2	DECIMAL	1577	TID_ISRR_ INVALID_CHAIN_ STATE	
2	DECIMAL	1578	TID_ISRR_PACING_EXC	
2	DECIMAL	1579	TID_ISRR_ CONV_COMMAND	
2	DECIMAL	1580	TID_ISRR_IS_HEADERS	
2	DECIMAL	1581	TID_ISRR_ INVALID_MSG_SEQNO	
2	DECIMAL	1582	TID_ISRR_ INVALID_CHAIN_ SEQNO	
2	DECIMAL	1583	TID_ISRR_BAD_CCSID	
2	DECIMAL	1584	TID_ISRR_ TASK_NOT_ACTIVE	
---------- DFHISSR trace point ids 0700-07FF ----------				
2	DECIMAL	1792	TID_ISSR_ENTRY	
2	DECIMAL	1793	TID_ISSR_EXIT	
2	DECIMAL	1794	TID_ISSR_DATA_BUFFER	
2	DECIMAL	1795	TID_ISSR_ DATA_BUFFER_CONT	

Table 208. (continued)

Len	Type	value	Name	Description
2	DECIMAL	1796	TID_ISSR_ INVALID_FORMAT	
2	DECIMAL	1797	TID_ISSR_ INVALID_FUNCTION	
2	DECIMAL	1798	TID_ISSR_ RECOVERY_ENTERED	
2	DECIMAL	1799	TID_ISSR_ UNEXPECTED_EXC	
2	DECIMAL	1800	TID_ISSR_ WRITE_REQ_EXC	
2	DECIMAL	1801	TID_ISSR_ READ_RESP_EXC	
2	DECIMAL	1802	TID_ISSR_ READ_REQ_EXC	
2	DECIMAL	1803	TID_ISSR_ WRITE_RESP_EXC	
2	DECIMAL	1804	TID_ISSR_ RESP_ASYNC0_ERROR	
2	DECIMAL	1805	TID_ISSR_ RESP_ASYNC0_CLOSED	
2	DECIMAL	1806	TID_ISSR_ RESP_TIMED_OUT	
2	DECIMAL	1807	TID_ISSR_ REQ_TIMED_OUT	
2	DECIMAL	1808	TID_ISSR_ AC_PB_EXTRACT_ FAILED	
2	DECIMAL	1809	TID_ISSR_ AC_PB_INVALID_ SIZE	
2	DECIMAL	1810	TID_ISSR_ INVALID_STATE	
2	DECIMAL	1811	TID_ISSR_ ERROR_AVAILABLE	
2	DECIMAL	1812	TID_ISSR_PACING_EXC	
2	DECIMAL	1813	TID_ISSR_ INVALID_ISSS	
2	DECIMAL	1814	TID_ISSR_IS_HEADERS	
2	DECIMAL	1815	TID_ISSR_ INVALID_CONV_STATE	
---------- DFHISAL trace point ids 0800-08FF ----------				
2	DECIMAL	2048	TID_ISAL_ENTRY	
2	DECIMAL	2049	TID_ISAL_EXIT	
2	DECIMAL	2050	TID_ISAL_ INVALID_FORMAT	

Table 208. (continued)

Len	Type	value	Name	Description
2	DECIMAL	2051	TID_ISAL_ INVALID_FUNCTION	
2	DECIMAL	2052	TID_ISAL_ RECOVERY_ENTERED	
2	DECIMAL	2053	TID_ISAL_ GETMAIN_FAILURE	
2	DECIMAL	2054	TID_ISAL_ ISSB_DECHAIN_FAILURE	
2	DECIMAL	2055	TID_ISAL_ INV_ISSB_FACILITY	
2	DECIMAL	2056	TID_ISAL_ LOCK_FAILURE	
2	DECIMAL	2057	TID_ISAL_ XM_INQUIRE_FAILURE	
2	DECIMAL	2064	TID_ISAL_ XM_SET_FAILURE	
2	DECIMAL	2065	TID_ISAL_ INVALID_ISCB_PTR	
2	DECIMAL	2066	TID_ISAL_ NOT_ACTIVE_ISSB	
2	DECIMAL	2067	TID_ISAL_ INVALID_ISSB_PTR	
2	DECIMAL	2068	TID_ISAL_ SUSPEND_FAILURE	
2	DECIMAL	2069	TID_ISAL_ ISAQ_DECHAIN_FAILURE	
2	DECIMAL	2070	TID_ISAL_ ISAQ_RESUME_FAILURE	
2	DECIMAL	2071	TID_ISAL_APEX	
2	DECIMAL	2072	TID_ISAL_INVALID_TCB	
2	DECIMAL	2073	TID_ISAL_ ATTACH_FAILED	
---------- DFHISZA trace point ids 0900-09FF ----------				
2	DECIMAL	2304	TID_ISZA_ENTRY	
2	DECIMAL	2305	TID_ISZA_EXIT	
2	DECIMAL	2306	TID_ISZA_ INVALID_FORMAT	
2	DECIMAL	2307	TID_ISZA_ INVALID_FUNCTION	
2	DECIMAL	2308	TID_ISZA_ RECOVERY_ENTERED	
2	DECIMAL	2309	TID_ISZA_ IS7_RECEIVED	
2	DECIMAL	2310	TID_ISZA_IS_FIELD	

Table 208. (continued)

Len	Type	value	Name	Description
2	DECIMAL	2311	TID_ISZA_ FREE_ISSB_FAILED	
---------- DFHISST trace point ids 1000-10FF ----------				
2	DECIMAL	4096	TID_ISST_ENTRY	
2	DECIMAL	4097	TID_ISST_EXIT	
2	DECIMAL	4098	TID_ISST_ INVALID_FORMAT	
2	DECIMAL	4099	TID_ISST_ INVALID_FUNCTION	
2	DECIMAL	4100	TID_ISST_ RECOVERY_ENTERED	
2	DECIMAL	4101	TID_ISST_ INVALID_PARMS	
---------- DFHISXF trace point ids 1100-11FF ----------				
2	DECIMAL	4352	TID_ISXF_ENTRY	
2	DECIMAL	4353	TID_ISXF_EXIT	
2	DECIMAL	4354	TID_ISXF_XFSTG	
2	DECIMAL	4355	TID_ISXF_ INVALID_FORMAT	
2	DECIMAL	4356	TID_ISXF_ INVALID_FUNCTION	
2	DECIMAL	4357	TID_ISXF_ RECOVERY_ENTERED	
2	DECIMAL	4358	TID_ISXF_ INVALID_FMH_TYPE	
2	DECIMAL	4359	TID_ISXF_ INVALID_REQ_TYPE	
2	DECIMAL	4360	TID_ISXF_ INVALID_ARG_NUM	
2	DECIMAL	4361	TID_ISXF_NO_DATA	
2	DECIMAL	4362	TID_ISXF_MISSING_FMH	
2	DECIMAL	4363	TID_ISXF_ INVALID_FMH_HEADER	
2	DECIMAL	4364	TID_ISXF_ INVALID_FMH_DATA	
2	DECIMAL	4365	TID_ISXF_ GETMAIN_PURGED	
2	DECIMAL	4366	TID_ISXF_ GETMAIN_FAILED	
---------- DFHISCU trace point ids 1200-12FF ----------				

Table 208. (continued)

Len	Type	value	Name	Description
2	DECIMAL	4608	TID_ISCU_ENTRY	
2	DECIMAL	4609	TID_ISCU_EXIT	
2	DECIMAL	4610	TID_ISCU_ RECOVERY_ENTERED	
2	DECIMAL	4611	TID_ISCU_ SET_UOW_FAILED	
2	DECIMAL	4612	TID_ISCU_ COMMIT_INQ_LINK_ FAILED	
2	DECIMAL	4613	TID_ISCU_ SHUNT_INQ_LINK_ FAILED	
2	DECIMAL	4614	TID_ISCU_FREE_FAILED	
2	DECIMAL	4615	TID_ISCU_TFRF_ERROR	
2	DECIMAL	4616	TID_ISCU_ PREPARE_SURR_FAILED	
2	DECIMAL	4617	TID_ISCU_ COMMIT_SURR_FAILED	
2	DECIMAL	4618	TID_ISCU_ RESET_SURR_FAILED	
---------- DFHISJU trace point ids 1300-13FF ----------				
2	DECIMAL	4864	TID_ISJU_ENTRY	
2	DECIMAL	4865	TID_ISJU_EXIT	
2	DECIMAL	4866	TID_ISJU_ RECOVERY_ENTERED	
2	DECIMAL	4867	TID_ISJU_ SET_UOW_FAILED	
2	DECIMAL	4868	TID_ISJU_ COMMIT_INQ_LINK_ FAILED	
2	DECIMAL	4869	TID_ISJU_ SHUNT_INQ_LINK_ FAILED	
2	DECIMAL	4870	TID_ISJU_FREE_FAILED	
2	DECIMAL	4871	TID_ISJU_TFRF_ERROR	
2	DECIMAL	4872	TID_ISJU_ PREPARE_SURR_FAILED	
2	DECIMAL	4873	TID_ISJU_ COMMIT_SURR_FAILED	
2	DECIMAL	4874	TID_ISJU_ RESET_SURR_FAILED	
---------- DFHISEM trace point ids 1400-14FF ----------				

Table 208. (continued)

Len	Type	value	Name	Description
2	DECIMAL	5120	TID_ISEM_ENTRY	
2	DECIMAL	5121	TID_ISEM_EXIT	
`dcl tid_isem_xxxx bin(16) constant(1402x) ;` `dcl tid_isem_xxxx bin(16) constant(1403x) ;`				
2	DECIMAL	5124	TID_ISEM_ INVALID_FORMAT	
2	DECIMAL	5125	TID_ISEM_ INVALID_FUNCTION	
2	DECIMAL	5126	TID_ISEM_ RECOVERY_ENTERED	
2	DECIMAL	5127	TID_ISEM_ UNEXPECTED_EXC	
2	DECIMAL	5128	TID_ISEM_ BAD_ERROR_QUEUE	
2	DECIMAL	5129	TID_ISEM_SHUTDOWN	
2	DECIMAL	5130	TID_ISEM_ SUSPEND_FAILED	
2	DECIMAL	5131	TID_ISEM_CONN_ERROR	
`dcl tid_isem_xxxx bin(16) constant(140Cx) ;`				
2	DECIMAL	5133	TID_ISEM_ CONN_ERROR_DUMMY	
2	DECIMAL	5134	TID_ISEM_CONV_ERROR	
2	DECIMAL	5135	TID_ISEM_ ABEND_CONVERSATION	
2	DECIMAL	5136	TID_ISEM_ LOCK_ISCB_ERROR	
2	DECIMAL	5137	TID_ISEM_ LOCK_ISSS_ERROR	

`----------`
`DFHISUE trace point ids 1500-15FF`
`----------`				

2	DECIMAL	5376	TID_ISUE_ENTRY	
2	DECIMAL	5377	TID_ISUE_EXIT	
2	DECIMAL	5378	TID_ISUE_ INVALID_FORMAT	
2	DECIMAL	5379	TID_ISUE_ INVALID_FUNCTION	
2	DECIMAL	5380	TID_ISUE_ RECOVERY_ENTERED	

`----------`
`DFHISIF trace point ids 1600-16FF`
`----------`				

2	DECIMAL	5632	TID_ISIF_ENTRY	
2	DECIMAL	5633	TID_ISIF_EXIT	

Table 208. (continued)

Len	Type	value	Name	Description
2	DECIMAL	5634	TID_ISIF_ INVALID_FORMAT	
2	DECIMAL	5635	TID_ISIF_ INVALID_FUNCTION	
2	DECIMAL	5636	TID_ISIF_ RECOVERY_ENTERED	
---------- DFHISRE trace point ids 1800-18FF ----------				
2	HEX	1800	TID_ISRE_ENTRY	
2	HEX	1801	TID_ISRE_EXIT	
2	HEX	1802	TID_ISRE_ INVALID_FUNCTION	
2	HEX	1803	TID_ISRE_ INVALID_FORMAT	
2	HEX	1804	TID_ISRE_RECOVERY	
2	HEX	1805	TID_ISRE_ START_BROWSE_ERROR	
2	HEX	1806	TID_ISRE_ GET_NEXT_LINK_ ERROR	
2	HEX	1807	TID_ISRE_ INQUIRE_UOW_ERROR	
2	HEX	1808	TID_ISRE_ END_BROWSE_ERROR	
2	HEX	1809	TID_ISRE_ ALLOCATE_ERROR	
2	HEX	180A	TID_ISRE_ FREE_ERROR	
2	HEX	180B	TID_ISRE_ SEND_ERROR	
2	HEX	180C	TID_ISRE_ RECEIVE_ERROR	
2	HEX	180D	TID_ISRE_MSG_ERROR	
2	HEX	180E	TID_ISRE_UOW_ERROR	
2	NUMB HEX	180F	TID_ISRE_ COMMS_FAILURE	
2	NUMB HEX	1810	TID_ISRE_ LOCATE_ERROR	

KECB Kernel Control Blocks

```
-------------------------------------------------------------------
CONTROL BLOCK NAME = DFHKECB
DESCRIPTIVE NAME  = CICS (KE) Kernel Control Blocks.

Restricted Materials of IBM
```

```
FUNCTION =
LIFETIME = All storage described here is long-life.
STORAGE CLASS = MVS Getmained.
LOCATION = Above the line, except for 24-bit stack entries.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS =
  GLOBAL VARIABLES (Macro pass) =
 -------------------------------------------------------------------
  Domain Table Header
 -------------------------------------------------------------------
```

Table 209.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	DOMAIN_HEADER	Domain table header
(0)	CHARACTER	16	DOH_PREFIX	Standard prefix
(0)	HALFWORD	2	DOH_LENGTH	Length of table header
(2)	CHARACTER	1	DOH_ARROW	>
(3)	CHARACTER	3	DOH_DFH	DFH
(6)	CHARACTER	2	DOH_DOMID	KE
(8)	CHARACTER	8	DOH_BLOCK_NAME	DOMH
(10)	ADDRESS	4	DOH_TABLE_START	First domain table entry
(14)	ADDRESS	4	DOH_TABLE_END	End of domain table
(18)	HALFWORD	2	DOH_ENTRY_LENGTH	Length domain table entry
(1A)	HALFWORD	2	*	Reserved
(1C)	ADDRESS	4	*	Reserved
(20)	CHARACTER	0	DOH_END	Round to double-word

```
Domain Table Entry
```

Table 210.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1024	DOMAIN_ENTRY (0-45)	
(0)	CHARACTER	8	DOM_NAME	Domain name
(8)	FULLWORD	4	DOM_INDEX	Domain index
(C)	CHARACTER	4	DOM_STATE	Domain state flags
(C)	BIT(8)	1	DOM_STATE_FLAG	Domain state
	1...		DOM_TERMINATED	Domain terminated

Table 210. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.111 1111		*	Reserved
(D)	BIT(8)	1	DOM_AFFINITY	
	1...		DOM_AFFINITY_ STEP	
				Affinity with Step TCB
	.1..		DOM_AFFINITY_ RO	Affinity with RO TCB
	..1.		DOM_AFFINITY_ QR	Affinity with QR TCB
	...1		DOM_AFFINITY_ CO	Affinity with CO TCB
	.... 1...		DOM_AFFINITY_ FO	Affinity with FO TCB
	.... .111		*	Reserved
(E)	BIT(8)	1	*	Reserved
(F)	BIT(8)	1	*	Reserved
(10)	ADDRESS	4	DOM_ANCHOR	Domain's global storage
(14)	BIT(32)	4	DOM_STANDARD_ TRACE	Std trace bits
(18)	BIT(32)	4	DOM_SPECIAL_ TRACE	Special trace bits
(1C)	FULLWORD	4	DOM_DEFAULT_ RECOVERY	
				Default recovery routine
(20)	CHARACTER	8	*	Reserved
(28)	CHARACTER	8	DOM_GATE_ TABLE_NAME	
				Gate table eye-catcher
(30)	CHARACTER	16	DOM_GATE_TABLE (0-60)	
(30)	ADDRESS	4	DOM_GATE_PROLOG	Gate module prolog ptr
(34)	ADDRESS	4	DOM_GATE_ENTRY	Gate entry point
(38)	CHARACTER	4	DOM_GATE_ STACK_INFO	
				Gate stack information
(38)	BIT(8)	1	DOM_GATE_ STACK_MODE	
				Stack mode flag
	1...		DOM_GATE_ STACK_MODE_24	

Table 210. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				SMODE(24)
(39)	UNSIGNED	3	DOM_GATE_ STACK_SIZE	
				Actual stack size
(3C)	FULLWORD	4	*	Reserved
(400)	CHARACTER	0	*	

`Task`

Table 211.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1024	TASK_ENTRY	Task
(0)	CHARACTER	8	TAS_NAME	Eye-catcher TASENTRY
(8)	ADDRESS	4	TAS_NEXT_FREE	Free list pointer
(C)	FULLWORD	4	TAS_INDEX	Index of task entry
(10)	CHARACTER	12	TAS_STACK_ POINTERS	Pointers to task's stacks
(10)	ADDRESS	4	TAS_SEGMENT_ ENTRY_31	
				Address of first segment for above-the-line segments
(14)	ADDRESS	4	TAS_SEGMENT_ ENTRY_24	
				Address of first segment for below-the-line segments
(18)	ADDRESS	4	TAS_CURRENT_ STACK	Current stack of this task
(1C)	ADDRESS	4	TAS_FREE_SEGS_24	Free segment chain
(20)	ADDRESS	4	TAS_MONITORING_ TOKEN	
				Field used by monitoring
(24)	FULLWORD	4	TAS_ATTACH_TOKEN	Attach request token
(28)	ADDRESS	4	TAS_TCA_ADDRESS	TCA address
(2C)	CHARACTER	16	TAS_SEGMENT_ POINTERS	

Table 211. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Pointers to task's segments
(2C)	ADDRESS	4	TAS_END_ OF_SEGMENT_31	
				Last byte + 1 of segment
(30)	ADDRESS	4	TAS_CURRENT_ STACK_31	
				Top 31-bit stack
(34)	ADDRESS	4	TAS_END_ OF_SEGMENT_24	
				Last byte + 1 of segment
(38)	ADDRESS	4	TAS_CURRENT_ STACK_24	
				Top 24-bit stack
(3C)	UNSIGNED	4	TAS_STATE	State of task
	1...		TAS_STATE_ ALLOCATED	
				Task is in use
	.1..		TAS_STATE_ DYNAMIC	Dynamic=1, Static=0
	..1.		TAS_STATE_ SPECIAL	Special tracing required
	...1		TAS_STATE_ STANDARD	
				Standard tracing required
	.... 1...		TAS_STATE_ SUPPRESSED	
				Only exception tracing
	.... .1..		TAS_STATE_ DISPOSABLE	
				Disposable
	.... ..1.		TAS_STATE_ ACQUIRED_FROM_SM	
				Acquired from SM
	1		TAS_STATE_ LINKAGE_ERROR	
				Task has suffered an AKEG abend
(3D)	1...		TAS_STATE_ TEMP_STATIC	

Table 211. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Temporary static
(40)	ADDRESS	4	TAS_KTCB_ENTRY	Current KTCB entry for task
(44)	HALFWORD	2	TAS_TRACE_COUNT	Level of trace data in stack
(46)	HALFWORD	2	TAS_ERROR_COUNT	Number of stack entries marked as "in error"
(48)	FULLWORD	4	TAS_DOMAIN_INDEX	Domain index over TCB Attach
(4C)	CHARACTER	64	TAS_REGISTER_STORAGE	
				Register save area -storage
(4C)	ADDRESS	4	TAS_REGISTER_SAVE (16)	Register save area - array
(8C)	ADDRESS	4	TAS_FREE_SEGS_31	31 bit free seg chain
(90)	CHARACTER	16	TAS_CPU_CLOCK	Task clocking
(90)	CHARACTER	8	TAS_TOTAL_TIME	CPU time used so far
(98)	HALFWORD	2	TAS_RUNAWAY_LEFT	# of intervals left
(9A)	BIT(8)	1	TAS_CLOCK_STATUS	Clock status fields
	1...		TAS_CLOCK_ACTIVE	CPU recording is active
	.1..		TAS_RUNAWAY_ACTIVE	
				Runaway detection active
	..1.		TAS_RUNAWAY_EXPIRED	
				Runaway has occurred
	...1		TAS_RUNAWAY_STATE_INITIALISED	
				Runaway detection has been initialised for this execution slice
	.... 1...		TAS_SYSTEM_RUNAWAY	
				This task is using system runaway limit

Table 211. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		TAS_RUNAWAY_ STOPPED	
				Runaway detection has been stopped for this task
	.... ..1.		TAS_KILL_ BEING_ACTIONED	
				Runaway exit actioning KILL request
	1		TAS_KILL_ COUNTDOWN_STARTED	
				Runaway exit countdown for KILL started
(9B)	BIT(8)	1	*	Reserved
(9C)	HALFWORD	2	TAS_STOP_ RUNAWAY	# of Stop Runaway Timer requests.
(9E)	HALFWORD	2	TAS_PURGE_ PROTECTION_COUNT	
				# of Start Purge Protection requests, 0 = not protected
(A0)	ADDRESS	4	TAS_XM_ TRANSACTION_TOKEN	
				XM transaction token
(A4)	ADDRESS	4	TAS_PREV_TASK	Global chain prev. task
(A8)	ADDRESS	4	TAS_NEXT_TASK	Global chain next task
(AC)	ADDRESS	4	TAS_INIT_SEG_24	Initial 24-bit segment
(B0)	ADDRESS	4	TAS_INIT_SEG_31	Initial 31-bit segment
reflected there also.				
(B4)	ADDRESS	4	TAS_DEFERRED_ ABEND_R14_SAVE	
				Saved R14 when stack modified for deferred-abend.
(B8)	CHARACTER	4	TAS_KILL_ ABEND_CODE	
				Kill abend code

Table 211. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(BC)	ADDRESS	4	TAS_NQ_ WORK_TOKEN	NQ work token
(C0)	CHARACTER	5	TAS_TCB_ID	tcb_id for trace
(C5)	BIT(8)	1	TAS_KILL_FLAGS	Kill flags
	1...		TAS_KILL_ SUPPRESS_ SEVERE_ERROR_MSG	
				Suppress severe error message
	.1..		TAS_KILL_ ABEND_CODE_ TO_BE_USED	
				Use kill abend code
	..11 1111		*	Reserved
(C6)	HALFWORD	2	TAS_FORCE_ PURGE_PROTECTION_ COUNT	
				# of Start Force Purge Protection requests 0 = not protected
(C8)	HALFWORD	2	TAS_KILL_COUNT	Count used to delay kill from runaway exit
(CA)	HALFWORD	2	*	Reserved
(CC)	ADDRESS	4	TAS_DEFERRED_ KILL_R14_SAVE	
				Saved r14 when stack modified for deferred kill
(D0)	ADDRESS	4	* (2)	Reserved
(D8)	CHARACTER	256	TAS_PARAMETER_ LIST	Reply parameter list
(1D8)	CHARACTER	552	TAS_ERROR_ INFORMATION	
(1D8)	CHARACTER	8	TAS_ERROR_CODE	Format: XXX/CCCC
(1E0)	UNSIGNED	1	TAS_ERROR_TYPE	Indicates the cause
(1E1)	BIT(8)	1	TAS_ERROR_ MVS_FLAGS	
				MVS Flags
	1...		TAS_ERROR_ DUMP_REQUESTED	
				A dump was requested

Table 211. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.111		TAS_ERROR_ EXECUTING_RB	
				Flags determining error RB
	.1..		TAS_ERROR_ SRB_MODE	
				Error in SRB mode
	..1.		TAS_ERROR_IRB	IRB on RB stack
	...1		TAS_ERROR_ CICS_RB_ NOT_ACTIVE	
				CICS RB not in control
	.... 1...		*	Reserved
	.... .1..		TAS_ERROR_ REASON_PRESENT	
				Abend reason code is present
	11		*	Reserved
(1E2)	BIT(16)	2	TAS_SYSTEM_INT	XXX (ie 00C1 for op exc)
(1E4)	BIT(16)	2	TAS_USER_INT	NNNN in binary
(1E6)	HALFWORD	2	TAS_ERROR_ OFFSET	Offset in program, or FFFF
(1E8)	CHARACTER	8	TAS_ERROR_ PROGRAM	Program in error
(1F0)	ADDRESS	4	TAS_ERROR_ ADDRESS	in error
(1F4)	FULLWORD	4	TAS_TAS_ ATTACH_TOKEN	
				Attach token
(1F8)	ADDRESS	4	TAS_TAS_ TCA_ADDRESS	
				TCA address
(1FC)	ADDRESS	4	TAS_TAS_ADDRESS	Address of this task entry
(200)	FULLWORD	4	TAS_ERROR_ NUMBER	The number of this error
(204)	CHARACTER	4	TAS_ERROR_ REASON	Abend reason code
(208)	CHARACTER	224	TAS_CICS_DATA	Error data for CICS
(208)	CHARACTER	8	TAS_BC_PSW	

Table 211. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(210)	CHARACTER	8	TAS_EC_PSW	
(210)	CHARACTER	2	*	
(212)	BIT(8)	1	TAS_EC_BYTE3	
	1...		TAS_AR_ MODE_ACTIVE	
(218)	CHARACTER	8	TAS_EC_ADD	
(220)	ADDRESS	4	TAS_INSTRUCTION_ ADDRESS	
(224)	UNSIGNED	1	TAS_ERROR_KEY	
(225)	UNSIGNED	3	*	
(228)	CHARACTER	64	TAS_ERROR_ REGISTER_STORAGE	
(228)	ADDRESS	4	TAS_ERROR_ REGISTERS (16)	
(268)	CHARACTER	64	TAS_ERROR_ G64H_STORAGE	
(268)	ADDRESS	4	TAS_ERROR_ G64H (16)	
(2A8)	CHARACTER	64	TAS_ERROR_ ACCESS_ REG_STORAGE	
(2A8)	ADDRESS	4	TAS_ERROR_ ACCESS_REGISTERS (16)	
(2E8)	CHARACTER	0	*	
(2E8)	CHARACTER	224	TAS_INT_DATA	
(2E8)	CHARACTER	8	TAS_BC_PSW	
(2F0)	CHARACTER	8	TAS_EC_PSW	
(2F0)	CHARACTER	2	*	
(2F2)	BIT(8)	1	TAS_EC_BYTE3	
	1...		TAS_AR_ MODE_ACTIVE	
(2F8)	CHARACTER	8	TAS_EC_ADD	
(300)	ADDRESS	4	TAS_INSTRUCTION_ ADDRESS	
(304)	UNSIGNED	1	TAS_ERROR_KEY	
(305)	UNSIGNED	3	*	
(308)	CHARACTER	64	TAS_ERROR_ REGISTER_STORAGE	
(308)	ADDRESS	4	TAS_ERROR_ REGISTERS (16)	
(348)	CHARACTER	64	TAS_ERROR_ G64H_STORAGE	

Table 211. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(348)	ADDRESS	4	TAS_ERROR_ G64H (16)	
(388)	CHARACTER	64	TAS_ERROR_ ACCESS_ REG_STORAGE	
(388)	ADDRESS	4	TAS_ERROR_ ACCESS_REGISTERS (16)	
(3C8)	CHARACTER	0	*	
(3C8)	BIT(64)	8	TAS_ERROR_ TIMESTAMP	
				timestamp of error
(3D0)	CHARACTER	32	TAS_ERROR_ FP_REGS	FP register values:
(3D0)	CHARACTER	8	TAS_ERROR_ FP_REG_0	
				FP register 0
(3D8)	CHARACTER	8	TAS_ERROR_ FP_REG_2	
				FP register 2
(3E0)	CHARACTER	8	TAS_ERROR_ FP_REG_4	
				FP register 4
(3E8)	CHARACTER	8	TAS_ERROR_ FP_REG_6	
				FP register 6
The following two fields are only valid if TAS_ERROR_IN_SUBSPACE is set				
(3F0)	CHARACTER	8	TAS_ERROR_ STOKEN	Stoken for subspace
(3F8)	CHARACTER	4	TAS_ERROR_ALET	Alet for stoken
(3FC)	BIT(8)	1	TAS_ERROR_ SUBSPACE_FLAGS	
	1...		TAS_ERROR_ IN_SUBSPACE	
				In a subspace?
	.1..		TAS_ACTIVE_ IN_SUBSPACE	
				Subspace?
	..11 1111		*	
(3FD)	CHARACTER	1	TAS_BEA_2	2nd part of SDWABEA
(3FE)	CHARACTER	2	*	Reserved
(400)	CHARACTER	0	*	Round to double-word

Table 212.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	224	TAS_ERROR_DATA	
(0)	CHARACTER	8	TAS_BC_PSW	
(8)	CHARACTER	8	TAS_EC_PSW	
(8)	CHARACTER	2	*	Padding
(A)	BIT(8)	1	TAS_EC_BYTE3	
	1...		TAS_AR_ MODE_ACTIVE	
				AR_MODE FLAG
(10)	CHARACTER	8	TAS_EC_ADD	
(18)	ADDRESS	4	TAS_INSTRUCTION_ ADDRESS	
(1C)	UNSIGNED	1	TAS_ERROR_KEY	TAS_EC_PSW key X'n0'
(1D)	CHARACTER	3	TAS_BEA_1	1st part of SDWABEA
(20)	CHARACTER	64	TAS_ERROR_ REGISTER_STORAGE	
(20)	ADDRESS	4	TAS_ERROR_ REGISTERS (16)	
				General Registers
(60)	CHARACTER	64	TAS_ERROR_ G64H_STORAGE	
(60)	ADDRESS	4	TAS_ERROR_G64H (16)	General Registers HIGH WRDS *
(A0)	CHARACTER	64	TAS_ERROR_ ACCESS_ REG_STORAGE	
(A0)	ADDRESS	4	TAS_ERROR_ ACCESS_REGISTERS (16)	
				Access registers
(E0)	CHARACTER	0	*	Round to double-word

```
Error Table ( including header )
```

Table 213.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	27640	ERROR_TABLE	
(0)	CHARACTER	40	ERROR_HEADER	Error table header
(0)	CHARACTER	16	ERH_PREFIX	Standard prefix

Table 213. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	ERH_LENGTH	Length of table header
(2)	CHARACTER	1	ERH_ARROW	>
(3)	CHARACTER	3	ERH_DFH	DFH
(6)	CHARACTER	2	ERH_DOMID	KE
(8)	CHARACTER	8	ERH_BLOCK_NAME	ERH
(10)	ADDRESS	4	ERH_TABLE_START	First error table entry
(14)	ADDRESS	4	ERH_TABLE_END	End of error table
(18)	HALFWORD	2	ERH_ENTRY_ LENGTH	Length error table entry
(1A)	HALFWORD	2	*	Reserved
(1C)	FULLWORD	4	*	Reserved
(20)	CHARACTER	8	ERH_QUICK_CELL	
(20)	FULLWORD	4	ERH_FIRST_FREE	Index of next free entry (1..ERROR_ENTRY_NUMBER)
(24)	FULLWORD	4	ERH_GUARD	Quick-cell guard count = number of errors so far
(28)	CHARACTER	552	ERROR_ENTRY (50)	Error table entries
(6BF8)	CHARACTER	0	*	Round to double-word

KTCB Table Header

Table 214.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	KTCB_HEADER	KTCB table header
(0)	CHARACTER	16	KTCH_PREFIX	Standard prefix
(0)	HALFWORD	2	KTCH_LENGTH	Length of table header
(2)	CHARACTER	1	KTCH_ARROW	>
(3)	CHARACTER	3	KTCH_DFH	DFH
(6)	CHARACTER	2	KTCH_DOMID	KE
(8)	CHARACTER	8	KTCH_BLOCK_NAME	KTCH
(10)	ADDRESS	4	KTCH_TABLE_START	First KTCB table entry
(14)	ADDRESS	4	KTCH_LAST_ENTRY	Last KTCB table entry
(18)	HALFWORD	2	KTCH_ENTRY_ LENGTH	Length of KTCB table entry
(1A)	HALFWORD	2	*	Reserved

Table 214. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	CHARACTER	4	*	Reserved
(20)	CHARACTER	16	KTCH_SPECIFIC_TCBS	Named KTCB table entries
(20)	ADDRESS	4	KTCH_STEP_TCB	-> Job Step TCB entry
(24)	ADDRESS	4	KTCH_FO_TCB	-> File Owning TCB
(28)	ADDRESS	4	KTCH_RO_TCB	-> Resource Owning TCB
(2C)	ADDRESS	4	KTCH_QR_TCB	-> Quasi Re-entrant TCB
(30)	CHARACTER	8	KTCH_QUICK_CELL	
(30)	ADDRESS	4	KTCH_FIRST_FREE	First KTCB in free list
(34)	FULLWORD	4	KTCH_GUARD	Quick-cell guard count
(38)	CHARACTER	0	*	Round to double-word

```
KTCB Table Entry
```

Table 215.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4104	KTCB_ENTRY	KTCB table entry
(0)	CHARACTER	8	KTCB_NAME	Eye-catcher KTCB
(8)	ADDRESS	4	KTCB_NEXT_FREE	Free list pointer
(C)	ADDRESS	4	KTCB_DEFAULT_TASK	Default task for this TCB
`! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! NB. Next field (KTCB_ACTIVE_TASK) is also declared in DFHKEPRP for user usage via DFHKERN, and it MUST BE KEPT IN SYNC`				
(10)	ADDRESS	4	KTCB_ACTIVE_TASK	Task this TCB is executing
(14)	ADDRESS	4	KTCB_STEAL_POINT	Address of stack entry to steal from
(18)	CHARACTER	24	KTCB_TIMER	Timer management fields
(18)	CHARACTER	8	KTCB_ACCUM_TIME	Accumulated TCB time
(20)	CHARACTER	8	KTCB_STIMER_TIME	Time last STIMER was issued
(28)	CHARACTER	8	KTCB_EXIT_TIME	Value last STIMER interval

Table 215. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	CHARACTER	4	KTCB_TIMER_STATE	Status of CPU timing
	1...		KTCB_TIMER_ ACTIVE	CPU timing is active
(30)	BIT(15) POS(2)	2	*	Reserved
(32)	HALFWORD	2	KTCB_TIMER_ CHANGES	
				Number of times state has changed
(34)	FULLWORD	4	KTCB_TCB_ WAIT_ECB	ECB used to Wait this TCB for Perform_System_Action
(38)	BIT(16)	2	KTCB_STATE	Status of TCB
	1...		KTCB_SWITCH_ SS_ENV	
				Switch ENVIRONMENT
	.1..		KTCB_SS_ENV	SUBSPACE ENVIRONMENT
	..1.		KTCB_LE_CICS	LE uses CICS services
	...1		KTCB_EXEC_ CAPABLE	supports EXEC CICS
	.... 1...		KTCB_UNUSED	KTCB entry not in use
	.... .1..		KTCB_ATTACHED_ TCB	TCB is attached-unlike Step
	.... ..1.		KTCB_CURRENTLY_ ATTACHED	
				TCB is currently attached
	1		KTCB_TCB_POSTED	ECVS Posted for termination
(39)	1...		KTCB_ESSENTIAL_ TCB	
				essential TCB - '1'b
	.1..		KTCB_DAUGHTER_ TERMINATED	
				Daughter can be detached. *
	..1.		KTCB_HAS_ BEEN_DETACHED	
				Corr TCB has been detached *

Table 215. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		KTCB_ATTACHING_ TCB	
				TCB IS being attached.
	.... 1...		KTCB_ESTAE_ ENVIRONMENT	
				TCB IS to be terminated. *
	.... .1..		KTCB_ATTACH_ TCB_WITH_USER_KEY	
				'1'b attach with USERKEY *
	.... ..1.		KTCB_SZERO	Shared = '1'b
	1		KTCB_PTHREAD	Attached TCB is pthread
(3A)	BIT(8)	1	KTCB_ESTAE_STATE	Status of Estae
	1...		KTCB_KESTX_ IN_PROGRESS	
				DFHKESTX is in control
	.1..		KTCB_ESTAE_ WAIT_ISSUED	
				ESTAE wait issued
	..1.		KTCB_CLEAN_ UP_ESTAE	
				SDWACLUP was set
	...1		KTCB_CANCEL_ ESTAE	X22 Abend (Cancel)
	.... 1...		KTCB_NO_SDWA	No SDWA for DFHKESTX
(3B)	BIT(8)	1	KTCB_ABEND_999	Type of Abend 999 request
	1...		KTCB_RUNAWAY_ REQUESTED	
				Abend 999 runaway request
	.1..		KTCB_RESET_ REQUESTED	
				Abend 999 reset PSW request
	..1.		KTCB_PERCOLATE_ ERROR	
				Abend 999 percolate error

Table 215. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		KTCB_OUT_ OF_STACK	Abend 999 out of stack
	.... 1...		KTCB_ERROR_ MAX_EXCEEDED	
				ABEND 999 MAX ERR
	.... .1..		KTCB_KILL_ REQUESTED	
				Abend 999 kill rq
	11		*	Reserved
(3C)	CHARACTER	1	KTCB_TCB_TYPE	TCB type: S - Job step R - Resource owning Q - Quasi re-entrant C - Concurrent Z - Secondary LU P - ONC/RPC N - modename
(3D)	CHARACTER	1	*	Reserved
(3E)	CHARACTER	2	KTCB_MODENAME	TCB modename:
(40)	ADDRESS	4	KTCB_TRAP_ PARAMETER	
				Global trap parameter list
(44)	ADDRESS	4	KTCB_PTHREAD_PTR	Pointer to KEPT
(48)	CHARACTER	20	KTCB_ATTACH_ INTERFACE	
				Interface to MVS Attach
(48)	ADDRESS	4	KTCB_ATTACH_ PARAM	Address of the TCB entry
(4C)	FULLWORD	4	KTCB_ATTACH_ INIT_ECB	
				This ECB is Posted when Create TCB selects this TCB
(50)	ADDRESS	4	KTCB_ATTACH_ TCB_ADDRESS	
				Address of MVS TCB for this KTCB entry
(54)	FULLWORD	4	KTCB_TERMINATE_ ECB	

Table 215. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				This ECB is Posted to force the Step TCB to terminate
(58)	ADDRESS	4	KTCB_MVS_RSA	MVS save area passed from MVS by the newly Attached TCB
(5C)	ADDRESS	4	KTCB_RESET_ PARAMETER	
				PSW and registers for Reset
(60)	CHARACTER	20	KTCB_LOCK_ ELEMENT	TCB lock queue element
(60)	CHARACTER	8	KTCB_LOCK_ STATIC_QEL	
				CHAR(8)
(60)	FULLWORD	4	*	
(64)	ADDRESS	4	KTCB_LOCK_ CHAIN	Next TCB lock queue element *
(68)	ADDRESS	4	KTCB_LOCK_ BACK_POINTER	
				Lock block address
(68)	ADDRESS	4	KTCB_LOCK_ LCB_PTR	
(6C)	ADDRESS	4	KTCB_LOCK_ ACTIVE_QEL_PTR	
(70)	FULLWORD	4	KTCB_LOCK_ECB	ECB used to wait this TCB *
(74)	CHARACTER	16	KTCB_TCB_TOKEN	
(84)	ADDRESS	4	KTCB_RESET_ FP_REGS	FP registers for Reset
(88)	ADDRESS	4	KTCB_NEXT_ENTRY	Next table entry
(8C)	ADDRESS	4	KTCB_MOTHER_KTCB	Address of mother KTCB
(90)	HALFWORD	2	KTCB_PRTY_ RELATIVE_ TO_PARENT	
(92)	BIT(8)	1	KTCB_CANCEL_ STATE	Status of CANCeL
	1...		KTCB_CANCEL_ REQUESTED	
				ABEND 999 CANCEL REQD

Table 215. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.111 1111		*	Reserved
(93)	UNSIGNED	1	*	Reserved
(94)	CHARACTER	32	*	Reserved
(B4)	CHARACTER	2	KTCB_DEPENDENT_ ON_MODENAME	
(B6)	CHARACTER	2	*	Reserved
(B8)	CHARACTER	8	KTCB_KETIX_ LAST_INVOKED	
				Time of last KETIX run
The following four fields are used as automatic storage for new variables to one of these modules.				
(C0)	CHARACTER	2808	KTCB_ESTAE_ AUTOMATIC	
				Auto for Estae exit
(BB8)	CHARACTER	344	KTCB_STIMER_ AUTOMATIC	
				Automatic for Stimer exit
(D10)	CHARACTER	56	KTCB_ETXR_ AUTOMATIC	
				Automatic for ETXRer exit
(D48)	CHARACTER	704	KTCB_TCB_ AUTOMATIC	Automatic for TCB code
(1008)	CHARACTER	0	KTCB_AUTOMATIC_ END	End of automatic areas
(1008)	CHARACTER	0	*	Round to double-word

Constants

Table 216.

Len	Type	value	Name	Description
CICS RB in control at time of error if all three bits in TAS_ERROR_EXECUTING_RB are off.				
0	BIT	000	TAS_ERROR_CICS_RB	
Possible values for KTCB_TCB_TYPE				
1	CHARACTER	S	KTCB_JOB_STEP	
1	CHARACTER	F	KTCB_FILE_OWNING	
1	CHARACTER	R	KTCB_RESOURCE_ OWNING	
1	CHARACTER	Q	KTCB_QUASI_ REENTRANT	

Table 216. (continued)

Len	Type	value	Name	Description
1	CHARACTER	C	KTCB_CONCURRENT	
1	CHARACTER	Z	KTCB_SECONDARY_LU	
1	CHARACTER	P	KTCB_ONC_RPC	
1	CHARACTER	N	KTCB_ARBITRARY_NAME	
Error Table Constant				
4	DECIMAL	50	ERROR_ENTRY_NUMBER	

KCB Kernel Anchor Block

```
-------------------------------------------------------------------
 CONTROL BLOCK NAME = DFHKEGBL
 DESCRIPTIVE NAME  = CICS (KE) Kernel Global.

 Restricted Materials of IBM

 FUNCTION =
      Kernel's Anchor for all other control blocks.
      This anchor points to kernel programs, domain and task
      tables.
      These blocks are described in DFHKECB.
      The Kernel Anchor is addressed in two ways:
      First, if the Kernel is Called the R13 -> Linkage that
      identifies the Kernel Global.
      Secondly, the KCB can be addressed from the AFCS via low
      core, the TCB Extension and the AFCB.
      The AFCS/AFCB/AFT is defined in DFHAFCP, a PLAS copy book.
 LIFETIME = One per Space, for the duration of the CICS Run.
 STORAGE CLASS =
 LOCATION = See Above.
 INNER CONTROL BLOCKS =
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
   CONTROL BLOCKS =
   GLOBAL VARIABLES (Macro pass) =
  -----------------------------------------------------------------
   Kernel Global Storage
     Global to this CICS Step
  -----------------------------------------------------------------
```

Table 217.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1024	DFHKCB	
(0)	CHARACTER	96	KCB_PROCESS_OWN	Process own table
(0)	CHARACTER	16	KCB_PREFIX	Standard prefix
(0)	HALFWORD	2	KCB_LENGTH	Length of KCB
(2)	CHARACTER	1	KCB_ARROW	>

Table 217. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	CHARACTER	3	KCB_DFH	DFH
(6)	CHARACTER	2	KCB_DOMID	KE
(8)	CHARACTER	8	KCB_BLOCK_NAME	KCB
(10)	ADDRESS	4	KCB_DOMAIN_CALL	Domain call
(14)	ADDRESS	4	KCB_PERCOLATE	Percolate
(18)	ADDRESS	4	KCB_DOMAIN_ RETURN	Domain return
(1C)	ADDRESS	4	KCB_RECOVERY_ EXIT	Recovery Exit
(20)	ADDRESS	4	KCB_RECOVERY_ REQUEST	
				Recovery Request
(24)	ADDRESS	4	KCB_RESET_ ADDRESS	Reset Address
(28)	ADDRESS	4	KCB_SUBROUTINE_ CALL	
				Subroutine call
(2C)	ADDRESS	4	KCB_SUBROUTINE_ RETURN	
				Subroutine return
(30)	ADDRESS	4	KCB_TRACE_ DOM_CALL	
				Address of DFHTRPX, Fast Trace Module
(34)	ADDRESS	4	KCB_TRACE_ DOM_TABLE	
				Address of Trace Global Storage
(38)	ADDRESS	4	KCB_DOMAIN_ RETURN_24	
				Dom. ret. from smode
(3C)	ADDRESS	4	KCB_SUBROUTINE_ RETURN_24	
				Sub. ret. from smode 24@L2A
(40)	ADDRESS	4	KCB_ADD_ CICS_RECOVERY_EP	
				DFHKESTX entry point
(44)	ADDRESS	4	KCB_XPI_ DOMAIN_CALL	

Table 217. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Domain call for XPI
(48)	ADDRESS	4	* (6)	Reserved Process-Own
(60)	UNSIGNED	4	KCB_RUNAWAY_ LIMIT	System runaway limit
(64)	ADDRESS	4	KCB_OVERFLOW_ STACK_LM_LOCK	
				Lock for queuing tasks if low on 31-overflow stacks
(68)	UNSIGNED	2	*	Reserved
(6A)	UNSIGNED	2	KCB_MIN_ FREE_OVERFLOWS	
				Minimum no. of 31-overflow stacks to maintain
Kernel status fields				
(6C)	BIT(32)	4	KCB_KERNEL_ STATUS	Kernel status fields
(6C)	BIT(8)	1	KCB_JOB_ STEP_STATUS	
				Status of CICS Job Step
	1...		KCB_TERMINATE_ REQUESTED	
				Terminate CICS requested
	.1..		KCB_DUMP_ REQUESTED	
				MVS Sdump requested
	..1.		KCB_CANCEL_ REQUESTED	
				X22 Abend has occurred
	...1		KCB_NORMAL_ TERMINATION	
				Normal term. requested
	.... 1...		KCB_OUT_ OF_STACK	Out of stack space
	.... .1..		KCB_CANT_ TERMINATE_FO	

Table 217. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				ON AN IMM SHUTDOWN
	11		*	RESERVED
(6D)	BIT(8)	1	KCB_FACILITY_ STATUS	
				Status of Kernel facilities
	1...		KCB_QUIESCE_ DOMAIN_RECEIVED	
				KE has been told to quiesce
	.1..		KCB_ESTAE_ ACTIVE	Estae active
	..1.		KCB_HPO_ACTIVE	HPO available
	...1 11..		*	RESERVED
	.... ..1.		KCB_TRAP_ ACTIVE	Kernel global trap active
	1		KCB_CICS	0-current job is STUP 1-current job is CICS
(6E)	BIT(8)	1	KCB_TIMER_ STATUS	Kernel timer status
	1...		*	Reserved
	.1..		KCB_CLOCKING_ ACTIVE	
				CPU time recording active
	..1.		KCB_STIMER_ ACTIVE	
				Kernel STimer active
	...1 1111		*	Reserved
(6F)	BIT(8)	1	*	Reserved
Kernel table addresses.				
(70)	ADDRESS	4	KCB_TASK_ CHAIN_START	
				Address of first task in global chain
(74)	ADDRESS	4	KCB_SHARED_ SEG_24	PTR to dummy shared seg.
(78)	ADDRESS	4	KCB_DOMAIN_TABLE	Address of domain table header
(7C)	FULLWORD	4	KCB_TEMP_ STATIC_ TASK_NUMBER	

Table 217. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Number of temporary static tasks				
(80)	ADDRESS	4	KCB_ERROR_TABLE	Address of error table header
(84)	ADDRESS	4	KCB_KTCB_TABLE	Address of KTCB table header
Kernel global data.				
(88)	CHARACTER	8	KCB_STIMER_ INTERVAL	
				MVS STIMER interval
(90)	FULLWORD	4	KCB_DOMAIN_ NUMBER	Number of domains
(94)	FULLWORD	4	KCB_GATE_NUMBER	Number of gates
(98)	FULLWORD	4	KCB_STATIC_ TASK_NUMBER	
				Number of static tasks
(9C)	HALFWORD	2	KCB_DUMP_RETRY	SDUMP retry time
(9E)	BIT(8)	1	KCB_GLOBAL_ DATA_FLAGS	
				Various flags
	1...		KCB_ISC_ AVAILABLE	ISC is available in this system
	.1..		KCB_XRF	XRF option
	..1.		KCB_STORAGE_ PROTECT_SUPPORTED	
				Hardware supports storage protect
	...1		KCB_SET_ DUB_ISSUED	
				SetDubDefault issued
	 1111		*	Reserved
(9F)	CHARACTER	1	*	Reserved
(A0)	FULLWORD	4	KCB_KTCB_NUMBER	Number of KTCBs
(A4)	CHARACTER	4	KCB_TIMER_STATE	Status of CPU timing, communicates between the different KTCBs
	1...		KCB_TIMER_ ACTIVE	CPU timing is active
(A4)	BIT(15) POS(2)	2	*	Padding

Table 217. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A6)	HALFWORD	2	KCB_TIMER_ CHANGES	Number of times state has changed
(A8)	CHARACTER	8	KCB_PARMS	OS parameters
(A8)	ADDRESS	4	KCB_PARMS_ADDR	Address of data
(AC)	FULLWORD	4	KCB_PARMS_LEN	Length of data
(B0)	CHARACTER	56	KCB_DESCRIPTION	Address space descript
(B0)	CHARACTER	8	KCB_GENERIC_ APPLID	
				VTAM applid
(B8)	CHARACTER	8	KCB_SPECIFIC_ APPLID	
				VTAM applid
(C0)	CHARACTER	8	KCB_XRF_ COMMAND_LIST	
				Name of failure commands
(C8)	CHARACTER	8	KCB_ALTERNATE_ XRF_IDS	
				AXI table name
(D0)	CHARACTER	8	KCB_XCFGROUP	Region's XCFGroup name
(D8)	CHARACTER	8	KCB_SIT_NAME	System Initialisation table
(E0)	CHARACTER	4	KCB_SYSID	System entry name
(E4)	CHARACTER	1	KCB_OP_SYS	Operating system (Z=z/OS)
(E5)	CHARACTER	1	KCB_OP_VERSION	Version of above system
(E6)	CHARACTER	1	KCB_OP_RELEASE	Release of above system
(E7)	CHARACTER	1	KCB_OP_ MODIFICATION	
				Modification of above systm
(E8)	ADDRESS	4	KCB_MODULE_ VECTOR_POINTER	
				Critical Csect pointer
(EC)	ADDRESS	4	KCB_WINDOW_ VECTOR_POINTER	
				Windows pointer

Table 217. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F0)	HALFWORD	2	*	Reserved
(F2)	UNSIGNED	1	KCB_CICS_SVC	The CICS Service SVC
(F3)	UNSIGNED	1	KCB_CICS_ SVC_NUMBER	
				CICS Service SVC number
(F4)	ADDRESS	4	KCB_IPL_STACK	First system stack
(F8)	CHARACTER	8	KCB_LOCAL_ TIME_DELTA	
				Diffrnce between STCK & TOD
(F8)	UNSIGNED	4	KCB_DELTA_HIGH	High order word
(FC)	UNSIGNED	4	KCB_DELTA_LOW	Low order word
(100)	BIT(8)	1	KCB_GMT_TO_LOCAL	Indicates how to re-instate local time from GMT
	1...		KCB_ADD_DELTA	Add delta to STCK time
	.1..		KCB_SUBTRACT_ DELTA	
				Subtract delta from STCK
	..11 1111		*	Unused
(101)	BIT(8)	1	KCB_DATE_FORMAT	CICS default date format
	1...		KCB_YYMMDD	Date format YYMMDD
	.1..		KCB_DDMMYY	Date format DDMMYY
	..1.		KCB_MMDDYY	Date format MMDDYY
	...1 1111		*	Padding
(102)	BIT(8)	1	KCB_NOTIFY_ RESET_DOMAINS	
	1...		KCB_NOTIFY_ TRACE	Trace Domain to be notified
	.111 1111		*	Unused
(103)	UNSIGNED	1	*	Padding
(104)	FULLWORD	4	KCB_TRACE	Trace management data
(104)	BIT(8)	1	KCB_TRMF	Trace master flags

Table 217. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		KCB_MASTER	
	.1..		KCB_SYSTEM_ MASTER	
(105)	UNSIGNED	1	*	Padding
(106)	HALFWORD	2	KCB_TRACE_COUNT	Trace data change count
(108)	CHARACTER	12	KCB_TRAP	Global trap field
(108)	BIT(8)	1	KCB_TRAP_STATUS	Status of global trap
	1...		KCB_TRAP_ ENABLED	SET_TRAP has been issued, so address+parameter valid
	.111 1111		*	Padding
(109)	CHARACTER	3	*	Padding
(10C)	ADDRESS	4	KCB_TRAP_ ADDRESS	Address to call
(110)	ADDRESS	4	KCB_TRAP_ PARAMETER	
				Address to pass
(114)	ADDRESS	4	KCB_DFHCRC_ ADDRESS	Need this for Estaes
(118)	FULLWORD	4	KCB_MXT_ EXTRA_SEGMENTS_24	
				Extra non-disposable 24-bit segments to support current MXT value
(11C)	FULLWORD	4	*	Reserved
(120)	ADDRESS	4	KCB_DISPOSAL_ CHAIN	Start of disposal chain
(124)	FULLWORD	4	KCB_EXCESS_ STATIC_TASKS	
				Static tasks surplus to requirements but not yet on the disposal chain
(128)	CHARACTER	8	KCB_STK24_ SUBPOOL_TOKEN	
				Subpool for initial 24-bit stack segments
(130)	CHARACTER	8	KCB_STK31_ SUBPOOL_TOKEN	

Table 217. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Subpool for initial 31-bit stack segments
(138)	CHARACTER	8	KCB_STK24E_ SUBPOOL_TOKEN	
				Subpool for extra 24-bit stack segments
(140)	CHARACTER	8	KCB_STK31E_ SUBPOOL_TOKEN	
				Subpool for extra 31-bit stack segments
(148)	CHARACTER	8	KCB_TASK_ SUBPOOL_TOKEN	
				Subpool for Kernel tasks
(150)	CHARACTER	8	KCB_ANCHOR_ SUBPOOL	Subpool token for domain anchor blocks
(158)	CHARACTER	8	KCB_KE_LOCK	Kernel global lock
(160)	UNSIGNED	4	KCB_FREE_ TCBS_LOCK	Lock for tcb proc
(164)	FULLWORD	4	KCB_MXT_ EXTRA_SEGMENTS_31	
				Extra non-disposable 31-bit segments to support current MXT value
(168)	CHARACTER	8	KCB_RNI_ FREE_TCBS_TOKEN	
				TIMER TOKEN RETAINED FOLLOWING A REQUEST NOTIFY INTERVAL REQUEST.
(170)	CHARACTER	192	*	Ensure alignment
(170)	ADDRESS	4	KCB_DOMAIN_ VECTOR (0-47)	Optimized route to domain table entries
(230)	CHARACTER	0	KCB_PAD1	Pad to cache boundary
(230)	CHARACTER	208	*	

Table 217. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(300)	CHARACTER	8	KCB_SEG24_ QUICK_CELL	
				24-bit seg Q-C chain
(300)	ADDRESS	4	KCB_SEG24_ FIRST_FREE	
				First free 24-bit seg
(304)	FULLWORD	4	KCB_SEG24_GUARD	Quick-cell guard count
(304)	UNSIGNED	2	KCB_SEG24_ GUARD_COUNT	
				Half-word guard count for free segment chain
(306)	UNSIGNED	2	KCB_SEG24_ FREE_SEGS	
				Number of free segments in chain
(308)	CHARACTER	8	KCB_SEG31_ QUICK_CELL	
				31-bit seg Q-C chain
(308)	ADDRESS	4	KCB_SEG31_ FIRST_FREE	
				First free 31-bit seg
(30C)	FULLWORD	4	KCB_SEG31_GUARD	Quick-cell guard count
(30C)	UNSIGNED	2	KCB_SEG31_ GUARD_COUNT	
				Half-word guard count for free segment chain
(30E)	UNSIGNED	2	KCB_SEG31_ FREE_SEGS	
				Number of free segments in chain
(310)	CHARACTER	8	KCB_DEFAULT_ QUICK_CELL	
				Default q-c chain
(310)	ADDRESS	4	KCB_DEFAULT_ FIRST_FREE	
				First task in free list@LIA

Table 217. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(314)	FULLWORD	4	KCB_DEFAULT_ GUARD	Quick-cell guard count
(318)	CHARACTER	8	KCB_STATIC_ QUICK_CELL	
				Static quick-cell chn
(318)	ADDRESS	4	KCB_STATIC_ FIRST_FREE	
				First task in free list@L4A
(31C)	FULLWORD	4	KCB_STATIC_ GUARD	Quick-cell guard count
(320)	CHARACTER	8	KCB_DYNAMIC_ QUICK_CELL	
				Dynamic q-c chain
(320)	ADDRESS	4	KCB_DYNAMIC_ FIRST_FREE	
				First task in free list@L4A
(324)	FULLWORD	4	KCB_DYNAMIC_ GUARD	Quick-cell guard count
(328)	CHARACTER	0	KCB_PAD2	Pad to cache boundary
(328)	CHARACTER	216	*	
(400)	CHARACTER	0	KCB_DOMAIN_ TABLE_START	
				Cache align

`Module Vector Pointer.`

Table 218.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	KCB_MODULE_VECTOR	Pointers to critical addresses
(0)	FULLWORD	4	KCB_VECTOR_SIZE	Number of entries
(4)	FULLWORD	4	*	Padding
(8)	CHARACTER	8	KCB_VECTOR_ENTRY (8)	Critical vector entries
(8)	ADDRESS	4	KCB_MODULE_ ADDRESS	
				Address of Module
(C)	FULLWORD	4	KCB_MODULE_ LENGTH	Length of Module

Table 218. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	CHARACTER	0	*	Round to double-word

KEMHD Kernel Module Header

```
CONTROL BLOCK NAME = DFHKEMHD
DESCRIPTIVE NAME  = CICS (KE) Module header

Restricted Materials of IBM

FUNCTION =
     Define the module header control block.
LIFETIME =
     Same as the module which contains the module header.
STORAGE CLASS =
     Same as the module which contains the module header.
LOCATION =
     At the start of any module which contains the module header.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS =
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 219.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	88	MODULE_DESCRIPTOR	
(0)	HALFWORD	2	MODHHLEN	THIS DSECT LENGTH
(2)	CHARACTER	8	MODHEYE	Eyecatcher '>MODHEAD' *
(A)	UNSIGNED	1	MODHLEVL	LEVEL = 04
(B)	CHARACTER	1	MODHLANG	LANG A=ASM P=PL/X
(C)	CHARACTER	1	MODHSYST	ATTRIBUTE ONE
	1...		MODHOS	MVS
	.1..		MODHDOS	DOS
	..1.		MODHCMS	CMS
	...1 1111		*	
(D)	CHARACTER	3	MODHRELS	RELEASE OF CICS
(10)	CHARACTER	8	MODHNAME	FULL NAME
(18)	CHARACTER	8	MODHDATE	DATE OF ASSEMBLY
(20)	CHARACTER	1	*	

Table 219. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(21)	CHARACTER	5	MODHTIME	TIME OF ASSEMBLY
(26)	UNSIGNED	1	MODHATR1	ATTRIBUTE ONE
(27)	BIT(8)	1	MODHATR2	ATTRIBUTE BYTE TWO
	1111 1...		*	For Future Use.
	.... .1..		MODH_AUTOREG_13	1 = autoreg_13, 0 = not
	.... ..1.		MODH_HANDLE_DEF_ABEND	1 = handles deferred abend, 0 = doesn't
	1		MODHAM31	Amode. 0 = 24, 1 = 31.
(28)	ADDRESS	4	MODHRCVR	Address of recovery routine
(2C)	CHARACTER	8	MODHSERV	Service Data (PTF/APAR)
(34)	CHARACTER	4	MODHIPROC	IPROC Data.
(34)	UNSIGNED	2	MODH_IPROC_D	IPROC Descriptor: offset in module.
(36)	UNSIGNED	2	MODH_IPROC_F	IPROC Flags: Offset in automatic.
(38)	UNSIGNED	2	MODHSOFF	Offset to static
(3A)	UNSIGNED	1	MODHSNUM	Num. of static regs
(3B)	UNSIGNED	1	MODHCNUM	Number of Code Registers
(3C)	FULLWORD	4	MODHMLEN	Module length
(40)	FULLWORD	4	MODHSTKL	Required stack len
(40)	BIT(8)	1	MODHSTKM	Stack mode flag '00'X=SMODE(31) '80'X=SMODE(24)
(41)	UNSIGNED	3	MODKSTKA	Actual stack length
(44)	FULLWORD	4	MODHSMODE	Smode index
(48)	FULLWORD	4	MODHIPDO	IPROC desc (module)
(4C)	FULLWORD	4	MODHIPFO	IPROC flags (auto)
(50)	FULLWORD	4	MODHSTSO	Offset to static
(54)	ADDRESS	4	MODHNTRY	Address of code

Table 219. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	CHARACTER	0	*	End of module hdr

```
Lifo Plist
```

Table 220.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	17	DFHLIFO_PLIST	Lifo Plist.
(0)	HALFWORD	2	LF_PLIST_LEN	Length of Plist.
(2)	HALFWORD	2	LF_PLIST_DID	DSA Id.
(4)	HALFWORD	2	LF_PLIST_DLN	DSA Length.
(6)	HALFWORD	2	LF_PLIST_ MODULE_OFFSET	
				Offset of Module Start from where this Plist is.
(8)	FULLWORD	4	LF_PLIST_TRC	Trace Flags.
(C)	HALFWORD	2	LF_PLIST_MOD	Module Id.
(E)	CHARACTER	2	LF_PLIST_MDC	Module Id in Character form.
(10)	BIT(8)	1	LF_PLIST_TRF	Option Setting.
	1111		*	Padding.
	.... 1...		LF_PLIST_TRCN	Conditional Request.
	.... .1..		LF_PLIST_TRRN	Conditional Return Request.
	.... ..1.		LF_PLIST_TRIC	IC Logic is requested.
	1		LF_PLIST_TRTR	Tracing is requested.

Constants

Table 221.

Len	Type	value	Name	Description
Equate for MODHEYE.				
8	CHARACTER	>MODHEAD	MODH_EYE_CATCHER	
EQUATES FOR MODHATR1.				
1	DECIMAL	0	MODHATRD	READONLY
1	DECIMAL	1	MODHATNR	NON READONLY
1	DECIMAL	2	MODHATRE	FULLY REENTRANT
Equates for MODHSMODE.				
4	DECIMAL	0	MODHSMODE_31	Smode 31

Table 221. (continued)

Len	Type	value	Name	Description
4	DECIMAL	8	MODHSMODE_24	Smode 24

KESTP Kernel Stack Entry

```
-------------------------------------------------------------------
 CONTROL BLOCK NAME = DFHKESTP
 DESCRIPTIVE NAME  = CICS (KE) Kernel Stack Structure.

 Restricted Materials of IBM

 FUNCTION =
 LIFETIME = Per Call.
 STORAGE CLASS = Kernel-Managed MVS Storage /
                 KESTACKS subpool storage
 LOCATION = R13 -> this block.
 INNER CONTROL BLOCKS =
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
  MODULE TYPE = Control block definition
  -----------------------------------------------------------------
    Kernel Stack
      Format must remain compatible with LIFO stack.
  -----------------------------------------------------------------
```

Table 222.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	128	KERNSTCK	
(0)	CHARACTER	76	*	
(0)	CHARACTER	1	KERNOFF0	Type of stack entry
(1)	UNSIGNED	1	KERNSTAT	Status flags
	1...		KERNLOOP	DSA may be looping
	.1..		KERNERRD	DFHKERRD exists, i.e. stack in error state
	..1.		KERNACR	CICS Recovery added
	...1		KERNSAVE	Save area exists and is pointed to by KERNSAVP
	.... 1...		KERNLCON	Loop controller
	.... .1..		KERNDFAB	Deferred abend scheduled against this stack
	.... ..1.		KERNABTM	ABTERM_ALLOWED swi
(2)	HALFWORD	2	KERNOFLN	Length of stack+auto
(4)	ADDRESS	4	KERNBPTR	Backward stack pointer

Table 222. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	ADDRESS	4	*	Reserved
(C)	CHARACTER	64	KERNRGST	Registers 14:13
(C)	ADDRESS	4	KERNREGS (16)	Registers 14:13 R1 = Address of plist
(4C)	ADDRESS	4	KERNSAVP	Save area pointer
(50)	ADDRESS	4	KERNTASN	Address ot task entry
(54)	ADDRESS	4	KERNPOWN	Address of kernel global storage
(58)	ADDRESS	4	KERNDTAB	Caller/s domain entry
(5C)	BIT(32)	4	KERNTRFL	Trace flags(1 = trace)
(60)	ADDRESS	4	KERNNAB	Next available byte
(64)	ADDRESS	4	KERNMODH	header
(68)	FULLWORD	4	KERNSGCN	Segment chain DSA back chai
(6C)	ADDRESS	4	*	Reserved
(70)	CHARACTER	4	KERNMODS	Module name IDs
(70)	ADDRESS	4	KERNSCCN	Saved Lifo back chain (Subroutine call/retn only)
(74)	ADDRESS	4	KERNPL1	Plist address 1
(78)	ADDRESS	4	KERNPL2	Plist address 2
(7C)	ADDRESS	4	KERNRETC	Return code field
(80)	CHARACTER	0	KERNSTCK_END	Round to double-word - See note above about changing the length of this structure.

```
Kernel Stack Save Area
```

Table 223.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	KESTACKSAVE	
(0)	CHARACTER	196	KES_HEADER	

Table 223. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	128	KES_SAVED_ STACK_ENTRY	
				Saved stack entry
(80)	CHARACTER	64	KES_REGISTERS	Register save area
(C0)	FULLWORD	4	KES_LENGTH	Incl. length of save area *
(C4)	CHARACTER	*	KES_AUTOMATIC	Automatic storage

```
Kernel Domain Table Entry Overlay.
```

Table 224.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	KERN_DTE	
(0)	CHARACTER	8	*	Used by Kernel
(8)	FULLWORD	4	KERN_DTE_INDEX	Domain index
(C)	CHARACTER	4	*	USED BY KERNEL
(10)	ADDRESS	4	KERN_DTE_ANCHOR	Domain anchor
(14)	CHARACTER	*	*	Used by Kernel

Constants

Table 225.

Len	Type	value	Name	Description
KERNOFF0				
1	CHARACTER	9	KERN0KER	
1	DECIMAL	0	KERN0DCL	
1	CHARACTER	1	KERN0SCL	
1	CHARACTER	2	KERN0LCL	

L2BL Log Manager Block Class

```
!:refstep.L2BL_Class ---------------------------------- DFHL2BL 126 -
!
!
! What follows defines the Log Manager Block class.
!
!-----------------------------------------------------------------------
!:refstep.L2BL_Class_Declaration ---------------------- DFHL2BL 155 -
!
! The Block class has instance data and class data.
!
!-----------------------------------------------------------------------
```

Table 226.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	104	BLOCK	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	
!:refstep.L2BL_Instance_Data ------------------------- DFHL2BL 229 - ! ! An instance of the Block class consists of... ! !----------				
Declared Data				
(8)	STRUCTURE Prot	92	INSTANCE_ DATA_BLOCK	
(8)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	EYE_CATCHER	eye catcher
(8)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(A)	UNSIGNED Publ	2	L2_EYE_OFFSET	offset of eye-catcher in object
(C)	CHARACTER Publ	12	L2_EYE_STRING	'>DFHL2xxxxxx'
(18)	CHARACTER Prot	8	BLOCK_NUM	CICS Block Number
(20)	CHARACTER Prot	8	BLOCK_ID	MVS Block ID
(28)	BIT(8) Prot	1	KNOWN_BY	
	1... .... Prot		NUMBER	Block number known
	.1.. .... Prot		ID	Block id known
(29)	BIT(8) Prot	1	BTYPE	Flags
	1... .... Prot		WRITEABLE	Block used for writing
	.1.. .... Prot		READABLE	Block used for reading
	..1. .... Prot		UNFLATTENED	Block resulted from unflattening
(2A)	CHARACTER Prot	2	*	reserved
(2C)	UNSIGNED Prot	4	USE_COUNT	users of this block
(30)	CHARACTER Prot	8	TIME	time of this block

Table 226. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	STRUCTURE Prot IsA(BLOCKBUFFER)	12	BUFFER	buffer containing data read/written
(38)	ADDRESS Prot	4	START	Start of the buffer
(3C)	SIGNED Prot	4	LEN	Length of the buffer
(40)	ADDRESS Prot	4	CURRENT	Current append point in the buffer
(44)	CHARACTER Prot	8	JOURNAL_NAME	journal name
(4C)	FIXED Prot IsA(L2_YESNO)	1	SYSLOG	is this part of a system log
(4D)	UNSIGNED Prot	1	STYPE	type of stream
(4E)	CHARACTER Prot	2	*	reserved
(50)	SIGNED Prot	4	MAX_REC_LEN	maximum record length that could fit in
(54)	CHARACTER Prot	16	*	reserved

```
!:erefstep.L2BL_Instance_Data ------------------------------------
!:refstep.L2BL_Types ---------------------------------- DFHL2BL 181 -
!
! Declare Block associated types. There are types for BlockContext,
! BlockBuffer, and ReadCursor. Refer to DFHL2LFC for the definition
! of Blockid, BlockNumber and FlatBlock.
!
!--------------------------------------------------------------------
!:refstep.L2BL_BlockContext_Type ---------------------- DFHL2BL 193 -
!
! A BlockContext provides context information for a Block object. It
! is held on Block's behalf by Stream, and is passed to Block on
! those methods that require context information. Essentially it
! enables a Block object to know about the other Blocks that have
! been used by a given Stream.
!
!--------------------------------------------------------------------
```

SHARED DATA

Declared Data

(0)	STRUCTURE Publ	32	BLOCKCONTEXT	
(0)	CHARACTER Publ	8	CURR_BLOCK_NUM	block number of last block created
(8)	CHARACTER Publ	8	LAST_BLOCK_ID	block id of last block written to MVS
(10)	CHARACTER Publ	8	LAST_BLOCK_TIME	creation time of last block written to MVS

Table 226. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	UNSIGNED Publ	1	*	reserved
(19)	UNSIGNED Publ	1	*	reserved
(1A)	CHARACTER Publ	6	*	reserved
(20)	CHARACTER Publ	0	*	
!:erefstep.L2BL_BlockContext_Type ----------				
(0)	STRUCTURE Prot	12	BLOCKBUFFER	
(0)	ADDRESS Prot	4	START	Start of the buffer
(4)	SIGNED Prot	4	LEN	Length of the buffer
(8)	ADDRESS Prot	4	CURRENT	Current append point in the buffer
(0)	STRUCTURE Prot	20	READCURSOR	
(0)	ADDRESS Prot	4	BLOCK_PTR	
(4)	ADDRESS Prot	4	HARD_STREAM_PTR	
(8)	CHARACTER Prot	8	LIMIT_BLOCK_ID	
(10)	CHARACTER Prot IsA(HSREADTOKEN)	4	HS_READ_TOKEN	
!:erefstep.L2BL_Types ---------- !:refstep.L2BL_Class_Data ---------- DFHL2BL 261 - ! ! The class data for the Block class consists of... ! !----------				
(0)	STRUCTURE Prot	314	CLASSDATABLOCK	
(0)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	CLASS_EYE_CATCHER	eye catcher
(0)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(2)	UNSIGNED Publ	2	L2_EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Publ	12	L2_EYE_STRING	'>DFHL2xxxxxx'
(10)	OBJECT Prot IsA(L2OF)	40	OBJECT_FACTORY	object factory for Blocks

Table 226. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.l2of_public_types ---------- !:refstep.l2of_instance_data ---------- DFHL2OF 219 - ! ! The instance data contains an eye-catcher, a subpool name, and a ! subpool token. The subpool name is used as a remark when ! allocating and freeing storage. It consists of the prefix 'L2OF' ! and a suffix which is the name of the object being managed. ! !----------				
(10)	CHARACTER Prot	40	INSTANCE_ DATA_BLOCK	
				L2OF instance data
(10)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	OF_EYE_ CATCHER	eye-catcher
(10)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(12)	UNSIGNED Publ	2	L2_EYE_ OFFSET	offset of eye-catcher in object
(14)	CHARACTER Publ	12	L2_EYE_ STRING	'>DFHL2xxxxxx'
(20)	CHARACTER Prot	8	SUBPOOL_NAME	subpool name
(20)	CHARACTER Prot	4	SUBPOOL_ NAME_PREFIX	
				subpool name prefix
(24)	CHARACTER Prot	4	SUBPOOL_ NAME_SUFFIX	
				subpool name suffix
(28)	CHARACTER Prot	8	SUBPOOL_TOKEN	subpool token
(30)	CHARACTER Prot	8	*	
(38)	STRUCTURE Prot IsA(MVSLOGBLOCKHEADER)	40	MVS_BLOCK_ HEADER	
(38)	CHARACTER Prot	8	LGBH_GLOBAL_ INFO	
(38)	CHARACTER Prot	4	LGBH_BLOCK_ TYPE	set to '>DFH' to
(38)	CHARACTER Prot	1	LGBH_BT_ ARROW	identify a CICS
(39)	CHARACTER Prot	3	LGBH_BT_DFH	block
(3C)	CHARACTER Prot	4	*	

Table 226. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	UNSIGNED Prot	1	LGBH_LOG_ TYPE	general or system log
(3D)	CHARACTER Prot	1	LGBH_FLAGS	reserved
(3E)	UNSIGNED Prot	2	LGBH_BLOCK_ VER	block format version number
(40)	CHARACTER Prot	24	LGBH_CICS_INFO	
(40)	CHARACTER Prot	8	LGBH_GENERIC_ APPLID	
				CICS generic applid
(48)	CHARACTER Prot	8	LGBH_START_ GMT	record time (GMT)
(50)	CHARACTER Prot	8	LGBH_START_ LOCAL	
				record time (LOCAL)
(58)	CHARACTER Prot	8	LGBH_BLOCK_ INFO	
(58)	CHARACTER Prot	8	LGBH_BLOCK_ NUMBER	
				block sequence number
(60)	CHARACTER Prot	0	LGBH_DATA	records follow
(60)	STRUCTURE Prot IsA(SMFLOGBLOCKHEADER)	158	SMF_BLOCK_ HEADER	
(60)	CHARACTER Prot	44	SMF_HEADER	
(60)	UNSIGNED Prot	2	SMFH_LEN	record length
(62)	UNSIGNED Prot	2	SMFH_SEG	segment descriptor
(64)	CHARACTER Prot	1	SMFH_FLG	operating system indicator (see constant prefixed smfh_flg below)
(65)	CHARACTER Prot	1	SMFH_RTY	record type (see constant prefixed smfh_rty below)
(66)	CHARACTER Prot	4	SMFH_TME	time record moved (HHMMSST+)
(6A)	CHARACTER Prot	4	SMFH_DTE	date record moved (0CYYDDD+)

Table 226. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6E)	CHARACTER Prot	4	SMFH_SID	system identification
(72)	CHARACTER Prot	4	SMFH_SSI	sub-system identification (see constant prefixed smfh_ssi below)
(76)	UNSIGNED Prot	2	SMFH_STY	record subtype (see constant prefixed smfh_sty below)
(78)	UNSIGNED Prot	2	SMFH_TRN	number of triplets in record
(7A)	UNSIGNED Prot	2	SMFH_RSVD1	reserved
(7C)	UNSIGNED Prot	4	SMFH_APS	offset to CICS product section
(80)	UNSIGNED Prot	2	SMFH_LPS	length of CICS product section
(82)	UNSIGNED Prot	2	SMFH_NPS	number of CICS product sections
(84)	UNSIGNED Prot	4	SMFH_ASS	offset to CICS data section
(88)	UNSIGNED Prot	2	SMFH_ASL	length of CICS data section
(8A)	UNSIGNED Prot	2	SMFH_ASN	number of CICS data sections
(8C)	CHARACTER Prot	0	*	
(8C)	CHARACTER Prot	114	SMF_PRODUCT_SECTION	
(8C)	CHARACTER Prot	2	SMFPS_VRM	record version format x'0vrm' v = version r = release m = modification (set to &SMF in DFHSYS)
(8E)	CHARACTER Prot	8	SMFPS_PRN	product name (generic APPLID)
(96)	CHARACTER Prot	8	SMFPS_SPN	specific APPLID
(9E)	CHARACTER Prot	2	SMFPS_MFL	record maintenance indicator
(A0)	CHARACTER Prot	2	SMFPS_RSVD2	reserved
(A2)	CHARACTER Prot	52	SMFPS_RSVD3	reserved

Table 226. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(D6)	CHARACTER Prot	8	SMFPS_JNM	journal name
(DE)	CHARACTER Prot	8	SMFPS_JBN	jobname
(E6)	CHARACTER Prot	4	SMFPS_RSD	job date
(EA)	CHARACTER Prot	4	SMFPS_RST	job time
(EE)	CHARACTER Prot	8	SMFPS_UIF	user identification
(F6)	CHARACTER Prot	8	SMFPS_PDN	operating system product level
(FE)	CHARACTER Prot	0	*	
(FE)	CHARACTER Prot	0	SMF_DATA_ SECTION	CICS records
(FE)	CHARACTER Prot	0	SMFDS_DATA	records follow
(FE)	STRUCTURE Prot IsA(STARTOFRUNDATA)	20	SOR_DATA	
(FE)	CHARACTER Prot	20	SOR_CICS_INFO	start-of-run information
(FE)	CHARACTER Prot	4	SOR_CICS_ RELEASE	
				CICS version and release
(102)	CHARACTER Prot	8	SOR_SPECIFIC_ APPLID	
				CICS specific applid
(10A)	CHARACTER Prot	8	SOR_CICS_ USERNAME	
				CICS userid
(112)	CHARACTER Prot	40	*	Reserved

Constants

Table 227.

Len	Type	value	Name	Description
!:erefstep.L2BL_Class_Data ---------- !:refstep.L2BL_Public_Constants ---------- DFHL2BL 366 - ! ! The following constants are provided for users of Block. ! !----------				
4	DECIMAL	1	IO_IN_PROGRESS	

Table 227. (continued)

Len	Type	value	Name	Description
4	DECIMAL	2	LOST_DATA	
4	DECIMAL	3	LOST_ACCESS	
4	DECIMAL	4	DATA_NOT_FOUND	
4	DECIMAL	5	EMPTY_STREAM	
4	DECIMAL	6	END_OF_DATA	

Table 227. (continued)

Len	Type	value	Name	Description

```
     Structure generated for this format
       TRPT
DFHTRPT_ARG DSECT
     First the enumerated type fields
     Each name is assigned a numeric value
TRPT_TRACE_PUT EQU 001
TRPT_OK EQU 001
TRPT_EXCEPTION EQU 002
TRPT_DISASTER EQU 003
TRPT_INVALID EQU 004
TRPT_KERNERROR EQU 005
TRPT_PURGED EQU 006
     TRPT Call structured parameter list
     - Includes a standard 16 byte header
TRPT_HEAD DS 0CL16
TRPT_PLISTLEN DS H LENGTH OF PLIST
                DS H RESERVED FOR ID
TRPT_FORMAT_NO DS F UNIQUE FORMAT NUMBER
TRPT_VERSION_NO DS F VERSION NUMBER OF PLIST
TRPT_RESERVED DS 0XL4 RESERVED
TRPT_RES01 DS X
TRPT_KERNHANDLE EQU X'80'
TRPT_RES02 DS X
TRPT_RES03 DS X
TRPT_RES04 DS X
     EXISTENCE BITS
      The Existence Bits define which parameters
      are included in the request and/or response
TRPT_EXISTENCE DS 0XL8
TRPT_XB01 DS X
TRPT_FUNCTION_X EQU X'80'
TRPT_RESPONSE_X EQU X'20'
TRPT_REASON_X EQU X'10'
TRPT_POINT_ID_X EQU X'04'
TRPT_DATA1_X EQU X'01'
TRPT_XB02 DS X
TRPT_DATA2_X EQU X'80'
TRPT_DATA3_X EQU X'40'
TRPT_DATA4_X EQU X'20'
TRPT_DATA5_X EQU X'10'
TRPT_DATA6_X EQU X'08'
TRPT_DATA7_X EQU X'04'
TRPT_RETURN_ADDR_X EQU X'02'
TRPT_DOMAIN_TOKEN_X EQU X'01'
TRPT_XB03 DS X
TRPT_XB04 DS X
TRPT_XB05 DS X
TRPT_XB06 DS X
TRPT_XB07 DS X
TRPT_XB08 DS X
     Actual KEYWORDS now follow with their
     respective enumerated types commented
TRPT_FUNCTION DS HL001
    TRPT_TRACE_PUT EQU 001
                                DS CL001
TRPT_RESPONSE DS HL001
    TRPT_OK EQU 001
    TRPT_EXCEPTION EQU 002
    TRPT_DISASTER EQU 003
    TRPT_INVALID EQU 004
    TRPT_KERNERROR EQU 005
    TRPT_PURGED EQU 006
TRPT_REASON DS HL001
                                DS CL008
TRPT_POINT_ID DS H
                                DS CL002
                                DS 0F FORCE ALIGNMENT
TRPT_DATA1 DS 0XL8
TRPT_DATA1_P DS A ADDRESS OF OBJECT
TRPT_DATA1_N DS F CURRENT NUMBER
```

Table 227. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	TRPT_TRACE_PUT	
1	DECIMAL	1	TRPT_OK	
1	DECIMAL	2	TRPT_EXCEPTION	
1	DECIMAL	3	TRPT_DISASTER	
1	DECIMAL	4	TRPT_INVALID	
1	DECIMAL	5	TRPT_KERNERROR	
1	DECIMAL	6	TRPT_PURGED	
!:erefstep.L2TR_Public_Types ---------- !:refstep.L2TR_Public_Constants ---------- DFHL2TR 134 - ! ! The following constants are used by L2 when communicating with ! L2TR. ! !---------- !:refstep.L2TR_Trace_Point_Ids ---------- DFHL2TR 144 - ! ! All the trace points for L2 are declared here. Refer to DFHL2TRI ! for further details about a particular trace point. ! !----------				
2	NUMB HEX	2001	L2TR_TID_L2LB_ENTRY	
2	NUMB HEX	2002	L2TR_TID_L2LB_EXIT	
2	NUMB HEX	2003	L2TR_TID_ L2LB_RECOVERY	
2	NUMB HEX	2004	L2TR_TID_ L2LB_INVALID_FORMAT	
2	NUMB HEX	2005	L2TR_TID_ L2LB_INVALID_FUNCTION	
2	NUMB HEX	2006	L2TR_TID_ L2LB_STREAM_LOCK_ FAIL	
2	NUMB HEX	2007	L2TR_TID_ L2LB_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	2008	L2TR_TID_ L2LB_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2101	L2TR_TID_L2CC_ENTRY	
2	NUMB HEX	2102	L2TR_TID_L2CC_EXIT	
2	NUMB HEX	2103	L2TR_TID_ L2CC_RECOVERY	
2	NUMB HEX	2104	L2TR_TID_ L2CC_INVALID_FORMAT	
2	NUMB HEX	2105	L2TR_TID_ L2CC_INVALID_FUNCTION	
2	NUMB HEX	2106	L2TR_TID_ L2CC_STREAM_LOCK_ FAIL	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	2107	L2TR_TID_ L2CC_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	2108	L2TR_TID_ L2CC_CHAIN_LOCK_ FAIL	
2	NUMB HEX	2109	L2TR_TID_ L2CC_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	210A	L2TR_TID_ L2CC_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2201	L2TR_TID_L2WF_ENTRY	
2	NUMB HEX	2202	L2TR_TID_L2WF_EXIT	
2	NUMB HEX	2203	L2TR_TID_ L2WF_RECOVERY	
2	NUMB HEX	2204	L2TR_TID_ L2WF_INVALID_FORMAT	
2	NUMB HEX	2205	L2TR_TID_ L2WF_INVALID_FUNCTION	
2	NUMB HEX	2206	L2TR_TID_ L2WF_STREAM_LOCK_ FAIL	
2	NUMB HEX	2207	L2TR_TID_ L2WF_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	2208	L2TR_TID_ L2WF_CHAIN_LOCK_ FAIL	
2	NUMB HEX	2209	L2TR_TID_ L2WF_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	220A	L2TR_TID_ L2WF_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2301	L2TR_TID_L2CB_ENTRY	
2	NUMB HEX	2302	L2TR_TID_L2CB_EXIT	
2	NUMB HEX	2303	L2TR_TID_ L2CB_RECOVERY	
2	NUMB HEX	2304	L2TR_TID_ L2CB_INVALID_FORMAT	
2	NUMB HEX	2305	L2TR_TID_ L2CB_INVALID_FUNCTION	
2	NUMB HEX	2306	L2TR_TID_ L2CB_STREAM_LOCK_ FAIL	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	2307	L2TR_TID_ L2CB_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	2308	L2TR_TID_ L2CB_CHAIN_LOCK_ FAIL	
2	NUMB HEX	2309	L2TR_TID_ L2CB_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	230A	L2TR_TID_ L2CB_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2401	L2TR_TID_L2BA_ENTRY	
2	NUMB HEX	2402	L2TR_TID_L2BA_EXIT	
2	NUMB HEX	2403	L2TR_TID_ L2BA_RECOVERY	
2	NUMB HEX	2404	L2TR_TID_ L2BA_INVALID_FORMAT	
2	NUMB HEX	2405	L2TR_TID_ L2BA_INVALID_FUNCTION	
2	NUMB HEX	2406	L2TR_TID_ L2BA_STREAM_LOCK_ FAIL	
2	NUMB HEX	2407	L2TR_TID_ L2BA_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	2408	L2TR_TID_ L2BA_CHAIN_LOCK_ FAIL	
2	NUMB HEX	2409	L2TR_TID_ L2BA_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	240A	L2TR_TID_ L2BA_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2501	L2TR_TID_L2MV_ENTRY	
2	NUMB HEX	2502	L2TR_TID_L2MV_EXIT	
2	NUMB HEX	2503	L2TR_TID_ L2MV_RECOVERY	
2	NUMB HEX	2504	L2TR_TID_ L2MV_INVALID_FORMAT	
2	NUMB HEX	2505	L2TR_TID_ L2MV_INVALID_FUNCTION	
2	NUMB HEX	2506	L2TR_TID_ L2MV_STREAM_LOCK_ FAIL	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	2507	L2TR_TID_ L2MV_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	2508	L2TR_TID_ L2MV_CHAIN_LOCK_ FAIL	
2	NUMB HEX	2509	L2TR_TID_ L2MV_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	250A	L2TR_TID_ L2MV_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2601	L2TR_TID_L2SR_ENTRY	
2	NUMB HEX	2602	L2TR_TID_L2SR_EXIT	
2	NUMB HEX	2603	L2TR_TID_ L2SR_RECOVERY	
2	NUMB HEX	2604	L2TR_TID_ L2SR_INVALID_FORMAT	
2	NUMB HEX	2605	L2TR_TID_ L2SR_INVALID_FUNCTION	
2	NUMB HEX	2701	L2TR_TID_L2HB_ENTRY	
2	NUMB HEX	2702	L2TR_TID_L2HB_EXIT	
2	NUMB HEX	2703	L2TR_TID_ L2HB_RECOVERY	
2	NUMB HEX	2704	L2TR_TID_ L2HB_INVALID_FORMAT	
2	NUMB HEX	2705	L2TR_TID_ L2HB_INVALID_FUNCTION	
2	NUMB HEX	2706	L2TR_TID_ L2HB_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2707	L2TR_TID_ L2HB_HEARTBEAT_ START_ERR	
2	NUMB HEX	2708	L2TR_TID_ L2HB_DSIT_INQ_ICV	
2	NUMB HEX	2709	L2TR_TID_ L2HB_HEARTBEAT_ INTERRUPT	
2	NUMB HEX	270A	L2TR_TID_ L2HB_DS_RESUME_ ERR	
2	NUMB HEX	270B	L2TR_TID_ L2HB_DS_SUSPEND_ ERR	

Table 227. (continued)

Len	Type	value	Name	Description
!:refstep.l2ch_class_tracepoint_dcl ------------------- DFHL2TR 352 - ! ! Use range 30xx for Chain class. ! !----------				
2	NUMB HEX	3010	L2TR_TID_L2CH1_ENTRY	
2	NUMB HEX	3011	L2TR_TID_L2CH1_EXIT	
2	NUMB HEX	3012	L2TR_TID_ L2CH1_NO_STG_FOR_ CLASS	
2	NUMB HEX	3013	L2TR_TID_ L2CH1_RECOVERY	
2	NUMB HEX	3018	L2TR_TID_L2CH2_ENTRY	
2	NUMB HEX	3019	L2TR_TID_L2CH2_EXIT	
2	NUMB HEX	301A	L2TR_TID_ L2CH2_INITIALIZE_ LOCK_FAILED	
2	NUMB HEX	301B	L2TR_TID_ L2CH2_DESTROY_ LOCK_FAILED	
2	NUMB HEX	301C	L2TR_TID_ L2CH2_RECOVERY	
2	NUMB HEX	301D	L2TR_TID_ L2CH2_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	301E	L2TR_TID_ L2CH2_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	301F	L2TR_TID_ L2CH2_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3020	L2TR_TID_L2CH3_ENTRY	
2	NUMB HEX	3021	L2TR_TID_L2CH3_EXIT	
2	NUMB HEX	3022	L2TR_TID_ L2CH3_INVALID_ IN_BROWSE_ALL	
2	NUMB HEX	3023	L2TR_TID_ L2CH3_RECOVERY	
2	NUMB HEX	3030	L2TR_TID_L2CH4_ENTRY	
2	NUMB HEX	3031	L2TR_TID_L2CH4_EXIT	
2	NUMB HEX	3032	L2TR_TID_ L2CH4_FORK_TO_ DUMMY	
2	NUMB HEX	3033	L2TR_TID_ L2CH4_INVALID_ RECORD_TYPE	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3034	L2TR_TID_ L2CH4_READ_BAD_ EXC	
2	NUMB HEX	3035	L2TR_TID_ L2CH4_RECOVERY	
2	NUMB HEX	3036	L2TR_TID_ L2CH4_STREAM_LOCK_ FAIL	
2	NUMB HEX	3037	L2TR_TID_ L2CH4_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	3038	L2TR_TID_ L2CH4_CHAIN_LOCK_ FAIL	
2	NUMB HEX	3039	L2TR_TID_ L2CH4_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	303A	L2TR_TID_ L2CH4_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3040	L2TR_TID_L2CH5_ENTRY	
2	NUMB HEX	3041	L2TR_TID_L2CH5_EXIT	
2	NUMB HEX	3042	L2TR_TID_ L2CH5_INVALID_ IN_BROWSE_ALL	
2	NUMB HEX	3043	L2TR_TID_ L2CH5_RECOVERY	
2	NUMB HEX	3050	L2TR_TID_L2CHA_ENTRY	
2	NUMB HEX	3051	L2TR_TID_L2CHA_EXIT	
2	NUMB HEX	3052	L2TR_TID_ L2CHA_RECOVERY	
2	NUMB HEX	3053	L2TR_TID_ L2CHA_STREAM_LOCK_ FAIL	
2	NUMB HEX	3054	L2TR_TID_ L2CHA_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	3055	L2TR_TID_ L2CHA_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3058	L2TR_TID_L2CHN_ENTRY	
2	NUMB HEX	3059	L2TR_TID_L2CHN_EXIT	
2	NUMB HEX	305A	L2TR_TID_ L2CHN_RECOVERY	
2	NUMB HEX	305B	L2TR_TID_ L2CHN_INVALID_ RECORD_TYPE	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	305C	L2TR_TID_ L2CHN_STREAM_LOCK_ FAIL	
2	NUMB HEX	305D	L2TR_TID_ L2CHN_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	305E	L2TR_TID_ L2CHN_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3060	L2TR_TID_L2CHL_ENTRY	
2	NUMB HEX	3061	L2TR_TID_L2CHL_EXIT	
2	NUMB HEX	3062	L2TR_TID_ L2CHL_RECOVERY	
2	NUMB HEX	3068	L2TR_TID_L2CHH_ENTRY	
2	NUMB HEX	3069	L2TR_TID_L2CHH_EXIT	
2	NUMB HEX	306A	L2TR_TID_ L2CHH_RECOVERY	
2	NUMB HEX	3070	L2TR_TID_L2CHG_ENTRY	
2	NUMB HEX	3071	L2TR_TID_L2CHG_EXIT	
2	NUMB HEX	3072	L2TR_TID_ L2CHG_RECOVERY	
2	NUMB HEX	3078	L2TR_TID_L2CHI_ENTRY	
2	NUMB HEX	3079	L2TR_TID_L2CHI_EXIT	
2	NUMB HEX	307A	L2TR_TID_ L2CHI_RECOVERY	
2	NUMB HEX	3080	L2TR_TID_L2CHR_ENTRY	
2	NUMB HEX	3081	L2TR_TID_L2CHR_EXIT	
2	NUMB HEX	3082	L2TR_TID_ L2CHR_RECOVERY	
2	NUMB HEX	3088	L2TR_TID_L2CHS_ENTRY	
2	NUMB HEX	3089	L2TR_TID_L2CHS_EXIT	
2	NUMB HEX	308A	L2TR_TID_ L2CHS_RECOVERY	
2	NUMB HEX	308B	L2TR_TID_ L2CHS_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	308C	L2TR_TID_ L2CHS_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	308D	L2TR_TID_ L2CHS_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3090	L2TR_TID_L2CHE_ENTRY	
2	NUMB HEX	3091	L2TR_TID_L2CHE_EXIT	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3092	L2TR_TID_ L2CHE_RECOVERY	
2	NUMB HEX	3093	L2TR_TID_ L2CHE_STREAM_LOCK_ FAIL	
2	NUMB HEX	3094	L2TR_TID_ L2CHE_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	3095	L2TR_TID_ L2CHE_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3098	L2TR_TID_L2CHM_ENTRY	
2	NUMB HEX	3099	L2TR_TID_L2CHM_EXIT	
2	NUMB HEX	309A	L2TR_TID_ L2CHM_RECOVERY	
2	NUMB HEX	309B	L2TR_TID_ L2CHM_STREAM_LOCK_ FAIL	
2	NUMB HEX	309C	L2TR_TID_ L2CHM_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	309D	L2TR_TID_ L2CHM_CHAIN_LOCK_ FAIL	
2	NUMB HEX	309E	L2TR_TID_ L2CHM_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	309F	L2TR_TID_ L2CHM_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	30B0	L2TR_TID_L2CHO_ENTRY	
2	NUMB HEX	30B1	L2TR_TID_L2CHO_EXIT	
2	NUMB HEX	30B2	L2TR_TID_ L2CHO_RECOVERY	
2	NUMB HEX	30B3	L2TR_TID_ L2CHO_STREAM_LOCK_ FAIL	
2	NUMB HEX	30B4	L2TR_TID_ L2CHO_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	30B5	L2TR_TID_ L2CHO_CHAIN_LOCK_ FAIL	
2	NUMB HEX	30B6	L2TR_TID_ L2CHO_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	30B7	L2TR_TID_ L2CHO_UNKNOWN_ KERN_ERROR	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	30B8	L2TR_TID_ L2CHO_INVALID_ RECORD_TYPE	
2	NUMB HEX	30C0	L2TR_TID_L2CHP_ENTRY	
2	NUMB HEX	30C1	L2TR_TID_L2CHP_EXIT	
2	NUMB HEX	30C2	L2TR_TID_ L2CHP_RECOVERY	
2	NUMB HEX	30C3	L2TR_TID_ L2CHP_STREAM_LOCK_ FAIL	
2	NUMB HEX	30C4	L2TR_TID_ L2CHP_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	30C5	L2TR_TID_ L2CHP_CHAIN_LOCK_ FAIL	
2	NUMB HEX	30C6	L2TR_TID_ L2CHP_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	30C7	L2TR_TID_ L2CHP_UNKNOWN_ KERN_ERROR	
!:erefstep.l2ch_class_tracepoint_dcl ---------- !:refstep.l2hp_class_tracepoint_dcl ---------- DFHL2TR 566 - ! ! Use range 31xx for HistoryPoint class. ! !---------- !:erefstep.l2hp_class_tracepoint_dcl ---------- !:refstep.l2rt_class_tracepoint_dcl ---------- DFHL2TR 578 - ! ! Use range 32xx for LockTracker class. ! !---------- !:erefstep.l2rt_class_tracepoint_dcl ---------- !:refstep.l2sl_class_tracepoint_dcl ---------- DFHL2TR 584 - ! ! Use range 33xx for SystemLog class. ! !----------				
2	NUMB HEX	3311	L2TR_TID_L2SL1_ENTRY	
2	NUMB HEX	3312	L2TR_TID_L2SL1_EXIT	
2	NUMB HEX	3313	L2TR_TID_ L2SL1_RECOVERY	
2	NUMB HEX	3314	L2TR_TID_ L2SL1_NO_STG_FOR_ CLASS	
2	NUMB HEX	3321	L2TR_TID_L2SLN_ENTRY	
2	NUMB HEX	3322	L2TR_TID_L2SLN_EXIT	
2	NUMB HEX	3323	L2TR_TID_ L2SLN_RECOVERY	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3324	L2TR_TID_ L2SLN_OPEN_FAIL	
2	NUMB HEX	3325	L2TR_TID_ L2SLN_OPEN_DISASTER	
2	NUMB HEX	3326	L2TR_TID_ L2SLN_SMF_NOT_ ALLOWED	
2	NUMB HEX	3327	L2TR_TID_ L2SLN_OPEN_ERROR	
2	NUMB HEX	3331	L2TR_TID_L2SLE_ENTRY	
2	NUMB HEX	3332	L2TR_TID_L2SLE_EXIT	
2	NUMB HEX	3333	L2TR_TID_ L2SLE_RECOVERY	
2	NUMB HEX	3334	L2TR_TID_ L2SLE_LOST_ACCESS	
2	NUMB HEX	3335	L2TR_TID_ L2SLE_LOST_DATA	
2	NUMB HEX	3336	L2TR_TID_ L2SLE_BAD_BLOCK_ SIZE	
2	NUMB HEX	3337	L2TR_TID_ L2SLE_ACCESS_DISASTER	
2	NUMB HEX	3338	L2TR_TID_ L2SLE_BAD_TOKEN	
2	NUMB HEX	3339	L2TR_TID_ L2SLE_SUSPEND_ FAIL	
2	NUMB HEX	333A	L2TR_TID_ L2SLE_DATA_NOT_ FOUND	
2	NUMB HEX	333B	L2TR_TID_ L2SLE_ATTACH_FAIL	
2	NUMB HEX	333C	L2TR_TID_ L2SLE_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	333D	L2TR_TID_ L2SLE_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	333E	L2TR_TID_ L2SLE_UNKNOWN_ KERN_ERROR	

```
!:erefstep.l2sl_class_tracepoint_dcl -------------------------------
!:refstep.l2sr_class_tracepoint_dcl -------------------- DFHL2TR 640 -
!
! Use range 34xx for Stream class. Use range 340x, 349x, 348x for
! internal methods.
!
!--------------------------------------------------------------------
```

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3401	L2TR_TID_ L2SRC_BAD_STREAM	
2	NUMB HEX	3402	L2TR_TID_ L2SRC_BAD_SWITCH_ STATE	
2	NUMB HEX	3403	L2TR_TID_ L2SRC_BAD_CURR_ STATE	
2	NUMB HEX	3404	L2TR_TID_ L2SRC_BAD_PREV_ STATE	
2	NUMB HEX	3405	L2TR_TID_ L2SRC_RESTORE_ FAIL	
2	NUMB HEX	3406	L2TR_TID_ L2SRC_READ_FAIL	
2	NUMB HEX	3407	L2TR_TID_ L2SRC_WAIT_WRITE_ FAIL	
2	NUMB HEX	3408	L2TR_TID_ L2SRC_BUFFER_LENGTH_ ERROR	
2	NUMB HEX	3409	L2TR_TID_ L2SRC_BUFFER_SWITCH_ EVENT	
2	NUMB HEX	340A	L2TR_TID_ L2SRC_APPEND_EVENT	
2	NUMB HEX	340B	L2TR_TID_ L2SRC_APPEND_RESULT_ EVENT	
2	NUMB HEX	340C	L2TR_TID_ L2SRC_FORCE_RESULT_ EVENT	
2	NUMB HEX	340D	L2TR_TID_ L2SRC_FORCE_CURR_ EVENT	
2	NUMB HEX	340E	L2TR_TID_ L2SRC_FORCE_PREV_ EVENT	
2	NUMB HEX	340F	L2TR_TID_ L2SRC_READ_RESULT_ EVENT	
2	NUMB HEX	3490	L2TR_TID_ L2SRC_START_READ_ RESULT	
2	NUMB HEX	3491	L2TR_TID_ L2SRC_START_READ_ EVENT	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3492	L2TR_TID_ L2SRC_END_READ_ EVENT	
2	NUMB HEX	3493	L2TR_TID_ L2SRC_DELETE_ALL_ EVENT	
2	NUMB HEX	3494	L2TR_TID_ L2SRC_RESTORE_ RESULT_EVENT	
2	NUMB HEX	3495	L2TR_TID_ L2SRC_SUSPEND_ EVENT	
2	NUMB HEX	3496	L2TR_TID_ L2SRC_SUSPEND_ DEFERRED_EVENT	
2	NUMB HEX	3497	L2TR_TID_ L2SRC_WAKEUP_EVENT	
2	NUMB HEX	3498	L2TR_TID_ L2SRC_WAKEUP_DEFERRED_ EVENT	
2	NUMB HEX	3499	L2TR_TID_ L2SRC_START_WRITE_ PREV_EVENT	
2	NUMB HEX	349A	L2TR_TID_ L2SRC_WAIT_WRITE_ PREV_EVENT	
2	NUMB HEX	349B	L2TR_TID_ L2SRC_DELETE_HISTORY_ EVENT	
2	NUMB HEX	349C	L2TR_TID_ L2SRC_READ_EVENT	
2	NUMB HEX	349D	L2TR_TID_ L2SRC_RESTORE_ EVENT	
2	NUMB HEX	349E	L2TR_TID_ L2SRC_FORCE_EVENT	
2	NUMB HEX	349F	L2TR_TID_ L2SRC_START_READ_ FAIL	
2	NUMB HEX	3480	L2TR_TID_ L2SRC_COLLECT_ STATS_EVENT	
2	NUMB HEX	3481	L2TR_TID_ L2SRC_RESET_STATS_ EVENT	
2	NUMB HEX	3411	L2TR_TID_L2SR1_ENTRY	
2	NUMB HEX	3412	L2TR_TID_L2SR1_EXIT	
2	NUMB HEX	3413	L2TR_TID_ L2SR1_RECOVERY	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3414	L2TR_TID_ L2SR1_NO_STG_FOR_ CLASS	
2	NUMB HEX	3421	L2TR_TID_L2SR2_ENTRY	
2	NUMB HEX	3422	L2TR_TID_L2SR2_EXIT	
2	NUMB HEX	3423	L2TR_TID_ L2SR2_RECOVERY	
2	NUMB HEX	3424	L2TR_TID_ L2SR2_CONNECT_ FAIL	
2	NUMB HEX	3425	L2TR_TID_ L2SR2_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	3426	L2TR_TID_ L2SR2_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3427	L2TR_TID_ L2SR2_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	3428	L2TR_TID_ L2SR2_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	3431	L2TR_TID_L2SR3_ENTRY	
2	NUMB HEX	3432	L2TR_TID_L2SR3_EXIT	
2	NUMB HEX	3433	L2TR_TID_ L2SR3_RECOVERY	
2	NUMB HEX	3434	L2TR_TID_ L2SR3_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	3435	L2TR_TID_ L2SR3_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	3436	L2TR_TID_ L2SR3_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3441	L2TR_TID_L2SR4_ENTRY	
2	NUMB HEX	3442	L2TR_TID_L2SR4_EXIT	
2	NUMB HEX	3443	L2TR_TID_ L2SR4_RECOVERY	
2	NUMB HEX	3444	L2TR_TID_ L2SR4_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	3445	L2TR_TID_ L2SR4_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	3446	L2TR_TID_ L2SR4_UNKNOWN_ KERN_ERROR	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3447	L2TR_TID_ L2SR4_BAD_STATS_ BUFFER	
2	NUMB HEX	3451	L2TR_TID_L2SR5_ENTRY	
2	NUMB HEX	3452	L2TR_TID_L2SR5_EXIT	
2	NUMB HEX	3453	L2TR_TID_ L2SR5_RECOVERY	
2	NUMB HEX	3454	L2TR_TID_ L2SR5_STREAM_LOCK_ FAIL	
2	NUMB HEX	3455	L2TR_TID_ L2SR5_UNKNOWN_ KERN_ERROR	
!:erefstep.l2sr_class_tracepoint_dcl ------------------------------ !:refstep.l2bs_class_tracepoint_dcl ------------------- DFHL2TR 774 - ! ! Use range 35xx for BrowseableStream class. ! !--				
2	NUMB HEX	3501	L2TR_TID_ L2BSC_APPEND_EVENT	
2	NUMB HEX	3502	L2TR_TID_ L2BSC_APPEND_RESULT_ EVENT	
2	NUMB HEX	3503	L2TR_TID_ L2BSC_READ_EVENT	
2	NUMB HEX	3504	L2TR_TID_ L2BSC_READ_RESULT_ EVENT	
2	NUMB HEX	3505	L2TR_TID_ L2BSC_RESTORE_ EVENT	
2	NUMB HEX	3506	L2TR_TID_ L2BSC_RESTORE_ RESULT_EVENT	
2	NUMB HEX	3507	L2TR_TID_ L2BSC_START_BROWSE_ EVENT	
2	NUMB HEX	3508	L2TR_TID_ L2BSC_END_BROWSE_ EVENT	
2	NUMB HEX	3511	L2TR_TID_L2BS1_ENTRY	
2	NUMB HEX	3512	L2TR_TID_L2BS1_EXIT	
2	NUMB HEX	3513	L2TR_TID_ L2BS1_RECOVERY	
2	NUMB HEX	3514	L2TR_TID_ L2BS1_NO_STG_FOR_ CLASS	
2	NUMB HEX	3521	L2TR_TID_L2BS2_ENTRY	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3522	L2TR_TID_L2BS2_EXIT	
2	NUMB HEX	3523	L2TR_TID_ L2BS2_RECOVERY	
2	NUMB HEX	3524	L2TR_TID_ L2BS2_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	3525	L2TR_TID_ L2BS2_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	3526	L2TR_TID_ L2BS2_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3531	L2TR_TID_L2BS3_ENTRY	
2	NUMB HEX	3532	L2TR_TID_L2BS3_EXIT	
2	NUMB HEX	3533	L2TR_TID_ L2BS3_RECOVERY	
2	NUMB HEX	3534	L2TR_TID_ L2BS3_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	3535	L2TR_TID_ L2BS3_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	3536	L2TR_TID_ L2BS3_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3541	L2TR_TID_L2BS4_ENTRY	
2	NUMB HEX	3542	L2TR_TID_L2BS4_EXIT	
2	NUMB HEX	3543	L2TR_TID_ L2BS4_RECOVERY	
2	NUMB HEX	3544	L2TR_TID_ L2BS4_STREAM_LOCK_ FAIL	
2	NUMB HEX	3545	L2TR_TID_ L2BS4_UNKNOWN_ KERN_ERROR	
!:erefstep.l2bs_class_tracepoint_dcl ------------------------------- !:refstep.l2hs_class_tracepoint_dcl ------------------- DFHL2TR 895 - ! ! Use range 37xx for HardStream class. ! !--				
2	NUMB HEX	3700	L2TR_TID_ L2HSC_GET_CUR_ BLOCK_BEFORE	
2	NUMB HEX	3701	L2TR_TID_ L2HSC_GET_CUR_ BLOCK_AFTER	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3702	L2TR_TID_ L2HSC_COLLECT_ STATS	
2	NUMB HEX	3703	L2TR_TID_ L2HSC_RESET_STATS	
2	NUMB HEX	3710	L2TR_TID_ L2HS2_SEVERE_ERROR_ EXC	
2	NUMB HEX	3711	L2TR_TID_ L2HS2_CONNECT_ BEFORE	
2	NUMB HEX	3712	L2TR_TID_ L2HS2_CONNECT_ AFTER	
2	NUMB HEX	3713	L2TR_TID_ L2HS2_IXGCONN_ BEFORE	
2	NUMB HEX	3714	L2TR_TID_ L2HS2_IXGCONN_ AFTER	
2	NUMB HEX	3715	L2TR_TID_ L2HS2_CONNECT_EXC	
2	NUMB HEX	3716	L2TR_TID_ L2HS2_IXGCONN_ AFTER_MORE	
2	NUMB HEX	3720	L2TR_TID_ L2HS3_SEVERE_ERROR_ EXC	
2	NUMB HEX	3721	L2TR_TID_ L2HS3_DISCONNECT_ BEFORE	
2	NUMB HEX	3722	L2TR_TID_ L2HS3_DISCONNECT_ AFTER	
2	NUMB HEX	3723	L2TR_TID_ L2HS3_IXGDISC_ BEFORE	
2	NUMB HEX	3724	L2TR_TID_ L2HS3_IXGDISC_ AFTER	
2	NUMB HEX	3725	L2TR_TID_ L2HS3_DISCONNECT_ EXC	
2	NUMB HEX	3730	L2TR_TID_ L2HS4_SEVERE_ERROR_ EXC	
2	NUMB HEX	3731	L2TR_TID_ L2HS4_DELETEALL_ BEFORE	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3732	L2TR_TID_ L2HS4_DELETEALL_ AFTER	
2	NUMB HEX	3733	L2TR_TID_ L2HS4_IXGDELALL_ BEFORE	
2	NUMB HEX	3734	L2TR_TID_ L2HS4_IXGDELALL_ AFTER	
2	NUMB HEX	3735	L2TR_TID_ L2HS4_DELETEALL_ EXC	
2	NUMB HEX	3740	L2TR_TID_ L2HS5_SEVERE_ERROR_ EXC	
2	NUMB HEX	3741	L2TR_TID_ L2HS5_DELETERAN_ BEFORE	
2	NUMB HEX	3742	L2TR_TID_ L2HS5_DELETERAN_ AFTER	
2	NUMB HEX	3743	L2TR_TID_ L2HS5_IXGDELRAN_ BEFORE	
2	NUMB HEX	3744	L2TR_TID_ L2HS5_IXGDELRAN_ AFTER	
2	NUMB HEX	3745	L2TR_TID_ L2HS5_DELETERAN_ EXC	
2	NUMB HEX	3750	L2TR_TID_ L2HSF_SEVERE_ERROR_ EXC	
2	NUMB HEX	3751	L2TR_TID_ L2HSC_START_WRITE_ BEFORE	
2	NUMB HEX	3752	L2TR_TID_ L2HSC_START_WRITE_ AFTER	
2	NUMB HEX	3753	L2TR_TID_ L2HSC_WAIT_WRITE_ BEFORE	
2	NUMB HEX	3754	L2TR_TID_ L2HSC_WAIT_WRITE_ AFTER	
2	NUMB HEX	3755	L2TR_TID_ L2HSF_WRITE_RETRY_ BEFORE	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3756	L2TR_TID_ L2HSF_WRITE_RETRY_ AFTER	
2	NUMB HEX	3757	L2TR_TID_ L2HSC_IXGWRITE_ BEFORE	
2	NUMB HEX	3758	L2TR_TID_ L2HSF_IXGWRITE_ BEFORE	
2	NUMB HEX	3759	L2TR_TID_ L2HSC_IXGWRITE_ AFTER	
2	NUMB HEX	375A	L2TR_TID_ L2HSF_IXGWRITE_ AFTER	
2	NUMB HEX	375B	L2TR_TID_ L2HSF_IXGWRITE_ EXC	
2	NUMB HEX	375C	L2TR_TID_ L2HSC_SMF_WRITE_ BEFORE	
2	NUMB HEX	375D	L2TR_TID_ L2HSC_SMF_WRITE_ AFTER	
2	NUMB HEX	375E	L2TR_TID_ L2HSC_SMF_WRITE_ EXC	
2	NUMB HEX	375F	L2TR_TID_ L2HSC_IXGQUERY_ AFTER	
2	NUMB HEX	3760	L2TR_TID_ L2HS7_SEVERE_ERROR_ EXC	
2	NUMB HEX	3761	L2TR_TID_ L2HS7_START_BLOCK_ BEFORE	
2	NUMB HEX	3762	L2TR_TID_ L2HS7_START_BLOCK_ AFTER	
2	NUMB HEX	3763	L2TR_TID_ L2HS7_IXGSTRBLK_ BEFORE	
2	NUMB HEX	3764	L2TR_TID_ L2HS7_IXGSTRBLK_ AFTER	
2	NUMB HEX	3765	L2TR_TID_ L2HS7_START_BLOCK_ EXC	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3770	L2TR_TID_ L2HS8_SEVERE_ERROR_ EXC	
2	NUMB HEX	3771	L2TR_TID_ L2HS8_READ_BLOCK_ BEFORE	
2	NUMB HEX	3772	L2TR_TID_ L2HS8_READ_BLOCK_ AFTER	
2	NUMB HEX	3773	L2TR_TID_ L2HS8_IXGREDBLK_ BEFORE	
2	NUMB HEX	3774	L2TR_TID_ L2HS8_IXGREDBLK_ AFTER	
2	NUMB HEX	3775	L2TR_TID_ L2HS8_READ_BLOCK_ EXC	
2	NUMB HEX	3780	L2TR_TID_ L2HS9_SEVERE_ERROR_ EXC	
2	NUMB HEX	3781	L2TR_TID_ L2HS9_END_BLOCK_ BEFORE	
2	NUMB HEX	3782	L2TR_TID_ L2HS9_END_BLOCK_ AFTER	
2	NUMB HEX	3783	L2TR_TID_ L2HS9_IXGENDBLK_ BEFORE	
2	NUMB HEX	3784	L2TR_TID_ L2HS9_IXGENDBLK_ AFTER	
2	NUMB HEX	3785	L2TR_TID_ L2HS9_END_BLOCK_ EXC	
2	NUMB HEX	3790	L2TR_TID_ L2HS6_SEVERE_ERROR_ EXC	
2	NUMB HEX	3791	L2TR_TID_ L2HS6_START_CURSOR_ BEFORE	
2	NUMB HEX	3792	L2TR_TID_ L2HS6_START_CURSOR_ AFTER	
2	NUMB HEX	3793	L2TR_TID_ L2HS6_IXGSTRCRS_ BEFORE	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3794	L2TR_TID_ L2HS6_IXGSTRCRS_ AFTER	
2	NUMB HEX	3795	L2TR_TID_ L2HS6_START_CURSOR_ EXC	
2	NUMB HEX	37A0	L2TR_TID_ L2HSG_SEVERE_ERROR_ EXC	
2	NUMB HEX	37A1	L2TR_TID_ L2HSG_READ_CURSOR_ BEFORE	
2	NUMB HEX	37A2	L2TR_TID_ L2HSG_READ_CURSOR_ AFTER	
2	NUMB HEX	37A3	L2TR_TID_ L2HSG_IXGREDCRS_ BEFORE	
2	NUMB HEX	37A4	L2TR_TID_ L2HSG_IXGREDCRS_ AFTER	
2	NUMB HEX	37A5	L2TR_TID_ L2HSG_READ_CURSOR_ EXC	
2	NUMB HEX	37B0	L2TR_TID_ L2HSJ_SEVERE_ERROR_ EXC	
2	NUMB HEX	37B1	L2TR_TID_ L2HSJ_END_CURSOR_ BEFORE	
2	NUMB HEX	37B2	L2TR_TID_ L2HSJ_END_CURSOR_ AFTER	
2	NUMB HEX	37B3	L2TR_TID_ L2HSJ_IXGENDCRS_ BEFORE	
2	NUMB HEX	37B4	L2TR_TID_ L2HSJ_IXGENDCRS_ AFTER	
2	NUMB HEX	37B5	L2TR_TID_ L2HSJ_END_CURSOR_ EXC	
!:erefstep.l2hs_class_tracepoint_dcl ------------------------------ !:refstep.l2bl_class_tracepoint_dcl ------------------- DFHL2TR 839 - ! ! Use range 36xx for Block class. ! !--				
2	NUMB HEX	3601	L2TR_TID_L2BL1_ENTRY	
2	NUMB HEX	3602	L2TR_TID_L2BL1_EXIT	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3603	L2TR_TID_ L2BL1_RECOVERY	
2	NUMB HEX	3604	L2TR_TID_ L2BL1_NO_STG_FOR_ CLASS	
2	NUMB HEX	3605	L2TR_TID_ L2BLC_SOR_WRITE_ FAILED	
2	NUMB HEX	3607	L2TR_TID_ L2BLC_NO_STG_FOR_ BUFFER	
2	NUMB HEX	3608	L2TR_TID_ L2BLC_NO_STG_FOR_ CURSOR	
2	NUMB HEX	3609	L2TR_TID_ L2BLC_READ_ILLOGIC	
2	NUMB HEX	360A	L2TR_TID_ L2BLC_READ_EVENT	
2	NUMB HEX	360B	L2TR_TID_ L2BLC_READ_RESULT	
2	NUMB HEX	360C	L2TR_TID_L2BL2_ENTRY	
2	NUMB HEX	360D	L2TR_TID_L2BL2_EXIT	
2	NUMB HEX	360E	L2TR_TID_ L2BL2_RECOVERY	
2	NUMB HEX	360F	L2TR_TID_ L2BL2_RESTORE_ FAIL	
2	NUMB HEX	3610	L2TR_TID_ L2BLC_HOLD_EVENT	
2	NUMB HEX	3611	L2TR_TID_ L2BLC_RELEASE_ EVENT	
2	NUMB HEX	3612	L2TR_TID_ L2BLC_UNFLATTEN_ EVENT	
2	NUMB HEX	3613	L2TR_TID_ L2BLC_APPEND_EVENT	
2	NUMB HEX	3614	L2TR_TID_ L2BLC_START_READ_ EVENT	
2	NUMB HEX	3615	L2TR_TID_ L2BLC_END_READ_ EVENT	
2	NUMB HEX	3616	L2TR_TID_ L2BLC_START_WRITE_ EVENT	
2	NUMB HEX	3617	L2TR_TID_ L2BLC_WAIT_WRITE_ EVENT	

Table 227. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3618	L2TR_TID_ L2BLC_WAIT_WRITE_ RESULT	
2	NUMB HEX	3619	L2TR_TID_ L2BLC_TRIMMED_ BLOCK_EXC	
2	NUMB HEX	3620	L2TR_TID_ L2BLC_LOST_LOG_ BLOCK_EXC	
!:erefstep.l2bl_class_tracepoint_dcl ---------- !:refstep.l2dm_class_tracepoint_dcl ---------- DFHL2TR 1074 - ! ! Use range 38xx for L2DM class. ! !----------				
2	NUMB HEX	3801	L2TR_TID_L2DM_ENTRY	
2	NUMB HEX	3802	L2TR_TID_L2DM_EXIT	
2	NUMB HEX	3803	L2TR_TID_ L2DM_RECOVERY	
2	NUMB HEX	3804	L2TR_TID_ L2DM_INVALID_FORMAT	
2	NUMB HEX	3805	L2TR_TID_ L2DM_INVALID_FUNCTION	
!:erefstep.l2dm_class_tracepoint_dcl ---------- !:refstep.l2of_class_tracepoint_dcl ---------- DFHL2TR 1090 - ! ! Use range 39xx for L2OF class. ! !----------				
2	NUMB HEX	3901	L2TR_TID_L2OFI_ENTRY	
2	NUMB HEX	3902	L2TR_TID_L2OFI_EXIT	
2	NUMB HEX	3903	L2TR_TID_ L2OFI_RECOVERY	
!:erefstep.l2of_class_tracepoint_dcl ---------- !:refstep.l2vp_class_tracepoint_dcl ---------- DFHL2TR 1102 - ! ! Use range 3Axx for L2OF class. ! !----------				
2	NUMB HEX	3A01	L2TR_TID_L2VP1_ENTRY	
2	NUMB HEX	3A02	L2TR_TID_L2VP1_EXIT	
2	NUMB HEX	3A03	L2TR_TID_ L2VP1_RECOVERY	

L2BS Log Manager Browseable Stream Class

```
!:refstep.L2BS_Class ---------- DFHL2BS 81 -
!
!
! The BrowseableStream class declaration contains signatures for the
! methods, declarations of instance and class data, and
```

```
! implementations of the methods.
!
!--------------------------------------------------------------------
!:refstep.L2BS_Class_Declaration ---------------------- DFHL2BS 111 -
!
! The BrowseableStream class is declared and is a subclass of the
! Stream class. Some of Stream's methods are inherited unchanged,
! others over-ridden and some methods are introduced specific to
! BrowseableStream.
!
!--------------------------------------------------------------------
```

Table 228.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	752	BROWSEABLESTREAM	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.L2SR_Instance_Data ------------------------- DFHL2SR 215 - ! ! An instance of Stream class consists of: ! ! - An eyecatcher. ! ! - A double chain link to other streams in the chain of all ! streams. ! ! - A stream lock which is used to manage concurrent requests made ! against the stream. Note that a Stream method requiring both the ! stream lock and the domain lock should acquire the stream lock ! first to prevent possible deadlock. ! ! - Two block-oriented data structures called StreamBlocks used for ! managing writes and deferred writes. At any given time one is ! for the Current block and the other is for the Previous block. ! ! - Pointers to the two StreamBlocks above. One identifies the ! Current, the other identifies the Previous. ! ! - The ForceToken currently associated with this stream. This is ! updated on every buffer switch. ! ! - The activity keypoint frequency of the stream, set to zero if ! activity keypoints do not apply, and an associated count which ! is used to monitor when activity keypoints are to be triggered. ! ! - Some context data which is owned by the Block class, and is ! passed to those Block methods that require it. ! ! - The HardStream object that is associated with this stream. ! ! - Whether the stream is an MVS Logger log or an SMF log. ! ! - The logstream name. This is for MVS Logger logs only. ! ! - The journal name. This is a real journal name for SMF logs, or ! is fabricated from the last qualifier of the logstream name for ! MVS Logger logs. ! ! - Whether the stream is for a System Log or General Log. ! ! - Some flags indicating progress through the initialization of a ! Stream object. ! ! - A flag indicating whether the deferred flush mechanism is active ! for the stream. ! ! - Various statistics for monitoring the number of tasks forced to ! wait while writing to the stream. ! !----------				
(8)	STRUCTURE Prot	624	STREAM_ INSTANCE_DATA	
(8)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	EYE_CATCHER	an eye-catcher
(8)	UNSIGNED Publ	2	L2_EYE_LEN	object length

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A)	UNSIGNED Publ	2	L2_EYE_OFFSET	offset of eye-catcher in object
(C)	CHARACTER Publ	12	L2_EYE_STRING	'>DFHL2xxxxxx'
(18)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	STREAM_ CHAIN_LINK	link in global chain
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	UNSIGNED Prot	4	STREAM_ FORCE_TOKEN	
				Current force token
(2C)	OBJECT Prot IsA(L2LM)	4	L2LOCK	stream lock
!:refstep.L2Lock_Instance_Data ----------------------- DFHL2LM 224 - ! ! An instance of an L2Lock is just a lock token. ! !--				
(2C)	CHARACTER Priv	4	INSTANCE_ DATA_BLOCK	
(2C)	ADDRESS Priv IsA(L2LM_LOCK_TOKEN_TYPE)	4	LOCK_TOKEN	
(30)	ADDRESS Prot	4	CURRENT	-> Current details
(34)	ADDRESS Prot	4	PREVIOUS	-> Previous details
(38)	STRUCTURE Prot IsA(STREAMBLOCK)	72	FIRST_BLOCK	Curr or Prev details
(38)	ADDRESS Prot	4	BLOCK_PTR	-> actual Block object
(3C)	UNSIGNED Prot	4	FORCE_TOKEN	force token for block
(40)	ADDRESS Prot	4	NEXT_BLOCK_PTR	-> next Block to be Current
(44)	CHARACTER Prot	4	BLOCK_OWNER	tran number of nominal owner
(48)	OBJECT Prot IsA(L2SQ)	48	SUSPEND_QUEUE	chain of suspended tasks

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.L2SuspendQueue_Public_Constants ------------------------- !:refstep.L2SuspendQueue_Instance_Data ---------- DFHL2DS 878 - ! ! An instance of an L2SuspendQueue is just the anchor for a doubly ! linked chain of L2SuspendElements. ! !----------				
(48)	CHARACTER Priv	44	INSTANCE_ DATA_BLOCK	
				SuspendQueue
(48)	OBJECT Priv IsA(HOP_DCHAIN)	40	ANCHOR	
(48)	CHARACTER Priv	4	*	
(50)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(50)	CHARACTER Priv	4	*	
(58)	CHARACTER Prot	8	*	
(58)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(5C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(60)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(60)	CHARACTER Priv	4	*	
(68)	CHARACTER Prot	8	*	
(68)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(6C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(70)	CHARACTER Priv	4	OWNER	
(78)	UNSIGNED Prot IsA(BLOCKSTATUS)	1	STATUS	current status
(79)	CHARACTER Prot	7	*	
(80)	STRUCTURE Prot IsA(STREAMBLOCK)	72	SECOND_BLOCK	Curr or Prev details
(80)	ADDRESS Prot	4	BLOCK_PTR	-> actual Block object
(84)	UNSIGNED Prot	4	FORCE_TOKEN	force token for block
(88)	ADDRESS Prot	4	NEXT_BLOCK_PTR	-> next Block to be Current

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8C)	CHARACTER Prot	4	BLOCK_OWNER	tran number of nominal owner
(90)	OBJECT Prot IsA(L2SQ)	48	SUSPEND_QUEUE	chain of suspended tasks
(90)	CHARACTER Priv	44	INSTANCE_ DATA_BLOCK	
				SuspendQueue
(90)	OBJECT Priv IsA(HOP_DCHAIN)	40	ANCHOR	
(90)	CHARACTER Priv	4	*	
(98)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(98)	CHARACTER Priv	4	*	
(A0)	CHARACTER Prot	8	*	
(A0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(A4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(A8)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(A8)	CHARACTER Priv	4	*	
(B0)	CHARACTER Prot	8	*	
(B0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(B4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(B8)	CHARACTER Priv	4	OWNER	
(C0)	UNSIGNED Prot IsA(BLOCKSTATUS)	1	STATUS	current status
(C1)	CHARACTER Prot	7	*	
(C8)	UNSIGNED Prot	4	AKP_FREQUENCY	activity keypoint frequency
(CC)	SIGNED Prot	4	AKP_COUNT	take keypoint when count reaches zero
(D0)	CHARACTER Prot	5	BACKTRACK	progress flags
(D0)	UNSIGNED Prot IsA(L2_YESNO)	1	LOCK_ADDED	stream lock added?

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(D1)	UNSIGNED Prot IsA(L2_YESNO)	1	CHAINED	on global chain?
(D2)	UNSIGNED Prot IsA(L2_YESNO)	1	CONNECTED	got hard stream?
(D3)	UNSIGNED Prot IsA(L2_YESNO)	1	GOT_BLOCKS	got Curr and Prev?
(D4)	UNSIGNED Prot IsA(L2_YESNO)	1	STATS_OK	gather stats?
(D5)	UNSIGNED Prot IsA(L2_YESNO)	1	LOST_DATA_ WARNING	lost data signalled?
(D6)	UNSIGNED Prot IsA(L2_YESNO)	1	SYSLOG	system log?
(D7)	UNSIGNED Prot	1	TYPE_OF_STREAM	MVS Logger or SMF?
(D8)	CHARACTER Prot	8	STREAM_JOURNAL	Journal name
(E0)	STRUCTURE Prot IsA(BLOCKCONTEXT)	32	BLOCK_CONTEXT	block context data owned by Block class
(E0)	CHARACTER Publ	8	CURR_BLOCK_NUM	block number of last block created
(E8)	CHARACTER Publ	8	LAST_BLOCK_ID	block id of last block written to MVS
(F0)	CHARACTER Publ	8	LAST_BLOCK_ TIME	creation time of last block written to MVS
(F8)	UNSIGNED Publ	1	*	
(F9)	UNSIGNED Publ	1	*	
(FA)	CHARACTER Publ	6	*	
(100)	CHARACTER Publ	0	*	
(100)	OBJECT Prot IsA(HARDSTREAM)	288	HARD_STREAM	HardStream object
(100)	CHARACTER Priv	4	*	

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.L2HS_Instance_Data ------------------------- DFHL2HS 177 - ! ! An instance of HardStream class consists of ! ! - An eyecatcher. ! ! This helps dump navigation. ! ! - A log stream name. ! ! This is the log stream name which denotes the MVS System Logger ! log stream on connect operation, which returns a log stream ! token. ! ! - A journal name. ! ! This is the journal name from the log stream name, used as the ! resource name when a task is suspended. ! ! - A log type. ! ! This is either 'mvs' or 'smf'. ! ! - A connected/disconnected indicator. ! ! When 'connected' the HardStream object is operational, and when ! 'disconnected' it has been disconnected and it about to be ! destroyed. ! ! - A System Log indicator. ! ! If 'Y' the log stream forms part of the System Log. ! ! - dasd_only(y/n) ! ! This flag indicates whether the log stream is of type DASDONLY ! or CF based. ! ! - structname ! ! If the log stream is CF based, this is the structure name used ! by the log stream, otherwise this is set to binary 0 (meaning ! not applicable). ! ! - retention_period ! ! The log stream retention period is the number in days that the ! data must be kept before it can be physically deleted by the MVS ! logger. ! ! - auto_delete ! ! Auto delete flag, if set to yes the MVS logger automatically ! deletes the data as it matures beyond the retention period, ! irrespective of any IXGDELET calls. If set to no the data is ! deleted when it matures beyond the retention period and an ! IXGDELET call has been issued. ! ! - A maximum block size. ! ! This is a constant, being the maximum block size allowed for the ! MVS System Logger log stream or MVS SMF log. ! ! - An MVS log stream token. ! ! This is the token that denotes the MVS Logger log stream at its ! interface. The MVS System Logger returns this value on the ! connect operation. ! ! - A buffer pointer.				

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(108)	CHARACTER Prot	280	INSTANCE_ DATA_BLOCK	
(108)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	EYE_CATCHER	an eye-catcher
(108)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(10A)	UNSIGNED Publ	2	L2_EYE_ OFFSET	offset of eye-catcher in object
(10C)	CHARACTER Publ	12	L2_EYE_ STRING	'>DFHL2xxxxxx'
(118)	CHARACTER Prot	26	MVS_STREAM_ NAME	MVS logstream name
(132)	CHARACTER Prot	8	JOURNAL_NAME	journal name
(13A)	UNSIGNED Prot	1	LOG_TYPE	log type - MVS or SMF
(13B)	UNSIGNED Prot IsA(L2_YESNO)	1	CONNECTED	connected?
(13C)	UNSIGNED Prot IsA(L2_YESNO)	1	SYSTEM_LOG	CICS system log ind
(13D)	UNSIGNED Prot IsA(L2_YESNO)	1	DASD_ONLY_ FLAG	DASD only flag
(13E)	CHARACTER Prot	16	STRUCTURE_ NAME	Structure name
(14E)	CHARACTER Prot	2	*	
(150)	SIGNED Prot	4	RETENTION_ PERIOD	
				Retention period
(154)	UNSIGNED Prot IsA(L2_YESNO)	1	AUTO_DELETE_ FLAG	
				Auto delete flag
(155)	CHARACTER Prot	3	*	
(158)	UNSIGNED Prot IsA(HSLENGTHBYTES)	4	MAX_BLOCK_ SIZE	max log block size
(15C)	CHARACTER Prot IsA(HSMVSSTREAMTOKEN)	16	MVS_STREAM_ TOKEN	
				MVS Logger token
(16C)	ADDRESS Prot	4	BUFFER_PTR	write buffer ptr
(170)	UNSIGNED Prot IsA(HSLENGTHBYTES)	4	BUFFER_LEN	write buffer length

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(174)	OBJECT Prot IsA(L2EC)	4	WRITE_ECB	block write ECB
!:erefstep.L2Ecb_Private_Constants ---------- !:refstep.L2Ecb_Instance_Data ---------- DFHL2DS 1557 - ! ! An instance of an L2Ecb is just an MVS format ECB. ! !----------				
(174)	CHARACTER Publ	4	INSTANCE_ DATA_BLOCK	
(174)	UNSIGNED Publ IsA(L2EC_MVSECB)	4	ECB	
(178)	CHARACTER Prot IsA(HSANSAREA)	40	WRITE_ANSA	ixgwrite answer area
(1A0)	CHARACTER Prot	8	CUR_BLOCK_ID	block id
(1A8)	CHARACTER Prot	16	CUR_TIMESTAMP	block timestamp
(1A8)	CHARACTER Prot	8	CUR_TIME_GMT	GMT time
(1B0)	CHARACTER Prot	8	CUR_TIME_ LOCAL	local time
(1B8)	UNSIGNED Prot IsA(L2_YESNO)	1	MSL_WARNING_ MSG	warning msg issued
(1B9)	UNSIGNED Prot IsA(L2_YESNO)	1	BROKEN_LOG	log in error flag
(1BA)	CHARACTER Prot	2	*	
(1BC)	SIGNED Prot IsA(L2_RESPONSE)	4	BROKEN_RSP	broken response
(1C0)	SIGNED Prot IsA(L2_REASON)	4	BROKEN_RSN	broken reason
(1C4)	SIGNED Prot IsA(L2_RESPONSE)	4	SMF_RESPONSE	SMF write response
(1C8)	SIGNED Prot IsA(L2_REASON)	4	SMF_REASON	SMF write reason
(1CC)	CHARACTER Prot	33	LOG_STREAM_ STATS	
				various statistics
(1CC)	SIGNED Prot	4	IXGWRITE_ COUNT	no of writes
(1D0)	BIT(64) Prot	8	IXGWRITE_ BYTES	no of bytes written
(1D8)	SIGNED Prot	4	RETRY_ERRCOUNT	no of retryable errors

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1DC)	SIGNED Prot	4	IXGBROST_ COUNT	no of browse starts
(1E0)	SIGNED Prot	4	IXGBRORD_ COUNT	no of browse reads
(1E4)	SIGNED Prot	4	IXGDELET_ COUNT	no of deletes
(1E8)	SIGNED Prot	4	IXGQUERY_ COUNT	no of queries
(1EC)	UNSIGNED Prot IsA(L2_YESNO)	1	RETRY_ERRCOUNT_ INC_DONE	
				to ensure stats only incremented once
(1ED)	CHARACTER Prot	7	*	
(1F8)	CHARACTER Prot	8	IXG_STCK	Timestamp of last call
(200)	CHARACTER Prot	8	IXGWRITE_STCK	IXGWRITE timestamp
(208)	UNSIGNED Prot	4	IXGWRITE_ LATENCY	
				IXGWRITE latency
(20C)	CHARACTER Prot	20	*	
(220)	CHARACTER Prot	26	LOGSTREAM_NAME	Logstream name
(23A)	CHARACTER Prot	2	*	
(23C)	CHARACTER Prot	28	LOGSTREAM_STATS	Statistics
(23C)	SIGNED Prot	4	FORCE_WAITS_CU	Current, peak and
(240)	SIGNED Prot	4	FORCE_WAITS_PK	total waiters for
(244)	SIGNED Prot	4	FORCE_WAITS_TO	Current buffer force
(248)	SIGNED Prot	4	BUF_FULL_WAITS	total waiters for Previous buffer write
(24C)	SIGNED Prot	4	BUF_APPENDS	No of buffer appends
(250)	CHARACTER Prot	8	*	
(258)	UNSIGNED Prot	4	*	
(258)	UNSIGNED Prot IsA(L2_YESNO)	1	DEFER_FORCE_ FLAG	active flag. 31 bits resvd.

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(25C)	CHARACTER Prot	4	*	
(260)	CHARACTER Prot	24	LOGSTREAM_ OPT_FIELDS	
				Wait optimiser
(260)	CHARACTER Prot	6	*	
(266)	CHARACTER Prot	8	INTERVAL_START	STCK of start
(266)	UNSIGNED Prot	2	START_HIGH	High order hword
(268)	UNSIGNED Prot	4	START_TIME	16 microsecond units
(26C)	CHARACTER Prot	2	*	
(26E)	CHARACTER Prot	2	*	
(270)	SIGNED Prot	4	LAST_FORCE_ TASK	Last forcing tsk
(274)	SIGNED Prot	4	AVERAGE_GAP	Average gap
(278)	CHARACTER Prot	0	*	

```
!:erefstep.L2BS_Public_Constants -----------------------------------
!:refstep.L2BS_Instance_Data ------------------------- DFHL2BS 159 -
!
! In addition to the instance data inherited from the Stream class,
! instances of the BrowseableStream class consist of:
!
! - an eyecatcher,
!
! - a double chain link to other browseable streams in the chain of
! all browseable streams,
!
! - a record token pointing to the head of the master chain of
! records,
!
! - a record token pointing to the next record to be read as part of
! a master chain browse of records on this browseable stream.
!
! - some flags indicating progress through the initialisation of a
! browseable stream object,
!
! - some flags set aside for general use,
!
! - some space reserved for future use.
!
!--------------------------------------------------------------------
```

```
Declared Data
```

(278)	STRUCTURE Prot	120	BROWSEABLE_ STREAM_ INSTANCE_DATA	

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(278)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	BSID_EYE_ CATCHER	eye-catcher
(278)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(27A)	UNSIGNED Publ	2	L2_EYE_OFFSET	offset of eye-catcher in object
(27C)	CHARACTER Publ	12	L2_EYE_STRING	'>DFHL2xxxxxx'
(288)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	BSID_CHAIN_LINK	Link in chain of browseable streams
(288)	CHARACTER Priv	4	*	
(290)	CHARACTER Prot	8	*	
(290)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(294)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(298)	OBJECT Prot IsA(RECORDTOKEN)	24	BSID_CHAIN_HEAD	Head of master chain of records
(298)	CHARACTER Priv	4	*	
!:refstep.L2RT_Instance_Data ------------------------- DFHL2RT 138 - ! ! An instance of the RecordToken class consists of a pointer to the ! associated Block object, and an index which is the offset of the ! record within that block. Note that the largest size block that ! MVS allows is 64K bytes. ! ! A null RecordToken has no underlying Block and so has a null ! pointer and an index of zero. ! !----------				
(2A0)	CHARACTER Prot	10	INSTANCE_ DATA_BLOCK	
(2A0)	ADDRESS Prot	4	BLOCK_PTR	pointer to Block object
(2A4)	UNSIGNED Prot	4	INDEX	offset within block
(2A8)	CHARACTER Prot	2	*	
(2B0)	OBJECT Prot IsA(RECORDTOKEN)	24	BSID_NEXT_ RTOKEN	next record token in chain browse
(2B0)	CHARACTER Priv	4	*	

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2B8)	CHARACTER Prot	10	INSTANCE_ DATA_BLOCK	
(2B8)	ADDRESS Prot	4	BLOCK_PTR	pointer to Block object
(2BC)	UNSIGNED Prot	4	INDEX	offset within block
(2C0)	CHARACTER Prot	2	*	
(2C8)	CHARACTER Prot	4	BSID_BACKTRACK	progress flags
(2C8)	FIXED Prot IsA(L2_YESNO)	1	BSID_CHAINED	on master chain?
(2C9)	CHARACTER Prot	3	*	reserved
(2CC)	CHARACTER Prot	4	BSID_FLAGS	general flags
(2CC)	FIXED Prot IsA(L2_YESNO)	1	BSID_BROWSE_ IN_PROGRESS	
				master chain browse in progress?
(2CD)	FIXED Prot IsA(L2_YESNO)	1	BSID_EMPTY_ STREAM	
				empty at startup?
(2CE)	CHARACTER Prot	2	*	reserved
(2D0)	CHARACTER Prot	32	*	reserved
(2F0)	CHARACTER Prot	0	*	round to double word
SHARED DATA				
Declared Data				
(0)	ADDRESS Publ IsA(LOGSTREAMTOKEN)	4	BRLOGSTREAMTOKEN	

```
!:erefstep.L2BS_Instance_Data ---------------------------------------
!:refstep.L2BS_Class_Data ----------------------------- DFHL2BS 196 -
!
! The BrowseableStream class data consists of:
!
! - an eyecatcher,
!
! - the anchor of a doubly-linked list of all browseable streams,
!
! - an object factory instance used to allocate browseable stream
! instances,
!
! - some space reserved for future use.
!
!--------------------------------------------------------------------
```

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE Prot	128	BROWSEABLE_ STREAM_CLASS_DATA	
(0)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	BSCD_EYE_ CATCHER	eye-catcher
(0)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(2)	UNSIGNED Publ	2	L2_EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Publ	12	L2_EYE_STRING	'>DFHL2xxxxxx'
(10)	OBJECT Prot IsA(HOP_DCHAIN)	40	BSCD_CHAIN	anchor for chain of browseable streams
Inherited Data				
(10)	CHARACTER Priv	4	*	
(18)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(28)	CHARACTER Priv	4	*	
(30)	CHARACTER Prot	8	*	
(30)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(34)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(38)	OBJECT Prot IsA(L2OF)	40	BSCD_FACTORY	browseable stream factory instance

```
!:erefstep.l2of_public_types ----------------------------------------
!:refstep.l2of_instance_data ------------------------- DFHL2OF 219 -
!
! The instance data contains an eye-catcher, a subpool name, and a
! subpool token. The subpool name is used as a remark when
! allocating and freeing storage. It consists of the prefix 'L2OF'
! and a suffix which is the name of the object being managed.
!
!--------------------------------------------------------------------
```

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	CHARACTER Prot	40	INSTANCE_ DATA_BLOCK	
				L2OF instance data
(38)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	OF_EYE_ CATCHER	eye-catcher
(38)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(3A)	UNSIGNED Publ	2	L2_EYE_ OFFSET	offset of eye-catcher in object
(3C)	CHARACTER Publ	12	L2_EYE_ STRING	'>DFHL2xxxxxx'
(48)	CHARACTER Prot	8	SUBPOOL_NAME	subpool name
(48)	CHARACTER Prot	4	SUBPOOL_ NAME_PREFIX	
				subpool name prefix
(4C)	CHARACTER Prot	4	SUBPOOL_ NAME_SUFFIX	
				subpool name suffix
(50)	CHARACTER Prot	8	SUBPOOL_TOKEN	subpool token
(58)	CHARACTER Prot	8	*	
(60)	CHARACTER Prot	32	*	reserved
(80)	CHARACTER Prot	0	*	round to double word

Constants

Table 229.

Len	Type	value	Name	Description
!:refstep.L2BS_Public_Constants ---------- DFHL2BS 147 - ! ! The following constants are provided for users of ! BrowseableStream. ! !----------				
4	DECIMAL	101	BROWSE_ALREADY_ IN_PROGRESS	
4	DECIMAL	102	NO_BROWSE_ IN_PROGRESS	

L2CH Log Manager Chain Class

```
!:refstep.L2CH_Class --------------------------------- DFHL2CH 262 -
!
!
! The L2CH Class declaration contains the signatures for the
! methods, the declaration of the instance and class data, and the
! implementations of the internal, inlineable methods.
!
! The copybook protects itself against multiple inclusion.
!
!-------------------------------------------------------------------
```

Table 230.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	248	CHAIN	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.L2CH_Public_Constants ---------- !:refstep.L2CH_Instance_Data ---------- DFHL2CH 364 - ! ! An instance of Chain class consists of: ! ! - an eyecatcher, ! ! - a link allowing the instance to be collected into the global ! list of chains, ! ! - a link allowing the instance to be placed on a free list of ! chains, ! ! - a record token object referring to the last record written to ! the chain (the 'head' of the chain). ! ! - the log stream token of the primary system log stream, ! ! - primary and secondary system log stream history points, ! ! - a lock manager lock to enable access to the chain to be ! serialised, ! ! - flags: whether or not the instance is on the free chain, whether ! or not the chain is active (an inactive chain exists just to ! assist the backwards scan of the log during system restart), ! whether or not the primary log is a dummy, and whether or not a ! chain browse is processing the secondary log, ! ! - a record token referring to the next record to be read by a ! chain browse, ! ! - read tokens for primary and secondary log stream browses which ! are used to browse the chain, ! ! - reserved space to be used for APAR fixes etc. which want to ! avoid causing large numbers of recompilations. ! ! NOTE: All the instances of chain are kept on the global list of ! chains. Those that are on the free chain are flagged so that ! their 'allocated' bit is zero. This avoids the overhead of adding ! and removing chains from the global list during typical create() ! and destroy() method calls. A consequence is that unallocated ! chains must be skipped in all browses of the global list. ! !----------				
Declared Data				
(8)	STRUCTURE Prot	236	INSTANCE_ DATA_BLOCK	
(8)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	EYE_CATCHER	An eye-catcher
(8)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(A)	UNSIGNED Publ	2	L2_EYE_OFFSET	offset of eye-catcher in object
(C)	CHARACTER Publ	12	L2_EYE_STRING	'>DFHL2xxxxxx'

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	CHAIN_LIST_LINK	Link in global list
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	ADDRESS Prot	4	CHAIN_FREE_ LIST_LINK	
				Link in free list
(2C)	OBJECT Prot IsA(L2LM)	4	L2LOCK	Chain lock !@L6C
!:refstep.L2Lock_Instance_Data ----------------------- DFHL2LM 224 - ! ! An instance of an L2Lock is just a lock token. ! !----------				
(2C)	CHARACTER Priv	4	INSTANCE_ DATA_BLOCK	
(2C)	ADDRESS Priv IsA(L2LM_LOCK_TOKEN_TYPE)	4	LOCK_TOKEN	
(30)	ADDRESS Prot IsA(BRLOGSTREAMTOKEN)	4	PRIMARY_LOG	Primary log stream
(34)	ADDRESS Prot	4	USER_TOKEN	User Token
(38)	SIGNED Prot	4	CURRENT_STREAM	Current stream being read
(3C)	BIT(8) Prot	1	FLAGS	Flags
	1... .... Prot		ALLOCATED	not on free chain
	.1.. .... Prot		ACTIVE	Chain active
	..1. .... Prot		DUMMY_PRIMARY	Primary log is dummy
	...1 .... Prot		SEC_BROWSE	Browsing secondary log
	.... 1... Prot		MOVE_IN_ PROGRESS	Records being copied to secondary stream
	.... .111 Prot		*	Reserved
(3D)	BIT(8) Prot	1	RECOVERY_FLAGS	Flags for recovery
	1... .... Prot		RESTORED	Chain has been restored
	.1.. .... Prot		RECOVERED	Chain recovered from log

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1. .... Prot		DESTROY	Chain must be destroyed
	...1 .... Prot		IN_DEAD_TAIL	browse_all might find dead tails records !@PBA
	.... 1111 Prot		*	Reserved
(3E)	CHARACTER Prot	2	*	Reserved
(40)	CHARACTER Prot	80	STREAM_ RESOURCES (2)	One struct for each stream
(40)	OBJECT Prot IsA(RECORDTOKEN)	24	HEAD	Head of chain on stream
(40)	CHARACTER Priv	4	*	

```
!:refstep.L2RT_Instance_Data ------------------------- DFHL2RT 138 -
!
! An instance of the RecordToken class consists of a pointer to the
! associated Block object, and an index which is the offset of the
! record within that block. Note that the largest size block that
! MVS allows is 64K bytes.
!
! A null RecordToken has no underlying Block and so has a null
! pointer and an index of zero.
!
!--------------------------------------------------------------------
```

(48)	CHARACTER Prot	10	INSTANCE_ DATA_BLOCK	
(48)	ADDRESS Prot	4	BLOCK_PTR	pointer to Block object
(4C)	UNSIGNED Prot	4	INDEX	offset within block
(50)	CHARACTER Prot	2	*	
(58)	OBJECT Prot IsA(HISTORYPOINT)	24	HP	History Point

```
!:refstep.L2HP_Instance_Data ------------------------- DFHL2HP 131 -
!
! An instance of the HistoryPoint class consists of a store clock
! value, a block id, and a history point type.
!
! There are three different history point types:
!
! - Ultimate past. This is the earliest possible history point, and
! has a low values store clock and a null block id.
!
! - Normal. This is a history point strictly between ultimate past
! and ultimate future, and has a real store clock and a real block
! id.
!
! - Ultimate future. This is the latest possible history point, and
! has a high values store clock and a null block id.
!
!--------------------------------------------------------------------
```

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	CHARACTER Prot	24	INSTANCE_ DATA_BLOCK	
(58)	CHARACTER Prot	8	STCK_VALUE	store clock value
(60)	CHARACTER Prot	8	BLOCK_ID	block id
(68)	UNSIGNED Prot IsA(HPTYPE)	1	TYPE	history point type
(69)	CHARACTER Prot	7	*	
(70)	ADDRESS Prot	4	BROWSE	stream browse token
(74)	SIGNED Prot	4	RECORD_COUNT	Number of records
(78)	OBJECT Prot IsA(RECORDTOKEN)	24	NEXT_IN_BROWSE	Next record to browse
(78)	CHARACTER Priv	4	*	
(80)	CHARACTER Prot	10	INSTANCE_ DATA_BLOCK	
(80)	ADDRESS Prot	4	BLOCK_PTR	pointer to Block object
(84)	UNSIGNED Prot	4	INDEX	offset within block
(88)	CHARACTER Prot	2	*	
(E0)	CHARACTER Prot	20	*	Reserved
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	40	RECORDSTACKELEMENT	
(0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	LINK	
Inherited Data				
(0)	CHARACTER Priv	4	*	
(8)	CHARACTER Prot	8	*	
(8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(10)	OBJECT Prot IsA(RECORDTOKEN)	24	RECORD_TOKEN	
(10)	CHARACTER Priv	4	*	

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER Prot	10	INSTANCE_ DATA_BLOCK	
(18)	ADDRESS Prot	4	BLOCK_PTR	pointer to Block object
(1C)	UNSIGNED Prot	4	INDEX	offset within block
(20)	CHARACTER Prot	2	*	

```
!:erefstep.L2CH_Instance_Data ---------------------------------------
!:refstep.L2CH_Class_Data ----------------------------- DFHL2CH 432 -
!
! The class data of a class is its own anchor block which is shared
! between all instances of the class.
!
! The Chain class data consists of:
!
! - an eyecatcher,
!
! - the anchor of a doubly-linked list of all the chains in use,
!
! - an object factory instance used to allocate chain instances,
!
! - a list of free chain instances (each with associated resources
! e.g. a lock manager lock),
!
! - information relating to browse all such as the status of browse
! all, an iterator used to browse the list of chains, and read
! tokens for the primary and secondary log browses,
!
! - reserved space to be used for APAR fixes etc. which want to
! avoid causing large numbers of recompilations.
!
!---------------------------------------------------------------------
```

(0)	STRUCTURE Prot	264	CLASSDATABLOCK	
(0)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	CLASS_EYE_ CATCHER	An eye-catcher
(0)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(2)	UNSIGNED Publ	2	L2_EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Publ	12	L2_EYE_STRING	'>DFHL2xxxxxx'
(10)	CHARACTER Prot	84	CHAIN_MANAGMENT	
(10)	OBJECT Prot IsA(HOP_DCHAIN)	40	GLOBAL_ CHAIN_LIST	
				All chains
(10)	CHARACTER Priv	4	*	

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(28)	CHARACTER Priv	4	*	
(30)	CHARACTER Prot	8	*	
(30)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(34)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(38)	OBJECT Prot IsA(L2OF)	40	CHAIN_FACTORY	Chain factory
!:erefstep.l2of_public_types ---------- !:refstep.l2of_instance_data ---------- DFHL2OF 219 - ! ! The instance data contains an eye-catcher, a subpool name, and a ! subpool token. The subpool name is used as a remark when ! allocating and freeing storage. It consists of the prefix 'L2OF' ! and a suffix which is the name of the object being managed. ! !----------				
(38)	CHARACTER Prot	40	INSTANCE_ DATA_BLOCK	
				L2OF instance data
(38)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	OF_EYE_ CATCHER	eye-catcher
(38)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(3A)	UNSIGNED Publ	2	L2_EYE_ OFFSET	offset of eye-catcher in object
(3C)	CHARACTER Publ	12	L2_EYE_ STRING	'>DFHL2xxxxxx'
(48)	CHARACTER Prot	8	SUBPOOL_NAME	subpool name
(48)	CHARACTER Prot	4	SUBPOOL_ NAME_PREFIX	

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				subpool name prefix
(4C)	CHARACTER Prot	4	SUBPOOL_ NAME_SUFFIX	
				subpool name suffix
(50)	CHARACTER Prot	8	SUBPOOL_ TOKEN	subpool token
(58)	CHARACTER Prot	8	*	
(60)	ADDRESS Prot	4	CHAIN_FREE_ LIST	Head of free list
(64)	BIT(8) Prot	1	CLASS_FLAGS	Flags
	1... .... Prot		BROWSE_ALL	Browse all mode
	.1.. .... Prot		CLASS_SEC_ BROWSE	
(65)	CHARACTER Prot	3	*	Reserved
(68)	CHARACTER Prot	24	CHAINS_ BROWSE_RESOURCES	
(68)	STRUCTURE Prot IsA(ITERATOR)	24	CHAINS_ITER	Chains iterator
(68)	OBJECT Publ IsA(HOP_DCHAINNODE)	16	ITERNODE	
(68)	CHARACTER Priv	4	*	
(70)	CHARACTER Prot	8	*	
(70)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(74)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(78)	ADDRESS Publ IsA(HOP_DCHAINNODE@)	4	CURRNODE	
(7C)	ADDRESS Publ IsA(HOP_DCHAIN@)	4	CHAIN_PTR	
(80)	CHARACTER Prot	16	CLASS_BROWSE_ RESOURCES	
(80)	ADDRESS Prot	4	CLASS_PRIMARY_ BROWSE	
				Primary stream browse
(84)	ADDRESS Prot	4	CLASS_SECONDARY_ BROWSE	
				Secondary stream browse

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	ADDRESS Prot	4	CURRENT_ CHAIN_PTR	
(8C)	CHARACTER Prot	4	*	Reserved
(90)	CHARACTER Prot	56	HISTORY_ POINT_INFO	
(90)	OBJECT Prot IsA(HISTORYPOINT)	24	CURRENT_HP (2)	Current History Point
(90)	CHARACTER Prot	24	INSTANCE_ DATA_BLOCK	
(90)	CHARACTER Prot	8	STCK_VALUE	store clock value
(98)	CHARACTER Prot	8	BLOCK_ID	block id
(A0)	UNSIGNED Prot IsA(HPTYPE)	1	TYPE	history point type
(A1)	CHARACTER Prot	7	*	
(C0)	FIXED Prot IsA(L2_YESNO)	1	HISTORY_ POINTS_RESTORED	
				Have HPs been restored yet during a restart?
(C1)	FIXED Prot IsA(L2_YESNO)	1	HP_TRIMMED_TO (2)	Has HP been used to trim the log to?
(C3)	CHARACTER Prot	5	*	Reserved
(C8)	CHARACTER Prot	16	TIME_OF_ LAST_MOVE	Info on last move
(C8)	CHARACTER Prot	8	START	Time started
(D0)	CHARACTER Prot	8	FINISH	Time finished
(D8)	CHARACTER Prot	4	CHAIN_HOLDING_ HP_TRANNUM	
				HP trannum
(DC)	CHARACTER Prot	4	CHAIN_HOLDING_ HP_TRANID	
				HP tranid
(E0)	CHARACTER Prot	24	*	Reserved
(F8)	SIGNED Prot	4	COUNT	number of records read
(FC)	UNSIGNED Prot	4	AKP_FREQUENCY	
(100)	UNSIGNED Prot	4	KPS_SINCE_TRIM	Num kps since trim

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(104)	CHARACTER Prot	4	KEYPOINT_STATS	
(104)	UNSIGNED Prot	4	KP_COUNT	Num kp in stats interval

Constants

Table 231.

Len	Type	value	Name	Description
!:refstep.L2CH_Public_Constants ---------- DFHL2CH 336 - ! ! The following constants are provided for users of Chain. ! !---------- the following reason codes are returned by l2ch_write:				
4	DECIMAL	1	BUFFER_FULL	
4	DECIMAL	2	AKP_KICK_OFF	
4	DECIMAL	4	BUFFER_LENGTH_ERROR	
the following reason codes are returned by l2ch_chain_browse_get_next:				
4	DECIMAL	3	END_OF_DATA	
the following reason codes are returned by l2ch_start_chain_browse_with_lock:				
4	DECIMAL	5	BROWSE_ILLOGIC	
the following reason codes are returned by l2ch_move:				
4	DECIMAL	6	DUMMY_SECONDARY_STREAM	

Table 231. (continued)

Len	Type	value	Name	Description
!:erefstep.L2CH_Class_Data ---------- !:refstep.L2CH_Log_Header_Formats ---------- DFHL2CH 488 - ! ! The log header for the chain class simply states the type of ! record and any previous records in the chain in terms of their ! flattened record tokens. ! ! A normal chained record on the primary log or a normal chained ! record on the secondary log has a single previous record token. ! ! An unchained 'user' record has no previous record token. ! ! A fork record has two previous record tokens. One points to the ! last record in the chain on the primary log, i.e. the end of the ! 'dead tail'. The other points to the last record in the chain on ! the secondary log, i.e. the end of the 'live tail'. ! ! Notice that since a fork record does not make sense without the ! live tail being on the secondary log, it is necessary to force the ! secondary log during move chain processing before writing the fork ! record to the primary log. ! ! The types for these are declared in DFHL2LFC. ! !---------- !:erefstep.L2CH_Log_Header_Formats ---------- !:refstep.L2CH_Kernel_Requested_Errors ---------- DFHL2CH 506 - ! ! These error codes are used when entering the caller's recovery ! routine to process certain kinds of severe error. The purpose in ! entering the caller's recovery routine is so that the procedure ! which detects the error does not need to do its own FFDC and need ! not return to its caller when these kinds of severe errors occur. ! This simplifies the callers which do not then need to process ! these errors in multiple paths of their normal code - they simply ! need to be able to do the appropriate FFDC work in their recovery ! routines. ! ! The methods which raise the errors say so in the comments above ! their method declarations. ! !----------				
Following raised in development environment only				
4	CHARACTER	ALG!	L2CH_WRONG_ TCB_ERROR_CODE	

L2DM Log Manager L2DM Class

```
!:refstep.L2DM_Class_Declaration ---------- DFHL2DM 688 -
!
!
! The L2DM Class declaration contains the signatures for the methods
! and the declaration of the instance data. The instance data
! structure is the L2 portion of the LG Domain anchor block.
!
!----------
```

Table 232.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	1024	L2DM	
!:erefstep.L2DM_Inq_Class_Data_Method ------------------------------ !:refstep.L2DM_Instance_Data ------------------------- DFHL2DM 736 - ! ! This structure is the global data for the L2 portion of LG Domain. ! It occupies the second 1K bytes of the overall LG anchor block ! (LGA, mapped by copybook DFHLGANC). ! !--				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	1024	INSTANCE_ DATA_BLOCK	
(0)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	L2DM_EYE_ CATCHER	Eyecatcher
(0)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(2)	UNSIGNED Publ	2	L2_EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Publ	12	L2_EYE_STRING	'>DFHL2xxxxx'
(10)	UNSIGNED Publ	1	L2DM_STATE	State
(11)	CHARACTER Prot	3	*	Reserved
(14)	CHARACTER Prot	8	L2DM_SUBPOOL	Subpool Token
(1C)	OBJECT Prot IsA(L2LM)	4	L2LOCK	Domain lock !@L7C
!:refstep.L2Lock_Instance_Data ----------------------- DFHL2LM 224 - ! ! An instance of an L2Lock is just a lock token. ! !--				
(1C)	CHARACTER Priv	4	INSTANCE_ DATA_BLOCK	
(1C)	ADDRESS Priv IsA(L2LM_LOCK_TOKEN_TYPE)	4	LOCK_TOKEN	
(20)	OBJECT Prot IsA(RMCLM)	144	L2DM_CLASS_ MANAGER	
				Class Manager
(20)	CHARACTER Prot	144	INSTANCE_ DATA_BLOCK	
(20)	CHARACTER Prot	4	NAME (12)	class name
(50)	ADDRESS Prot	4	INITIALISER (12)	class initialising proc

Table 232. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(80)	ADDRESS Prot	4	DATA (12)	class data address
(B0)	OBJECT Prot IsA(L2TH)	4	HEARTBEAT_ L2THREAD	
				Thread !@L7C
!:erefstep.L2Thread_Private_Types ---------- !:refstep.L2Thread_Instance_Data ---------- DFHL2DS 211 - ! ! An instance of an L2Thread is just a thread id (otherwise known as ! a suspend token). ! !----------				
(B0)	CHARACTER Priv	4	INSTANCE_ DATA_BLOCK	
(B0)	CHARACTER Priv IsA(L2TH_SUSPEND_TOKEN)	4	SUSPEND_TOKEN	
(B4)	CHARACTER Prot	8	*	reserved

Constants

Table 233.

Len	Type	value	Name	Description
!:refstep.L2DM_Class_Constants ---------- DFHL2DM 88 - ! ! Declare a constant for the number of classes that the class ! manager can handle. This includes a few spare in addition to those ! currently required. ! ! Identify the classes managed by the class manager and some spares. ! ! Specify the order in which the classes are initialised by the ! class manager. ! !----------				
4	DECIMAL	12	RMCLM_MAX_CLASS	Capacity of the class mgr
4	DECIMAL	6	L2DM_NUM_CLASSES	Number of L2 classes
L2 Classes identified by constant				
4	DECIMAL	1	L2VP_CLASSID	
4	DECIMAL	2	L2BL_CLASSID	
4	DECIMAL	3	L2SR_CLASSID	
4	DECIMAL	4	L2BS_CLASSID	
4	DECIMAL	5	L2SL_CLASSID	
4	DECIMAL	6	L2CH_CLASSID	
!:erefstep.L2DM_Class_Constants ---------- persistent name and persistent type				

Table 233. (continued)

Len	Type	value	Name	Description
8	CHARACTER	DFHL2DM	L2DM_PTYPE	
16	CHARACTER	DFHL2DM_ANCHOR	L2DM_PNAME	
states				
4	DECIMAL	1	L2DM_INITIALISING	
4	DECIMAL	2	L2DM_INITIALISED	
4	DECIMAL	3	L2DM_QUIESCING	
4	DECIMAL	4	L2DM_QUIESCED	
4	DECIMAL	5	L2DM_TERMINATING	
4	DECIMAL	6	L2DM_TERMINATED	
4	DECIMAL	1	RMCLM_OK	

L2TH Log Manager Thread Class *N8A

```
!:erefstep.L2Thread_Public_Types ----------------------------------
!:refstep.L2Thread_Public_Constants ------------------ DFHL2DS 172 -
!
! The following constants are provided for users of L2Thread.
!
!-------------------------------------------------------------------
```

Constants

Table 234.

Len	Type	value	Name	Description
1	DECIMAL	9	L2TH_TIMER	
1	DECIMAL	11	L2TH_MISC	
1	DECIMAL	12	L2TH_IDLE	
4	DECIMAL	1	L2TH_OK	
4	DECIMAL	2	L2TH_EXCEPTION	
4	DECIMAL	3	L2TH_DISASTER	
4	DECIMAL	6	L2TH_PURGED	
4	DECIMAL	4	L2TH_TIMED_OUT	
!:erefstep.L2SuspendQueue_Public_Types ------------------------------ !:refstep.L2SuspendQueue_Public_Constants ------------ DFHL2DS 860 - ! ! The following constants are provided for users of L2SuspendQueue. ! !--				
4	DECIMAL	1	L2SQ_OK	
4	DECIMAL	2	L2SQ_EXCEPTION	
4	DECIMAL	3	L2SQ_DISASTER	
4	DECIMAL	6	L2SQ_PURGED	

Table 234. (continued)

Len	Type	value	Name	Description
!:erefstep.L2Ecb_Public_Types ---------- !:refstep.L2Ecb_Public_Constants ---------- DFHL2DS 1524 - ! ! The following constants are provided for users of L2Ecb. ! !----------				
1	DECIMAL	2	L2EC_IO	
4	DECIMAL	1	L2EC_OK	
4	DECIMAL	2	L2EC_EXCEPTION	
4	DECIMAL	3	L2EC_DISASTER	
4	DECIMAL	6	L2EC_PURGED	
!:erefstep.L2Ecb_Public_Constants ---------- !:refstep.L2Ecb_Private_Constants ---------- DFHL2DS 1545 - ! ! The following constants are used internally by the L2Ecb class. ! !----------				
4	NUMB HEX	40000000	L2EC_POSTED	
4	DECIMAL	0	L2EC_CLEAR	

Table 234. (continued)

Len	Type	value	Name	Description

```
     Structure generated for this format
       DSSR
DFHDSSR_ARG DSECT
     First the enumerated type fields
     Each name is assigned a numeric value
DSSR_ADD_SUSPEND EQU 001
DSSR_DELETE_SUSPEND EQU 002
DSSR_SUSPEND EQU 004
DSSR_RESUME EQU 005
DSSR_WAIT_MVS EQU 006
DSSR_WAIT_OLDW EQU 007
DSSR_WAIT_OLDC EQU 008
DSSR_OK EQU 001
DSSR_EXCEPTION EQU 002
DSSR_DISASTER EQU 003
DSSR_INVALID EQU 004
DSSR_KERNERROR EQU 005
DSSR_PURGED EQU 006
DSSR_INSUFFICIENT_STORAGE EQU 001
DSSR_SUSPEND_TOKEN_IN_USE EQU 002
DSSR_TASK_CANCELLED EQU 003
DSSR_TIMED_OUT EQU 004
DSSR_ALREADY_WAITING EQU 005
DSSR_INVALID_SUSPEND_TOKEN EQU 006
DSSR_ALREADY_SUSPENDED EQU 007
DSSR_ALREADY_RESUMED EQU 008
DSSR_INVALID_FORMAT EQU 009
DSSR_INVALID_FUNCTION EQU 010
DSSR_CLEAN_UP_PENDING EQU 011
DSSR_LOOP EQU 012
DSSR_ABEND EQU 013
DSSR_INVALID_MODE EQU 014
DSSR_INVALID_ECB_ADDR EQU 015
DSSR_CSTP EQU 001
DSSR_YES EQU 001
DSSR_NO EQU 002
DSSR_DELAYED EQU 001
DSSR_IMMEDIATE EQU 002
DSSR_INHIBIT EQU 003
DSSR_SECOND EQU 001
DSSR_MILLI_SECOND EQU 002
DSSR_LOCK EQU 001
DSSR_IO EQU 002
DSSR_CONV EQU 003
DSSR_CMDRESP EQU 004
DSSR_DISTRIB EQU 005
DSSR_SESS_LOCALMVS EQU 006
DSSR_SESS_NETWORK EQU 007
DSSR_SESS_SYSPLEX EQU 008
DSSR_TIMER EQU 009
DSSR_OTHER_PRODUCT EQU 010
DSSR_MISC EQU 011
DSSR_IDLE EQU 012
     DSSR Call structured parameter list
     - Includes a standard 16 byte header
DSSR_HEAD DS 0CL16
DSSR_PLISTLEN DS H LENGTH OF PLIST
                 DS H RESERVED FOR ID
DSSR_FORMAT_NO DS F UNIQUE FORMAT NUMBER
DSSR_VERSION_NO DS F VERSION NUMBER OF PLIST
DSSR_RESERVED DS 0XL4 RESERVED
DSSR_RES01 DS X
DSSR_KERNHANDLE EQU X'80'
DSSR_RES02 DS X
DSSR_RES03 DS X
DSSR_RES04 DS X
     EXISTENCE BITS
      The Existence Bits define which parameters
      are included in the request and/or response
DSSR_EXISTENCE DS 0XL8
```

Table 234. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	DSSR_ADD_SUSPEND	
1	DECIMAL	2	DSSR_DELETE_SUSPEND	
1	DECIMAL	4	DSSR_SUSPEND	
1	DECIMAL	5	DSSR_RESUME	
1	DECIMAL	6	DSSR_WAIT_MVS	
1	DECIMAL	7	DSSR_WAIT_OLDW	
1	DECIMAL	8	DSSR_WAIT_OLDC	
1	DECIMAL	1	DSSR_OK	
1	DECIMAL	2	DSSR_EXCEPTION	
1	DECIMAL	3	DSSR_DISASTER	
1	DECIMAL	4	DSSR_INVALID	
1	DECIMAL	5	DSSR_KERNERROR	
1	DECIMAL	6	DSSR_PURGED	
1	DECIMAL	1	DSSR_INSUFFICIENT_ STORAGE	
1	DECIMAL	2	DSSR_SUSPEND_ TOKEN_IN_USE	
1	DECIMAL	3	DSSR_TASK_CANCELLED	
1	DECIMAL	4	DSSR_TIMED_OUT	
1	DECIMAL	5	DSSR_ALREADY_WAITING	
1	DECIMAL	6	DSSR_INVALID_ SUSPEND_TOKEN	
1	DECIMAL	7	DSSR_ALREADY_ SUSPENDED	
1	DECIMAL	8	DSSR_ALREADY_RESUMED	
1	DECIMAL	9	DSSR_INVALID_FORMAT	
1	DECIMAL	10	DSSR_INVALID_ FUNCTION	
1	DECIMAL	11	DSSR_CLEAN_ UP_PENDING	
1	DECIMAL	12	DSSR_LOOP	
1	DECIMAL	13	DSSR_ABEND	
1	DECIMAL	14	DSSR_INVALID_MODE	
1	DECIMAL	15	DSSR_INVALID_ ECB_ADDR	
1	DECIMAL	1	DSSR_CSTP	
1	DECIMAL	1	DSSR_YES	
1	DECIMAL	2	DSSR_NO	
1	DECIMAL	1	DSSR_DELAYED	
1	DECIMAL	2	DSSR_IMMEDIATE	

Table 234. (continued)

Len	Type	value	Name	Description
1	DECIMAL	3	DSSR_INHIBIT	
1	DECIMAL	1	DSSR_SECOND	
1	DECIMAL	2	DSSR_MILLI_SECOND	
1	DECIMAL	1	DSSR_LOCK	
1	DECIMAL	2	DSSR_IO	
1	DECIMAL	3	DSSR_CONV	
1	DECIMAL	4	DSSR_CMDRESP	
1	DECIMAL	5	DSSR_DISTRIB	
1	DECIMAL	6	DSSR_SESS_LOCALMVS	
1	DECIMAL	7	DSSR_SESS_NETWORK	
1	DECIMAL	8	DSSR_SESS_SYSPLEX	
1	DECIMAL	9	DSSR_TIMER	
1	DECIMAL	10	DSSR_OTHER_PRODUCT	
1	DECIMAL	11	DSSR_MISC	
1	DECIMAL	12	DSSR_IDLE	

L2HP Log Manager History Point Class

```
!:refstep.L2HP_Class ---------------------------------- DFHL2HP 72 -
!
!
! What follows defines the Log Manager HistoryPoint class.
!
! History points provide a means of remembering the age of records
! written to logs. They are used by the System Log class and the
! Chain class, so are only of relevance to the system log.
!
! The history point of a log record consists of the store clock
! value that was stored in the record when it was written to the
! buffer together with a block id, where the block id is not later
! than the block containing the record.
!
! The history points of a chain are the history points of the oldest
! records on the primary and secondary log streams belonging to the
! live part of the chain. If there is no oldest record on either log
! stream the corresponding history point is in the 'ultimate future'
! (the latest possible history point).
!
! If the oldest block id is unknown then the history point is in the
! 'ultimate past' (the oldest possible history point). This occurs,
! for example, during browse all when the first record of the chain
! has not yet been browsed, or on a very early write to a log stream
! after a cold start.
!
! The current history point of a log stream is the history point of
! the most recently written record on that log stream. If the most
! recently written record is unknown, then the history point is in
! the ultimate past. An empty log stream is an example of this.
!
!--------------------------------------------------------------------
!:refstep.L2HP_Class_Declaration ---------------------- DFHL2HP 111 -
!
```

```
! The HistoryPoint class has instance data but no class data.
!
!---------------------------------------------------------------------
```

Table 235.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	24	HISTORYPOINT	
!:refstep.L2HP_Instance_Data ------------------------- DFHL2HP 131 - ! ! An instance of the HistoryPoint class consists of a store clock ! value, a block id, and a history point type. ! ! There are three different history point types: ! ! - Ultimate past. This is the earliest possible history point, and ! has a low values store clock and a null block id. ! ! - Normal. This is a history point strictly between ultimate past ! and ultimate future, and has a real store clock and a real block ! id. ! ! - Ultimate future. This is the latest possible history point, and ! has a high values store clock and a null block id. ! !---				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	24	INSTANCE_ DATA_BLOCK	
(0)	CHARACTER Prot	8	STCK_VALUE	store clock value
(8)	CHARACTER Prot	8	BLOCK_ID	block id
(10)	FIXED Prot IsA(HPTYPE)	1	TYPE	history point type
(11)	CHARACTER Prot	7	*	reserved
!:erefstep.L2HP_Instance_Data --------------------------------------- !:refstep.L2HP_Types ---------------------------------- DFHL2HP 157 - ! ! Declare HistoryPoint associated types. There is a type for history ! point type. ! !---				
SHARED DATA				
Declared Data				
(0)	FIXED Publ	1	HPTYPE	

Constants

Table 236.

Len	Type	value	Name	Description
!:erefstep.L2HP_Types ---------- !:refstep.L2HP_Constants ---------- DFHL2HP 165 - ! ! Declare constants for history point type and special ultimate past ! and ultimate future store clocks. ! !----------				
1	DECIMAL	1	HP_ULTIMATE_PAST	
1	DECIMAL	2	HP_NORMAL	
1	DECIMAL	3	HP_ULTIMATE_FUTURE	
8	CHAR HEX	0000000000000000	ULT_PAST_STCK	
8	CHAR HEX	FFFFFFFFFFFFFFFF	ULT_FUTURE_STCK	

L2HS Log Manager Hard Stream Class

```
!:refstep.HardStream_Class ---------- DFHL2HS 91 -
!
!
! The HardStream Class declaration contains the signatures for the
! methods, the declaration of the instance data, and the
! implementations of the internal methods.
!
! This class provides the following operations, all of which operate
! on a single object of the HardStream class;-
!
! - Connect
!
! Connect to the MVS Logger or SMF logstream and initialize the
! HardStream object.
!
! - Disconnect
!
! Disconnect from the logstream and destroy the HardStream object.
!
! - Delete_all
!
! Delete all blocks of data from the logstream (MVS Logger only).
!
! - Delete_history
!
! Delete all blocks of data from the logstream that are strictly
! older than a specified block (MVS Logger only).
!
! - Get_block_size
!
! Returns the maximum block size allowed for the logstream.
!
! - Get_current_block
!
! Returns the block id and block of the youngest block on the
! logstream (MVS Logger only).
!
! - Start_read
!
! Start a browse in order to read blocks back from the logstream
! (MVS Logger only).
!
! - Read_block
```

```
!
! Read a specified block from the logstream (MVS Logger only).
!
! - End_read
!
! End a browse.
!
! - Start_write
!
! Write a block of data to the logstream without waiting for the
! result. A subsequent wait_write operation is used to obtain the
! result.
!
! - Wait_write
!
! Obtain the result of a previously issued write of a block of
! data, waiting for the write to complete if necessary.
!
! - Collect_statistics
!
! Return statistics data for the logstream (MVS Logger only).
!
! - Reset_statistics
!
! Reset statistics data for the logstream (MVS Logger only).
!
!---------------------------------------------------------------------
```

Table 237.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	288	HARDSTREAM	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	

Table 237. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.L2HS_Instance_Data ------------------------- DFHL2HS 178 - ! ! An instance of HardStream class consists of ! ! - An eyecatcher. ! ! This helps dump navigation. ! ! - A log stream name. ! ! This is the log stream name which denotes the MVS System Logger ! log stream on connect operation, which returns a log stream ! token. ! ! - A journal name. ! ! This is the journal name from the log stream name, used as the ! resource name when a task is suspended. ! ! - A log type. ! ! This is either 'mvs' or 'smf'. ! ! - A connected/disconnected indicator. ! ! When 'connected' the HardStream object is operational, and when ! 'disconnected' it has been disconnected and it about to be ! destroyed. ! ! - A System Log indicator. ! ! If 'Y' the log stream forms part of the System Log. ! ! - dasd_only(y/n) ! ! This flag indicates whether the log stream is of type DASDONLY ! or CF based. ! ! - structname ! ! If the log stream is CF based, this is the structure name used ! by the log stream, otherwise this is set to binary 0 (meaning ! not applicable). ! ! - retention_period ! ! The log stream retention period is the number in days that the ! data must be kept before it can be physically deleted by the MVS ! logger. ! ! - auto_delete ! ! Auto delete flag, if set to yes the MVS logger automatically ! deletes the data as it matures beyond the retention period, ! irrespective of any IXGDELET calls. If set to no the data is ! deleted when it matures beyond the retention period and an ! IXGDELET call has been issued. ! ! - A maximum block size. ! ! This is a constant, being the maximum block size allowed for the ! MVS System Logger log stream or MVS SMF log. ! ! - An MVS log stream token. ! ! This is the token that denotes the MVS Logger log stream at its ! interface. The MVS System Logger returns this value on the ! connect operation. ! ! - A buffer pointer.				

Table 237. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Declared Data				
(8)	STRUCTURE Prot	280	INSTANCE_ DATA_BLOCK	
(8)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	EYE_CATCHER	an eye-catcher
(8)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(A)	UNSIGNED Publ	2	L2_EYE_OFFSET	offset of eye-catcher in object
(C)	CHARACTER Publ	12	L2_EYE_STRING	'>DFHL2xxxxxx'
(18)	CHARACTER Prot	26	MVS_STREAM_NAME	MVS logstream name
(32)	CHARACTER Prot	8	JOURNAL_NAME	journal name
(3A)	UNSIGNED Prot	1	LOG_TYPE	log type - MVS or SMF
(3B)	FIXED Prot IsA(L2_YESNO)	1	CONNECTED	connected?
(3C)	FIXED Prot IsA(L2_YESNO)	1	SYSTEM_LOG	CICS system log ind
(3D)	FIXED Prot IsA(L2_YESNO)	1	DASD_ONLY_FLAG	DASD only flag
(3E)	CHARACTER Prot	16	STRUCTURE_NAME	Structure name
(4E)	CHARACTER Prot	2	*	reserved
(50)	SIGNED Prot	4	RETENTION_ PERIOD	Retention period
(54)	FIXED Prot IsA(L2_YESNO)	1	AUTO_DELETE_ FLAG	Auto delete flag
(55)	CHARACTER Prot	3	*	reserved
(58)	FIXED Prot IsA(HSLENGTHBYTES)	4	MAX_BLOCK_SIZE	max log block size
(5C)	CHARACTER Prot IsA(HSMVSSTREAMTOKEN)	16	MVS_STREAM_ TOKEN	MVS Logger token
(6C)	ADDRESS Prot	4	BUFFER_PTR	write buffer ptr
(70)	FIXED Prot IsA(HSLENGTHBYTES)	4	BUFFER_LEN	write buffer length
(74)	OBJECT Prot IsA(L2EC)	4	WRITE_ECB	block write ECB

Table 237. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.L2Ecb_Private_Constants ---------- !:refstep.L2Ecb_Instance_Data ---------- DFHL2DS 1557 - ! ! An instance of an L2Ecb is just an MVS format ECB. ! !----------				
(74)	CHARACTER Publ	4	INSTANCE_ DATA_BLOCK	
(74)	UNSIGNED Publ IsA(L2EC_MVSECB)	4	ECB	
(78)	CHARACTER Prot IsA(HSANSAREA)	40	WRITE_ANSA	ixgwrite answer area
(A0)	CHARACTER Prot	8	CUR_BLOCK_ID	block id
(A8)	CHARACTER Prot	16	CUR_TIMESTAMP	block timestamp
(A8)	CHARACTER Prot	8	CUR_TIME_GMT	GMT time
(B0)	CHARACTER Prot	8	CUR_TIME_LOCAL	local time
(B8)	FIXED Prot IsA(L2_YESNO)	1	MSL_WARNING_MSG	warning msg issued
(B9)	FIXED Prot IsA(L2_YESNO)	1	BROKEN_LOG	log in error flag
(BA)	CHARACTER Prot	2	*	reserved
(BC)	FIXED Prot IsA(L2_RESPONSE)	4	BROKEN_RSP	broken response
(C0)	FIXED Prot IsA(L2_REASON)	4	BROKEN_RSN	broken reason
(C4)	FIXED Prot IsA(L2_RESPONSE)	4	SMF_RESPONSE	SMF write response
(C8)	FIXED Prot IsA(L2_REASON)	4	SMF_REASON	SMF write reason
(CC)	CHARACTER Prot	33	LOG_STREAM_ STATS	various statistics
(CC)	SIGNED Prot	4	IXGWRITE_COUNT	no of writes
(D0)	BIT(64) Prot	8	IXGWRITE_BYTES	no of bytes written
(D8)	SIGNED Prot	4	RETRY_ERRCOUNT	no of retryable errors
(DC)	SIGNED Prot	4	IXGBROST_COUNT	no of browse starts
(E0)	SIGNED Prot	4	IXGBRORD_COUNT	no of browse reads
(E4)	SIGNED Prot	4	IXGDELET_COUNT	no of deletes

Table 237. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E8)	SIGNED Prot	4	IXGQUERY_COUNT	No of queries
(EC)	FIXED Prot IsA(L2_YESNO)	1	RETRY_ERRCOUNT_ INC_DONE	
				to ensure stats only incremented once
(ED)	CHARACTER Prot	7	*	reserved
(F8)	CHARACTER Prot	8	IXG_STCK	Timestamp of last call
(100)	CHARACTER Prot	8	IXGWRITE_STCK	IXGWRITE timestamp
(108)	UNSIGNED Prot	4	IXGWRITE_ LATENCY	IXGWRITE latency
(10C)	CHARACTER Prot	20	*	reserved
!:erefstep.L2HS_Instance_Data ---------- !:refstep.L2HS_Types ---------- DFHL2HS 324 - ! ! Declare asociated types for HardStream. ! !----------				
SHARED DATA				
Declared Data				
(0)	CHARACTER Publ	4	HSREADTOKEN	
(0)	FIXED Publ	4	HSLENGTHBYTES	
(0)	CHARACTER Publ	16	HSMVSSTREAMTOKEN	
(0)	FIXED Publ	4	HSSTREAMSTATUS	
(0)	CHARACTER Prot	40	HSANSAREA	
(0)	FIXED Prot	4	HSRETRSN	

Constants

Table 238.

Len	Type	value	Name	Description
!:erefstep.L2HS_Types ---------- !:refstep.L2HS_Public_Constants ---------- DFHL2HS 336 - ! ! Declare public constants for HardStream. ! !---------- the following reason codes are returned by L2HS_wait_write:				
4	DECIMAL	1	LOST_ACCESS	
4	DECIMAL	2	LOST_DATA	

Table 238. (continued)

Len	Type	value	Name	Description
4	DECIMAL	3	IO_IN_PROGRESS	
the following reason codes are returned by L2HS_connect:				
4	DECIMAL	4	CONNECT_FAILURE	
4	DECIMAL	5	LOG_NOT_DEFINED	
the following reason codes are returned by L2HS_get_current_block:				
4	DECIMAL	6	EMPTY_LOG_STREAM	
the following reason codes are returned by L2HS_read_block:				
4	DECIMAL	7	NO_DATA	
the following reason code is returned by L2HS_delete_all: !				
4	DECIMAL	8	DELETE_ALL_ SUPPRESSED	
the following reason code is returned by L2HS_delete_history:				
4	DECIMAL	9	DELETE_HISTORY_ SUPPRESSED	
the following values are returned by L2HS_get_stream_status				
4	DECIMAL	1	HS_USABLE	
4	DECIMAL	2	HS_USABLE2	
4	DECIMAL	3	HS_UNUSABLE	
!:erefstep.L2HS_Public_Constants ---------- !:refstep.L2HS_Protected_Constants ---------- DFHL2HS 369 - ! ! Declare protected constants for HardStream. ! !----------				
4	DECIMAL	3000	MAX_TRACE_BLOCK_LEN	
8	CHARACTER	LGWRITE	WAIT_RESOURCE_ TYPE_WRITE	
4	DECIMAL	72	QBUF_LENGTH	
should remain 72 bytes				
4	DECIMAL	88	QBUF_VERSION1_LENGTH	
should remain 88 bytes				
4	DECIMAL	168	QBUF_VERSION2_LENGTH	
should remain 168 bytes				
4	DECIMAL	0	QBUFVERNUM	
4	DECIMAL	1	QBUFVERONE	
4	DECIMAL	2	QBUFVERTWO	

L2LF Log Manager Log Formats

Constants

Table 239.

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	
2	DECIMAL	1	SLBH_BLOCK_ VERSION_NO	
3	CHARACTER	DFH	SLBH_BLOCK_ TYPE_DFH	
1	CHARACTER	>	SLBH_BLOCK_ TYPE_ARROW	
1	DECIMAL	0	SLBH_LOG_ TYPE_GENERAL	
1	DECIMAL	1	SLBH_LOG_TYPE_SYSTEM	
4	DECIMAL	1	SLH_P_REC_ TYPE_NORMAL	
4	DECIMAL	2	SLH_P_REC_TYPE_FORK	
4	DECIMAL	3	SLH_P_REC_ TYPE_SECONDARY	
4	DECIMAL	4	SLH_P_REC_TYPE_USER	
4	DECIMAL	5	SLH_P_REC_TYPE_TRIM	
4	DECIMAL	6	SLH_P_REC_ TYPE_NON_MOVED	

L2LM Log Manager Lock Class

```
     Structure generated for this format
       LMLM
DFHLMLM_ARG DSECT
     First the enumerated type fields
     Each name is assigned a numeric value
LMLM_ADD_LOCK EQU 001
LMLM_DELETE_LOCK EQU 002
LMLM_LOCK EQU 003
LMLM_UNLOCK EQU 004
LMLM_TEST_LOCK_OWNER EQU 008
LMLM_OK EQU 001
LMLM_EXCEPTION EQU 002
LMLM_DISASTER EQU 003
LMLM_INVALID EQU 004
```

```
LMLM_KERNERROR EQU 005
LMLM_PURGED EQU 006
LMLM_LOCK_TOKEN_NOT_FOUND EQU 001
LMLM_SHARED_LOCK_FREE EQU 002
LMLM_NOT_LOCK_OWNER EQU 003
LMLM_DUPLICATE_LOCK_OWNER EQU 004
LMLM_TOO_LATE EQU 005
LMLM_LOCK_BUSY EQU 006
LMLM_INVALID_FUNCTION EQU 007
LMLM_INSUFFICIENT_STORAGE EQU 008
LMLM_ABEND EQU 009
LMLM_LOOP EQU 010
LMLM_OWNER_TOK_NOT_SPECIFIED EQU 011
LMLM_OWNER_TOKEN_SPECIFIED EQU 012
LMLM_INLINE_FAIL EQU 013
LMLM_EXCLUSIVE EQU 001
LMLM_SHARED EQU 002
LMLM_CICS EQU 001
LMLM_NO EQU 002
     LMLM Call structured parameter list
     - Includes a standard 16 byte header
LMLM_HEAD DS 0CL16
LMLM_PLISTLEN DS H LENGTH OF PLIST
                 DS H RESERVED FOR ID
LMLM_FORMAT_NO DS F UNIQUE FORMAT NUMBER
LMLM_VERSION_NO DS F VERSION NUMBER OF PLIST
LMLM_RESERVED DS 0XL4 RESERVED
LMLM_RES01 DS X
LMLM_KERNHANDLE EQU X'80'
LMLM_RES02 DS X
LMLM_RES03 DS X
LMLM_RES04 DS X
     EXISTENCE BITS
      The Existence Bits define which parameters
      are included in the request and/or response
LMLM_EXISTENCE DS 0XL8
LMLM_XB01 DS X
LMLM_FUNCTION_X EQU X'80'
LMLM_RESPONSE_X EQU X'20'
LMLM_REASON_X EQU X'10'
LMLM_LOCK_TOKEN_X EQU X'04'
LMLM_OWNER_TOKEN_X EQU X'02'
LMLM_XB02 DS X
LMLM_MODE_X EQU X'10'
LMLM_LOCK_NAME_X EQU X'04'
LMLM_WAIT_X EQU X'02'
LMLM_XB03 DS X
LMLM_XB04 DS X
LMLM_XB05 DS X
LMLM_XB06 DS X
LMLM_XB07 DS X
LMLM_XB08 DS X
     Actual KEYWORDS now follow with their
     respective enumerated types commented
LMLM_FUNCTION DS HL001
    LMLM_ADD_LOCK EQU 001
    LMLM_DELETE_LOCK EQU 002
    LMLM_LOCK EQU 003
    LMLM_UNLOCK EQU 004
    LMLM_TEST_LOCK_OWNER EQU 008
                                 DS CL001
LMLM_RESPONSE DS HL001
    LMLM_OK EQU 001
    LMLM_EXCEPTION EQU 002
    LMLM_DISASTER EQU 003
    LMLM_INVALID EQU 004
    LMLM_KERNERROR EQU 005
```

```
    LMLM_PURGED EQU 006
LMLM_REASON DS HL001
    LMLM_LOCK_TOKEN_NOT_FOUND EQU 001
    LMLM_SHARED_LOCK_FREE EQU 002
    LMLM_NOT_LOCK_OWNER EQU 003
    LMLM_DUPLICATE_LOCK_OWNER EQU 004
    LMLM_TOO_LATE EQU 005
    LMLM_LOCK_BUSY EQU 006
    LMLM_INVALID_FUNCTION EQU 007
    LMLM_INSUFFICIENT_STORAGE EQU 008
    LMLM_ABEND EQU 009
    LMLM_LOOP EQU 010
    LMLM_OWNER_TOK_NOT_SPECIFIED EQU 011
    LMLM_OWNER_TOKEN_SPECIFIED EQU 012
    LMLM_INLINE_FAIL EQU 013
                                DS CL008
LMLM_LOCK_TOKEN DS AL004
LMLM_OWNER_TOKEN DS AL004
                                DS AL004
                                DS AL004
                                DS AL004
                                DS H
LMLM_MODE DS HL001
    LMLM_EXCLUSIVE EQU 001
    LMLM_SHARED EQU 002
                                DS CL001
LMLM_LOCK_NAME DS CL008
LMLM_WAIT DS HL001
    LMLM_CICS EQU 001
    LMLM_NO EQU 002
                                DS CL001
DFHLMLM_LEN EQU ((( -DFHLMLM_ARG)+7)/8) 8
   THIS STRUCTURE DESCRIBES THE PARAMETER LIST FOR
            LMLM TYPE REQUESTS
   THESE ARE THE ENUMERATED VALUES TAKEN BY KEYWORD
```

Constants

Table 240.

Len	Type	value	Name	Description
1	DECIMAL	1	LMLM_ADD_LOCK	
1	DECIMAL	2	LMLM_DELETE_LOCK	
1	DECIMAL	3	LMLM_LOCK	
1	DECIMAL	4	LMLM_UNLOCK	
1	DECIMAL	8	LMLM_TEST_LOCK_OWNER	
1	DECIMAL	1	LMLM_OK	
1	DECIMAL	2	LMLM_EXCEPTION	
1	DECIMAL	3	LMLM_DISASTER	
1	DECIMAL	4	LMLM_INVALID	
1	DECIMAL	5	LMLM_KERNERROR	
1	DECIMAL	6	LMLM_PURGED	
1	DECIMAL	1	LMLM_LOCK_ TOKEN_NOT_FOUND	
1	DECIMAL	2	LMLM_SHARED_ LOCK_FREE	
1	DECIMAL	3	LMLM_NOT_LOCK_OWNER	

Table 240. (continued)

Len	Type	value	Name	Description
1	DECIMAL	4	LMLM_DUPLICATE_ LOCK_OWNER	
1	DECIMAL	5	LMLM_TOO_LATE	
1	DECIMAL	6	LMLM_LOCK_BUSY	
1	DECIMAL	7	LMLM_INVALID_ FUNCTION	
1	DECIMAL	8	LMLM_INSUFFICIENT_ STORAGE	
1	DECIMAL	9	LMLM_ABEND	
1	DECIMAL	10	LMLM_LOOP	
1	DECIMAL	11	LMLM_OWNER_ TOK_NOT_SPECIFIED	
1	DECIMAL	12	LMLM_OWNER_ TOKEN_SPECIFIED	
1	DECIMAL	13	LMLM_INLINE_FAIL	
1	DECIMAL	1	LMLM_EXCLUSIVE	
1	DECIMAL	2	LMLM_SHARED	
1	DECIMAL	1	LMLM_CICS	
1	DECIMAL	2	LMLM_NO	
!:erefstep.L2Lock_Public_Types ----------				
8	CHARACTER	LGChain	L2LM_CH_LOCK_NAME	
1	BIT	00000000	L2LM_LOCK_FREE	
1	BIT	10000000	L2LM_LOCK_HELD	
4	CHARACTER	ALG8	L2LM_CH_LOCK_ ERROR_CODE	
4	CHARACTER	ALG9	L2LM_CH_UNLOCK_ ERROR_CODE	
4	CHARACTER	AL2A	L2LM_DM_LOCK_ ERROR_CODE	
4	CHARACTER	AL2B	L2LM_DM_UNLOCK_ ERROR_CODE	
4	CHARACTER	AL2C	L2LM_SR_LOCK_ ERROR_CODE	
4	CHARACTER	AL2D	L2LM_SR_UNLOCK_ ERROR_CODE	
4	CHARACTER	AEXY	L2LM_LOCK_ PURGED_ERROR_CODE	
4	DECIMAL	1	L2LM_OK	
4	DECIMAL	2	L2LM_EXCEPTION	
4	DECIMAL	3	L2LM_DISASTER	
4	DECIMAL	6	L2LM_PURGED	

L2LT Log Manager Lock Tracker Class

```
!:refstep.L2LT_Class ---------------------------------- DFHL2LT 68 -
!
!
! What follows defines the Log Manager LockTracker class.
!
! Several Log Manager objects contain a lock. Such objects are
! Chains, Streams and Domain Manager. Under certain circumstances,
! notably when its recovery routine has been driven, a module that
! uses such an object needs to know whether a method it called has
! acquired the lock. This is so the lock can be released. It is
! therefore necessary to track the status of the lock. This requires
! knowing both the address of the object and whether the lock is
! held or not.
!
! This is achieved by declaring a LockTracker variable for each
! object lock the module is interested in. Each LockTracker must be
! explicitly initialised by the module using the l2lt_set_free
! method. Whenever the lock is acquired or released the LockTracker
! is automatically updated by the object using the l2lt_set_held and
! l2lt_set_free methods. If the module recovery routine is driven it
! must call the lock_release method of the object. This uses the
! l2lt_inq_status and l2lt_inq_token methods, and will only release
! the lock if the LockTracker indicates the lock is held.
!
! Only one Chain lock, one Stream lock and the Domain Manager lock
! may be tracked within a given module. This is because a
! LockTracker is not passed as a parameter to Stream or Chain.
!
!--------------------------------------------------------------------
!:refstep.L2LT_Class_Declaration ---------------------- DFHL2LT 114 -
!
! The LockTracker class has instance data but no class data.
!
!--------------------------------------------------------------------
```

Table 241.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	8	LOCKTRACKER	
!:refstep.L2LT_Instance_Data ------------------------- DFHL2LT 129 - ! ! An instance of the LockTracker class consists of a token to ! identify the object in question, plus the status of the lock. ! !--				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	8	INSTANCE_ DATA_BLOCK	
(0)	ADDRESS Prot	4	OBJECT_TOKEN	locates the object
(4)	BIT(8) Prot IsA(L2LM_LOCK_STATUS_TYPE)	1	LOCK_STATUS	object lock status
(5)	CHARACTER Prot	3	*	reserved

L2ME Log Manager Message Class

Table 242.

Offset Hex	Type	Len	Name (dim)	Description
(0)	Class Object IsA(L2ME_MESSAGE)	248	MESSAGE	
!:erefstep.L2ME_Private_Constants ---------- !:refstep.L2ME_Instance_Data ---------- DFHL2ME 265 - ! ! An instance of an l2me is just a message parameter list. ! !----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	248	INSTANCE_ DATA_BLOCK	
(0)	CHARACTER Prot	248	MEME_PARMS	

Constants

Table 243.

Len	Type	value	Name	Description

```
     Restricted Materials of IBM

     Structure generated for this format
       MEME
DFHMEME_ARG DSECT
     First the enumerated type fields
     Each name is assigned a numeric value
MEME_SEND_MESSAGE EQU 001
MEME_RETRIEVE_MESSAGE EQU 002
MEME_CONVERSE EQU 003
MEME_INQUIRE_MESSAGE_LENGTH EQU 004
MEME_INQUIRE_MESSAGE EQU 005
MEME_VALIDATE_LANGUAGE_CODE EQU 006
MEME_VALIDATE_LANGUAGE_SUFFIX EQU 007
MEME_OK EQU 001
MEME_EXCEPTION EQU 002
MEME_DISASTER EQU 003
MEME_INVALID EQU 004
MEME_KERNERROR EQU 005
MEME_PURGED EQU 006
MEME_REPLY_BUFFER_TOO_SMALL EQU 001
MEME_MSG_BUFFER_TOO_SMALL EQU 002
MEME_LANGUAGE_NOT_SUPPORTED EQU 003
MEME_LANGUAGE_CODE_INVALID EQU 004
MEME_LANGUAGE_SUFFIX_INVALID EQU 005
MEME_MESSAGE_NOT_FOUND EQU 006
MEME_MESSAGE_SET_NOT_FOUND EQU 007
MEME_MISSING_INSERT EQU 008
MEME_OPT_INSERT_NOT_FOUND EQU 009
MEME_INVALID_REPLY_BUFFER EQU 010
MEME_INVALID_MESSAGE_BUFFER EQU 011
MEME_REPLY_BUFFER_REQUIRED EQU 012
MEME_INVALID_FORMAT EQU 013
MEME_INVALID_FUNCTION EQU 014
MEME_INVALID_INSERT EQU 015
MEME_INVALID_DESTINATION EQU 016
MEME_INVALID_COMPONENT_TYPE EQU 017
MEME_REPLY_INDEX_REQUIRED EQU 018
MEME_INVALID_DBCS_FORMAT EQU 019
MEME_INVALID_MEFO_RESPONSE EQU 020
MEME_RETRY_MSG_LOCATE EQU 021
MEME_INVALID_MODULE_PTR EQU 022
MEME_INVALID_TEMPLATE EQU 023
MEME_MAX_REPLIES_EXCEEDED EQU 024
MEME_ABEND EQU 025
MEME_INSUFFICIENT_STORAGE EQU 026
MEME_NO_STORAGE_FOR_WTO EQU 027
MEME_EYU_TABLE_MISSING EQU 028
MEME_TDQ_PURGED EQU 029
MEME_YES EQU 001
MEME_NO EQU 002
MEME_VALUE EQU 001
MEME_TEXT_OR_VALUE EQU 002
MEME_TEXT EQU 003
     MEME Call structured parameter list
     - Includes a standard 16 byte header
MEME_HEAD DS 0CL16
MEME_PLISTLEN DS H LENGTH OF PLIST
                 DS H RESERVED FOR ID
MEME_FORMAT_NO DS F UNIQUE FORMAT NUMBER
MEME_VERSION_NO DS F VERSION NUMBER OF PLIST
MEME_RESERVED DS 0XL4 RESERVED
MEME_RES01 DS X
MEME_KERNHANDLE EQU X'80'
MEME_RES02 DS X
MEME_RES03 DS X
MEME_RES04 DS X
     EXISTENCE BITS
      The Existence Bits define which parameters
      are included in the request and/or response
```

Table 243. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	MEME_SEND_MESSAGE	
1	DECIMAL	2	MEME_RETRIEVE_ MESSAGE	
1	DECIMAL	3	MEME_CONVERSE	
1	DECIMAL	4	MEME_INQUIRE_ MESSAGE_LENGTH	
1	DECIMAL	5	MEME_INQUIRE_MESSAGE	
1	DECIMAL	6	MEME_VALIDATE_ LANGUAGE_CODE	
1	DECIMAL	7	MEME_VALIDATE_ LANGUAGE_SUFFIX	
1	DECIMAL	1	MEME_OK	
1	DECIMAL	2	MEME_EXCEPTION	
1	DECIMAL	3	MEME_DISASTER	
1	DECIMAL	4	MEME_INVALID	
1	DECIMAL	5	MEME_KERNERROR	
1	DECIMAL	6	MEME_PURGED	
1	DECIMAL	1	MEME_REPLY_ BUFFER_TOO_SMALL	
1	DECIMAL	2	MEME_MSG_ BUFFER_TOO_SMALL	
1	DECIMAL	3	MEME_LANGUAGE_ NOT_SUPPORTED	
1	DECIMAL	4	MEME_LANGUAGE_ CODE_INVALID	
1	DECIMAL	5	MEME_LANGUAGE_ SUFFIX_INVALID	
1	DECIMAL	6	MEME_MESSAGE_ NOT_FOUND	
1	DECIMAL	7	MEME_MESSAGE_ SET_NOT_FOUND	
1	DECIMAL	8	MEME_MISSING_INSERT	
1	DECIMAL	9	MEME_OPT_ INSERT_NOT_FOUND	
1	DECIMAL	10	MEME_INVALID_ REPLY_BUFFER	
1	DECIMAL	11	MEME_INVALID_ MESSAGE_BUFFER	
1	DECIMAL	12	MEME_REPLY_ BUFFER_REQUIRED	
1	DECIMAL	13	MEME_INVALID_FORMAT	
1	DECIMAL	14	MEME_INVALID_ FUNCTION	
1	DECIMAL	15	MEME_INVALID_INSERT	

Table 243. (continued)

Len	Type	value	Name	Description
1	DECIMAL	16	MEME_INVALID_ DESTINATION	
1	DECIMAL	17	MEME_INVALID_ COMPONENT_TYPE	
1	DECIMAL	18	MEME_REPLY_ INDEX_REQUIRED	
1	DECIMAL	19	MEME_INVALID_ DBCS_FORMAT	
1	DECIMAL	20	MEME_INVALID_ MEFO_RESPONSE	
1	DECIMAL	21	MEME_RETRY_ MSG_LOCATE	
1	DECIMAL	22	MEME_INVALID_ MODULE_PTR	
1	DECIMAL	23	MEME_INVALID_ TEMPLATE	
1	DECIMAL	24	MEME_MAX_ REPLIES_EXCEEDED	
1	DECIMAL	25	MEME_ABEND	
1	DECIMAL	26	MEME_INSUFFICIENT_ STORAGE	
1	DECIMAL	27	MEME_NO_STORAGE_ FOR_WTO	
1	DECIMAL	28	MEME_EYU_ TABLE_MISSING	
1	DECIMAL	29	MEME_TDQ_PURGED	
1	DECIMAL	1	MEME_YES	
1	DECIMAL	2	MEME_NO	
1	DECIMAL	1	MEME_VALUE	
1	DECIMAL	2	MEME_TEXT_OR_VALUE	
1	DECIMAL	3	MEME_TEXT	
!:erefstep.L2ME_Public_Types ---------- !:refstep.L2ME_Public_Constants ---------- DFHL2ME 137 - ! ! The following constants are used by L2 when communicating with ! L2ME. ! !----------				
4	DECIMAL	1	L2ME_MNO_ABEND	
8	CHARACTER	LG0001	L2ME_DCD_ABEND	
4	DECIMAL	2	L2ME_MNO_ SEVERE_ERROR	
8	CHARACTER	LG0002	L2ME_DCD_ SEVERE_ERROR	
4	DECIMAL	103	L2ME_MNO_ L2SL_START_SYSLOG	

Table 243. (continued)

Len	Type	value	Name	Description
4	DECIMAL	104	L2ME_MNO_ L2SL_FINISH_SYSLOG	
4	DECIMAL	730	L2ME_MNO_ L2SL_OPEN_DISASTER	
8	CHARACTER	LG0730	L2ME_DCD_ L2SL_OPEN_DISASTER	
4	DECIMAL	731	L2ME_MNO_ L2SL_OPEN_ERROR	
4	DECIMAL	733	L2ME_MNO_ L2SL_SMF_NOT_ALLOWED	
4	DECIMAL	734	L2ME_MNO_ L2SL_ACCESS_DISASTER	
8	CHARACTER	LG0734	L2ME_DCD_ L2SL_ACCESS_DISASTER	
4	DECIMAL	735	L2ME_MNO_ L2SL_LOST_ACCESS	
4	DECIMAL	736	L2ME_MNO_ L2SL_NO_DATA_READ	
4	DECIMAL	737	L2ME_MNO_ L2SL_BAD_BLOCK_ SIZE	
8	CHARACTER	LG0737	L2ME_DCD_ L2SL_BAD_BLOCK_ SIZE	
4	DECIMAL	738	L2ME_MNO_ L2SL_NO_DATA_RESTART	
4	DECIMAL	739	L2ME_MNO_ L2SL_ATTACH_FAIL	
8	CHARACTER	LG0739	L2ME_DCD_ L2SL_ATTACH_FAIL	
4	DECIMAL	740	L2ME_MNO_ L2SL_LOST_DATA	
4	DECIMAL	741	L2ME_MNO_ L2SL_SUSPEND	
4	DECIMAL	742	L2ME_MNO_ L2SR_LENGTH_ERROR	
4	DECIMAL	743	L2ME_MNO_ L2SR_PARTIAL_TRIM	
4	DECIMAL	744	L2ME_MNO_ L2SR_TOTAL_TRIM	
4	DECIMAL	745	L2ME_MNO_ L2CH_START_SCAN	
				BA14545A
4	DECIMAL	746	L2ME_MNO_ L2CH_TRIM_RECORD	
				BA14545A

Table 243. (continued)

Len	Type	value	Name	Description
4	DECIMAL	747	L2ME_MNO_ L2CH_EVERY_SO_ OFTEN	
				BA14545A
4	DECIMAL	748	L2ME_MNO_ L2CH_TURBO_MODE	
				BA14545A
4	DECIMAL	749	L2ME_MNO_ L2CH_END_SCAN	
				BA14545A
4	DECIMAL	760	L2ME_MNO_ L2CH_NO_DFHLOG_ TRIM	
				BA34528A
4	DECIMAL	770	L2ME_MNO_ L2HS_SMF_WRITE_ ERROR	
8	CHARACTER	LG0770	L2ME_DCD_ L2HS_SMF_WRITE_ ERROR	
4	DECIMAL	771	L2ME_MNO_ L2HS_MSL_RETRY_ WAITING	
4	DECIMAL	772	L2ME_MNO_ L2HS_MSL_EXCEPTION	
8	CHARACTER	LG0772	L2ME_DCD_ L2HS_MSL_EXCEPTION	
4	DECIMAL	773	L2ME_MNO_ L2HS_SEVERE_ERROR	
4	DECIMAL	774	L2ME_MNO_ L2HS_MSL_DIR_FULL	
4	DECIMAL	775	L2ME_MNO_ L2HS_MSL_WOW_WARNING	
4	DECIMAL	776	L2ME_MNO_ L2HS_MSL_DUPLEX_ ERR	
4	DECIMAL	777	L2ME_MNO_ L2HS_MSL_RETRY_ WAIT_SL	
4	DECIMAL	778	L2ME_MNO_ L2HS_MSL_NOSAFAUTH	
4	DECIMAL	779	L2ME_MNO_ L2HS_MSL_LOGSTREAMDELE	
4	DECIMAL	780	L2ME_MNO_ L2HS_MSL_POSSDATALOSS	
4	DECIMAL	781	L2ME_MNO_ L2HS_MSL_MAXSTREAMCONN	

Table 243. (continued)

Len	Type	value	Name	Description
4	DECIMAL	782	L2ME_MNO_ L2HS_MSL_XESSTRNOTAUTH	
4	DECIMAL	783	L2ME_MNO_ L2HS_MSL_BADMODELCONN	
4	DECIMAL	784	L2ME_MNO_ L2HS_MSL_DASDONLYCONN	
4	DECIMAL	785	L2ME_MNO_ L2HS_MSL_DOLSNOTSUPPED	
4	DECIMAL	786	L2ME_MNO_ L2HS_MSL_NOCF	
4	DECIMAL	787	L2ME_MNO_ L2BL_TRIMMED_BLOCK	
4	DECIMAL	788	L2ME_MNO_ L2SL_SAME_STREAM	
4	DECIMAL	789	L2ME_MNO_ L2HS_MSL_LOG_NOT_ DELETED	
8	CHARACTER	LG0787	L2ME_DCD_ L2BL_TRIMMED_BLOCK	
4	DECIMAL	800	L2ME_MNO_ L2BL_LOST_LOG_ DATA	
!:erefstep.L2ME_Public_Constants ---------- !:refstep.L2ME_Private_Constants ---------- DFHL2ME 254 - ! ! The following constants are used internally by L2ME. ! !----------				
2	CHARACTER	LG	COMPID	

L2RT Log Manager Record Token Class

```
!:refstep.L2RT_Class ---------- DFHL2RT 76 -
!
!
! What follows defines the Log Manager RecordToken class.
!
! A RecordToken provides a means of identifying the location of a
! log record that is being written to or read from a logstream. It
! consists of a pointer to the Block object for the block containing
! the record, and an index which gives the offset of the record
! within that block.
!
! A 'flattened' form of a RecordToken is also required, so that the
! information contained within a RecordToken may be stored in log
! records, and later unflattened when the record is read back. The
! FlatRecordToken is defined with the log formats in DFHL2LFC.
!
! Whenever a RecordToken is created (by building, copying or
! unflattening) we immediately register interest in it. This holds
! the Block, and means that the Block can not disappear from under
! our caller's feet. When our caller has finished with the
! RecordToken he must deregister interest, and we will release the
! hold on the Block. Releasing the last hold destroys the Block.
```

```
!
!--------------------------------------------------------------------
!:refstep.L2RT_Class_Declaration ---------------------- DFHL2RT 116 -
!
! The RecordToken class has instance data but no class data.
!
!--------------------------------------------------------------------
```

Table 244.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	24	RECORDTOKEN	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	
!:refstep.L2RT_Instance_Data ------------------------- DFHL2RT 138 - ! ! An instance of the RecordToken class consists of a pointer to the ! associated Block object, and an index which is the offset of the ! record within that block. Note that the largest size block that ! MVS allows is 64K bytes. ! ! A null RecordToken has no underlying Block and so has a null ! pointer and an index of zero. ! !--				
Declared Data				
(8)	STRUCTURE Prot	10	INSTANCE_ DATA_BLOCK	
(8)	ADDRESS Prot	4	BLOCK_PTR	pointer to Block object
(C)	UNSIGNED Prot	4	INDEX	offset within block
(10)	CHARACTER Prot	2	*	reserved

L2SL Log Manager System Log Class

```
!:refstep.L2SL_Class ---------------------------------- DFHL2SL 89 -
!
!
! What follows defines the Log Manager SystemLog class.
!
! The CICS system log consists of two MVS Logger logstreams, the
! primary (journal name DFHLOG) and the secondary (journal name
! DFHSHUNT). The SystemLog class knows which log stream objects are
! used for these (that is, which instances of the BrowseableStream
! class). It is responsible for opening the log streams at CICS
! startup, and for deleting all records from the log streams when
! CICS is cold started. It provides inquiry methods so other classes
! can obtain the tokens (actually BrLogStreamTokens) for the primary
! and secondary streams.
!
! It is possible for the user to define the primary and/or secondary
! stream as a dummy stream. If the primary is a dummy then this
! implies that the secondary is also a dummy (it does not make sense
! otherwise). A special dummy BrLogStreamToken is used to indicate
! that a stream is a dummy, and is returned by the inquiry method.
```

```
! It is the inquirer that decides upon the appropriate action to
! take.
!
! The SystemLog class owns the activity keypoint frequency
! (AKPFREQ). It provides methods for inquiring and setting its
! value. It also passes on the value of the activity keypoint
! frequency to the primary stream object. The activity keypoint
! frequency can be set at CICS startup and using the CICS API. If it
! is set at CICS startup and if the primary stream has not yet been
! opened, the call to the primary stream object is deferred until
! the open takes place.
!
! The SystemLog class must be notified of any failures that occur
! when writing critical data to or reading critical data from the
! primary or secondary stream. This normally results in a
! termination of CICS.
!
!--------------------------------------------------------------------
!:refstep.L2SL_Class_Declaration ---------------------- DFHL2SL 144 -
!
! The SystemLog class has no instance data as there are no instances
! of this class. All data is stored in class data and is accessed by
! class methods. It has both internal and external methods.
!
!--------------------------------------------------------------------
```

Table 245.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	4	SYSTEMLOG	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	
!:refstep.L2SL_Class_Data ---------------------------- DFHL2SL 170 - ! ! The SystemLog class data consists of the tokens for the primary ! and secondary streams, the activity keypoint frequency, the ! inhibit delete indicator, some deferred event indicators used when ! opening and deleting all records from the secondary stream and ! when passing on the activity keypoint frequency, and a flag that ! is set to indicate CICS is quiescing due to a lost data failure. ! ! The BrLogStreamToken for each stream can take one of the following ! values: ! ! - Null - the stream has not been opened ! ! - Dummy - the stream is defined as a dummy ! ! - A real BrLogStreamToken - the stream is real and was ! successfully opened ! !--				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	100	CLASSDATABLOCK	
(0)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	EYE_CATCHER	an eye-catcher

Table 245. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(2)	UNSIGNED Publ	2	L2_EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Publ	12	L2_EYE_STRING	'>DFHL2xxxxxx'
(10)	CHARACTER Prot	32	* (2)	
(10)	CHARACTER Prot	26	STREAM_NAME	log stream name
(2C)	ADDRESS Prot IsA(BRLOGSTREAMTOKEN)	4	STOKEN	token
(50)	UNSIGNED Prot	4	AKP_FREQUENCY	keypoint frequency
(54)	BIT(8) Prot	1	DEFER	deferred event flags
	1... .... Prot		OPEN_SECONDARY	open secondary
	.1.. .... Prot		DELETE_ SECONDARY	delete all secondary
	..1. .... Prot		PASS_AKP	pass akp frequency
	...1 1111 Prot		*	reserved
(55)	FIXED Prot IsA(L2_YESNO)	1	QUIESCING	CICS is quiescing?
(58)	OBJECT Prot IsA(L2LM)	4	ERROR_LOCK_ TOKEN	lock for serialising error processing
!:refstep.L2Lock_Instance_Data ----------------------- DFHL2LM 224 - ! ! An instance of an L2Lock is just a lock token. ! !----------				
(58)	CHARACTER Priv	4	INSTANCE_ DATA_BLOCK	
(58)	ADDRESS Priv IsA(L2LM_LOCK_TOKEN_TYPE)	4	LOCK_TOKEN	
(5C)	CHARACTER Prot	8	*	reserved
!:erefstep.L2SL_Class_Data ---------- !:refstep.L2SL_Types ---------- DFHL2SL 206 - ! ! Declare associated types. There is a type for the different ! failures that can occur to the system log, and a type for the ! different system log operations. ! !----------				
(0)	FIXED Publ	1	SYSLOGFAILURE	
(0)	FIXED Publ	1	SYSLOGOPERATION	

Constants

Table 246.

Len	Type	value	Name	Description
!:erefstep.L2SL_Types ---------- !:refstep.L2SL_Constants ---------- DFHL2SL 216 - ! ! Declare constants for the primary and secondary journal names, for ! null and dummy streams, for failures, for operations, and for ! activity keypoint range. ! !----------				
8	CHARACTER	DFHLOG	SL_PRIMARY	
8	CHARACTER	DFHSHUNT	SL_SECONDARY	
4	DECIMAL	0	NULL_LOGSTREAM_TOKEN	
4	DECIMAL	1	DUMMY_LOGSTREAM_ TOKEN	
1	DECIMAL	0	SLF_NONE	
1	DECIMAL	1	SLF_LOST_DATA	
1	DECIMAL	2	SLF_LOST_ACCESS	
1	DECIMAL	3	SLF_BAD_BLOCK_SIZE	
1	DECIMAL	4	SLF_DISASTER	
1	DECIMAL	5	SLF_DATA_NOT_FOUND	
1	DECIMAL	6	SLF_NOT_ACTIVE	
1	DECIMAL	7	SLF_SAME_STREAM	
1	DECIMAL	1	SLO_WRITE	
1	DECIMAL	2	SLO_READ	
1	DECIMAL	3	SLO_RESTART	
1	DECIMAL	4	SLO_QUERY	
4	DECIMAL	200	AKP_MIN	
4	DECIMAL	65535	AKP_MAX	
4	CHARACTER	AL2E	L2SL_LOCK_ ERROR_CODE	
4	CHARACTER	AL2F	L2SL_UNLOCK_ ERROR_CODE	

L2SR Log Manager Stream Class

```
!:refstep.L2SR_Class ---------- DFHL2SR 121 -
!
!
! What follows defines the Log Manager Stream class.
!
! A Stream object provides the ability to write data records to and
! read data records from an MVS Logger or SMF logstream. It provides
! a layer between the logstream user and the code that actually
! calls MVS. This layer is necessary to hide the details involved
! with writing to and reading from logstreams. In particular, it
! provides a record-level interface for the logstream user, and it
! hides various performance related techniques such as double
```

```
! buffering and deferred force of buffers.
!
! A logstream may be viewed as consisting of a number of blocks.
! These are the units by which data is written to the physical
! medium. A logstream will typically comprise a number of such
! blocks on the physical medium (referred to as +hard+), plus two
! buffers called +Current+ and +Previous+ which provide the double
! buffering when writing data (referred to as +soft+), plus possibly
! some +Read+ buffers used when reading blocks back from the
! logstream.
!
! A Block object represents an individual block on the hard stream
! or a buffer. A Stream object therefore cooperates with several
! Block objects when writing and reading data. However a Block is
! not independent of the Stream that it belongs to. A Block object
! requires some context information, primarily to implement its
! block numbering scheme. This context data is owned by Block, is
! held as part of a Stream object, and is passed to Block methods
! where appropriate.
!
! A General Log logstream is represented by a Stream object.
! However, a System Log logstream is more complex and is represented
! by a BrowseableStream object. The BrowseableStream class inherits
! from the Stream class, and so has all the properties of Stream
! declared here.
!
!---------------------------------------------------------------------
!:refstep.L2SR_Class_Declaration ---------------------- DFHL2SR 187 -
!
! The Stream class has both instance and class data. It has both
! internal and external methods.
!
!---------------------------------------------------------------------
```

Table 247.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	632	STREAM	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.L2SR_Instance_Data ------------------------- DFHL2SR 216 - ! ! An instance of Stream class consists of: ! ! - An eyecatcher. ! ! - A double chain link to other streams in the chain of all ! streams. ! ! - A stream lock which is used to manage concurrent requests made ! against the stream. Note that a Stream method requiring both the ! stream lock and the domain lock should acquire the stream lock ! first to prevent possible deadlock. ! ! - Two block-oriented data structures called StreamBlocks used for ! managing writes and deferred writes. At any given time one is ! for the Current block and the other is for the Previous block. ! ! - Pointers to the two StreamBlocks above. One identifies the ! Current, the other identifies the Previous. ! ! - The ForceToken currently associated with this stream. This is ! updated on every buffer switch. ! ! - The activity keypoint frequency of the stream, set to zero if ! activity keypoints do not apply, and an associated count which ! is used to monitor when activity keypoints are to be triggered. ! ! - Some context data which is owned by the Block class, and is ! passed to those Block methods that require it. ! ! - The HardStream object that is associated with this stream. ! ! - Whether the stream is an MVS Logger log or an SMF log. ! ! - The logstream name. This is for MVS Logger logs only. ! ! - The journal name. This is a real journal name for SMF logs, or ! is fabricated from the last qualifier of the logstream name for ! MVS Logger logs. ! ! - Whether the stream is for a System Log or General Log. ! ! - Some flags indicating progress through the initialization of a ! Stream object. ! ! - A flag indicating whether the deferred flush mechanism is active ! for the stream. ! ! - Various statistics for monitoring the number of tasks forced to ! wait while writing to the stream. ! !----------				
Declared Data				
(8)	STRUCTURE Prot	624	STREAM_ INSTANCE_DATA	
(8)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	EYE_CATCHER	an eye-catcher

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(A)	UNSIGNED Publ	2	L2_EYE_OFFSET	offset of eye-catcher in object
(C)	CHARACTER Publ	12	L2_EYE_STRING	'>DFHL2xxxxxx'
(18)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	STREAM_ CHAIN_LINK	link in global chain
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	UNSIGNED Prot	4	STREAM_ FORCE_TOKEN	
				Current force token
(2C)	OBJECT Prot IsA(L2LM)	4	L2LOCK	stream lock
!:refstep.L2Lock_Instance_Data ---------- DFHL2LM 224 - ! ! An instance of an L2Lock is just a lock token. ! !----------				
(2C)	CHARACTER Priv	4	INSTANCE_ DATA_BLOCK	
(2C)	ADDRESS Priv IsA(L2LM_LOCK_TOKEN_TYPE)	4	LOCK_TOKEN	
(30)	ADDRESS Prot	4	CURRENT	-> Current details
(34)	ADDRESS Prot	4	PREVIOUS	-> Previous details
(38)	STRUCTURE Prot IsA(STREAMBLOCK)	72	FIRST_BLOCK	Curr or Prev details
(38)	ADDRESS Prot	4	BLOCK_PTR	-> actual Block object
(3C)	UNSIGNED Prot	4	FORCE_TOKEN	force token for block
(40)	ADDRESS Prot	4	NEXT_BLOCK_PTR	-> next Block to be Current
(44)	CHARACTER Prot	4	BLOCK_OWNER	tran number of nominal owner

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	OBJECT Prot IsA(L2SQ)	48	SUSPEND_QUEUE	chain of suspended tasks
!:erefstep.L2SuspendQueue_Public_Constants ------------------------- !:refstep.L2SuspendQueue_Instance_Data ---------- DFHL2DS 878 - ! ! An instance of an L2SuspendQueue is just the anchor for a doubly ! linked chain of L2SuspendElements. ! !----------				
(48)	CHARACTER Priv	44	INSTANCE_ DATA_BLOCK	
				SuspendQueue
(48)	OBJECT Priv IsA(HOP_DCHAIN)	40	ANCHOR	
(48)	CHARACTER Priv	4	*	
(50)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(50)	CHARACTER Priv	4	*	
(58)	CHARACTER Prot	8	*	
(58)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(5C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(60)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(60)	CHARACTER Priv	4	*	
(68)	CHARACTER Prot	8	*	
(68)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(6C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(70)	CHARACTER Priv	4	OWNER	
(78)	UNSIGNED Prot IsA(BLOCKSTATUS)	1	STATUS	current status
(79)	CHARACTER Prot	7	*	
(80)	STRUCTURE Prot IsA(STREAMBLOCK)	72	SECOND_BLOCK	Curr or Prev details
(80)	ADDRESS Prot	4	BLOCK_PTR	-> actual Block object
(84)	UNSIGNED Prot	4	FORCE_TOKEN	force token for block

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	ADDRESS Prot	4	NEXT_BLOCK_PTR	-> next Block to be Current
(8C)	CHARACTER Prot	4	BLOCK_OWNER	tran number of nominal owner
(90)	OBJECT Prot IsA(L2SQ)	48	SUSPEND_QUEUE	chain of suspended tasks
(90)	CHARACTER Priv	44	INSTANCE_ DATA_BLOCK	
				SuspendQueue
(90)	OBJECT Priv IsA(HOP_DCHAIN)	40	ANCHOR	
(90)	CHARACTER Priv	4	*	
(98)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(98)	CHARACTER Priv	4	*	
(A0)	CHARACTER Prot	8	*	
(A0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(A4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(A8)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(A8)	CHARACTER Priv	4	*	
(B0)	CHARACTER Prot	8	*	
(B0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(B4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(B8)	CHARACTER Priv	4	OWNER	
(C0)	UNSIGNED Prot IsA(BLOCKSTATUS)	1	STATUS	current status
(C1)	CHARACTER Prot	7	*	
(C8)	UNSIGNED Prot	4	AKP_FREQUENCY	activity keypoint frequency
(CC)	SIGNED Prot	4	AKP_COUNT	take keypoint when count reaches zero
(D0)	CHARACTER Prot	5	BACKTRACK	progress flags

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(D0)	FIXED Prot IsA(L2_YESNO)	1	LOCK_ADDED	stream lock added?
(D1)	FIXED Prot IsA(L2_YESNO)	1	CHAINED	on global chain?
(D2)	FIXED Prot IsA(L2_YESNO)	1	CONNECTED	got hard stream?
(D3)	FIXED Prot IsA(L2_YESNO)	1	GOT_BLOCKS	got Curr and Prev?
(D4)	FIXED Prot IsA(L2_YESNO)	1	STATS_OK	gather stats?
(D5)	FIXED Prot IsA(L2_YESNO)	1	LOST_DATA_ WARNING	lost data signalled?
(D6)	FIXED Prot IsA(L2_YESNO)	1	SYSLOG	system log?
(D7)	UNSIGNED Prot	1	TYPE_OF_STREAM	MVS Logger or SMF?
(D8)	CHARACTER Prot	8	STREAM_JOURNAL	Journal name
(E0)	STRUCTURE Prot IsA(BLOCKCONTEXT)	32	BLOCK_CONTEXT	block context data owned by Block class
(E0)	CHARACTER Publ	8	CURR_BLOCK_NUM	block number of last block created
(E8)	CHARACTER Publ	8	LAST_BLOCK_ID	block id of last block written to MVS
(F0)	CHARACTER Publ	8	LAST_BLOCK_ TIME	creation time of last block written to MVS
(F8)	UNSIGNED Publ	1	*	
(F9)	UNSIGNED Publ	1	*	
(FA)	CHARACTER Publ	6	*	
(100)	CHARACTER Publ	0	*	
(100)	OBJECT Prot IsA(HARDSTREAM)	288	HARD_STREAM	HardStream object
(100)	CHARACTER Priv	4	*	

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.L2HS_Instance_Data ------------------------- DFHL2HS 178 - ! ! An instance of HardStream class consists of ! ! - An eyecatcher. ! ! This helps dump navigation. ! ! - A log stream name. ! ! This is the log stream name which denotes the MVS System Logger ! log stream on connect operation, which returns a log stream ! token. ! ! - A journal name. ! ! This is the journal name from the log stream name, used as the ! resource name when a task is suspended. ! ! - A log type. ! ! This is either 'mvs' or 'smf'. ! ! - A connected/disconnected indicator. ! ! When 'connected' the HardStream object is operational, and when ! 'disconnected' it has been disconnected and it about to be ! destroyed. ! ! - A System Log indicator. ! ! If 'Y' the log stream forms part of the System Log. ! ! - dasd_only(y/n) ! ! This flag indicates whether the log stream is of type DASDONLY ! or CF based. ! ! - structname ! ! If the log stream is CF based, this is the structure name used ! by the log stream, otherwise this is set to binary 0 (meaning ! not applicable). ! ! - retention_period ! ! The log stream retention period is the number in days that the ! data must be kept before it can be physically deleted by the MVS ! logger. ! ! - auto_delete ! ! Auto delete flag, if set to yes the MVS logger automatically ! deletes the data as it matures beyond the retention period, ! irrespective of any IXGDELET calls. If set to no the data is ! deleted when it matures beyond the retention period and an ! IXGDELET call has been issued. ! ! - A maximum block size. ! ! This is a constant, being the maximum block size allowed for the ! MVS System Logger log stream or MVS SMF log. ! ! - An MVS log stream token. ! ! This is the token that denotes the MVS Logger log stream at its ! interface. The MVS System Logger returns this value on the ! connect operation. ! ! - A buffer pointer.				

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(108)	CHARACTER Prot	280	INSTANCE_ DATA_BLOCK	
(108)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	EYE_CATCHER	an eye-catcher
(108)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(10A)	UNSIGNED Publ	2	L2_EYE_ OFFSET	offset of eye-catcher in object
(10C)	CHARACTER Publ	12	L2_EYE_ STRING	'>DFHL2xxxxxx'
(118)	CHARACTER Prot	26	MVS_STREAM_ NAME	MVS logstream name
(132)	CHARACTER Prot	8	JOURNAL_NAME	journal name
(13A)	UNSIGNED Prot	1	LOG_TYPE	log type - MVS or SMF
(13B)	UNSIGNED Prot IsA(L2_YESNO)	1	CONNECTED	connected?
(13C)	UNSIGNED Prot IsA(L2_YESNO)	1	SYSTEM_LOG	CICS system log ind
(13D)	UNSIGNED Prot IsA(L2_YESNO)	1	DASD_ONLY_ FLAG	DASD only flag
(13E)	CHARACTER Prot	16	STRUCTURE_ NAME	Structure name
(14E)	CHARACTER Prot	2	*	
(150)	SIGNED Prot	4	RETENTION_ PERIOD	
				Retention period
(154)	UNSIGNED Prot IsA(L2_YESNO)	1	AUTO_DELETE_ FLAG	
				Auto delete flag
(155)	CHARACTER Prot	3	*	
(158)	UNSIGNED Prot IsA(HSLENGTHBYTES)	4	MAX_BLOCK_ SIZE	max log block size
(15C)	CHARACTER Prot IsA(HSMVSSTREAMTOKEN)	16	MVS_STREAM_ TOKEN	
				MVS Logger token
(16C)	ADDRESS Prot	4	BUFFER_PTR	write buffer ptr
(170)	UNSIGNED Prot IsA(HSLENGTHBYTES)	4	BUFFER_LEN	write buffer length

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(174)	OBJECT Prot IsA(L2EC)	4	WRITE_ECB	block write ECB
!:erefstep.L2Ecb_Private_Constants ---------- !:refstep.L2Ecb_Instance_Data ---------- DFHL2DS 1557 - ! ! An instance of an L2Ecb is just an MVS format ECB. ! !----------				
(174)	CHARACTER Publ	4	INSTANCE_ DATA_BLOCK	
(174)	UNSIGNED Publ IsA(L2EC_MVSECB)	4	ECB	
(178)	CHARACTER Prot IsA(HSANSAREA)	40	WRITE_ANSA	ixgwrite answer area
(1A0)	CHARACTER Prot	8	CUR_BLOCK_ID	block id
(1A8)	CHARACTER Prot	16	CUR_TIMESTAMP	block timestamp
(1A8)	CHARACTER Prot	8	CUR_TIME_GMT	GMT time
(1B0)	CHARACTER Prot	8	CUR_TIME_ LOCAL	local time
(1B8)	UNSIGNED Prot IsA(L2_YESNO)	1	MSL_WARNING_ MSG	warning msg issued
(1B9)	UNSIGNED Prot IsA(L2_YESNO)	1	BROKEN_LOG	log in error flag
(1BA)	CHARACTER Prot	2	*	
(1BC)	SIGNED Prot IsA(L2_RESPONSE)	4	BROKEN_RSP	broken response
(1C0)	SIGNED Prot IsA(L2_REASON)	4	BROKEN_RSN	broken reason
(1C4)	SIGNED Prot IsA(L2_RESPONSE)	4	SMF_RESPONSE	SMF write response
(1C8)	SIGNED Prot IsA(L2_REASON)	4	SMF_REASON	SMF write reason
(1CC)	CHARACTER Prot	33	LOG_STREAM_ STATS	
				various statistics
(1CC)	SIGNED Prot	4	IXGWRITE_ COUNT	no of writes
(1D0)	BIT(64) Prot	8	IXGWRITE_ BYTES	no of bytes written
(1D8)	SIGNED Prot	4	RETRY_ERRCOUNT	no of retryable errors

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1DC)	SIGNED Prot	4	IXGBROST_ COUNT	no of browse starts
(1E0)	SIGNED Prot	4	IXGBRORD_ COUNT	no of browse reads
(1E4)	SIGNED Prot	4	IXGDELET_ COUNT	no of deletes
(1E8)	SIGNED Prot	4	IXGQUERY_ COUNT	no of queries
(1EC)	UNSIGNED Prot IsA(L2_YESNO)	1	RETRY_ERRCOUNT_ INC_DONE	
				to ensure stats only incremented once
(1ED)	CHARACTER Prot	7	*	
(1F8)	CHARACTER Prot	8	IXG_STCK	Timestamp of last call
(200)	CHARACTER Prot	8	IXGWRITE_STCK	IXGWRITE timestamp
(208)	UNSIGNED Prot	4	IXGWRITE_ LATENCY	
				IXGWRITE latency
(20C)	CHARACTER Prot	20	*	
(220)	CHARACTER Prot	26	LOGSTREAM_NAME	Logstream name
(23A)	CHARACTER Prot	2	*	reserved
(23C)	CHARACTER Prot	28	LOGSTREAM_STATS	Statistics
(23C)	SIGNED Prot	4	FORCE_WAITS_CU	current, peak and
(240)	SIGNED Prot	4	FORCE_WAITS_PK	total waiters for
(244)	SIGNED Prot	4	FORCE_WAITS_TO	Current buffer force
(248)	SIGNED Prot	4	BUF_FULL_WAITS	total waiters for Previous buffer write
(24C)	SIGNED Prot	4	BUF_APPENDS	No of buffer appends
(250)	CHARACTER Prot	8	*	reserved for stats
(258)	UNSIGNED Prot	4	*	Deferred force
(258)	FIXED Prot IsA(L2_YESNO)	1	DEFER_FORCE_ FLAG	active flag. 31 bits resvd.

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(25C)	CHARACTER Prot	4	*	
(260)	CHARACTER Prot	24	LOGSTREAM_ OPT_FIELDS	
				Wait optimiser
(260)	CHARACTER Prot	6	*	Reserved
(266)	CHARACTER Prot	8	INTERVAL_START	STCK of start
(266)	UNSIGNED Prot	2	START_HIGH	High order hword
(268)	UNSIGNED Prot	4	START_TIME	16 microsecond units
(26C)	CHARACTER Prot	2	*	Reserved
(26E)	CHARACTER Prot	2	*	Reserved
(270)	SIGNED Prot	4	LAST_FORCE_ TASK	Last forcing tsk
(274)	SIGNED Prot	4	AVERAGE_GAP	Average gap
(278)	CHARACTER Prot	0	*	round to double word
!:erefstep.L2SR_Instance_Data ---------- !:refstep.L2SR_Class_Data ---------- DFHL2SR 307 - ! ! The Stream class data consists of ! ! - An eyecatcher. ! ! - The anchor of a doubly-linked list of all Streams. ! ! - An object factory instance used to allocate Stream objects. ! ! - The current value of the deferred flush interval. ! !----------				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	128	CLASSDATABLOCK	
(0)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	CLASS_EYE_ CATCHER	an eye-catcher
(0)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(2)	UNSIGNED Publ	2	L2_EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Publ	12	L2_EYE_STRING	'>DFHL2xxxxxx'

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	OBJECT Prot IsA(HOP_DCHAIN)	40	GLOBAL_ STREAM_CHAIN	
				chain of Streams
Inherited Data				
(10)	CHARACTER Priv	4	*	
(18)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(28)	CHARACTER Priv	4	*	
(30)	CHARACTER Prot	8	*	
(30)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(34)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(38)	OBJECT Prot IsA(L2OF)	40	STREAM_FACTORY	Stream factory
!:erefstep.l2of_public_types ---------- !:refstep.l2of_instance_data ---------- DFHL2OF 219 - ! ! The instance data contains an eye-catcher, a subpool name, and a ! subpool token. The subpool name is used as a remark when ! allocating and freeing storage. It consists of the prefix 'L2OF' ! and a suffix which is the name of the object being managed. ! !----------				
(38)	CHARACTER Prot	40	INSTANCE_ DATA_BLOCK	
				L2OF instance data
(38)	STRUCTURE Prot IsA(L2_EYE_CATCHER)	16	OF_EYE_ CATCHER	eye-catcher
(38)	UNSIGNED Publ	2	L2_EYE_LEN	object length
(3A)	UNSIGNED Publ	2	L2_EYE_ OFFSET	offset of eye-catcher in object

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	CHARACTER Publ	12	L2_EYE_ STRING	'>DFHL2xxxxxx'
(48)	CHARACTER Prot	8	SUBPOOL_NAME	subpool name
(48)	CHARACTER Prot	4	SUBPOOL_ NAME_PREFIX	
				subpool name prefix
(4C)	CHARACTER Prot	4	SUBPOOL_ NAME_SUFFIX	
				subpool name suffix
(50)	CHARACTER Prot	8	SUBPOOL_TOKEN	subpool token
(58)	CHARACTER Prot	8	*	
(60)	UNSIGNED Prot	4	DEFER_FORCE_ INTERVAL	
				Current value
(64)	CHARACTER Prot	28	*	reserved
!:erefstep.L2SR_Class_Data ---------- !:refstep.L2SR_Types ---------- DFHL2SR 325 - ! ! Declare Stream associated types. There is a type for the token by ! which a Stream may be referred to, for the Stream view of a Block, ! for the state that this view may be in, and for an element used to ! identify a task that suspends while writing to Current or forcing ! Current or Previous. ! !----------				
(0)	ADDRESS Publ	4	LOGSTREAMTOKEN	
(0)	FIXED Publ	4	SRSTREAMSTATUS	
(0)	FIXED Prot	1	BLOCKSTATUS	

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.L2SR_StreamBlock_Type ---------- DFHL2SR 341 - ! ! Stream has its own view of a Block and the state it is in. Each ! Stream object contains two of these. At any given time, one will ! be for Current and the other will be for Previous. Each such ! StreamBlock contains: ! ! - A pointer to the actual corresponding Block object. ! ! - The current state of the block, which is used to manage the ! deferred force, write and wait protocols. ! ! - The ForceToken associated with the block. Stream also uses this ! to uniquely identify the block. It will be zero if no records ! have yet been appended. ! ! - When the block is in +flushed+ state, the pointer to the new ! Block object to be used as the new Current when the next buffer ! switch occurs. ! ! - The nominal owner of the block. This is set when deferring the ! force of the Current block or waiting for the Previous block to ! harden, and is the transaction number of the task performing the ! action. It is only for debugging purposes. ! ! - A queue of tasks which are suspended waiting for a force or ! write to complete for the block. ! !----------				
(0)	STRUCTURE Prot	72	STREAMBLOCK	
(0)	ADDRESS Prot	4	BLOCK_PTR	-> actual Block object
(4)	UNSIGNED Prot	4	FORCE_TOKEN	force token for block
(8)	ADDRESS Prot	4	NEXT_BLOCK_PTR	-> next Block to be Current
(C)	CHARACTER Prot	4	BLOCK_OWNER	tran number of nominal owner
(10)	OBJECT Prot IsA(L2SQ)	48	SUSPEND_QUEUE	chain of suspended tasks
(10)	CHARACTER Priv	44	INSTANCE_ DATA_BLOCK	
				SuspendQueue
(10)	OBJECT Priv IsA(HOP_DCHAIN)	40	ANCHOR	
(10)	CHARACTER Priv	4	*	
(18)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	

Table 247. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(28)	CHARACTER Priv	4	*	
(30)	CHARACTER Prot	8	*	
(30)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(34)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(38)	CHARACTER Priv	4	OWNER	
(40)	FIXED Prot IsA(BLOCKSTATUS)	1	STATUS	current status
(41)	CHARACTER Prot	7	*	

Constants

Table 248.

Len	Type	value	Name	Description
!:erefstep.L2SR_StreamBlock_Type ---------- !:erefstep.L2SR_Types ---------- !:refstep.L2SR_Public_Constants ---------- DFHL2SR 375 - ! ! The following constants are provided for users of Stream. ! !---------- the following reason codes are returned by l2sr_append:				
4	DECIMAL	1	BUFFER_FULL	
4	DECIMAL	2	AKP_KICK_OFF	
4	DECIMAL	4	BUFFER_LENGTH_ERROR	
4	DECIMAL	8	LOST_DATA	
4	DECIMAL	9	LOST_ACCESS	
the following reason codes are returned by l2sr_construct:				
4	DECIMAL	6	CONNECT_FAILURE	
4	DECIMAL	7	LOG_NOT_DEFINED	
the following reason codes are returned by l2sr_read:				
4	DECIMAL	3	DATA_NOT_FOUND	
4	DECIMAL	5	END_OF_DATA	
the following reason codes are returned by l2sr_set_deferred_force_interval:				

Table 248. (continued)

Len	Type	value	Name	Description
4	DECIMAL	11	OUT_OF_RANGE	
the following reason codes are returned by l2sr_start_read:				
4	DECIMAL	10	EMPTY_STREAM	
the following values are returned by l2sr_inq_stream_status				
4	DECIMAL	1	SR_USABLE	
4	DECIMAL	2	SR_USABLE2	
4	DECIMAL	3	SR_UNUSABLE	
!:erefstep.L2SR_Public_Constants ---------- !:refstep.L2SR_Private_Constants ---------- DFHL2SR 408 - ! ! The following constants are used internally by Stream. ! !---------- possible states that Stream can consider a Block to be in: - states applicable only when the Block is the Current:				
1	DECIMAL	1	RESET	
1	DECIMAL	2	DEFERRAL_ACTIVE	
1	DECIMAL	3	DEFERRAL_OVER	
- states applicable only when the Block is the Previous:				
1	DECIMAL	4	START_WRITE_ISSUED	
1	DECIMAL	5	START_WRITE_COMPLETE	
1	DECIMAL	6	WAIT_WRITE_ISSUED	
1	DECIMAL	7	FLUSHED	
null values:				
2	CHARACTER		NO_SOURCE	
8	CHARACTER		NO_JOURNAL	

L2TR Log Manager Trace Class *N8A

Table 249.

Offset Hex	Type	Len	Name (dim)	Description
(0)	Class Object IsA(L2TR_TRACE)	104	TRACE	

Table 249. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.l2vp_class_tracepoint_dcl ---------- !:refstep.l2lt_class_tracepoint_dcl ---------- DFHL2TR 575 - ! ! Use range 3Bxx for LockTracker class. ! !---------- !:erefstep.l2lt_class_tracepoint_dcl ---------- !:erefstep.L2TR_Trace_Point_Ids ---------- !:erefstep.L2TR_Public_Constants ---------- !:refstep.L2TR_Private_Constants ---------- DFHL2TR 1120 - ! ! The following constants are used internally by L2TR. ! !---------- !:erefstep.L2TR_Private_Constants ---------- !:refstep.L2TR_Instance_Data ---------- DFHL2TR 1129 - ! ! An instance of an l2tr_trace is just a trace parameter list. ! !----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	104	INSTANCE_ DATA_BLOCK	
(0)	CHARACTER Prot	104	TRPT_PARMS	

Constants

Table 250.

Len	Type	value	Name	Description

```
     Structure generated for this format
       TRPT
DFHTRPT_ARG DSECT
     First the enumerated type fields
     Each name is assigned a numeric value
TRPT_TRACE_PUT EQU 001
TRPT_OK EQU 001
TRPT_EXCEPTION EQU 002
TRPT_DISASTER EQU 003
TRPT_INVALID EQU 004
TRPT_KERNERROR EQU 005
TRPT_PURGED EQU 006
     TRPT Call structured parameter list
     - Includes a standard 16 byte header
TRPT_HEAD DS 0CL16
TRPT_PLISTLEN DS H LENGTH OF PLIST
                DS H RESERVED FOR ID
TRPT_FORMAT_NO DS F UNIQUE FORMAT NUMBER
TRPT_VERSION_NO DS F VERSION NUMBER OF PLIST
TRPT_RESERVED DS 0XL4 RESERVED
TRPT_RES01 DS X
TRPT_KERNHANDLE EQU X'80'
TRPT_RES02 DS X
TRPT_RES03 DS X
TRPT_RES04 DS X
     EXISTENCE BITS
      The Existence Bits define which parameters
      are included in the request and/or response
TRPT_EXISTENCE DS 0XL8
TRPT_XB01 DS X
TRPT_FUNCTION_X EQU X'80'
TRPT_RESPONSE_X EQU X'20'
TRPT_REASON_X EQU X'10'
TRPT_POINT_ID_X EQU X'04'
TRPT_DATA1_X EQU X'01'
TRPT_XB02 DS X
TRPT_DATA2_X EQU X'80'
TRPT_DATA3_X EQU X'40'
TRPT_DATA4_X EQU X'20'
TRPT_DATA5_X EQU X'10'
TRPT_DATA6_X EQU X'08'
TRPT_DATA7_X EQU X'04'
TRPT_RETURN_ADDR_X EQU X'02'
TRPT_DOMAIN_TOKEN_X EQU X'01'
TRPT_XB03 DS X
TRPT_XB04 DS X
TRPT_XB05 DS X
TRPT_XB06 DS X
TRPT_XB07 DS X
TRPT_XB08 DS X
     Actual KEYWORDS now follow with their
     respective enumerated types commented
TRPT_FUNCTION DS HL001
    TRPT_TRACE_PUT EQU 001
                                DS CL001
TRPT_RESPONSE DS HL001
    TRPT_OK EQU 001
    TRPT_EXCEPTION EQU 002
    TRPT_DISASTER EQU 003
    TRPT_INVALID EQU 004
    TRPT_KERNERROR EQU 005
    TRPT_PURGED EQU 006
TRPT_REASON DS HL001
                                DS CL008
TRPT_POINT_ID DS H
                                DS CL002
                                DS 0F FORCE ALIGNMENT
TRPT_DATA1 DS 0XL8
TRPT_DATA1_P DS A ADDRESS OF OBJECT
TRPT_DATA1_N DS F CURRENT NUMBER
```

Table 250. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	TRPT_TRACE_PUT	
1	DECIMAL	1	TRPT_OK	
1	DECIMAL	2	TRPT_EXCEPTION	
1	DECIMAL	3	TRPT_DISASTER	
1	DECIMAL	4	TRPT_INVALID	
1	DECIMAL	5	TRPT_KERNERROR	
1	DECIMAL	6	TRPT_PURGED	
!:erefstep.L2TR_Public_Types ---------- !:refstep.L2TR_Public_Constants ---------- DFHL2TR 135 - ! ! The following constants are used by L2 when communicating with ! L2TR. ! !---------- !:refstep.L2TR_Trace_Point_Ids ---------- DFHL2TR 145 - ! ! All the trace points for L2 are declared here. Refer to DFHL2TRI ! for further details about a particular trace point. ! !----------				
2	NUMB HEX	2001	L2TR_TID_L2LB_ENTRY	
2	NUMB HEX	2002	L2TR_TID_L2LB_EXIT	
2	NUMB HEX	2003	L2TR_TID_ L2LB_RECOVERY	
2	NUMB HEX	2004	L2TR_TID_ L2LB_INVALID_FORMAT	
2	NUMB HEX	2005	L2TR_TID_ L2LB_INVALID_FUNCTION	
2	NUMB HEX	2006	L2TR_TID_ L2LB_STREAM_LOCK_ FAIL	
2	NUMB HEX	2007	L2TR_TID_ L2LB_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	2008	L2TR_TID_ L2LB_UNKNOWN_KERN_ ERROR	
2	DECIMAL	8201	L2TR_TID_ L2LB_PURGED_ERROR_ CODE	
2	NUMB HEX	2101	L2TR_TID_L2CC_ENTRY	
2	NUMB HEX	2102	L2TR_TID_L2CC_EXIT	
2	NUMB HEX	2103	L2TR_TID_ L2CC_RECOVERY	
2	NUMB HEX	2104	L2TR_TID_ L2CC_INVALID_FORMAT	
2	NUMB HEX	2105	L2TR_TID_ L2CC_INVALID_FUNCTION	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	2106	L2TR_TID_ L2CC_STREAM_LOCK_ FAIL	
2	NUMB HEX	2107	L2TR_TID_ L2CC_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	2108	L2TR_TID_ L2CC_CHAIN_LOCK_ FAIL	
2	NUMB HEX	2109	L2TR_TID_ L2CC_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	210A	L2TR_TID_ L2CC_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2201	L2TR_TID_L2WF_ENTRY	
2	NUMB HEX	2202	L2TR_TID_L2WF_EXIT	
2	NUMB HEX	2203	L2TR_TID_ L2WF_RECOVERY	
2	NUMB HEX	2204	L2TR_TID_ L2WF_INVALID_FORMAT	
2	NUMB HEX	2205	L2TR_TID_ L2WF_INVALID_FUNCTION	
2	NUMB HEX	2206	L2TR_TID_ L2WF_STREAM_LOCK_ FAIL	
2	NUMB HEX	2207	L2TR_TID_ L2WF_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	2208	L2TR_TID_ L2WF_CHAIN_LOCK_ FAIL	
2	NUMB HEX	2209	L2TR_TID_ L2WF_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	220A	L2TR_TID_ L2WF_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2301	L2TR_TID_L2CB_ENTRY	
2	NUMB HEX	2302	L2TR_TID_L2CB_EXIT	
2	NUMB HEX	2303	L2TR_TID_ L2CB_RECOVERY	
2	NUMB HEX	2304	L2TR_TID_ L2CB_INVALID_FORMAT	
2	NUMB HEX	2305	L2TR_TID_ L2CB_INVALID_FUNCTION	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	2306	L2TR_TID_ L2CB_STREAM_LOCK_ FAIL	
2	NUMB HEX	2307	L2TR_TID_ L2CB_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	2308	L2TR_TID_ L2CB_CHAIN_LOCK_ FAIL	
2	NUMB HEX	2309	L2TR_TID_ L2CB_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	230A	L2TR_TID_ L2CB_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2401	L2TR_TID_L2BA_ENTRY	
2	NUMB HEX	2402	L2TR_TID_L2BA_EXIT	
2	NUMB HEX	2403	L2TR_TID_ L2BA_RECOVERY	
2	NUMB HEX	2404	L2TR_TID_ L2BA_INVALID_FORMAT	
2	NUMB HEX	2405	L2TR_TID_ L2BA_INVALID_FUNCTION	
2	NUMB HEX	2406	L2TR_TID_ L2BA_STREAM_LOCK_ FAIL	
2	NUMB HEX	2407	L2TR_TID_ L2BA_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	2408	L2TR_TID_ L2BA_CHAIN_LOCK_ FAIL	
2	NUMB HEX	2409	L2TR_TID_ L2BA_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	240A	L2TR_TID_ L2BA_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2501	L2TR_TID_L2MV_ENTRY	
2	NUMB HEX	2502	L2TR_TID_L2MV_EXIT	
2	NUMB HEX	2503	L2TR_TID_ L2MV_RECOVERY	
2	NUMB HEX	2504	L2TR_TID_ L2MV_INVALID_FORMAT	
2	NUMB HEX	2505	L2TR_TID_ L2MV_INVALID_FUNCTION	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	2506	L2TR_TID_ L2MV_STREAM_LOCK_ FAIL	
2	NUMB HEX	2507	L2TR_TID_ L2MV_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	2508	L2TR_TID_ L2MV_CHAIN_LOCK_ FAIL	
2	NUMB HEX	2509	L2TR_TID_ L2MV_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	250A	L2TR_TID_ L2MV_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2601	L2TR_TID_L2SR_ENTRY	
2	NUMB HEX	2602	L2TR_TID_L2SR_EXIT	
2	NUMB HEX	2603	L2TR_TID_ L2SR_RECOVERY	
2	NUMB HEX	2604	L2TR_TID_ L2SR_INVALID_FORMAT	
2	NUMB HEX	2605	L2TR_TID_ L2SR_INVALID_FUNCTION	
2	NUMB HEX	2701	L2TR_TID_L2HB_ENTRY	
2	NUMB HEX	2702	L2TR_TID_L2HB_EXIT	
2	NUMB HEX	2703	L2TR_TID_ L2HB_RECOVERY	
2	NUMB HEX	2704	L2TR_TID_ L2HB_INVALID_FORMAT	
2	NUMB HEX	2705	L2TR_TID_ L2HB_INVALID_FUNCTION	
2	NUMB HEX	2706	L2TR_TID_ L2HB_UNKNOWN_KERN_ ERROR	
2	NUMB HEX	2707	L2TR_TID_ L2HB_HEARTBEAT_ START_ERR	
2	NUMB HEX	2708	L2TR_TID_ L2HB_DSIT_INQ_ICV	
2	NUMB HEX	2709	L2TR_TID_ L2HB_HEARTBEAT_ INTERRUPT	
2	NUMB HEX	270A	L2TR_TID_ L2HB_DS_RESUME_ ERR	
2	NUMB HEX	270B	L2TR_TID_ L2HB_DS_SUSPEND_ ERR	

Table 250. (continued)

Len	Type	value	Name	Description
!:refstep.l2ch_class_tracepoint_dcl ------------------- DFHL2TR 355 - ! ! Use range 30xx for Chain class. ! !----------				
2	NUMB HEX	3010	L2TR_TID_L2CH1_ENTRY	
2	NUMB HEX	3011	L2TR_TID_L2CH1_EXIT	
2	NUMB HEX	3012	L2TR_TID_ L2CH1_NO_STG_FOR_ CLASS	
2	NUMB HEX	3013	L2TR_TID_ L2CH1_RECOVERY	
2	NUMB HEX	3018	L2TR_TID_L2CH2_ENTRY	
2	NUMB HEX	3019	L2TR_TID_L2CH2_EXIT	
2	NUMB HEX	301A	L2TR_TID_ L2CH2_INITIALIZE_ LOCK_FAILED	
2	NUMB HEX	301B	L2TR_TID_ L2CH2_DESTROY_ LOCK_FAILED	
2	NUMB HEX	301C	L2TR_TID_ L2CH2_RECOVERY	
2	NUMB HEX	301D	L2TR_TID_ L2CH2_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	301E	L2TR_TID_ L2CH2_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	301F	L2TR_TID_ L2CH2_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3020	L2TR_TID_L2CH3_ENTRY	
2	NUMB HEX	3021	L2TR_TID_L2CH3_EXIT	
2	NUMB HEX	3022	L2TR_TID_ L2CH3_INVALID_ IN_BROWSE_ALL	
2	NUMB HEX	3023	L2TR_TID_ L2CH3_RECOVERY	
2	NUMB HEX	3030	L2TR_TID_L2CH4_ENTRY	
2	NUMB HEX	3031	L2TR_TID_L2CH4_EXIT	
2	NUMB HEX	3032	L2TR_TID_ L2CH4_FORK_TO_ DUMMY	
2	NUMB HEX	3033	L2TR_TID_ L2CH4_INVALID_ RECORD_TYPE	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3034	L2TR_TID_ L2CH4_READ_BAD_ EXC	
2	NUMB HEX	3035	L2TR_TID_ L2CH4_RECOVERY	
2	NUMB HEX	3036	L2TR_TID_ L2CH4_STREAM_LOCK_ FAIL	
2	NUMB HEX	3037	L2TR_TID_ L2CH4_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	3038	L2TR_TID_ L2CH4_CHAIN_LOCK_ FAIL	
2	NUMB HEX	3039	L2TR_TID_ L2CH4_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	303A	L2TR_TID_ L2CH4_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3040	L2TR_TID_L2CH5_ENTRY	
2	NUMB HEX	3041	L2TR_TID_L2CH5_EXIT	
2	NUMB HEX	3042	L2TR_TID_ L2CH5_INVALID_ IN_BROWSE_ALL	
2	NUMB HEX	3043	L2TR_TID_ L2CH5_RECOVERY	
2	NUMB HEX	3050	L2TR_TID_L2CHA_ENTRY	
2	NUMB HEX	3051	L2TR_TID_L2CHA_EXIT	
2	NUMB HEX	3052	L2TR_TID_ L2CHA_RECOVERY	
2	NUMB HEX	3053	L2TR_TID_ L2CHA_STREAM_LOCK_ FAIL	
2	NUMB HEX	3054	L2TR_TID_ L2CHA_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	3055	L2TR_TID_ L2CHA_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3058	L2TR_TID_L2CHN_ENTRY	
2	NUMB HEX	3059	L2TR_TID_L2CHN_EXIT	
2	NUMB HEX	305A	L2TR_TID_ L2CHN_RECOVERY	
2	NUMB HEX	305B	L2TR_TID_ L2CHN_INVALID_ RECORD_TYPE	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	305C	L2TR_TID_ L2CHN_STREAM_LOCK_ FAIL	
2	NUMB HEX	305D	L2TR_TID_ L2CHN_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	305E	L2TR_TID_ L2CHN_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3060	L2TR_TID_L2CHL_ENTRY	
2	NUMB HEX	3061	L2TR_TID_L2CHL_EXIT	
2	NUMB HEX	3062	L2TR_TID_ L2CHL_RECOVERY	
2	NUMB HEX	3068	L2TR_TID_L2CHH_ENTRY	
2	NUMB HEX	3069	L2TR_TID_L2CHH_EXIT	
2	NUMB HEX	306A	L2TR_TID_ L2CHH_RECOVERY	
2	NUMB HEX	3070	L2TR_TID_L2CHG_ENTRY	
2	NUMB HEX	3071	L2TR_TID_L2CHG_EXIT	
2	NUMB HEX	3072	L2TR_TID_ L2CHG_RECOVERY	
2	NUMB HEX	3078	L2TR_TID_L2CHI_ENTRY	
2	NUMB HEX	3079	L2TR_TID_L2CHI_EXIT	
2	NUMB HEX	307A	L2TR_TID_ L2CHI_RECOVERY	
2	NUMB HEX	3080	L2TR_TID_L2CHR_ENTRY	
2	NUMB HEX	3081	L2TR_TID_L2CHR_EXIT	
2	NUMB HEX	3082	L2TR_TID_ L2CHR_RECOVERY	
2	NUMB HEX	3088	L2TR_TID_L2CHS_ENTRY	
2	NUMB HEX	3089	L2TR_TID_L2CHS_EXIT	
2	NUMB HEX	308A	L2TR_TID_ L2CHS_RECOVERY	
2	NUMB HEX	308B	L2TR_TID_ L2CHS_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	308C	L2TR_TID_ L2CHS_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	308D	L2TR_TID_ L2CHS_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3090	L2TR_TID_L2CHE_ENTRY	
2	NUMB HEX	3091	L2TR_TID_L2CHE_EXIT	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3092	L2TR_TID_ L2CHE_RECOVERY	
2	NUMB HEX	3093	L2TR_TID_ L2CHE_STREAM_LOCK_ FAIL	
2	NUMB HEX	3094	L2TR_TID_ L2CHE_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	3095	L2TR_TID_ L2CHE_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3098	L2TR_TID_L2CHM_ENTRY	
2	NUMB HEX	3099	L2TR_TID_L2CHM_EXIT	
2	NUMB HEX	309A	L2TR_TID_ L2CHM_RECOVERY	
2	NUMB HEX	309B	L2TR_TID_ L2CHM_STREAM_LOCK_ FAIL	
2	NUMB HEX	309C	L2TR_TID_ L2CHM_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	309D	L2TR_TID_ L2CHM_CHAIN_LOCK_ FAIL	
2	NUMB HEX	309E	L2TR_TID_ L2CHM_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	309F	L2TR_TID_ L2CHM_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	30B0	L2TR_TID_L2CHO_ENTRY	
2	NUMB HEX	30B1	L2TR_TID_L2CHO_EXIT	
2	NUMB HEX	30B2	L2TR_TID_ L2CHO_RECOVERY	
2	NUMB HEX	30B3	L2TR_TID_ L2CHO_STREAM_LOCK_ FAIL	
2	NUMB HEX	30B4	L2TR_TID_ L2CHO_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	30B5	L2TR_TID_ L2CHO_CHAIN_LOCK_ FAIL	
2	NUMB HEX	30B6	L2TR_TID_ L2CHO_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	30B7	L2TR_TID_ L2CHO_UNKNOWN_ KERN_ERROR	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	30B8	L2TR_TID_ L2CHO_INVALID_ RECORD_TYPE	
2	NUMB HEX	30C0	L2TR_TID_L2CHP_ENTRY	
2	NUMB HEX	30C1	L2TR_TID_L2CHP_EXIT	
2	NUMB HEX	30C2	L2TR_TID_ L2CHP_RECOVERY	
2	NUMB HEX	30C3	L2TR_TID_ L2CHP_STREAM_LOCK_ FAIL	
2	NUMB HEX	30C4	L2TR_TID_ L2CHP_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	30C5	L2TR_TID_ L2CHP_CHAIN_LOCK_ FAIL	
2	NUMB HEX	30C6	L2TR_TID_ L2CHP_CHAIN_UNLOCK_ FAIL	
2	NUMB HEX	30C7	L2TR_TID_ L2CHP_UNKNOWN_ KERN_ERROR	
!:erefstep.l2ch_class_tracepoint_dcl ---------- !:refstep.l2hp_class_tracepoint_dcl ---------- DFHL2TR 569 - ! ! Use range 31xx for HistoryPoint class. ! !---------- !:erefstep.l2hp_class_tracepoint_dcl ---------- !:refstep.l2rt_class_tracepoint_dcl ---------- DFHL2TR 581 - ! ! Use range 32xx for LockTracker class. ! !---------- !:erefstep.l2rt_class_tracepoint_dcl ---------- !:refstep.l2sl_class_tracepoint_dcl ---------- DFHL2TR 587 - ! ! Use range 33xx for SystemLog class. ! !----------				
2	NUMB HEX	3311	L2TR_TID_L2SL1_ENTRY	
2	NUMB HEX	3312	L2TR_TID_L2SL1_EXIT	
2	NUMB HEX	3313	L2TR_TID_ L2SL1_RECOVERY	
2	NUMB HEX	3314	L2TR_TID_ L2SL1_NO_STG_FOR_ CLASS	
2	NUMB HEX	3321	L2TR_TID_L2SLN_ENTRY	
2	NUMB HEX	3322	L2TR_TID_L2SLN_EXIT	
2	NUMB HEX	3323	L2TR_TID_ L2SLN_RECOVERY	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3324	L2TR_TID_ L2SLN_OPEN_FAIL	
2	NUMB HEX	3325	L2TR_TID_ L2SLN_OPEN_DISASTER	
2	NUMB HEX	3326	L2TR_TID_ L2SLN_SMF_NOT_ ALLOWED	
2	NUMB HEX	3327	L2TR_TID_ L2SLN_OPEN_ERROR	
2	NUMB HEX	3331	L2TR_TID_L2SLE_ENTRY	
2	NUMB HEX	3332	L2TR_TID_L2SLE_EXIT	
2	NUMB HEX	3333	L2TR_TID_ L2SLE_RECOVERY	
2	NUMB HEX	3334	L2TR_TID_ L2SLE_LOST_ACCESS	
2	NUMB HEX	3335	L2TR_TID_ L2SLE_LOST_DATA	
2	NUMB HEX	3336	L2TR_TID_ L2SLE_BAD_BLOCK_ SIZE	
2	NUMB HEX	3337	L2TR_TID_ L2SLE_ACCESS_DISASTER	
2	NUMB HEX	3338	L2TR_TID_ L2SLE_BAD_TOKEN	
2	NUMB HEX	3339	L2TR_TID_ L2SLE_SUSPEND_ FAIL	
2	NUMB HEX	333A	L2TR_TID_ L2SLE_DATA_NOT_ FOUND	
2	NUMB HEX	333B	L2TR_TID_ L2SLE_ATTACH_FAIL	
2	NUMB HEX	333C	L2TR_TID_ L2SLE_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	333D	L2TR_TID_ L2SLE_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	333E	L2TR_TID_ L2SLE_UNKNOWN_ KERN_ERROR	

```
!:erefstep.l2sl_class_tracepoint_dcl -------------------------------
!:refstep.l2sr_class_tracepoint_dcl ------------------- DFHL2TR 643 -
!
! Use range 34xx for Stream class. Use range 340x, 349x, 348x for
! internal methods.
!
!--------------------------------------------------------------------
```

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3401	L2TR_TID_ L2SRC_BAD_STREAM	
2	NUMB HEX	3402	L2TR_TID_ L2SRC_BAD_SWITCH_ STATE	
2	NUMB HEX	3403	L2TR_TID_ L2SRC_BAD_CURR_ STATE	
2	NUMB HEX	3404	L2TR_TID_ L2SRC_BAD_PREV_ STATE	
2	NUMB HEX	3405	L2TR_TID_ L2SRC_RESTORE_ FAIL	
2	NUMB HEX	3406	L2TR_TID_ L2SRC_READ_FAIL	
2	NUMB HEX	3407	L2TR_TID_ L2SRC_WAIT_WRITE_ FAIL	
2	NUMB HEX	3408	L2TR_TID_ L2SRC_BUFFER_LENGTH_ ERROR	
2	NUMB HEX	3409	L2TR_TID_ L2SRC_BUFFER_SWITCH_ EVENT	
2	NUMB HEX	340A	L2TR_TID_ L2SRC_APPEND_EVENT	
2	NUMB HEX	340B	L2TR_TID_ L2SRC_APPEND_RESULT_ EVENT	
2	NUMB HEX	340C	L2TR_TID_ L2SRC_FORCE_RESULT_ EVENT	
2	NUMB HEX	340D	L2TR_TID_ L2SRC_FORCE_CURR_ EVENT	
2	NUMB HEX	340E	L2TR_TID_ L2SRC_FORCE_PREV_ EVENT	
2	NUMB HEX	340F	L2TR_TID_ L2SRC_READ_RESULT_ EVENT	
2	NUMB HEX	3490	L2TR_TID_ L2SRC_START_READ_ RESULT	
2	NUMB HEX	3491	L2TR_TID_ L2SRC_START_READ_ EVENT	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3492	L2TR_TID_ L2SRC_END_READ_ EVENT	
2	NUMB HEX	3493	L2TR_TID_ L2SRC_DELETE_ALL_ EVENT	
2	NUMB HEX	3494	L2TR_TID_ L2SRC_RESTORE_ RESULT_EVENT	
2	NUMB HEX	3495	L2TR_TID_ L2SRC_SUSPEND_ EVENT	
2	NUMB HEX	3496	L2TR_TID_ L2SRC_SUSPEND_ DEFERRED_EVENT	
2	NUMB HEX	3497	L2TR_TID_ L2SRC_WAKEUP_EVENT	
2	NUMB HEX	3498	L2TR_TID_ L2SRC_WAKEUP_DEFERRED_ EVENT	
2	NUMB HEX	3499	L2TR_TID_ L2SRC_START_WRITE_ PREV_EVENT	
2	NUMB HEX	349A	L2TR_TID_ L2SRC_WAIT_WRITE_ PREV_EVENT	
2	NUMB HEX	349B	L2TR_TID_ L2SRC_DELETE_HISTORY_ EVENT	
2	NUMB HEX	349C	L2TR_TID_ L2SRC_READ_EVENT	
2	NUMB HEX	349D	L2TR_TID_ L2SRC_RESTORE_ EVENT	
2	NUMB HEX	349E	L2TR_TID_ L2SRC_FORCE_EVENT	
2	NUMB HEX	349F	L2TR_TID_ L2SRC_START_READ_ FAIL	
2	NUMB HEX	3480	L2TR_TID_ L2SRC_COLLECT_ STATS_EVENT	
2	NUMB HEX	3481	L2TR_TID_ L2SRC_RESET_STATS_ EVENT	
2	NUMB HEX	3411	L2TR_TID_L2SR1_ENTRY	
2	NUMB HEX	3412	L2TR_TID_L2SR1_EXIT	
2	NUMB HEX	3413	L2TR_TID_ L2SR1_RECOVERY	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3414	L2TR_TID_ L2SR1_NO_STG_FOR_ CLASS	
2	NUMB HEX	3421	L2TR_TID_L2SR2_ENTRY	
2	NUMB HEX	3422	L2TR_TID_L2SR2_EXIT	
2	NUMB HEX	3423	L2TR_TID_ L2SR2_RECOVERY	
2	NUMB HEX	3424	L2TR_TID_ L2SR2_CONNECT_ FAIL	
2	NUMB HEX	3425	L2TR_TID_ L2SR2_STREAM_UNLOCK_ FAIL	
2	NUMB HEX	3426	L2TR_TID_ L2SR2_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3427	L2TR_TID_ L2SR2_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	3428	L2TR_TID_ L2SR2_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	3431	L2TR_TID_L2SR3_ENTRY	
2	NUMB HEX	3432	L2TR_TID_L2SR3_EXIT	
2	NUMB HEX	3433	L2TR_TID_ L2SR3_RECOVERY	
2	NUMB HEX	3434	L2TR_TID_ L2SR3_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	3435	L2TR_TID_ L2SR3_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	3436	L2TR_TID_ L2SR3_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3441	L2TR_TID_L2SR4_ENTRY	
2	NUMB HEX	3442	L2TR_TID_L2SR4_EXIT	
2	NUMB HEX	3443	L2TR_TID_ L2SR4_RECOVERY	
2	NUMB HEX	3444	L2TR_TID_ L2SR4_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	3445	L2TR_TID_ L2SR4_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	3446	L2TR_TID_ L2SR4_UNKNOWN_ KERN_ERROR	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3447	L2TR_TID_ L2SR4_BAD_STATS_ BUFFER	
2	NUMB HEX	3451	L2TR_TID_L2SR5_ENTRY	
2	NUMB HEX	3452	L2TR_TID_L2SR5_EXIT	
2	NUMB HEX	3453	L2TR_TID_ L2SR5_RECOVERY	
2	NUMB HEX	3454	L2TR_TID_ L2SR5_STREAM_LOCK_ FAIL	
2	NUMB HEX	3455	L2TR_TID_ L2SR5_UNKNOWN_ KERN_ERROR	
!:erefstep.l2sr_class_tracepoint_dcl ------------------------------- !:refstep.l2bs_class_tracepoint_dcl ------------------- DFHL2TR 777 - ! ! Use range 35xx for BrowseableStream class. ! !--				
2	NUMB HEX	3501	L2TR_TID_ L2BSC_APPEND_EVENT	
2	NUMB HEX	3502	L2TR_TID_ L2BSC_APPEND_RESULT_ EVENT	
2	NUMB HEX	3503	L2TR_TID_ L2BSC_READ_EVENT	
2	NUMB HEX	3504	L2TR_TID_ L2BSC_READ_RESULT_ EVENT	
2	NUMB HEX	3505	L2TR_TID_ L2BSC_RESTORE_ EVENT	
2	NUMB HEX	3506	L2TR_TID_ L2BSC_RESTORE_ RESULT_EVENT	
2	NUMB HEX	3507	L2TR_TID_ L2BSC_START_BROWSE_ EVENT	
2	NUMB HEX	3508	L2TR_TID_ L2BSC_END_BROWSE_ EVENT	
2	NUMB HEX	3511	L2TR_TID_L2BS1_ENTRY	
2	NUMB HEX	3512	L2TR_TID_L2BS1_EXIT	
2	NUMB HEX	3513	L2TR_TID_ L2BS1_RECOVERY	
2	NUMB HEX	3514	L2TR_TID_ L2BS1_NO_STG_FOR_ CLASS	
2	NUMB HEX	3521	L2TR_TID_L2BS2_ENTRY	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3522	L2TR_TID_L2BS2_EXIT	
2	NUMB HEX	3523	L2TR_TID_ L2BS2_RECOVERY	
2	NUMB HEX	3524	L2TR_TID_ L2BS2_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	3525	L2TR_TID_ L2BS2_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	3526	L2TR_TID_ L2BS2_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3531	L2TR_TID_L2BS3_ENTRY	
2	NUMB HEX	3532	L2TR_TID_L2BS3_EXIT	
2	NUMB HEX	3533	L2TR_TID_ L2BS3_RECOVERY	
2	NUMB HEX	3534	L2TR_TID_ L2BS3_DOMAIN_LOCK_ FAIL	
2	NUMB HEX	3535	L2TR_TID_ L2BS3_DOMAIN_UNLOCK_ FAIL	
2	NUMB HEX	3536	L2TR_TID_ L2BS3_UNKNOWN_ KERN_ERROR	
2	NUMB HEX	3541	L2TR_TID_L2BS4_ENTRY	
2	NUMB HEX	3542	L2TR_TID_L2BS4_EXIT	
2	NUMB HEX	3543	L2TR_TID_ L2BS4_RECOVERY	
2	NUMB HEX	3544	L2TR_TID_ L2BS4_STREAM_LOCK_ FAIL	
2	NUMB HEX	3545	L2TR_TID_ L2BS4_UNKNOWN_ KERN_ERROR	
!:erefstep.l2bs_class_tracepoint_dcl ------------------------------- !:refstep.l2hs_class_tracepoint_dcl ------------------- DFHL2TR 898 - ! ! Use range 37xx for HardStream class. ! !--				
2	NUMB HEX	3700	L2TR_TID_ L2HSC_GET_CUR_ BLOCK_BEFORE	
2	NUMB HEX	3701	L2TR_TID_ L2HSC_GET_CUR_ BLOCK_AFTER	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3702	L2TR_TID_ L2HSC_COLLECT_ STATS	
2	NUMB HEX	3703	L2TR_TID_ L2HSC_RESET_STATS	
2	NUMB HEX	3710	L2TR_TID_ L2HS2_SEVERE_ERROR_ EXC	
2	NUMB HEX	3711	L2TR_TID_ L2HS2_CONNECT_ BEFORE	
2	NUMB HEX	3712	L2TR_TID_ L2HS2_CONNECT_ AFTER	
2	NUMB HEX	3713	L2TR_TID_ L2HS2_IXGCONN_ BEFORE	
2	NUMB HEX	3714	L2TR_TID_ L2HS2_IXGCONN_ AFTER	
2	NUMB HEX	3715	L2TR_TID_ L2HS2_CONNECT_EXC	
2	NUMB HEX	3716	L2TR_TID_ L2HS2_IXGCONN_ AFTER_MORE	
2	NUMB HEX	3720	L2TR_TID_ L2HS3_SEVERE_ERROR_ EXC	
2	NUMB HEX	3721	L2TR_TID_ L2HS3_DISCONNECT_ BEFORE	
2	NUMB HEX	3722	L2TR_TID_ L2HS3_DISCONNECT_ AFTER	
2	NUMB HEX	3723	L2TR_TID_ L2HS3_IXGDISC_ BEFORE	
2	NUMB HEX	3724	L2TR_TID_ L2HS3_IXGDISC_ AFTER	
2	NUMB HEX	3725	L2TR_TID_ L2HS3_DISCONNECT_ EXC	
2	NUMB HEX	3730	L2TR_TID_ L2HS4_SEVERE_ERROR_ EXC	
2	NUMB HEX	3731	L2TR_TID_ L2HS4_DELETEALL_ BEFORE	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3732	L2TR_TID_ L2HS4_DELETEALL_ AFTER	
2	NUMB HEX	3733	L2TR_TID_ L2HS4_IXGDELALL_ BEFORE	
2	NUMB HEX	3734	L2TR_TID_ L2HS4_IXGDELALL_ AFTER	
2	NUMB HEX	3735	L2TR_TID_ L2HS4_DELETEALL_ EXC	
2	NUMB HEX	3740	L2TR_TID_ L2HS5_SEVERE_ERROR_ EXC	
2	NUMB HEX	3741	L2TR_TID_ L2HS5_DELETERAN_ BEFORE	
2	NUMB HEX	3742	L2TR_TID_ L2HS5_DELETERAN_ AFTER	
2	NUMB HEX	3743	L2TR_TID_ L2HS5_IXGDELRAN_ BEFORE	
2	NUMB HEX	3744	L2TR_TID_ L2HS5_IXGDELRAN_ AFTER	
2	NUMB HEX	3745	L2TR_TID_ L2HS5_DELETERAN_ EXC	
2	NUMB HEX	3750	L2TR_TID_ L2HSF_SEVERE_ERROR_ EXC	
2	NUMB HEX	3751	L2TR_TID_ L2HSC_START_WRITE_ BEFORE	
2	NUMB HEX	3752	L2TR_TID_ L2HSC_START_WRITE_ AFTER	
2	NUMB HEX	3753	L2TR_TID_ L2HSC_WAIT_WRITE_ BEFORE	
2	NUMB HEX	3754	L2TR_TID_ L2HSC_WAIT_WRITE_ AFTER	
2	NUMB HEX	3755	L2TR_TID_ L2HSF_WRITE_RETRY_ BEFORE	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3756	L2TR_TID_ L2HSF_WRITE_RETRY_ AFTER	
2	NUMB HEX	3757	L2TR_TID_ L2HSC_IXGWRITE_ BEFORE	
2	NUMB HEX	3758	L2TR_TID_ L2HSF_IXGWRITE_ BEFORE	
2	NUMB HEX	3759	L2TR_TID_ L2HSC_IXGWRITE_ AFTER	
2	NUMB HEX	375A	L2TR_TID_ L2HSF_IXGWRITE_ AFTER	
2	NUMB HEX	375B	L2TR_TID_ L2HSF_IXGWRITE_ EXC	
2	NUMB HEX	375C	L2TR_TID_ L2HSC_SMF_WRITE_ BEFORE	
2	NUMB HEX	375D	L2TR_TID_ L2HSC_SMF_WRITE_ AFTER	
2	NUMB HEX	375E	L2TR_TID_ L2HSC_SMF_WRITE_ EXC	
2	NUMB HEX	375F	L2TR_TID_ L2HSC_IXGQUERY_ AFTER	
2	NUMB HEX	3760	L2TR_TID_ L2HS7_SEVERE_ERROR_ EXC	
2	NUMB HEX	3761	L2TR_TID_ L2HS7_START_BLOCK_ BEFORE	
2	NUMB HEX	3762	L2TR_TID_ L2HS7_START_BLOCK_ AFTER	
2	NUMB HEX	3763	L2TR_TID_ L2HS7_IXGSTRBLK_ BEFORE	
2	NUMB HEX	3764	L2TR_TID_ L2HS7_IXGSTRBLK_ AFTER	
2	NUMB HEX	3765	L2TR_TID_ L2HS7_START_BLOCK_ EXC	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3770	L2TR_TID_ L2HS8_SEVERE_ERROR_ EXC	
2	NUMB HEX	3771	L2TR_TID_ L2HS8_READ_BLOCK_ BEFORE	
2	NUMB HEX	3772	L2TR_TID_ L2HS8_READ_BLOCK_ AFTER	
2	NUMB HEX	3773	L2TR_TID_ L2HS8_IXGREDBLK_ BEFORE	
2	NUMB HEX	3774	L2TR_TID_ L2HS8_IXGREDBLK_ AFTER	
2	NUMB HEX	3775	L2TR_TID_ L2HS8_READ_BLOCK_ EXC	
2	NUMB HEX	3780	L2TR_TID_ L2HS9_SEVERE_ERROR_ EXC	
2	NUMB HEX	3781	L2TR_TID_ L2HS9_END_BLOCK_ BEFORE	
2	NUMB HEX	3782	L2TR_TID_ L2HS9_END_BLOCK_ AFTER	
2	NUMB HEX	3783	L2TR_TID_ L2HS9_IXGENDBLK_ BEFORE	
2	NUMB HEX	3784	L2TR_TID_ L2HS9_IXGENDBLK_ AFTER	
2	NUMB HEX	3785	L2TR_TID_ L2HS9_END_BLOCK_ EXC	
2	NUMB HEX	3790	L2TR_TID_ L2HS6_SEVERE_ERROR_ EXC	
2	NUMB HEX	3791	L2TR_TID_ L2HS6_START_CURSOR_ BEFORE	
2	NUMB HEX	3792	L2TR_TID_ L2HS6_START_CURSOR_ AFTER	
2	NUMB HEX	3793	L2TR_TID_ L2HS6_IXGSTRCRS_ BEFORE	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3794	L2TR_TID_ L2HS6_IXGSTRCRS_ AFTER	
2	NUMB HEX	3795	L2TR_TID_ L2HS6_START_CURSOR_ EXC	
2	NUMB HEX	37A0	L2TR_TID_ L2HSG_SEVERE_ERROR_ EXC	
2	NUMB HEX	37A1	L2TR_TID_ L2HSG_READ_CURSOR_ BEFORE	
2	NUMB HEX	37A2	L2TR_TID_ L2HSG_READ_CURSOR_ AFTER	
2	NUMB HEX	37A3	L2TR_TID_ L2HSG_IXGREDCRS_ BEFORE	
2	NUMB HEX	37A4	L2TR_TID_ L2HSG_IXGREDCRS_ AFTER	
2	NUMB HEX	37A5	L2TR_TID_ L2HSG_READ_CURSOR_ EXC	
2	NUMB HEX	37B0	L2TR_TID_ L2HSJ_SEVERE_ERROR_ EXC	
2	NUMB HEX	37B1	L2TR_TID_ L2HSJ_END_CURSOR_ BEFORE	
2	NUMB HEX	37B2	L2TR_TID_ L2HSJ_END_CURSOR_ AFTER	
2	NUMB HEX	37B3	L2TR_TID_ L2HSJ_IXGENDCRS_ BEFORE	
2	NUMB HEX	37B4	L2TR_TID_ L2HSJ_IXGENDCRS_ AFTER	
2	NUMB HEX	37B5	L2TR_TID_ L2HSJ_END_CURSOR_ EXC	
!:erefstep.l2hs_class_tracepoint_dcl ------------------------------ !:refstep.l2bl_class_tracepoint_dcl ------------------- DFHL2TR 842 - ! ! Use range 36xx for Block class. ! !--				
2	NUMB HEX	3601	L2TR_TID_L2BL1_ENTRY	
2	NUMB HEX	3602	L2TR_TID_L2BL1_EXIT	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3603	L2TR_TID_ L2BL1_RECOVERY	
2	NUMB HEX	3604	L2TR_TID_ L2BL1_NO_STG_FOR_ CLASS	
2	NUMB HEX	3605	L2TR_TID_ L2BLC_SOR_WRITE_ FAILED	
2	NUMB HEX	3607	L2TR_TID_ L2BLC_NO_STG_FOR_ BUFFER	
2	NUMB HEX	3608	L2TR_TID_ L2BLC_NO_STG_FOR_ CURSOR	
2	NUMB HEX	3609	L2TR_TID_ L2BLC_READ_ILLOGIC	
2	NUMB HEX	360A	L2TR_TID_ L2BLC_READ_EVENT	
2	NUMB HEX	360B	L2TR_TID_ L2BLC_READ_RESULT	
2	NUMB HEX	360C	L2TR_TID_L2BL2_ENTRY	
2	NUMB HEX	360D	L2TR_TID_L2BL2_EXIT	
2	NUMB HEX	360E	L2TR_TID_ L2BL2_RECOVERY	
2	NUMB HEX	360F	L2TR_TID_ L2BL2_RESTORE_ FAIL	
2	NUMB HEX	3610	L2TR_TID_ L2BLC_HOLD_EVENT	
2	NUMB HEX	3611	L2TR_TID_ L2BLC_RELEASE_ EVENT	
2	NUMB HEX	3612	L2TR_TID_ L2BLC_UNFLATTEN_ EVENT	
2	NUMB HEX	3613	L2TR_TID_ L2BLC_APPEND_EVENT	
2	NUMB HEX	3614	L2TR_TID_ L2BLC_START_READ_ EVENT	
2	NUMB HEX	3615	L2TR_TID_ L2BLC_END_READ_ EVENT	
2	NUMB HEX	3616	L2TR_TID_ L2BLC_START_WRITE_ EVENT	
2	NUMB HEX	3617	L2TR_TID_ L2BLC_WAIT_WRITE_ EVENT	

Table 250. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	3618	L2TR_TID_ L2BLC_WAIT_WRITE_ RESULT	
2	NUMB HEX	3619	L2TR_TID_ L2BLC_TRIMMED_ BLOCK_EXC	
2	NUMB HEX	3620	L2TR_TID_ L2BLC_LOST_LOG_ BLOCK_EXC	
!:erefstep.l2bl_class_tracepoint_dcl ---------- !:refstep.l2dm_class_tracepoint_dcl ---------- DFHL2TR 1077 - ! ! Use range 38xx for L2DM class. ! !----------				
2	NUMB HEX	3801	L2TR_TID_L2DM_ENTRY	
2	NUMB HEX	3802	L2TR_TID_L2DM_EXIT	
2	NUMB HEX	3803	L2TR_TID_ L2DM_RECOVERY	
2	NUMB HEX	3804	L2TR_TID_ L2DM_INVALID_FORMAT	
2	NUMB HEX	3805	L2TR_TID_ L2DM_INVALID_FUNCTION	
!:erefstep.l2dm_class_tracepoint_dcl ---------- !:refstep.l2of_class_tracepoint_dcl ---------- DFHL2TR 1093 - ! ! Use range 39xx for L2OF class. ! !----------				
2	NUMB HEX	3901	L2TR_TID_L2OFI_ENTRY	
2	NUMB HEX	3902	L2TR_TID_L2OFI_EXIT	
2	NUMB HEX	3903	L2TR_TID_ L2OFI_RECOVERY	
!:erefstep.l2of_class_tracepoint_dcl ---------- !:refstep.l2vp_class_tracepoint_dcl ---------- DFHL2TR 1105 - ! ! Use range 3Axx for L2OF class. ! !----------				
2	NUMB HEX	3A01	L2TR_TID_L2VP1_ENTRY	
2	NUMB HEX	3A02	L2TR_TID_L2VP1_EXIT	
2	NUMB HEX	3A03	L2TR_TID_ L2VP1_RECOVERY	

LDCBS Loader Domain Control Blocks

```
Segment Name = DFHLDCBS
DESCRIPTIVE NAME  = CICS Loader (LD) Domain
                    Control Block declarations.

Restricted Materials of IBM
```

```
Function =
     This file contains the control block and constant
     declarations used by the Loader domain.
     The file is included by each Loader domain
     module.
     The control blocks are:
         APE - Active Program Element.
         BLDL - BLDL PARAMETER LIST.
         CPE - Current Program Element.
         CSECTL - CSECT LIST BLOCK AND ENTRY.
         DUMMY_CDE - used by SLD
         DUMMY_XTLST - used by SLD
         DUMP - LOADER DUMP CODES.
         GLOBAL - Loader global storage area.
         LAFPB - LOADER AUTHORISED FACILITIES PARAMETER BLOCK.
         LDBE - Loader Domain Browse Element.
         LDWE - Loader Domain Wait Element.
         LOB - LOADER OPTION BLOCK.
         MSGS - LOADER MESSAGE NUMBERS.
         PDB - Program Descriptor Block.
         PLDB - Program Library Descriptor Block.
         PLIBE - Program Library Element.
         PSCHT - Program Search Table
         TRACE - Trace point definitions.
     Each control block declaration is followed by the
     constant declarations related to it.
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = domain standard (no special usage)
 Patch Label = N/A
 Module Type = N/A
 Attributes = N/A
-------------------------------------------------------------------
A P E - ACTIVE PROGRAM ELEMENT
-----
For each instance of a program currently loaded there will be a
associated APE. A program instance is associated with it's
definition by chaining the APE to the CPE (Current Program
Element).
```

Table 251.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	152	APE	
(0)	CHARACTER	48	APE_PREFIX	
(0)	UNSIGNED	2	APE_LENGTH	APE control block length
(2)	CHARACTER	1	APE_ARROW	Control Block eyecatcher
(3)	CHARACTER	3	APE_DFH	
(6)	CHARACTER	2	APE_DOMAIN	
(8)	CHARACTER	8	APE_BLOCK_ID	
(10)	CHARACTER	8	APE_PROGRAM_NAME	Program name

Table 251. (continued)

Offset Hex	Type	Len	Name (dim)	Description
APE Chain Fields, there are three APE chains: 1.The Global APE chain which is anchored in LD Global. This contains all the APEs in the system in ascending order of entry point. 2.The CPE/APE chain which is anchored in the CPE. This chains all the instances of a program to the program definition. The most recently acquired instance is at the head of the chain. 3.The APE Not-In-Use (NIU) chain which is anchored in LD Global This contains all the APEs in the system which have a use count of zero and are defined as REUSABLE. During program compression these programs are eligible to be removed. APEs are added to the head of the chain and only removed if the program is freemained or reused.				
(18)	CHARACTER	24	APE_CHAIN_ FIELDS	APE chain fields.
(18)	ADDRESS	4	APE_NEXT	-> next APE in Global APE chain.
(1C)	ADDRESS	4	APE_PRIOR	-> previous APE in Global APE chain.
(20)	ADDRESS	4	APE_OLDER_APE	-> older APE in CPE/ APE chain
(24)	ADDRESS	4	APE_YOUNGER_ APE	-> younger APE in CPE /APE chain
(28)	ADDRESS	4	APE_OLDER_ APE_NIU	
				-> older APE in APE NIU chain.
(2C)	ADDRESS	4	APE_YOUNGER_ APE_NIU	
				-> younger APE in APE NIU chain.
(30)	ADDRESS	4	APE_OWNING_CPE	Address of owning CPE
The Program Descriptor Block (PDB) is copied into the APE.				
(34)	CHARACTER	16	APE_PDB	Prog Descriptor flds
(44)	UNSIGNED	1	APE_STATUS	Status: active/freed
Attributes of the program associated with this APE.				
(45)	UNSIGNED	1	APE_FLAGS	Attributes of program instance
	1...		APE_LPA_LOADED	Program LPA resident
	.1..		APE_RPL_LOADED	Program RPL loaded

Table 251. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		APE_REGION_ LOADED	Program region loaded
	...1		APE_RMODE_ANY	Program RMODE ANY
	.... 1...		APE_MUSTDELET=	PMARL_MUSTDELET
	.... .1..		*	Reserved
	.... ..1.		APE_AMODE_31	Program AMODE 31
	1		APE_AMODE_24	Program AMODE 24
(46)	UNSIGNED	1	APE_RECOVERY_ FLAGS	
	1...		APE_BUILT_ BY_RESTART	
				Prog loaded during init.
	.111 1111		*	Reserved
(47)	UNSIGNED	1	*	Reserved
(48)	FULLWORD	4	APE_COPY_NUMBER	Copy no. of the APE
(4C)	FULLWORD	4	APE_LOAD_POINT	Load point of program
(50)	FULLWORD	4	APE_ENTRY_POINT	Entry point of program
(54)	FULLWORD	4	APE_PROGRAM_ LENGTH	length of program
(58)	FULLWORD	4	APE_CURRENT_ USERS	No. of users
(5C)	FULLWORD	4	APE_STORAGE_SIZE	Storage allocated to prog.
(60)	CHARACTER	12	APE_SUBPOOL_DATA	Subpool prog. was getmained from
(60)	CHARACTER	8	TOKEN	
(68)	UNSIGNED	4	DSA	
(6C)	FULLWORD	4	APE_CSECT_ LIST_SIZE	
				No. of CSECT list blocks chained to this APE.
(70)	CHARACTER	8	APE_CSECT_ LIST_CHAIN_FIELDS	
				Next and prior ptrs

Table 251. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(78)	CHARACTER	8	APE_ON_NIU_TIME	Time APE put on NIU chain
(80)	ADDRESS	4	APE_DUMMY_CDE	-> to dummy CDE
If APE_MUSTDELET is set, delete needs the loader token ...				
(84)	FULLWORD	4	APE_BLITO	offset within program
Application LIBRARY data				
(88)	CHARACTER	16	APE_LIBRARY_DATA	LIBRARY information
(88)	CHARACTER	8	APE_LIBRARY_ TOKEN	
(88)	ADDRESS	4	APE_PLIBE_PTR	-> to corresp. PLIBE
(8C)	UNSIGNED	1	APE_DS_ CONCAT_NUM	
				Data set rel. number in concatenation.
(8D)	CHARACTER	3	*	Reserved
(90)	ADDRESS	4	APE_PSCHT_ ENTRY_PTR	
				-> to corresponding PSCHT entry
(94)	BIT(8)	1	APE_LIBRARY_ FLAGS	LIBRARY flags
	1...		APE_LIBRARY_ USED	Program loaded from LIBRARY
	.111 1111		*	Reserved
(95)	CHARACTER	3	*	Reserved
(98)	CHARACTER	0	*	

```
B L D L _   L I S T - BLDL PARAMETER LIST
  -----------------
  The BPAM directory entry is built by the MVS LLACOPY interface
  and contains a copy of the directory entry from the Partitioned
  Dataset (PDS) containing the named program.
  The BLDL parameter list passed on the LLACOPY is a series of
  directory entries preceded by entry count and entry length
fields.
```

Table 252.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	22	BLDL_LIST	
(0)	CHARACTER	18	BLDL_PREFIX	Control block eyecatcher

Table 252. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	FULLWORD	4	BLDL_LENGTH	Control block length
(4)	CHARACTER	1	BLDL_ARROW	
(5)	CHARACTER	3	BLDL_DFH	
(8)	CHARACTER	2	BLDL_DOMAIN	
(A)	CHARACTER	8	BLDL_BLOCK_ID	
The BLDL macro parameter list				
(12)	CHARACTER	4	BLDL_MACRO_PLIST	
(12)	UNSIGNED	2	BLDL_NUMBER_IN_LIST	
				No of entries in list
(14)	UNSIGNED	2	BLDL_LENGTH_OF_ENTRY	
				Length of BLDL list
(16)	CHARACTER	0	BLDL_ENTRIES	The BLDL entries

```
The BLDL_LIST_ENTRY is a duplicate of the PDS entry for the
program, hence, do not attempt to use any of the reserved
fields.
```

Table 253.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	60	BLDL_LIST_ENTRY	BLDL list entry
(0)	CHARACTER	8	BLDL_PROGRAM_NAME	Program name
(8)	UNSIGNED	4	BLDL_TTRK	Track and record data
(8)	CHARACTER	2	BLDL_TT	Relative track
(A)	UNSIGNED	1	BLDL_R	Relative record
(B)	UNSIGNED	1	BLDL_LCN	Concatenation No. of dataset
(C)	UNSIGNED	1	BLDL_WHERE_FOUND	Library flag field
(D)	UNSIGNED	1	BLDL_C_FIELD	Indicator byte
	1...		BLDL_ALIAS	Name is an alias
	.11.		*	Reserved
	...1 1111		*	Reserved
(E)	CHARACTER	8	*	
(16)	UNSIGNED	1	BLDL_ATTRIBUTE	Program attributes
	1111 1...		*	Reserved
	.... .1..		BLDL_SCTR	Scatter fmt

Table 253. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		BLDL_EXECUTABLE	Program executable
	1		*	Reserved
(17)	CHARACTER	1	*	Reserved
(18)	UNSIGNED	3	BLDL_PROGRAM_ LENGTH	
				Program length
(1B)	CHARACTER	2	*	Reserved
(1D)	UNSIGNED	3	BLDL_ENTRY_ POINT_OFFSET	
				Entry point offset
(20)	UNSIGNED	1	BLDL_FLAGS_1	
	1...		*	Reserved
	.1..		BLDL_BIG	LPO present
	..1.		*	Reserved
	...1		BLDL_SSI	SSI present
	.... 1...		BLDL_APF	APF present
	.... .111		*	Reserved
(21)	UNSIGNED	1	BLDL_FLAGS_2	
	111.		*	Reserved
	...1		BLDL_RMODE_ANY	'1' RMODE ANY '0' RMODE 24
	.... 11..		*	Reserved
	.... ..1.		BLDL_AMODE_31	'1' AMODE 31 '0' AMODE 24
	1		*	Reserved
(22)	CHARACTER	26	*	Reserved

Table 254.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	13	BLDL_LPO	
(0)	UNSIGNED	1	*	
(1)	UNSIGNED	4	BLDL_VSTR	
(5)	UNSIGNED	4	BLDL_MEPA	
(9)	UNSIGNED	4	BLDL_AEPA	
(D)	CHARACTER	0	*	

```
  C P E - CURRENT PROGRAM ELEMENT
-----
    A Current Program Element represents a program defined to
  Loader.
```

Table 255.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	204	CPE	
(0)	CHARACTER	24	CPE_PREFIX	Standard prefix
(0)	UNSIGNED	2	CPE_LENGTH	Control block length
(2)	CHARACTER	1	CPE_ARROW	Control block eyecatcher
(3)	CHARACTER	3	CPE_DFH	
(6)	CHARACTER	10	CPE_EYE_CATCH	
(6)	CHARACTER	2	CPE_DOMAIN	
(8)	CHARACTER	8	CPE_BLOCK_ID	
CPE chain is anchored in LD Global. It contains all the CPEs (programs currently defined to the system) stored in alphabetical order by program name.				
(10)	ADDRESS	4	CPE_NEXT	-> next CPE in chain
(14)	ADDRESS	4	CPE_PRIOR	-> previous CPE in chain
The following are valid CPE statuses: UNUSED - program has been defined but not yet acquired. LOCATED - An LLACOPY has been issued for the program and it has been found in the DFHRPL library. LOADED - The program has been loaded. It should be noted that a CPE defined as RELOAD will never have the status updated to loaded, hence, on every acquire a new program instance is loaded. Also, if a REFRESH PROGRAM is requested (CEMT S NEWCOPY) the status will be reduced to LOCATED for a DFHRPL loaded program. DELETED - The program definition has been deleted ie DELETE_ PROGRAM has been issued. The CPE has not been freemained as there are still active APEs chained off it. The CPE will be freemained when all the active APEs are released. BAD - Invalid data has been detected in the CPE, hence, it is marked as unusable. FREED - The CPE has been freemained. This status is solely to mark deleted CPEs in the case where they are not overwritten and they appear in a dump.				
(18)	UNSIGNED	1	CPE_PROGRAM_ STATUS	Status of the program
The CPE control block lock is used to ensure that it is not possible to have multiple updates of a CPE. While a CPE is locked no other task may access it. UNLOCKED - No task is currently attempting to update the CPE. LPA_LOCATING - A task is currently attempting to locate a program in the LPA. RPL_LOCATING - A task is currently attempting to locate a program in the DFHRPL library. RPL_LOADING - A task is currently attempting to load a program from thr DFHRPL library. DISCONNECTING - A task is currently disconnecting from the member in RPL				
(19)	UNSIGNED	1	CPE_LOCK	CPE lock field

Table 255. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1A)	UNSIGNED	1	CPE_RECOVERY_ FLAGS	
	1...		CPE_BUILT_ BY_RESTART	
				CPE built during init.
	.1..		CPE_LOADED_ BY_RESTART	
				Program loaded during init
	..1.		CPE_PRVMOD	Program should be loaded from RPL even though it is resident in the LPA
	...1		CPE_PROGRAM_ ACQUIRED	
				program loaded and has been ACQUIREd
	.... 1...		CPE_OLD_ COPY_IN_LPA	
				Program has already been defined and is resident in the LPA.
	.... .1..		CPE_PMARL_VALID	PMARL has been fetched@LEA
	.... ..1.		CPE_MUSTDELET=	PMARL_MUSTDELET
	1		*	Reserved
(1B)	UNSIGNED	1	CPE_PDB_ CATALOG_STATUS	
				Shows if PDB has been cataloged
The CPE_DE (directory entry) is copied from the BLDL_LIST_ENTRY ,obtained when the LLACOPY is issued for the program. For details of the fields see the BLDL_LIST_ENTRY.				
(1C)	CHARACTER	60	CPE_DE	CPE directory entry
(1C)	CHARACTER	8	CPE_PROGRAM_ NAME	
(24)	UNSIGNED	4	CPE_TTRK	
(24)	UNSIGNED	2	CPE_TT	

Table 255. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(26)	UNSIGNED	1	CPE_R	
(27)	UNSIGNED	1	CPE_LCN	
(28)	UNSIGNED	1	CPE_Z_BYTE	
(29)	UNSIGNED	1	CPE_C_BYTE	
(2A)	CHARACTER	8	*	
(32)	UNSIGNED	1	CPE_ATTRIBUTES	
	1...		CPE_REENTRANT	
	.111 1111		*	
(33)	CHARACTER	1	*	
(34)	UNSIGNED	3	CPE_PROGRAM_ LENGTH	
(37)	CHARACTER	2	*	
(39)	UNSIGNED	3	CPE_ENTRY_ POINT_OFFSET	
(3C)	CHARACTER	1	*	
(3D)	UNSIGNED	1	CPE_FLAGS	
	111.		*	
	...1		CPE_RMODE_ANY	
	.... 11..		*	
	.... ..1.		CPE_AMODE_31	
	1		*	
(3E)	CHARACTER	26	*	
The Program Descriptor Block (PDB) is copied in here.				
(58)	CHARACTER	16	CPE_PDB	
CPE statistics				
(68)	FULLWORD	4	CPE_USES	Cummulative count of the no. of times a program is acquired.
(6C)	FULLWORD	4	CPE_CURRENT_ USERS	No. of current users.
(70)	FULLWORD	4	CPE_LOAD_COUNT	No. of times a program has been loaded
CPE APE chain This chain contains an APE for each instance of THIS program currently in main storage. New APEs are added to the head of chain.				
(74)	FULLWORD	4	CPE_APE_ CHAIN_SIZE	No. of APEs currently chained to this CPE

Table 255. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(78)	CHARACTER	24	CPE_APE_ CHAIN_FIELDS	
CPE statistics These figures are the official statistics and are reset at the end of a statistics collection.				
(90)	CHARACTER	24	CPE_STATS	
(90)	FULLWORD	4	CPE_TIMES_USED	Cummulative count of the no. of times a program is acquired.
(94)	FULLWORD	4	CPE_FETCH_COUNT	No. of times a program has been loaded from the RPL or located in the LPA.
(98)	FULLWORD	4	CPE_LOAD_TIME	Cummulative load duration for all MVS loads.
(9C)	FULLWORD	4	CPE_COMPRESSIONS	No. of times a copy of this program has been removed due to proram compression
(A0)	FULLWORD	4	CPE_WAITS	No. of times tasks were forced to wait due to the CPE being locked.
(A4)	FULLWORD	4	CPE_REFRESHES	No. of times the program has been refreshed.
(A8)	ADDRESS	4	CPE_GLOB_PTR	-> back to global
(AC)	FULLWORD	4	CPE_BLITO	Offset to IEWBLIT
(B0)	FULLWORD	4	CPE_BIG_LENGTH	Program length
(B4)	FULLWORD	4	CPE_BIG_ ENTRY_POINT_ OFFSET	
				Entry offset
Application LIBRARY data				
(B8)	CHARACTER	20	CPE_LIBRARY_DATA	LIBRARY information
(B8)	CHARACTER	12	CPE_LIBRARY_ TOKEN	
(B8)	ADDRESS	4	CPE_PLIBE_PTR	-> to corresp. PLIBE

Table 255. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(BC)	UNSIGNED	1	CPE_DS_ CONCAT_NUM	
				Data set rel. number in concatenation.
(BD)	CHARACTER	3	*	Reserved
(C0)	UNSIGNED	2	CPE_PLIBE_ REP_#	LIBRARY replace count
(C2)	UNSIGNED	2	CPE_PLIBE_ DIS_#	LIBRARY disable count
(C4)	ADDRESS	4	CPE_PSCHT_ ENTRY_PTR	
				-> to corresponding PSCHT entry
(C8)	BIT(8)	1	CPE_LIBRARY_ FLAGS	LIBRARY flags
	1...		CPE_LIBRARY_ USED	Program should be loaded from LIBRARY
	.111 1111		*	Reserved
(C9)	CHARACTER	3	*	Reserved
(CC)	CHARACTER	0	*	

```
C E S E C T L - CSECT LIST
-------------
The CESCT list contain the CSECT name ,the address of the
CSECT, the CICS version, the PTF level and time the CSECT was
last updated. A CSECTL only contains four entries, therefore,
several CSECTL blocks maybe chained off the APE. The CSECT
details are obtained from the header data.
```

Table 256.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	176	CSECTL	
(0)	CHARACTER	24	CSECTL_PREFIX	Control block prefix
(0)	UNSIGNED	2	CSECTL_LENGTH	Control block length
(2)	CHARACTER	1	CSECTL_ARROW	Control block eyecatcher
(3)	CHARACTER	3	CSECTL_DFH	
(6)	CHARACTER	2	CSECTL_DOMAIN	
(8)	CHARACTER	8	CSECTL_BLOCK_ID	
(10)	CHARACTER	8	CSECTL_ CHAIN_FIELDS	

Table 256. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				CSECTL chain fields anchored in the associated APE
(10)	ADDRESS	4	CSECTL_NEXT	->to next CSECTL block
(14)	ADDRESS	4	CSECTL_PRIOR	->to previous CSECTL block
CSECTL list entries.				
(18)	CHARACTER	38	CSECTL_ENTRIES (4)	

Table 257.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	38	CSECTL_ENTRY	
(0)	CHARACTER	8	CSECTL_MODULE	CSECT name
(8)	ADDRESS	4	CSECTL_ADDRESS	Address of CSECT
(C)	CHARACTER	4	CSECTL_ CICS_VERSION	
				CICS version
(10)	CHARACTER	8	CSECTL_PTF_LEVEL	PTF level of CSECT
(18)	CHARACTER	14	CSECTL_CREATION	Time CSECT last updated

```
C D E - DUMMY CDE
-----
The DUMMY CDE is used by SLD to detect mdules loaded by the
CICS Loader. As the MVS LOADs are directed no CDE is built
so we have to supply a dummy one so SLD can set its
breakpoints.
```

Table 258.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	DUMMY_CDE	
(0)	CHARACTER	24	DUMMY_CDE_PREFIX	
(0)	UNSIGNED	2	DUMMY_CDE_ LENGTH	
(2)	CHARACTER	1	DUMMY_CDE_ARROW	
(3)	CHARACTER	3	DUMMY_CDE_DFH	
(6)	CHARACTER	2	DUMMY_CDE_ DOMAIN	
(8)	CHARACTER	8	DUMMY_CDE_ BLOCK_ID	
(10)	CHARACTER	8	DUMMY_CDE_CHAIN	
(10)	ADDRESS	4	DUMMY_CDE_NEXT	

Table 258. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	ADDRESS	4	DUMMY_CDE_PREV	
The following must be kept in step with the IHACDE DSECT SLD should only check CDCHAIN, CDNAME, CDENTPT AND CDXLMJP.				
(18)	CHARACTER	32	DUMMY_CDE_CONTENTS	
(18)	ADDRESS	4	DUMMY_CDCHAIN	Next CDE
(1C)	ADDRESS	4	*	Reserved
(20)	CHARACTER	8	DUMMY_CDNAME	Name
(28)	FULLWORD	4	DUMMY_CDENTPT	Entry point top bit set for amode
(2C)	ADDRESS	4	DUMMY_CDXLMJP	Ptr extent list (XTLST)
(30)	CHARACTER	8	*	Reserved

```
X T L S T - Dummy Extent List
---------
The DUMMY XTLST is used by SLD to detect modules loaded by the
CICS Loader. As the MVS LOADs are directed no CDE or extent
lists are built so we have to supply dummy ones so SLD can set
its breakpoints.
```

Table 259.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	DUMMY_XTLST	
The following must be kept in step with the IHAXTLST DSECT SLD should only check XTLMSBLA and XTLMSBAA.				
(0)	CHARACTER	8	*	Reserved
(8)	FULLWORD	4	DUMMY_XTLMSBLA	Pgm length
(C)	ADDRESS	4	DUMMY_XTLMSBAA	Load point

```
G L O B A L - LOADER GLOBAL AREA
-----------
The Loader Global area (anchor block) contains the domain
status indicator, storage subpool tokens, lock tokens, CPE
chain anchor, APE chain anchor, APE NIU chain anchor and the
statistics buffer anchor.
```

Table 260.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	996	GLOBAL	
(0)	UNSIGNED	2	GLOBAL_LENGTH	Control block length
(2)	CHARACTER	1	GLOBAL_ARROW	Control block eyecatcher
(3)	CHARACTER	3	GLOBAL_DFH	
(6)	CHARACTER	2	GLOBAL_DOMAIN	
(8)	CHARACTER	8	GLOBAL_BLOCK_ID	
Loader Domain Status Flags				

Table 260. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	BIT(16)	2	LD_DOMAIN_STATUS	Status of Loader domain
(12)	UNSIGNED	1	LD_RPL_STATUS	Status of DFHRPL library
(13)	UNSIGNED	1	LD_LPA_STATUS	Status of LPA
(14)	BIT(8)	1	LD_FLAGS	Loader global flags
	1...		LD_GLOBAL_ CATALOG_IN_USE	
				GCD in use
	.1..		LD_CICS_ INITIALISED	
				CICS fully up
	..1.		LD_CICS_ COLD_STARTED	
				CICS cold started
	...1		LD_LLACOPY_ IN_REFRESH	
	.... 1...		LD_XLDLOAD_ ACTIVE	
	.... .1..		LD_XLDELETE_ ACTIVE	
	.... ..1.		LD_LARGE_ LOAD_MODULE	
				CPE longer
	1		LD_LIB_ SRCH_ORDER_UPDATE	
				LIBRARYs search order update in progress
(15)	BIT(8)	1	LD_FLAGS2	Extra LD global flags
	1...		LD_XRSINDI_ ACTIVE	XRSINDI exit active
	.111 1111		*	Reserved
(16)	UNSIGNED	1	LD_LLACOPY_ STATUS	LLACOPY status
(17)	UNSIGNED	1	LD_SLD	SLD support?
Storage Manager subpool tokens for Loader managed subpools.				
(18)	CHARACTER	8	LD_CONTROL_POOL	Control subpool token
(20)	CHARACTER	8	LD_PLIBE_ CELL_POOL	PLIBE subpool token

Table 260. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	CHARACTER	8	LD_PSCHT_ CELL_POOL	PSCHT subpool token
(30)	CHARACTER	8	LD_JFCB_POOL	JFCB subpool token
(38)	CHARACTER	8	LD_APE_CELL_POOL	APE subpool token
(40)	CHARACTER	8	LD_CSECTL_ CELL_POOL	
				CSECTL subpool token
(48)	CHARACTER	8	LD_CPE_CELL_POOL	CPE subpool token
(50)	CHARACTER	8	LD_DUMMY_ CDE_POOL	DUMMY_CDE subpool token
(58)	CHARACTER	12	LD_SUBPOOL_DATA2 (12)	Array of program subpools
(58)	CHARACTER	8	TOKEN2	Subpool token
(60)	UNSIGNED	4	DSA2	DSA identifier
Lock tokens				
(E8)	ADDRESS	4	LD_STATE_LOCK	Loader state lock token
(EC)	ADDRESS	4	LD_LIBRARY_LOCK	Loader libraray lock token
(F0)	ADDRESS	4	LD_PLIBE_ CHAIN_LOCK	
				Loader LIBRARY PLIBE chain lock token
(F4)	ADDRESS	4	*	Reserved

Table 260. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Loader chains There are seven Loader chains anchored in Global storage: 1. Global CPE chain - this contains all the CPEs (in alphabetical order of program name) for all the programs currently defined to the system. 2. Global APE chain - this contains an APE for every program instance currently residing in CICS storage. Entries are in ascending order of entry point. 3. The APE NIU chain - contains all the APEs associated with programs defined as REUSABLE which have a use count of zero. These programs are eligible to be removed on program compression. 4. The LDWE chain - this contains a Loader Wait Element for each task that has been suspended due to a CPE being locked. LDWEs are added to the top of the chain. 5. The LDBE chain - this chain contains a Loader Browse Element for each currently active browse session. New entries are added to the head of the chain. 6. The DUMMY_CDE chain - managed on behalf of SLD. There is one CDE per loaded program. 7. Global PLIBE chain - this contains all the PLIBEs (in ascending order of search seq. numbers) for all the application libraries currently installed in the system.				
(F8)	FULLWORD	4	PLIBE_CHAIN_SIZE	Global PLIBE chain size
(FC)	CHARACTER	32	PLIBE_ANCHOR	
(11C)	FULLWORD	4	CPE_CHAIN_SIZE	Global CPE chain size
(120)	CHARACTER	24	CPE_ANCHOR	
(138)	FULLWORD	4	APE_CHAIN_SIZE	Global APE chain size
(13C)	FULLWORD	4	APE_NIU_ CHAIN_SIZE	APE NIU chain size
(140)	CHARACTER	48	APE_ANCHOR	
(170)	FULLWORD	4	LDWE_CHAIN_SIZE	LDWE chain size
(174)	CHARACTER	24	LDWE_ANCHOR	
(18C)	FULLWORD	4	LDBE_CHAIN_SIZE	LDBE chain size
(190)	CHARACTER	24	LDBE_ANCHOR	
(1A8)	CHARACTER	24	DUMMY_CDE_ANCHOR	Dummy CDE chain
(1C0)	ADDRESS	4	PRVMOD_PTR	-> area holding prog names that require loading from RPL rather than LPA
Global statistics				
(1C4)	ADDRESS	4	LD_STATS_ BUFFER_PTR	
				-> Loader stats buffer

Table 260. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C8)	FULLWORD	4	STA_DEFINES	No. of DEFINE_PROGRAMs
(1CC)	FULLWORD	4	STA_DELETES	No. of DELETE_PROGRAMs
(1D0)	FULLWORD	4	STA_INQUIRES	No. of INQUIRE_PROGRAMs
(1D4)	FULLWORD	4	STA_REFRESHS	No. of REFRESH_PROGRAMs
(1D8)	FULLWORD	4	STA_BROWSES	No. of START_BROWSEs
(1DC)	FULLWORD	4	STA_NOTIFIES	No. of SM notify calls received.
	`long name cache stats` `No. of times long name longer than cache key length`			
(1E0)	FULLWORD	4	STA_NAME2LONG	
	`Length of longest name given to CONVERT_NAME`			
(1E4)	FULLWORD	4	STA_LONGEST_NAME	
	`No. of adds to cache = max cache size`			
(1E8)	FULLWORD	4	STA_NAME_ADDED	
(1EC)	FULLWORD	4	*	Reserved
(1F0)	FULLWORD	4	STA_FETCHS	No. of loads from the RPL library
(1F4)	FULLWORD	4	STA_FETCH_TIME	Total fetch time
(1F8)	FULLWORD	4	STA_USES	Total no. of times progs are reused
(1FC)	FULLWORD	4	STA_WAITS	No. of tasks currently suspended
(200)	FULLWORD	4	STA_WAITS_PAST	Total no. of tasks suspended
(204)	FULLWORD	4	STA_WAITS_HWM	High Water Mark for STA_WAITS.
(208)	FULLWORD	4	STA_TIMES_ WAITS_HWM	
				No. of times High Water Mark is reached
(20C)	FULLWORD	4	STA_WAIT_TIME	Total time tasks are suspended.
(210)	FULLWORD	4	STA_DEB_REBUILDS	No. of times DEB rebuilt due to an extent error

Table 260. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(214)	CHARACTER	16	STA_LIB_RECORDS	Global LIBRARYs statistics
(214)	FULLWORD	4	STA_LIB_ SRCH_UPDATES	
				Number of search order updates
(218)	CHARACTER	8	STA_LIB_ SRCH_UPDATE_TIME	
				Time spent updating search order
(220)	FULLWORD	4	STA_LIB_ SRCH_UPDATE_WAITS	
				Number of waits for program load due to updating search order
(224)	CHARACTER	8	STA_LAST_ RESET_TIME	
				Time stats last reset
(22C)	FULLWORD	4	LD_STORAGE_ FACTOR	Loader storage factor
(230)	CHARACTER	32	LD_DSA_RECORDS (6)	Array showing storage usage for each DSA
(230)	FULLWORD	4	LD_DSA_USAGE	Storage used
(234)	FULLWORD	4	LD_DSA_RPS	Redundant program storage
(238)	FULLWORD	4	LD_DSA_TARGET	Target storage level
(23C)	FULLWORD	4	LD_DSA_ PROG_REMOVALS	
				Number of programs removed by DPSC
(240)	FULLWORD	4	LD_DSA_RECLAIMS	Number of programs reclaimed from RPS
(244)	CHARACTER	8	LD_DSA_ NIU_Q_TIME	Total time spent on NIU queue
(24C)	FULLWORD	4	LD_DSA_ NIU_Q_SIZE	NIU queue size
Loader generic gate entry points				

Table 260. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2F0)	ADDRESS	4	LD_NT_EPADDR	SMNT gate
(2F4)	ADDRESS	4	LD_ST_EPADDR	STST gate
(2F8)	ADDRESS	4	LD_DC_EPADDR	Dynamic compression routine
DFHSIP entry point address				
(2FC)	ADDRESS	4	LD_DFHSIP_EPADDR	DFHSIP entry point
Loader LIBRARY management gate entry point (using reserved fld)				
(300)	ADDRESS	4	LD_LB_EPADDR	LIBRARY mgt LDLB gate
(304)	FULLWORD	4	*	reserved
(308)	FULLWORD	4	*	reserved
(30C)	FULLWORD	4	*	reserved
(310)	CHARACTER	12	LD_SUBPOOL_DATA (16)	Array of program subpools
(310)	CHARACTER	8	TOKEN	Subpool token
(318)	UNSIGNED	4	DSA	DSA identifier
(3D0)	FULLWORD	4	*	reserved
(3D4)	FULLWORD	4	*	reserved
(3D8)	FULLWORD	4	*	reserved
(3DC)	FULLWORD	4	*	reserved
Long Name cache directory token				
(3E0)	ADDRESS	4	LD_LONG_ NAME_CACHE_TOKEN	
(3E4)	FULLWORD	4	LDBE_LIB_CHAIN_SIZE	Size of LDBE chain for LIBRARYs
(3E8)	CHARACTER	24	LDBE_LIB_ANCHOR	Anchor for LDBE chain for LIBRARYs
(400)	CHARACTER	0	*	

```
  L A F P B - LOADER AUTHORISED FACILITIES PARAMETER BLOCK
---------
  The LAFPB contains the authorised function code, the return
  code, the BLDL parameter list used by LLACOPY, the program
  length (LPA load only), the entry point of the module (LPA load
  only) and the creation time of the LAFPB.
```

Table 261.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	LAFPB	
(0)	CHARACTER	16	LAFPB_PREFIX	Control block prefix

Table 261. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	UNSIGNED	2	LAFPB_LENGTH	Control block length
(2)	CHARACTER	1	LAFPB_ARROW	Control block eyecatcher
(3)	CHARACTER	3	LAFPB_DFH	
(6)	CHARACTER	2	LAFPB_DOMAIN	
(8)	CHARACTER	8	LAFPB_BLOCK_ID	
(10)	UNSIGNED	1	LAFPB_FUNCTION	Required auth. function
(11)	UNSIGNED	1	LAFPB_RESPONSE	Response from function
(12)	UNSIGNED	2	*	Reserved
Abend data saved on a LOAD failure. LAFPB_REASON is also used to report R15 return code for responses: lafpb_alloc_error, lafpb_concat_error, lafpb_deconcat_error and lafpb_unalloc_error.				
(14)	UNSIGNED	2	LAFPB_ABEND	
(16)	UNSIGNED	2	LAFPB_REASON	
(18)	UNSIGNED	4	LAFPB_R0	
The following fields are used for RPL loads. For DISCONNECT, LAFPB_BLDL_PLIST contains the MLTK. For GET_SMDE, LAFPB_BLDL_PLIST points at name list. For LOAD_WITH PMARL, the PMARL is returned in LAFPB_DESERV_AREA For END, LAFPB_DESERV_AREA addresses the Loader Information Table, mapped by IEWBLIT.				
(1C)	ADDRESS	4	LAFPB_BLDL_PLIST	-> to BLDL_LIST
(20)	ADDRESS	4	LAFPB_LOAD_POINT	-> for directed load
(24)	CHARACTER	8	LAFPB_CREATION_ STCK	
				time LAFPB created
(2C)	ADDRESS	4	LAFPB_DESERV_ AREA	-> space for result
(30)	FULLWORD	4	LAFPB_DESERV_ AREAL	length of result area
The following fields are used for LIBRARY requests				
(34)	BIT(8)	1	LAFPB_LIB_FLAGS	
	1...		LAFPB_LIB_REQ	This is LIBRARY request
	.1..		LAFPB_ALLOC_DDN	DDN name specified for dynamic allocation
	..11 1111		*	Reserved
(35)	CHARACTER	3	*	Reserved

Table 261. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	ADDRESS	4	LAFPB_PLIBE_PTR	-> to LIBRARY PLIBE
(3C)	ADDRESS	4	LAFPB_PLIBE_ DSE_PTR	
				-> to data set entry (for dynamic allocation)
(40)	CHARACTER	0	*	

```
  L D B E - LOADER DOMAIN BROWSE ELEMENT
-------
  The LDBE represents a browse session. It contains the adress
  of the last CPE browsed, the program name from the last CPE
  browsed, the address of the last APE browsed, the entry point
  address from the last APE browsed and the creation time of the
LDBE.
```

Table 262.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	LDBE	
(0)	CHARACTER	24	LDBE_PREFIX	Control block prefix
(0)	UNSIGNED	2	LDBE_LENGTH	Control block length
(2)	CHARACTER	1	LDBE_ARROW	Control block eyecatcher
(3)	CHARACTER	3	LDBE_DFH	
(6)	CHARACTER	2	LDBE_DOMAIN	
(8)	CHARACTER	8	LDBE_BLOCK_ID	
(10)	ADDRESS	4	LDBE_NEXT	-> next LDBE in chain
(14)	ADDRESS	4	LDBE_PRIOR	-> previous LDBE in chain
(18)	CHARACTER	4	*	
(18)	ADDRESS	4	LDBE_LAST_ CPE_ADDRESS	
				Addr last CPE browsed
(18)	ADDRESS	4	LDBE_LAST_ PLIBE_ADDRESS	Addr last PLIBE browsed
(1C)	ADDRESS	4	LDBE_LAST_ APE_ADDRESS	
				Addr last APE browsed
(20)	ADDRESS	4	LDBE_LAST_ ENTRY_POINT	

Table 262. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Entry point from APE
(24)	CHARACTER	8	*	
(24)	CHARACTER	8	LDBE_LAST_ PROGRAM_NAME	
				Prog name from CPE
(24)	CHARACTER	8	LDBE_LAST_ LIBRARY_NAME	LIB name from PLLIBE
(24)	ADDRESS	4	LDBE_PLIBE_ ANCHOR	
(28)	ADDRESS	4	LDBE_PLIBE_ CURRENT_PTR	
(2C)	CHARACTER	8	LDBE_CREATION_ STCK	Time LDBE was created
(34)	CHARACTER	0	*	

```
  L D W E - LOADER DOMAIN WAIT ELEMENT
-------
  The LDWE represents a task that has been suspended because the
  CPE it requires is currently locked. The LDWE contains the
  name of the program the task is waiting for, the associated
  suspend token and the time the LDWE was created.
```

Table 263.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	LDWE	
(0)	CHARACTER	24	LDWE_PREFIX	Control block prefix
(0)	UNSIGNED	2	LDWE_LENGTH	Control block length
(2)	CHARACTER	1	LDWE_ARROW	Control block eyecatcher
(3)	CHARACTER	3	LDWE_DFH	
(6)	CHARACTER	2	LDWE_DOMAIN	
(8)	CHARACTER	8	LDWE_BLOCK_ID	
(10)	ADDRESS	4	LDWE_NEXT	-> next LDWE on chain
(14)	ADDRESS	4	LDWE_PRIOR	-> previous LDWE on chain
(18)	ADDRESS	4	LDWE_SUSPEND_ TOKEN	Dispatcher suspend token
(1C)	ADDRESS	4	LDWE_CPE_ADDRESS	Addr. of locked CPE
(20)	CHARACTER	8	LDWE_PROGRAM_ NAME	Name of program

Table 263. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	CHARACTER	8	LDWE_CREATION_STCK	Time LDWE created
(30)	FULLWORD	4	LDWE_RESUME_REQUIRED	
				Flag to indicate task requires resuming
(34)	CHARACTER	0	*	

```
  L O B - LOADER OPTION BLOCK
-----
  The LOB is used to save Loader SIT parameters (LPA usage and
  storage factor) and the sizes of the resident subpools.
  These figures are used on restart. It should be noted that
  irregardless of the type of start Loader always attempts to
  read the LOB from the catalog.
```

Table 264.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	LOB	
(0)	FULLWORD	4	LOB_STORAGE_FACTOR	Loader storage factor
(4)	UNSIGNED	1	LOB_LPA_STATUS	LPA status
(5)	UNSIGNED	1	LOB_LLACOPY_STATUS	
(6)	CHARACTER	2	*	
The resident subpool sizes. These are read from the catalog at initialisation and used to recreate the subpools with the same INITIAL_FREE size as on the previous CICS run.				
(8)	UNSIGNED	4	LOB_APE_CELL_POOL_SIZE	
				APE subpool size
(C)	UNSIGNED	4	LOB_CSECTL_CELL_POOL_SIZE	
				CSECTL subpool size
(10)	CHARACTER	8	LOB_CREATION_STCK	Time LOB created
(18)	CHARACTER	0	*	

```
  P D B - PROGRAM DESCRIPTOR BLOCK
-----
  A PDB describes a programs attributes.It is this control block
  that is written to one of the catalogs each time a program is
defined ( unless CATALOG_  MODULE(NO) is specified). On
  restart the PDBs are retrieved from the catalogs and CPEs are
built.
```

Table 265.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	PDB	
(0)	CHARACTER	16	PDB_DESCRIPTOR_ FIELDS	
PROGRAM_TYPE maybe PRIVATE, SHARED or TYPE_ANY. PRIVATE means the program will always be loaded into CICS managed storage. SHARED means the program resides in the LPA. TYPE_ANY means an LPA version of the program will be used if there is one otherwise an RPL version will be loaded.				
(0)	UNSIGNED	1	PDB_PROGRAM_ TYPE	Where to load the program from
PROGRAM_USAGE maybe NUCLEUS or APPLICATION. If NUCLEUS is specified the PDB will be written to the LCD. If APPLICATION is specified the PDB will be written to the GCD.				
(1)	UNSIGNED	1	PDB_PROGRAM_ USAGE	Where to catalog the definition
PROGRAM_ATTRIBUTE maybe RESIDENT, REUSABLE, TRANSIENT or RELOAD RESIDENT programs must be at least quasi- reentrant and are not eligible program compression.REUSABLE programs must be at least quasi_reentrant and are eligible for program compression. TRANSIENT programs must be at least quasi_reentrant and are removed from storage as soon as the use count reaches zero. RELOAD programs do not need to be reentrant a new version of the program is loaded each time the program is ACQUIREd. Such a program is removed from storage when it is RELEASEd.				
(2)	UNSIGNED	1	PDB_PROGRAM_ ATTRIBUTE	
				Prog load attribute
(3)	UNSIGNED	1	PDB_REQUIRED_ RMODE	
				RMODE of the program, 24, ANY or default
(4)	UNSIGNED	1	PDB_REQUIRED_ AMODE	
				AMODE of the program 31 24,ANY or default@P3A
(5)	UNSIGNED	1	PDB_CATALOG_ MODULE	
				Indicates whether PDB should be cataloged
(6)	UNSIGNED	1	PDB_EXECUTION_ KEY	EXECKEY of the program, CICS or USER
(7)	CHARACTER	1	*	reserved

Table 265. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	8	PDB_CREATION_STCK	Time PDB created
(10)	CHARACTER	0	*	

```
    PLDB - PROGRAM LIBRARY DESCRIPTOR BLOCK
    A PLDB describes a LIBRARY attributes.It is this control block
    that is written to one of the catalogs each time a LIBRARY is
  defined ( unless CATALOG_  LIB(NO) is specified).
    On restart the PLDBs are retrieved from the catalog
    and PLIBEs are built.
    For each application program LIBRARY there will be an associated
  PLDB.
```

Table 266.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	736	PLDB	
Attributes of the LIBRARY associated with this PLDB				
(0)	CHARACTER	8	PLDB_CREATION_STCK	Time PLDB created
(8)	UNSIGNED	4	PLDB_RANKING	Ranking of LIBRARY
(C)	BIT(8)	1	PLDB_LIB_STATE	State of LIBRARY
	1...		PLDB_CRITICAL	LIBRARY is critical
	.1..		PLDB_ENA_DIS	Enable/Disable state: 1 - enabled, 0 - disabled
	..11 1111		*	Reserved
(D)	CHARACTER	2	*	Reserved
(F)	UNSIGNED	1	PLDB_DATASET_NUM	Number of data sets (PDSs or PDSEs)
Data set (PDS or PDSEs) slots array in this PLDB				
(10)	STRUCTURE IsA(PLDB_DATASET_ENTRY_TYPE)	45	PLDB_DATASET_SLOT (16)	
(10)	CHARACTER	44	PLDB_DSE_DSN	Dsname of the data set
(3C)	BIT(8)	1	PLDB_DSE_FLAGS	Data set state flags
	1...		PLDB_DSE_CRITICAL	
				Reserved for future use
	.111 1111		*	Reserved
(3D)	CHARACTER	0	*	

```
  PLIBE - PROGRAM LIBRARY ELEMENT
  For each application program LIBRARY there will be an associated
PLIBE.
```

Table 267.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1856	PLIBE	
(0)	CHARACTER	32	PLIBE_PREFIX	
(0)	UNSIGNED	2	PLIBE_LENGTH	PLIBE control block length
(2)	CHARACTER	1	PLIBE_ARROW	Control Block eyecatcher
(3)	CHARACTER	3	PLIBE_DFH	
(6)	CHARACTER	2	PLIBE_DOMAIN	
(8)	CHARACTER	8	PLIBE_BLOCK_ID	
(10)	CHARACTER	8	PLIBE_LIBRARY_ NAME	
				LIBRARY name
PLIBE Chain Fields, there is one PLIBE chain: The Global PLIBE chain which is anchored in LD Global. This contains all the PLIBEs in the system in ascending order of search sequence.				
(18)	CHARACTER	8	PLIBE_CHAIN_ FIELDS	
				PLIBE chain fields.
(18)	ADDRESS	4	PLIBE_NEXT	-> next PLIBE in Global PLIBE chain.
(1C)	ADDRESS	4	PLIBE_PRIOR	-> previous PLIBE in Global PLIBE chain.
The Program Library Descriptor Block (PLDB) is copied in here.				
(20)	CHARACTER	736	PLIBE_PLDB	
Attributes of the LIBRARY associated with this PLIBE				
(300)	UNSIGNED	4	PLIBE_SRCHPOS	Search order position
(304)	ADDRESS	4	PLIBE_LOCK	Lock for this PLIBE
(308)	UNSIGNED	1	PLIBE_STATE	Used/freed
(309)	UNSIGNED	1	PLIBE_ENABLEMENT_ STATE	
				Current enable/disable state: Values can be enabling, enabled, disabling, disabled and discarding

Table 267. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30A)	UNSIGNED	1	PLIBE_CONCAT_NUM	Number of concat. data sets (PDSs or PDSEs)
(30B)	BIT(8)	1	PLIBE_LIB_STATE	State of LIBRARY
	1...		PLIBE_FULL_ INSTALL	
				Full install complete
	.1..		PLIBE_PART_ INSTALL	
				Partial install done
	..1.		PLIBE_OPEN_ CLOSED	Currently open/closed: 1 - open, 0 - closed
	...1		PLIBE_PLDB_ CATLG_REST	
				PLDB restored from catalog
	.... 1...		PLIBE_PLDB_ CATLG_REQD	
				PLDB cataloging required
	.... .1..		PLIBE_PLDB_ CATLG_DONE	
				PLDB cataloging done
	11		*	Reserved
(30C)	BIT(8)	1	PLIBE_INSTALL_ FLAGS	
				Install flags
	1...		PLIBE_ALLOC	Dyn. allocation successful
	.1..		PLIBE_CONCAT	Dyn. concatenation done
	..1.		PLIBE_PSCHT_ BUILT	Program Search Table built
	...1		PLIBE_OPENED	LIBRARY was opened OK
	 1111		*	Reserved
(30D)	BIT(8)	1	PLIBE_ERROR_ FLAGS	Error flags
	1...		PLIBE_ALLOC_ERR	Dyn. allocation error for one or more data sets in the LIBRARY

Table 267. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		PLIBE_CONCAT_ERR	Dyn. concatenation error
	..1.		PLIBE_DIRRD_ERR	Directory read error
	...1		PLIBE_OPEN_ERR	LIBRARY Open error
	.... 1...		PLIBE_LOAD_ERR	Program load error
	.... .111		*	Reserved
(30E)	CHARACTER	2	*	Reserved
(310)	UNSIGNED	4	PLIBE_CONCAT_RC	Dyn. concatenation RC
(314)	UNSIGNED	2	PLIBE_CONCAT_ERR_RSN_CODE	
				Error reason code
(316)	UNSIGNED	2	PLIBE_CONCAT_INF_RSN_CODE	
				Info reason code
(318)	CHARACTER	16	PLIBE_K0AREA_TOKEN	Token of key 0 control area for LIBRARY
(318)	UNSIGNED	4	PLIBE_K0ALB_#	Seq # of Addr List block
(31C)	UNSIGNED	4	PLIBE_K0CA_#	Seq # of Control Area
(320)	CHARACTER	8	PLIBE_K0CA_TOD	TOD value of time when Control Area created
(328)	ADDRESS	4	PLIBE_PSCHT_PTR	Addr of Program Search table for LIBRARY
PLIBE statistics				
(32C)	FULLWORD	4	PLIBE_LOAD_COUNT	Number of program loads
(330)	FULLWORD	4	PLIBE_CHANGE_COUNT	Number of CHANGED requests (not yet used)
(334)	FULLWORD	4	PLIBE_REFRESH_COUNT	

Table 267. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Number of LIBRARY REFRESHes (not yet used)
(338)	UNSIGNED	2	PLIBE_REPLACE_ COUNT	
				Number of REPLACEs
(33A)	UNSIGNED	2	PLIBE_DISABLE_ COUNT	
				Number of DISABLEs
`Data set (PDS or PDSEs) slots pointer for DFHRPL`				
(33C)	ADDRESS	4	PLIBE_RPL_ DSE_PTR	Pointer to RPL dse slots
`Data set (PDS or PDSEs) slots array in this PLIBE`				
(340)	STRUCTURE IsA(PLIBE_DS_ENTRY_TYPE)	64	PLIBE_DS_SLOT (16)	
(340)	CHARACTER	44	PLIBE_DSE_DSN	Dsname of the data set
(36C)	CHARACTER	8	PLIBE_DSE_DDN	System-assigned ddname for the data set
(374)	BIT(8)	1	PLIBE_DSE_FLAGS	Data set state flags
	1...		PLIBE_DSE_ ALLOC	Data set is dyn. allocated
	.1..		PLIBE_DSE_ CONCAT	Data set is dynamically concatenated
	..11		*	Reserved
	.... 1...		PLIBE_DSE_ ALLOC_ER	
				Error occured on data set allocation
	.... .11.		*	Reserved
	1		PLIBE_DSE_ LAST_FILLED	
				Last filled-in DS entry
(375)	CHARACTER	1	*	Reserved
(376)	UNSIGNED	2	PLIBE_DSE_ CONCAT_NUM	
				Concatenation number of data set in LIBRARY

Table 267. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(378)	UNSIGNED	4	PLIBE_DSE_ ALLOC_RC	
				Dyn. allocation RC
(37C)	UNSIGNED	2	PLIBE_DSE_ ALLOC_ERR_ RSN_CODE	
				Error reason code
(37E)	UNSIGNED	2	PLIBE_DSE_ ALLOC_INF_ RSN_CODE	
				Information reason code
(380)	CHARACTER	0	*	

`DFHRPL data set entries control block`

Table 268.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	PLIBE_RPL_DSE	
(0)	CHARACTER	16	PLIBE_RPL_ DSE_PREFIX	
(0)	UNSIGNED	2	PLIBE_RPL_ DSE_LENGTH	
				Control block length
(2)	CHARACTER	1	PLIBE_RPL_ DSE_ARROW	
				Eyecatcher
(3)	CHARACTER	3	PLIBE_RPL_ DSE_DFH	
(6)	CHARACTER	2	PLIBE_RPL_ DSE_DOMAIN	
(8)	CHARACTER	8	PLIBE_RPL_ DSE_BLOCK_ID	
(10)	STRUCTURE IsA(PLDB_DATASET_ENTRY_TYPE)	45	PLIBE_RPL_ DS_SLOT (*)	
(10)	CHARACTER	44	PLDB_DSE_DSN	Dsname of the data set
(3C)	BIT(8)	1	PLDB_DSE_FLAGS	Data set state flags
	1...		PLDB_DSE_ CRITICAL	
				Reserved for future use
	.111 1111		*	Reserved

Table 268. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3D)	CHARACTER	0	*	

```
PSCHT - PROGRAM SEARCH TABLE
The Program Search Table is created for each LIBRARY by reading
directories of all PDSs/PDSEs concatenated within the LIBRARY.
The PSCHT consists of program entries in alphabetical order by
program names.
```

Table 269.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	PSCHT	
(0)	CHARACTER	32	PSCHT_PREFIX	
(0)	UNSIGNED	2	PSCHT_LENGTH	PSCHT length
(2)	CHARACTER	1	PSCHT_ARROW	Control Block eyecatcher
(3)	CHARACTER	3	PSCHT_DFH	
(6)	CHARACTER	2	PSCHT_DOMAIN	
(8)	CHARACTER	8	PSCHT_BLOCK_ID	
(10)	CHARACTER	8	PSCHT_PROGNAME_ FIRST	
				First program name in the PSCHT
(18)	CHARACTER	8	PSCHT_PROGNAME_ LAST	
				Last program name in the PSCHT
(20)	UNSIGNED	2	PSCHT_PROG_NUM	Number of program entries in the PSCHT
(22)	UNSIGNED	1	PSCHT_STATUS	Status indicator for dumps, set to pscht_used or pscht_free
(23)	BIT(8)	1	PSCHT_FLAGS	PSCHT flags (for future use)
(24)	CHARACTER	4	*	Reserved
Program slots array in this PSCHT				
(28)	STRUCTURE IsA(PSCHT_PROGRAM_ENTRY_TYPE)	16	PSCHT_PROGRAM_ SLOTS (*)	
(28)	CHARACTER	8	PSCHT_PROGNAME	Program name
(30)	UNSIGNED	4	PSCHT_TTRK	Track and record data
(30)	CHARACTER	3	PSCHT_TTR	TTR
(33)	UNSIGNED	1	PSCHT_LCN	Concatenation No. of data set

Table 269. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	ADDRESS	4	PSCHT_CPE_PTR	Pointer to pertinent CPE
(38)	CHARACTER	0	*	

Constants

Table 270.

Len	Type	value	Name	Description
APE associated constants				
8	CHARACTER	APE	APE_ID_STRING	
8	CHARACTER	APE-ANCH	APE_ANCHOR_ID	
8	CHARACTER	CPE-APE	CPE_APE_ANCHOR_ID	
APE status				
1	HEX	80	APE_ACTIVE	
1	HEX	FF	APE_FREED	
BLDL associated constants.				
8	CHARACTER	BLDL_LST	BLDL_ID_STRING	
4	DECIMAL	35	BLDL_BCLN	
CPE associated constants.				
8	CHARACTER	CPE	CPE_ID_STRING	
8	CHARACTER	CPE-ANCH	CPE_ANCHOR_ID	
CPE program status				
1	HEX	00	CPE_UNUSED	Program defined
1	HEX	01	CPE_LOCATED	Program defined and located
1	HEX	02	CPE_LOADED	Program defined, located and loaded
1	HEX	0F	CPE_DELETED	Program definition deleted
1	HEX	F0	CPE_BAD	Corrupt CPE
1	HEX	FF	CPE_FREED	CPE freemained
CPE catalog status				
1	HEX	03	CPE_CC_DONE	PDB cataloged
1	HEX	04	CPE_CC_REQD	PDB requires cataloging
CPE lock values. APE_CREATING and CSECTL_CREATING can occur while other CPE locks are held. They are added to the existing locks temporarily when SOS and a GETMAIN with SUSPEND(YES) is issued. Therefore, X'10'to X'13' and X'20' to X'23' are reserved.				
1	HEX	00	CPE_UNLOCKED	CPE not being updated.

Table 270. (continued)

Len	Type	value	Name	Description
1	HEX	01	CPE_LPA_LOCATING	Program being located in LPA
1	HEX	02	CPE_RPL_LOCATING	Program being located in RPL
1	HEX	03	CPE_RPL_LOADING	Program being loaded from RPL
1	HEX	04	CPE_DISCONNECTING	RPL member being disconnected
1	HEX	10	CPE_APE_CREATING	APE being created for CPE
1	HEX	20	CPE_CSECTL_ CREATING	CSECT lists being created P7A
6	CHARACTER	LDCPE	CPE_EYE_CATCH_I	
CSECTL associated constants				
8	CHARACTER	CSECTL	CSECTL_ID_STRING	
1	DECIMAL	4	CSECTL_NUMBER_ OF_ENTRIES	
8	CHARACTER	DUMMYCDE	CDE_ID_STRING	
D U M P - DUMP CONTROL RECORD IDENTIFIERS ------- These are the dump record identifiers and names for items dumped by Loader dump subroutine.				
8	CHARACTER	LD0001	LDDU_ABEND	
Abend detected in module				
8	CHARACTER	LD0002	LDDU_SEVERE_ERROR	
Severe error detected				
8	CHARACTER	LD0004	LDDU_LOOP	
Loop detected in module				
8	CHARACTER	LD0105	LDDU_BAD_LOB	
Corrupt LOB detected				
8	CHARACTER	LD0201	LDDU_BAD_STRUCTURE	
Corrupt CPE detected				
8	CHARACTER	LD0204	LDDU_BAD_PDB	
Corrupt PDB retrieved				
8	CHARACTER	LD0205	LDDU_BAD_PLDB	
Global associated constants				
8	CHARACTER	ANCHOR	GLOBAL_ID_STRING	
2	CHARACTER	LD	EYECATCHER_DOMID	
3	CHARACTER	DFH	EYECATCHER_DFH	
1	CHARACTER	>	EYECATCHER_ARROW	
Program subpool constants				

Table 270. (continued)

Len	Type	value	Name	Description
4	DECIMAL	16	MAXSUBPOOLS	
4	DECIMAL	1	NUCLEUS24_POOL	
4	DECIMAL	2	NUCLEUS31_POOL	
4	DECIMAL	3	NUCLEUS24_RO_POOL	
4	DECIMAL	4	NUCLEUS31_RO_POOL	
4	DECIMAL	5	NUCLEUS24_ RESIDENT_POOL	
4	DECIMAL	6	NUCLEUS31_ RESIDENT_POOL	
4	DECIMAL	7	NUCLEUS24_ RESIDENT_RO_POOL	
4	DECIMAL	8	NUCLEUS31_ RESIDENT_RO_POOL	
4	DECIMAL	9	RESIDENT24_POOL	
4	DECIMAL	10	RESIDENT31_POOL	
4	DECIMAL	11	RESIDENT24_RO_POOL	
4	DECIMAL	12	RESIDENT31_RO_POOL	
4	DECIMAL	13	PROGRAM24_POOL	
4	DECIMAL	14	PROGRAM31_POOL	
4	DECIMAL	15	PROGRAM24_RO_POOL	
4	DECIMAL	16	PROGRAM31_RO_POOL	
Storage subpool ID strings				
8	CHARACTER	LD_CNTRL	CONTROL_POOL_NAME	
8	CHARACTER	LD_PLIBE	PLIBE_CELL_ POOL_NAME	
8	CHARACTER	LD_PSCHT	PSCHT_CELL_ POOL_NAME	
8	CHARACTER	LD_JFCB	JFCB_POOL_NAME	
8	CHARACTER	LD_APES	APE_CELL_POOL_NAME	
8	CHARACTER	LD_CPES	CPE_CELL_POOL_NAME	
8	CHARACTER	LD_CSECT	CSECTL_CELL_ POOL_NAME	
8	CHARACTER	LD_CDE	DUMMY_CDE_ POOL_NAME	
8	CHARACTER	LDNUC	NUCLEUS24_ POOL_NAME	
8	CHARACTER	LDENUC	NUCLEUS31_ POOL_NAME	
8	CHARACTER	LDNUCRO	NUCLEUS24_ RO_POOL_NAME	
8	CHARACTER	LDENUCRO	NUCLEUS31_ RO_POOL_NAME	

Table 270. (continued)

Len	Type	value	Name	Description
8	CHARACTER	LDNRS	NUCLEUS24_ RESIDENT_POOL_ NAME	
8	CHARACTER	LDENRS	NUCLEUS31_ RESIDENT_POOL_ NAME	
8	CHARACTER	LDNRSRO	NUCLEUS24_ RESIDENT_RO_POOL_ NAME	
8	CHARACTER	LDENRSRO	NUCLEUS31_ RESIDENT_RO_POOL_ NAME	
8	CHARACTER	LDRES	RESIDENT24_ POOL_NAME	
8	CHARACTER	LDERES	RESIDENT31_ POOL_NAME	
8	CHARACTER	LDRESRO	RESIDENT24_ RO_POOL_NAME	
8	CHARACTER	LDERESRO	RESIDENT31_ RO_POOL_NAME	
8	CHARACTER	LDPGM	PROGRAM24_ POOL_NAME	
8	CHARACTER	LDEPGM	PROGRAM31_ POOL_NAME	
8	CHARACTER	LDPGMRO	PROGRAM24_ RO_POOL_NAME	
8	CHARACTER	LDEPGMRO	PROGRAM31_ RO_POOL_NAME	
Storage subpool boundary constants				
2	DECIMAL	16	CONTROL_POOL_BDY	
2	DECIMAL	8	PLIBE_CELL_POOL_BDY	
2	DECIMAL	8	PSCHT_CELL_POOL_BDY	
2	DECIMAL	8	APE_CELL_POOL_BDY	
2	DECIMAL	8	CPE_CELL_POOL_BDY	
2	DECIMAL	8	CSECTL_CELL_POOL_BDY	
2	DECIMAL	16	DUMMY_CDE_POOL_BDY	
2	DECIMAL	256	NUCLEUS24_POOLS_BDY	
2	DECIMAL	256	NUCLEUS31_POOLS_BDY	
2	DECIMAL	16	RESIDENT_POOLS_BDY	
2	DECIMAL	16	PROGRAM_POOLS_BDY	
Number of DSAs. Note that Loader does not load programs into all DSAs.				
4	DECIMAL	6	MAXDSAS	
5	CHARACTER	CDSA	CDSA_NAME	

Table 270. (continued)

Len	Type	value	Name	Description
5	CHARACTER	SDSA	SDSA_NAME	
5	CHARACTER	RDSA	RDSA_NAME	
5	CHARACTER	ECDSA	ECDSA_NAME	
5	CHARACTER	ESDSA	ESDSA_NAME	
5	CHARACTER	ERDSA	ERDSA_NAME	
5	CHARACTER	LPA	LPA_NAME	
5	CHARACTER	ELPA	ELPA_NAME	
5	CHARACTER	RGN	RGN_NAME	
5	CHARACTER	ERGN	ERGN_NAME	
Loader domain statuses				
2	DECIMAL	1023	LOADER_PRE_INITIALISING	
2	DECIMAL	1024	LOADER_PRE_INITIALISED	
2	DECIMAL	2047	LOADER_INITIALISING	
2	DECIMAL	2048	LOADER_UP_AND_RUNNING	
2	DECIMAL	28671	LOADER_QUIESCING	
2	DECIMAL	28672	LOADER_QUIESCED	
2	DECIMAL	32767	LOADER_TERMINATING	
2	DECIMAL	32768	LOADER_TERMINATED	
LPA statuses				
1	DECIMAL	2	LD_LPA_NOT_IN_USE	
1	DECIMAL	1	LD_LPA_IN_USE	
DFHRPL library statuses				
1	HEX	FF	LD_RPL_CLOSED	
1	HEX	A1	LD_RPL_OPEN	
LLACOPY usage status				
1	DECIMAL	1	LD_LLACOPY_YES	
1	DECIMAL	2	LD_LLACOPY_NO	
1	DECIMAL	3	LD_LLACOPY_NEWCOPY	
Loader domain lock data				
8	CHARACTER	LD_GBLOK	STATE_LOCK_NAME	
8	CHARACTER	LD_LBLOK	LIBRARY_LOCK_NAME	
LIBRARY resource lock data				
8	CHARACTER	LD_LCLOK	PLIBE_CHAIN_LOCK_NAME	
Loader CICS catalog record types				
8	CHARACTER	LD_PDEFN	PROGRAM_DEFINITION	

Table 270. (continued)

Len	Type	value	Name	Description
8	CHARACTER	LD_LOB	OPTION_BLOCK	
Loader loaded modules				
8	CHARACTER	DFHLDDMI	SECONDARY_ INITIALISATION	
8	CHARACTER	DFHLDNT	STORAGE_NOTIFY	
8	CHARACTER	DFHLDST	STATISTICS	
Default definitions				
1	DECIMAL	3	DEFAULT_PROGRAM_TYPE	
1	DECIMAL	1	DEFAULT_PROGRAM_ USAGE	
1	DECIMAL	2	DEFAULT_PROGRAM_ ATTRIBUTE	
1	DECIMAL	3	DEFAULT_REQUIRED_ RMODE	
1	DECIMAL	4	DEFAULT_REQUIRED_ AMODE	
1	DECIMAL	1	DEFAULT_CATALOG_ MODULE	
1	DECIMAL	2	DEFAULT_EXECUTION_ KEY	
4	DECIMAL	16777216	DEFAULT_DSA_ RPS_TARGET	
4	DECIMAL	2147483647	DEFAULT_EDSA_ RPS_TARGET	
1	DECIMAL	50	DEFAULT_STORAGE_ FACTOR	
Miscellaneous constants				
4	HEX	00FFFFFF	SIXTEEN_MEG	
4	DECIMAL	14336	LD_STATS_BUFFER_SIZE	
4	CHARACTER	LDNM	LD_LONG_NAME_ CACHE_NAME	
4	DECIMAL	252	LD_LONG_NAME_ CACHE_KEYL	
Cache entry data (ETOKEN) contains a member name, or the following value to show that DESERV couldn't find the alias.				
8	CHAR HEX	FFFFFFFFFFFFFFFF	LD_LONG_NAME_ NOT_IN_RPL	
or the following value to show that the cache has been told to forget, during a NEWCOPY.				
8	CHAR HEX	FFFFFFFF00000000	LD_LONG_NAME_ CACHE_INVALID	
The following value is used in the code to remember that there was no entry in the cache for a given name.				
8	CHAR HEX	0000000000000000	LD_LONG_NAME_ NOT_CACHED	

Table 270. (continued)

Len	Type	value	Name	Description
LPA search routine responses				
1	DECIMAL	8	NOT_FOUND	
LAFPB associated constants				
8	CHARACTER	LAFPB	LAFPB_ID_STRING	
LAFPB function codes				
1	DECIMAL	1	LAFPB_RPL_LOAD	
1	DECIMAL	2	LAFPB_RPL_BLDL	
1	DECIMAL	4	LAFPB_RPL_OPEN	
1	DECIMAL	8	LAFPB_RPL_CLOSE	
1	DECIMAL	16	LAFPB_RPL_LLACOPY	
1	DECIMAL	32	LAFPB_RPL_DISCONNECT	
1	DECIMAL	33	LAFPB_RPL_GET_SMDE	
1	DECIMAL	34	LAFPB_RPL_ LOAD_WITH_PMAR	
1	DECIMAL	35	LAFPB_RPL_END	
(lafpb_lib_end) is assumed because no real LIBRARY				
1	DECIMAL	64	LAFPB_LIB_INIT	
1	DECIMAL	65	LAFPB_LIB_LOAD	
1	DECIMAL	66	LAFPB_LIB_BLDL	
1	DECIMAL	68	LAFPB_LIB_OPEN	
1	DECIMAL	72	LAFPB_LIB_CLOSE	
1	DECIMAL	80	LAFPB_LIB_LLACOPY	
1	DECIMAL	81	LAFPB_LIB_ALLOC	
1	DECIMAL	82	LAFPB_LIB_UNALLOC	
1	DECIMAL	83	LAFPB_LIB_CONCAT	
1	DECIMAL	84	LAFPB_LIB_DECONCAT	
1 line deleted !				
1	DECIMAL	86	LAFPB_LIB_BUILD_CA	
1	DECIMAL	87	LAFPB_LIB_FREE_CA	
1	DECIMAL	96	LAFPB_LIB_DISCONNECT	
1	DECIMAL	97	LAFPB_LIB_GET_SMDE	
1	DECIMAL	98	LAFPB_LIB_ LOAD_WITH_PMAR	
1 line deleted ! LAFPB response codes				
1	DECIMAL	0	LAFPB_OK	
1	DECIMAL	1	LAFPB_NOTFOUND	
1	DECIMAL	2	LAFPB_NOT_EXECUTABLE	

Table 270. (continued)

Len	Type	value	Name	Description
1	DECIMAL	3	LAFPB_IOERR	
1	DECIMAL	4	LAFPB_NOSTORE	
1	DECIMAL	5	LAFPB_OPEN_ERROR	
1	DECIMAL	6	LAFPB_CLOSE_ERROR	
1	DECIMAL	8	LAFPB_EXTENT_ERROR	
1	DECIMAL	9	LAFPB_NOT_CONNECTED	
1	DECIMAL	10	LAFPB_IS_PDS	
1	DECIMAL	11	LAFPB_BAD_CONCATNO	
1	DECIMAL	12	LAFPB_INFO	
1	DECIMAL	13	LAFPB_WARN	
1	DECIMAL	14	LAFPB_PARM	
1	DECIMAL	15	LAFPB_CALR	
1	DECIMAL	16	LAFPB_NO_FESTAE	
1	DECIMAL	17	LAFPB_ENVR	
1	DECIMAL	18	LAFPB_BAD_PARM	
1	DECIMAL	32	LAFPB_NO_DD	
1	DECIMAL	64	LAFPB_NO_ AUTHORISATION	
1	DECIMAL	65	LAFPB_BAD_STORAGE	
1	DECIMAL	96	LAFPB_INVALID_ PLIBE_PTR	
1	DECIMAL	97	LAFPB_INVALID_ CA_TOKEN	
1	DECIMAL	112	LAFPB_ALLOC_ERROR	
1	DECIMAL	113	LAFPB_CONCAT_ERROR	
1	DECIMAL	114	LAFPB_DECONCAT_ERROR	
1	DECIMAL	115	LAFPB_UNALLOC_ERROR	
1	DECIMAL	128	LAFPB_UNKNOWN_ERROR	
1	DECIMAL	255	LAFPB_INVALID_ FUNCTION	
LDBE associated constants				
8	CHARACTER	LDBE	LDBE_ID_STRING	
8	CHARACTER	LDBE_ANC	LDBE_ANCHOR_ID	
8	CHARACTER	LDBE_LIB	LDBE_LIB_ID_STRING	
8	CHARACTER	LDBE_LAN	LDBE_LIB_ANCHOR_ID	
LDWE associated constants				
8	CHARACTER	LDWE	LDWE_ID_STRING	
8	CHARACTER	LDWE_ANC	LDWE_ANCHOR_ID	
4	DECIMAL	0	LDWE_RESUME_NO	Resume not required

Table 270. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1	LDWE_RESUME_YES	Resume required
Abend detected in LD module Insert1_hex = offset from module start Insert2_char = Module name				
4	DECIMAL	1	LDME_ABEND	
Severe error detected in LD module Insert1_hex = offset from module start Insert2_char = Module name				
4	DECIMAL	2	LDME_SEVERE_ERROR	
Loop detected in LD module Insert1_hex = offset from module start Insert2_char = Module name				
4	DECIMAL	4	LDME_LOOP	
Loader nucleus module not found. Insert1_char = Module name				
4	DECIMAL	101	LDME_NO_MODULE	
Unable to define entry point to DFHLDNT module. Insert1_char = Module name Insert2_char = Format number				
4	DECIMAL	102	LDME_ADD_GATE_FAILED	
Dynamic program storage compression is not operational, all non-resident programs will be treated as USAGE=TRANSIENT.				
4	DECIMAL	103	LDME_NO_NT_MODULE	
Program statistics are not being collected.				
4	DECIMAL	104	LDME_NO_ST_MODULE	
The Loader Option Block (LOB) read from the CICS catalog contains at least one invalid field. All parameters in this block have been ignored.				
4	DECIMAL	105	LDME_CC_LOB_BAD	
Bad response 'hh'x received when attempting to open the relocatable library (DFHRPL). Insert1_bin = I/O error response from DCB				
4	DECIMAL	106	LDME_BAD_OPEN	
This is the old number for the message which is now replaced by message 0109				
4	DECIMAL	107	LDME_NOT_IN_LPA_OLD	
@BA57063A The maximum number of entries, 32767, to @BA57063A be passed to BLDL on the BLDL parameter @BA57063A list, has been exceeded. @BA57063A				
4	DECIMAL	108	LDME_BLDL_LIMIT_EXCEEDED	
				@BA57063A
The Link Pack Area (LPA) has been searched for a given module, no module was found. Loader domain will now search the LIBRARY concatenations in search order, including (but not necessarily starting with) the static LIBRARY (DFHRPL).				
4	DECIMAL	109	LDME_NOT_IN_LPA	

Table 270. (continued)

Len	Type	value	Name	Description
Invalid PROGRAM_TYPE field detected in Loader 'BBB' structure at location 'hhhhhhhh'. ---diagnosis-- ---diagnosis--- is one of the following texts: 1/ (Storage overwrite suspected.) 2/ (Catalog corruption suspected.) Insert1_char = Blockid (PDB,CPE or APE) Insert2_bin = address of control block in error.				
4	DECIMAL	201	LDME_CONBLOK_INVALID	
SVC request failed due to shortage of OS storage.				
4	DECIMAL	202	LDME_NO_OS_STORAGE	
SVC request failed due to LIBRARY I/O errors on DFHRPL.				
4	DECIMAL	203	LDME_LIBRARY_IO_ERROR	
Bad Loader PDB for program 'progname' read from Global|Local catalog, corruption suspected. Insert1_char = program name Insert2_bin = optional text number				
4	DECIMAL	204	LDME_BAD_PDB	*
Bad Loader PLDB for LIBRARY 'libname' recovered from global catalog, corruption suspected. Insert1_char = library name				
4	DECIMAL	205	LDME_BAD_PLDB	*
SVC request failed due to LIBRARY I/O errors on a dynamic LIBRARY concatenation.				
4	DECIMAL	206	LDME_LIBRARY_IO_ERROR_LIB	
1	DECIMAL	2	ME_GLOBAL_CAT	
1	DECIMAL	1	ME_LOCAL_CAT	
Number of data set slots in the PLDB				
1	DECIMAL	16	PLDB_SLOT_NUM	
PLDB associated constants				
0	BIT	1	PLDB_ENABLED	
0	BIT	0	PLDB_DISABLED	
0	BIT	1	PLDB_IS_CRITICAL	
0	BIT	0	PLDB_NOT_CRITICAL	
PLIBE associated constants				
8	CHARACTER	PLIBE	PLIBE_ID_STRING	
8	CHARACTER	PLIB-ANC	PLIBE_ANCHOR_ID	
8	CHARACTER	RPL-DSE	PLIBE_RPL_DSE_ID	
Name for the special static LIBRARY, DFHRPL				
8	CHARACTER	DFHRPL	STATIC_LIBRARY_NAME	
PLIBE status				
1	HEX	80	PLIBE_USED	
1	HEX	FF	PLIBE_FREED	
Number of data set slots in the PLIBE				

Table 270. (continued)

Len	Type	value	Name	Description
1	DECIMAL	16	PLIBE_SLOT_NUM	
Constants for PLIBE enablement states				
1	DECIMAL	0	PLIBE_STATE_UNKNOWN	Enablement unknown
1	DECIMAL	1	PLIBE_ENABLED	LIBRARY enabled
1	DECIMAL	2	PLIBE_DISABLED	LIBRARY disabled
1	DECIMAL	3	PLIBE_ENABLING	LIBRARY enabling
1	DECIMAL	4	PLIBE_DISABLING	LIBRARY disabling
1	DECIMAL	5	PLIBE_DISCARDING	LIBRARY discarding
PLIBE catalog status flags for cataloging of PLDB				
0	BIT	0	PLIBE_CC_NOTREQD	PLDB catalog of PLDB for this PLIBE
0	BIT	1	PLIBE_CC_REQD	PLDB catalog needed for this PLIBE
PSCHT associated constants				
8	CHARACTER	PSCHT	PSCHT_ID_STRING	
8	CHARACTER	PSCHT-AN	PSCHT_ANCHOR_ID	
PSCHT status				
1	HEX	80	PSCHT_USED	To indicate PSCHT initialized and active
1	HEX	FF	PSCHT_FREED	To indicate PSCHT storage FREEMAINed
DOMAIN ENTRY (LDLD functional gate) level = 1 module = DFHLDLD Generated as the first operation on entry to the domain for all calls. caller. DATA1 = Loader Parameter list				
2	HEX	0001	TRLD_ENTRY_TRACE	
DOMAIN EXIT (LDLD functional gate) level = 1 or EXCEPTION module = DFHLDLD Generated as the final operation prior to performing return via the Kernel to the Loader's caller. DATA1 = Loader Parameter list				
2	HEX	0002	TRLD_EXIT_TRACE	
RECOVERY ENTERED (LDLD functional gate) level = EXCEPTION module = DFHLDLD This trace entry is put out if the active recovery routine is driven. DATA1 = parameter list DATA2 = Kernel error data				
2	HEX	0701	TRLD_RECOVERY_ ENTERED	

Table 270. (continued)

Len	Type	value	Name	Description
INVALID FORMAT (LDLD functional gate) level = EXCEPTION module = DFHLDLD This trace entry is put out if a call is made to the LDLD gate using the incorrect parameter list format DATA1 = parameter list				
2	HEX	0801	TRLD_INVALID_FORMAT	
INVALID FUNCTION (LDLD functional gate) level = EXCEPTION module = DFHLDLD This trace entry is put out if a call is made to the LDLD gate specifying an invalid function. DATA1 = parameter list				
2	HEX	0802	TRLD_INVALID_FUNCTION	
INVALID PARAMETERS (LDLD functional gate) level = EXCEPTION module = DFHLDLD This trace entry is put out if an invalid combination of parameters is detected. DATA1 = parameter list				
2	HEX	0803	TRLD_INVALID_PARAMETERS	
INVALID PDB (LDLD functional gate) level = EXCEPTION module = DFHLDLD This trace entry is put out if an invalid PDB is recovered from the catalog. DATA1 = program name DATA2 = PDB				
2	HEX	0804	TRLD_BAD_PDB	
INVALID ENTRY POINT (LDLD functional gate) level = EXCEPTION module = DFHLDLD This trace entry is put out if an invalid entry point is presented to the Loader on a release program request. DATA1 = call plist				
2	HEX	0806	TRLD_INVALID_ENTRY_POINT	
INVALID PGM TOKEN (LDLD FUNCTIONAL GATE) level = EXCEPTION module = DFHLDLD These trace entries are put out if an invalid program token is presented to the loader. DATA2 = CALL PLIST				
2	HEX	0807	TRLD_INVALID_PGM_TOKEN	
2	HEX	0808	TRLD_INVALID_PGM_TOKEN_1	
2	HEX	0809	TRLD_INVALID_PGM_TOKEN_2	
LDWE GET FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD This trace entry is put out if a GETMAIN for an LDWE fails whilst trying to suspend a task. DATA1 = parameter list				
2	HEX	0903	TRLD_LDWE_GETMAIN	
ADD SUSPEND FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD This trace entry is put out if a dispatcher ADD_SUSPEND request fails whilst trying to suspend a task due to a CPE having been locked by another task in the system for a LOAD or BLDL. DATA1 = parameter list				
2	HEX	0905	TRLD_ADD_SUSPEND	

Table 270. (continued)

Len	Type	value	Name	Description
DELETE SUSPEND FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD This trace entry is put out if a dispatcher DELETE_SUSPEND request fails whilst trying to suspend a task due to a CPE having been locked by another task in the system for a LOAD or BLDL. DATA1 = parameter list				
2	HEX	0906	TRLD_DELETE_ SUSPEND	
SUSPEND FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD This trace entry is put out if a dispatcher SUSPEND request fails whilst trying to suspend a task due to a CPE having been locked by another task in the system for a LOAD or BLDL. DATA1 = parameter list				
2	HEX	0907	TRLD_SUSPEND	
CPE GETMAIN (LDLD functional gate) level = EXCEPTION module = DFHLDLD This trace entry is put out if a getmain for storage for a CPE fails. DATA1 = parameter list				
2	HEX	0908	TRLD_CPE_GETMAIN	
LOCK FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD These trace entries are put out if a request to LOCK the Loader state lock fails. DATA1 = parameter list				
2	HEX	0909	TRLD_LOCK	
2	HEX	090A	TRLD_LOCK_1	
UNLOCK FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD These trace entries are put out if a request to UNLOCK the Loader state lock fails. DATA1 = parameter list				
2	HEX	090B	TRLD_UNLOCK	
2	HEX	090C	TRLD_UNLOCK_1	
INQUIRE START (LDLD functional gate) level = EXCEPTION module = DFHLDLD This trace entry is put out if a request to Parameter Domain to determine CICS Start type fails. DATA1 = PAGP parameter list DATA2 = LDLD parameter list				
2	HEX	090D	TRLD_INQUIRE_START	
PRE-SVC CALL (LDLD functional gate) level = 1 module = DFHLDLD1 Generated immediately prior to issuing an SVC to invoke the Loader's authorised facilities module. DATA1 = Authorised Facility Plist < DATA2 > = BLDL Plist (BLDL or RPL load)				
2	HEX	1003	TRLD1_SVC_CALL	
PRE-SVC CALL (LDLD functional gate) level = 1 module = DFHLDLD2 Generated immediately prior to issuing an SVC to invoke the Loader's authorised facilities module. DATA1 = Authorised Facility Plist				
2	HEX	2904	TRLD2_SVC_CALL	

Table 270. (continued)

Len	Type	value	Name	Description
PRE-SVC CALL (LDLD functional gate) level = 1 module = DFHLDLD3 Generated immediately prior to issuing an SVC to invoke the Loader's authorised facilities module. DATA1 = Authorised Facility Plist < DATA2 > = DESERV GET Name List (DESN)				
2	HEX	390B	TRLD3_SVC_CALL	
POST-SVC CALL (LDLD functional gate) level = 1 module = DFHLDLD1 Generated on return from the Loader's SVC service routine if a normal return code has been presented by the routine. DATA1 = Authorised Facility Plist < DATA2 > = BLDL Plist (BLDL or RPL load)				
2	HEX	1004	TRLD1_SVC_RETURN	
POST-SVC CALL (LDLD functional gate) level = 1 module = DFHLDLD2 Generated on return from the Loader's SVC service routine if a normal return code has been presented by the routine. DATA1 = Authorised Facility Plist				
2	HEX	2905	TRLD2_SVC_RETURN	
POST-SVC CALL (LDLD functional gate) level = 1 module = DFHLDLD3 Generated on return from the Loader's SVC service routine if a normal return code has been presented by the routine. DATA1 = Authorised Facility Plist < DATA2 > = DESERV GET o/p area (DESB)				
2	HEX	390C	TRLD3_SVC_RETURN	
DSA_COMPRESSION (LDLD functional gate) level = 2 module = DFHLDLD1 Generated when a program instance is selected for deletion from a DSA by the program storage compression algorithms. DATA1 = Active Program Element (APE) DATA2 = DSA name				
2	HEX	1005	TRLD1_DSA_ COMPRESSION	
PRE_LOAD (LDLD functional gate) level = 1 module = DFHLDLD1 Generated prior to issuing a CSVQUERY call to access an LPA resident module. DATA1 = Program name				
2	HEX	1007	TRLD1_PRE_CSVQUERY	
POST_LOAD (LDLD functional gate) level = 1 module = DFHLDLD1 Generated after issuing a CSVQUERY call to access an LPA resident module. DATA1 = Program name DATA1 = Return code				
2	HEX	1008	TRLD1_POST_ CSVQUERY	
RECOVERY_ENTERED (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 This trace entry is put out if the active recovery routine is driven. DATA1 = parameter list DATA2 = Kernel error data				
2	HEX	1701	TRLD1_RECOVERY_ ENTERED	
INVALID_FUNCTION (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 This trace entry is put out if a call is made to module LDLD1 specifying an invalid function. DATA1 = parameter list				
2	HEX	1801	TRLD1_INVALID_ FUNCTION	

Table 270. (continued)

Len	Type	value	Name	Description
SVC_EXCEPTION (LDLD functional gate) level = EXCEPTION module = DFHLDLD1/DFHLDDMI Generated whenever a bad return code is received from the SVC service routine which provides Loader authorised facilities. DATA1 = Authorised Facility Plist < DATA2 > = BLDL Plist (BLDL or RPL load)				
2	HEX	1802	TRLD1_SVC_ EXCEPTION	
SVC_EXCEPTION (LDLD functional gate) level = EXCEPTION module = DFHLDLD2 Generated on return from the Loader's SVC service routine if a bad return code has been presented by the routine. DATA1 = Authorised Facility Plist				
2	HEX	2906	TRLD2_SVC_ EXCEPTION	
SVC_EXCEPTION (LDLD functional gate) level = EXCEPTION module = DFHLDLD3 Generated on return from the Loader's SVC service routine if a bad return code has been presented by the routine. DATA1 = Authorised Facility Plist < DATA2 > = DESERV GET o/p area (DESB)				
2	HEX	390D	TRLD3_SVC_ EXCEPTION	
MODE CHANGE FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD3 These trace entries are put out whenever a request for change of dispatch mode fails. DATA1 = Call Parameter list.				
2	HEX	390E	TRLD3_MODE_CHANGE	
Long name value input to CONVERT_NAME (LDLD gate) level = EXCEPTION the convert has just failed module = DFHLDLD3 DATA1 = LDLD_LONG_NAME parameter input to convert				
2	HEX	3910	TRLD3_LONG_NAME	
CORRUPT CONTROL BLOCK (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 This trace entry is put out whenever a bad control block field is detected. DATA1 = Control block address. DATA2 = Control block identifier. DATA3 = Control block.				
2	HEX	1803	TRLD1_BAD_ STRUCTURE	
LOAD EXCEPTION (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 Generated whenever a CSVQUERY call fails to locate a module in the LPA. DATA1 = Program name DATA1 = Return code				
2	HEX	1804	TRLD1_CSVQUERY_ EXCEPTION	
APE GETMAIN FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 This trace entry is put out whenever a GETMAIN for an APE fails. DATA1 = Call Parameter list.				
2	HEX	1903	TRLD1_APE_GETMAIN	
CSECTL GETMAIN FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 This trace entry is put out whenever a GETMAIN for a CSECTL fails. DATA1 = Call Parameter list.				
2	HEX	1905	TRLD1_CSECTL_ GETMAIN	

Table 270. (continued)

Len	Type	value	Name	Description
PGM GETMAIN FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 This trace entry is put out whenever a GETMAIN for program staorage. DATA1 = Call Parameter list.				
2	HEX	1907	TRLD1_PGM_GETMAIN	
CDE GETMAIN FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 This trace entry is put out whenever a GETMAIN for a dummy CDE fails. DATA1 = Call Parameter list.				
2	HEX	1928	TRLD1_CDE_ GETMAIN_FAIL	
STATE LOCK FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 These trace entries are put out whenever a LOCK request fails for the state lock. DATA1 = Call Parameter list.				
2	HEX	1910	TRLD1_STATE_LOCK	
2	HEX	1911	TRLD1_STATE_LOCK_1	
2	HEX	1912	TRLD1_STATE_LOCK_2	
2	HEX	1913	TRLD1_STATE_LOCK_3	
2	HEX	1914	TRLD1_STATE_LOCK_4	
2	HEX	1902	TRLD1_STATE_LOCK_5	
2	HEX	192D	TRLD1_STATE_LOCK_6	
STATE UNLOCK FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 These trace entries are put out whenever an UNLOCK request fails for the state lock. DATA1 = Call Parameter list.				
2	HEX	1915	TRLD1_STATE_UNLOCK	
2	HEX	1916	TRLD1_STATE_ UNLOCK_1	
2	HEX	1917	TRLD1_STATE_ UNLOCK_2	
2	HEX	1918	TRLD1_STATE_ UNLOCK_3	
2	HEX	1929	TRLD1_STATE_ UNLOCK_4	
LIBRARY LOCK FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 These trace entries are put out whenever a LOCK request fails for the library lock. DATA1 = Call Parameter list.				
2	HEX	1919	TRLD1_LIBRARY_LOCK	
2	HEX	191A	TRLD1_LIBRARY_ LOCK_1	
2	HEX	191B	TRLD1_LIBRARY_ LOCK_2	
2	HEX	192B	TRLD1_LIBRARY_ LOCK_3	
2	HEX	3909	TRLD3_LIBRARY_LOCK	
2	HEX	390E	TRLD3_LIBRARY_ LOCK_1	

Table 270. (continued)

Len	Type	value	Name	Description
LIBRARY UNLOCK FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 These trace entries are put out whenever an UNLOCK request fails for the library lock. DATA1 = Call Parameter list.				
2	HEX	191C	TRLD1_LIBRARY_UNLOCK	
2	HEX	191D	TRLD1_LIBRARY_UNLOCK_1	
2	HEX	191E	TRLD1_LIBRARY_UNLOCK_2	
2	HEX	191F	TRLD1_LIBRARY_UNLOCK_3	
2	HEX	192C	TRLD1_LIBRARY_UNLOCK_4	
2	HEX	390A	TRLD3_LIBRARY_UNLOCK	
2	HEX	390F	TRLD3_LIBRARY_UNLOCK_1	
MODE CHANGE FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 These trace entries are put out whenever a request for change of dispatch mode fails. DATA1 = Call Parameter list.				
2	HEX	1920	TRLD1_MODE_CHANGE	
2	HEX	1921	TRLD1_MODE_CHANGE_1	
2	HEX	192A	TRLD1_MODE_CHANGE_2	
NO OS STORAGE (LDLD functional gate) level = EXCEPTION module = DFHLDLD1 Generated whenever an MVS LOAD or BLDL request fails due to lack of OS storage. DATA1 = Call Parameter list.				
2	HEX	1922	TRLD1_NO_OS_STORAGE	
2	HEX	1923	TRLD1_NO_OS_STORAGE_1	
LIBRARY I/O ERROR level = EXCEPTION module = DFHLDLD1 Generated whenever an MVS LOAD or BLDL request fails due to I/O errors on the library. DATA1 = Call Parameter list.				
2	HEX	1924	TRLD1_LIBRARY_IO_ERROR	
2	HEX	1925	TRLD1_LIBRARY_IO_ERROR_1	
SVC REQUEST FAILURE level = EXCEPTION module = DFHLDLD1 Generated whenever an MVS LOAD or BLDL request fails due to no specific reason. DATA1 = Call Parameter list.				
2	HEX	1926	TRLD1_SVC_REQUEST_FAILURE	
2	HEX	1927	TRLD1_SVC_REQUEST_FAILURE_1	

Table 270. (continued)

Len	Type	value	Name	Description
RECOVERY ENTERED (LDLD functional gate) level = EXCEPTION module = DFHLDLD2 This trace entry is put out if the active recovery routine is driven. DATA1 = parameter list DATA2 = Kernel error data				
2	HEX	2701	TRLD2_RECOVERY_ ENTERED	
FAILED CATALOG WRITE (LDLD functional gate) level = EXCEPTION module = DFHLDLD2 This trace entry is put out if a catalog write request returns a response other than ok. DATA1 = CCCC parameter list. DATA2 = Data to be written.				
2	HEX	2901	TRLD2_CC_WRITE	
2	HEX	2909	TRLD2_CC_WRITE_2	
CATALOG DELETE FAILED (LDLD functional gate) level = EXCEPTION module = DFHLDLD2 This trace entry is put out if a bad response is returned by the catalog when requested to delete a program definition record as part of a Loader DELETE_PROGRAM request. DATA1 = CCCC parameter list				
2	HEX	2902	TRLD2_CC_DELETE	
CPE GETMAIN FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD2 This trace entry is put out whenever a GETMAIN for a CPE fails. DATA1 = Call Parameter list.				
2	HEX	2903	TRLD2_CPE_GETMAIN	
RECOVERY ENTERED (LDLD functional gate) level = EXCEPTION module = DFHLDLD3 This trace entry is put out if the active recovery routine is driven. DATA1 = parameter list DATA2 = Kernel error data				
2	HEX	3701	TRLD3_RECOVERY_ ENTERED	
FAILED CATALOG WRITE (LDLD functional gate) level = EXCEPTION module = DFHLDLD3 This trace entry is put out if a catalog write request returns a response other than ok. DATA1 = CCCC parameter list. DATA2 = Data to be written.				
2	HEX	3901	TRLD3_CC_WRITE	
2	HEX	3905	TRLD3_CC_ WRITE_PDB1	
2	HEX	3906	TRLD3_CC_ WRITE_PDB2	
2	HEX	3907	TRLD3_CC_ WRITE_PDB3	
2	HEX	3908	TRLD3_CC_ WRITE_PDB4	
LDBE GET FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD3 This trace entry is put out if a GETMAIN for an LDBE fails whilst processing a start browse. DATA1 = parameter list				
2	HEX	3902	TRLD3_LDBE_GETMAIN	
PRVMOD GETMAIN FAILURE (LDLD functional gate) level = EXCEPTION module = DFHLDLD3 This trace entry is put out if the GETMAIN for PRVMOD fails. DATA1 = parameter list				

Table 270. (continued)

Len	Type	value	Name	Description
2	HEX	3904	TRLD3_PRVMOD_ GETMAIN	
DOMAIN ENTRY (LDNT SM Notify gate) level = 1 module = DFHLDNT Generated as the first operation on entry to the domain for SM STORAGE_NOTIFY requests. caller. DATA1 = SMNT Parameter list				
2	HEX	4001	TRNT_ENTRY_TRACE	
DOMAIN EXIT (LDNT SM Notify gate) level = 1 or EXCEPTION module = DFHLDNT Generated as the final operation prior to performing return via the Kernel to the Loader's caller. DATA1 = SMNT Parameter list				
2	HEX	4002	TRNT_EXIT_TRACE	
RECOVERY ENTERED (LDNT compression gate) level = EXCEPTION module = DFHLDNT This trace entry is put out if the active recovery routine is driven. DATA1 = parameter list DATA2 = Kernel error data				
2	HEX	4701	TRNT_RECOVERY_ ENTERED	
INVALID FORMAT (LDNT compression gate) level = EXCEPTION module = DFHLDNT This trace entry is put out if a call is made to the LDNT gate using the incorrect parameter list format DATA1 = parameter list				
2	HEX	4801	TRNT_INVALID_ FORMAT	
INVALID FUNCTION (LDNT compression gate) level = EXCEPTION module = DFHLDNT This trace entry is put out if a call is made to the LDNT gate specifying an invalid function. DATA1 = parameter list				
2	HEX	4802	TRNT_INVALID_ FUNCTION	
INVALID PARAMETERS (LDNT compression gate) level = EXCEPTION module = DFHLDNT This trace entry is put out if an invalid combination of parameters is detected. DATA1 = parameter list				
2	HEX	4803	TRNT_INVALID_ PARAMETERS	
LOCK FAILURE (LDNT compression gate) level = EXCEPTION module = DFHLDNT This trace entry is put out if a request to LOCK the Loader state lock fails. DATA1 = parameter list				
2	HEX	4901	TRNT_LOCK_FAILURE	
UNLOCK FAILURE (LDNT compression gate) level = EXCEPTION module = DFHLDNT This trace entry is put out if a request to UNLOCK the Loader state lock fails. DATA1 = parameter list				
2	HEX	4902	TRNT_UNLOCK_ FAILURE	
DOMAIN ENTRY (LDST Statistics gate) level = 1 module = DFHLDST Generated as the first operation on entry to the domain for ST COLLECT_STATISTICS requests. caller. DATA1 = STST Parameter list				
2	HEX	5001	TRST_ENTRY_TRACE	

Table 270. (continued)

Len	Type	value	Name	Description
DOMAIN EXIT (LDST Statistics gate) level = 1 or EXCEPTION module = DFHLDST Generated as the final operation prior to performing return via the Kernel to the Loader's caller. DATA1 = STST Parameter list				
2	HEX	5002	TRST_EXIT_TRACE	
RECOVERY ENTERED (LDST statistics gate) level = EXCEPTION module = DFHLDST This trace entry is put out if the active recovery routine is driven. DATA1 = parameter list DATA2 = Kernel error data				
2	HEX	5701	TRST_RECOVERY_ ENTERED	
INVALID FORMAT (LDST statistics gate) level = EXCEPTION module = DFHLDST This trace entry is put out if a call is made to the LDST gate using the incorrect parameter list format DATA1 = parameter list				
2	HEX	5801	TRST_INVALID_ FORMAT	
INVALID FUNCTION (LDST statistics gate) level = EXCEPTION module = DFHLDST This trace entry is put out if a call is made to the LDST gate specifying an invalid function. DATA1 = parameter list				
2	HEX	5802	TRST_INVALID_ FUNCTION	
INVALID PARAMETERS (LDST statistics gate) level = EXCEPTION module = DFHLDST This trace entry is put out if an invalid combination of parameters is detected. DATA1 = parameter list				
2	HEX	5803	TRST_INVALID_ PARAMETERS	
LOCK FAILURE (LDST statistics gate) level = EXCEPTION module = DFHLDST This trace entry is put out if a request to LOCK the Loader state lock fails. DATA1 = parameter list				
2	HEX	5901	TRST_LOCK_FAILURE	
UNLOCK FAILURE (LDST statistics gate) level = EXCEPTION module = DFHLDST This trace entry is put out if a request to UNLOCK the Loader state lock fails. DATA1 = parameter list				
2	HEX	5902	TRST_UNLOCK_ FAILURE	
DOMAIN ENTRY (LDDM init/term gate) level = 1 module = DFHLDDM Generated as the first operation on entry to the domain for all calls. caller. DATA1 = Domain Manager Parameter list				
2	HEX	6001	TRDM_ENTRY_TRACE	
DOMAIN EXIT (LDDM init/term gate) level = 1 or EXCEPTION module = DFHLDDM Generated as the final operation prior to performing return via the Kernel to the Loader's caller. DATA1 = Domain Manager Parameter list				
2	HEX	6002	TRDM_EXIT_TRACE	
PRE-SVC CALL (LDLD functional gate) level = 2 module = DFHLDDM Generated immediately prior to issuing an SVC to invoke the Loader's authorised facilities module. DATA1 = Authorised Facility Plist < DATA2 > = BLDL Plist (BLDL or RPL load)				

Table 270. (continued)

Len	Type	value	Name	Description
2	HEX	6003	TRDM_SVC_CALL	
POST SVC-CALL (LDLD functional gate) level = 2 module = DFHLDDM Generated on return from the Loader's SVC service routine if a normal return code has been presented by the routine. DATA1 = Authorised Facility Plist < DATA2 > = BLDL Plist (BLDL or RPL load)				
2	HEX	6004	TRDM_SVC_RETURN	
POST SVC-CALL (LDLD functional gate) level = EXCEPTION module = DFHLDDM Generated whenever a bad return code is received from the SVC service routine which provides Loader authorised facilities. DATA1 = Authorised Facility Plist < DATA2 > = BLDL Plist (BLDL or RPL load)				
2	HEX	6005	TRDM_SVC_EXCEPTION	
RECOVERY ENTERED (LDDM service gate) level = EXCEPTION module = DFHLDDM This trace entry is put out if the active recovery routine is driven. DATA1 = parameter list DATA2 = Kernel error data				
2	HEX	6701	TRDM_RECOVERY_ ENTERED	
INVALID FORMAT (LDDM service gate) level = EXCEPTION module = DFHLDDM This trace entry is put out if a call is made to the LDDM gate using the incorrect parameter list format DATA1 = parameter list				
2	HEX	6801	TRDM_INVALID_ FORMAT	
INVALID FUNCTION (LDDM service gate) level = EXCEPTION module = DFHLDDM This trace entry is put out if a call is made to the LDLD gate specifying an invalid function. DATA1 = parameter list				
2	HEX	6802	TRDM_INVALID_ FUNCTION	
INVALID PARAMETERS (LDDM service gate) level = EXCEPTION module = DFHLDDM This trace entry is put out if an invalid combination of parameters is detected. DATA1 = parameter list				
2	HEX	6803	TRDM_INVALID_ PARAMETERS	
BAD LOB READ FROM CATALOG (LDDM initialisation) level = EXCEPTION module = DFHLDDM This trace entry is put out if a bad fields is detected in the Loader Option Block (LOB) read from the catalog during pre-initialisation. DATA1 = LOB				
2	HEX	6804	TRDM_BAD_CC_LOB	
DEFINE PROGRAM (LDDM initialisation) level = EXCEPTION module = DFHLDDM This trace entry is put out if a bad response is encountered whilst defining the Loaders secondary initialisation module DFHLDDMI. DATA1 = parameter list.				
2	HEX	6901	TRDM_DEFINE	
ACQUIRE PROGRAM (LDDM initialisation) level = EXCEPTION module = DFHLDDM This trace entry is put out if a bad response is encountered whilst acquiring the Loaders secondary initialisation module DFHLDDMI. DATA1 = parameter list.				
2	HEX	6902	TRDM_ACQUIRE	

Table 270. (continued)

Len	Type	value	Name	Description
RELEASE PROGRAM (LDDM initialisation) level = EXCEPTION module = DFHLDDM This trace entry is put out if a bad response is encountered whilst releasing the Loaders secondary initialisation module DFHLDDMI. DATA1 = parameter list.				
2	HEX	6903	TRDM_RELEASE	
GETMAIN (LDDM initialisation) level = EXCEPTION module = DFHLDDM This trace entry is put out if a bad response is encountered whilst acquiring the staorage for the Loaders global storage. DATA1 = parameter list.				
2	HEX	6905	TRDM_GETMAIN	
ADD GATE (LDDM initialisation) level = EXCEPTION module = DFHLDDM This trace entry is put out if a bad response is encountered whilst adding the LDLD gate. DATA1 = parameter list.				
2	HEX	6908	TRDM_ADD_GATE	
GET PARMS (LDDM initialisation) level = EXCEPTION module = DFHLDDM This trace entry is put out if a bad response is encountered whilst requesting start-up override parameters. DATA1 = parameter list.				
2	HEX	6909	TRDM_GET_PARMS	
CC WRITE (LDDM initialisation) level = EXCEPTION module = DFHLDDM This trace entry is put out if a bad response is encountered whilst writing out the LOB during quiesce. DATA1 = parameter list.				
2	HEX	690B	TRDM_CC_WRITE	
ADD SUBPOOL (LDDM initialisation) level = EXCEPTION module = DFHLDDM Thes trace entries are put out if a bad response is encountered whilst adding one of the Loaders storage subpools. DATA1 = parameter list.				
2	HEX	690D	TRDM_ADD_ CONTROL_POOL_FAIL	
2	HEX	690E	TRDM_ADD_ APE_CELL_POOL_ FAIL	
2	HEX	6923	TRDM_ADD_ CPE_POOL_FAIL	
2	HEX	690F	TRDM_ADD_ CSECTL_POOL_FAIL	
2	HEX	692F	TRDM_ADD_ PLIBE_POOL_FAIL	
2	HEX	692E	TRDM_ADD_ PSCHT_POOL_FAIL	
2	HEX	6910	TRDM_ADD_ LDNUC_POOL_FAIL	
2	HEX	6911	TRDM_ADD_ LDENUC_POOL_FAIL	
2	HEX	6922	TRDM_ADD_ LDNUCRO_POOL_FAIL	

Table 270. (continued)

Len	Type	value	Name	Description
2	HEX	6912	TRDM_ADD_ LDENUCRO_POOL_ FAIL	
2	HEX	6913	TRDM_ADD_ LDRES_POOL_FAIL	
2	HEX	6914	TRDM_ADD_ LDERES_POOL_FAIL	
2	HEX	6920	TRDM_ADD_ LDRESRO_POOL_FAIL	
2	HEX	6915	TRDM_ADD_ LDERESRO_POOL_ FAIL	
2	HEX	6916	TRDM_ADD_ LDPGM_POOL_FAIL	
2	HEX	6917	TRDM_ADD_ LDEPGM_POOL_FAIL	
2	HEX	6921	TRDM_ADD_ LDPGMRO_POOL_FAIL	
2	HEX	6918	TRDM_ADD_ LDEPGMRO_POOL_ FAIL	
2	HEX	6924	TRDM_ADD_ CDE_POOL_FAIL	
2	HEX	6925	TRDM_ADD_ LDNRS_POOL_FAIL	
2	HEX	6926	TRDM_ADD_ LDENRS_POOL_FAIL	
2	HEX	6927	TRDM_ADD_ LDNRSRO_POOL_FAIL	
2	HEX	6928	TRDM_ADD_ LDENRSRO_POOL_ FAIL	
2	HEX	6929	TRDM_LD_IN2_EPADDR	
2	HEX	692A	TRDM_ADD_ JFCB_POOL_FAIL	
SET ANCHOR (LDDM initialisation) level = EXCEPTION module = DFHLDDM These trace entries are put out if a bad response is encountered whilst defining the Loaders global storage to the Kernel. DATA1 = parameter list.				
2	HEX	6919	TRDM_SET_ANCHOR	
2	HEX	691A	TRDM_SET_ANCHOR_1	
ADD LOCK (LDDM initialisation) level = EXCEPTION module = DFHLDDM These trace entries are put out if a bad response is encountered whilst adding one of the Loaders locks. DATA1 = parameter list.				
2	HEX	691B	TRDM_ADD_LOCK	
2	HEX	691C	TRDM_ADD_LOCK_1	

Table 270. (continued)

Len	Type	value	Name	Description
UNLOCK (LDDM initialisation) level = EXCEPTION module = DFHLDDM These trace entries are put out if a bad response is encountered whilst UNLOCKing one of the Loader locks. DATA1 = parameter list.				
2	HEX	691D	TRDM_UNLOCK	
2	HEX	691E	TRDM_UNLOCK_1	
INQUIRE START (LDDM pre-initialise) level = EXCEPTION module = DFHLDDM This trace entry is put out if a bad response is returned when we check whether this CICS startup is cold or not. (using INQUIRE_START). DATA1 = DMDM parameter list. DATA2 = PAGP parameter list				
2	HEX	691F	TRDM_INQUIRE_START	
GETMAIN FAILURE (LDDM initialisation) level = EXCEPTION module = DFHLDDM Error getting storage for program LIBRARY element (PLIBE) to represent DFHRPL. module. DATA1 = DFHLDDM parameter list				
2	HEX	6805	TRDM_GETMAIN_ FAILURE	
RDJFCB FAILURE (LDDM initialisation) level = EXCEPTION module = DFHLDDM Non-zero return code from RDJFCB macro call to get DFHRPL dataset names. module. DATA1 = RDJFCB parameter list DATA2 = RDJFCB return code				
2	HEX	6806	TRDM_RDJFCB_ BAD_RETURN	
RDJFCB FAILURE (LDDM initialisation) level = EXCEPTION module = DFHLDDM Non-zero return code from RDJFCB macro call to get DFHRPL dataset names. For severe_error module. DATA1 = DFHLDDM parameter list				
2	HEX	6807	TRDM_RDJFCB_ FAILURE	
PRE-SVC CALL (LDDM initialisation) level = 1 module = DFHLDDMI Generated immediately prior to issuing an SVC to invoke the Loader's authorised facilities module. DATA1 = Authorised Facility Plist < DATA2 > = BLDL Plist (BLDL or RPL load) Up to the first 200 characters				
2	HEX	7003	TRDMI_SVC_CALL	
POST SVC-CALL (LDDM initialisation) level = 1 module = DFHLDDMI Generated on return from the Loader's SVC service routine if a normal return code has been presented by the routine. DATA1 = Authorised Facility Plist < DATA2 > = BLDL Plist (BLDL or RPL load) Up to the first 200 characters				
2	HEX	7004	TRDMI_SVC_RETURN	
PRE-LOAD (initialisation) level = 1 module = DFHLDDMI Generated prior to issuing a CSVQUERY call to access an LPA resident module. DATA1 = Program name				
2	HEX	7005	TRDMI_PRE_CSVQUERY	
POST LOAD (initialisation) level = 1 module = DFHLDDMI Generated after issuing a CSVQUERY call to access an LPA resident module. DATA1 = Program name DATA2 = Return code				

Table 270. (continued)

Len	Type	value	Name	Description
2	HEX	7006	TRDMI_POST_ CSVQUERY	
RECOVERY ENTERED (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if the active recovery routine is driven. DATA1 = parameter list DATA2 = Kernel error data				
2	HEX	7701	TRDMI_RECOVERY_ ENTERED	
SVC EXCEPTION (initialisation) level = EXCEPTION module = DFHLDDMI Generated whenever a bad return code is received from the SVC service routine which provides Loader authorised facilities. DATA1 = Authorised Facility Plist < DATA2 > = BLDL Plist (BLDL or RPL load) Up to the first 200 characters				
2	HEX	7801	TRDMI_SVC_ EXCEPTION	
INVALID PDB (LDDMI init rtne) level = EXCEPTION module = DFHLDDMI This trace entry is put out if an invalid PDB is detected. DATA1 = program name DATA2 = PDB				
2	HEX	7802	TRDMI_BAD_PDB	
LOAD EXCEPTION (initialisation) level = EXCEPTION module = DFHLDDMI Generated whenever a CSVQUERY call fails to locate a module in the LPA. DATA1 = Program name DATA1 = Return code				
2	HEX	7803	TRDMI_CSVQUERY_ EXCEPTION	
LOAD EXCEPTION (initialisation) level = EXCEPTION module = DFHLDDMI Generated when a CSVQUERY call fails when attempting to locate DFHSIP. DATA1 = Program name DATA1 = Return code				
2	HEX	7832	TRDMI_DFHSIP_ NOT_FOUND	
GET PARMS (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if a bad response is encountered whilst requesting start-up override parameters. DATA1 = parameter list.				
2	HEX	7903	TRDMI_GET_PARMS	
APE GETMAIN FAILURE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out whenever a GETMAIN for an APE fails. DATA1 = Call Parameter list.				
2	HEX	7905	TRDMI_APE_GETMAIN	
WAIT PHASE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out when the request to wait for the global catalog fails DATA1 = Call Parameter list.				
2	HEX	7906	TRDMI_WAIT_PHASE	
LOCAL CATALOG (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out whenever a LOCAL catalog request fails. DATA1 = Call Parameter list.				
2	HEX	7907	TRDMI_LOCAL_ CATALOG	
GLOBAL CATALOG (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out whenever a GLOBAL catalog request fails. DATA1 = Call Parameter list.				

Table 270. (continued)

Len	Type	value	Name	Description
2	HEX	7908	TRDMI_GLOBAL_CATALOG	
DFHLDNT (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out when a problem is encountered in establishing the SMNT gate or in defining program DFHLDNT DATA1 = Call Parameter list.				
2	HEX	7909	TRDMI_DFHLDNT	
DFHLDST (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out when a problem is encountered in establishing the STST gate or in defining program DFHLDST DATA1 = Call Parameter list.				
2	HEX	790A	TRDMI_DFHLDST	
LIBRARY LOCK FAILURE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out whenever a LOCK request fails for the library lock. DATA1 = Call Parameter list.				
2	HEX	790B	TRDMI_LIBRARY_LOCK	
LIBRARY UNLOCK FAILURE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out whenever an UNLOCK request fails for the library lock. DATA1 = Call Parameter list.				
2	HEX	790C	TRDMI_LIBRARY_UNLOCK	
2	HEX	7935	TRDMI_LIBRARY_UNLOCK_2	
START BROWSE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out whenever a START_BROWSE request fails. DATA1 = Call Parameter list.				
2	HEX	790D	TRDMI_START_BROWSE	
END BROWSE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out whenever an END_BROWSE request fails. DATA1 = Call Parameter list.				
2	HEX	790E	TRDMI_END_BROWSE	
CPE GETMAIN FAILURE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out whenever a GETMAIN for a CPE fails. DATA1 = Call Parameter list.				
2	HEX	790F	TRDMI_CPE_GETMAIN	
BLDL GETMAIN FAILURE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out whenever a GETMAIN for a BLDL plist fails. DATA1 = Call Parameter list.				
2	HEX	7910	TRDMI_BLDL_GETMAIN	
CSECTL GETMAIN FAILURE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out whenever a GETMAIN for a CSECTL fails. DATA1 = Call Parameter list.				
2	HEX	7912	TRDMI_CSECTL_GETMAIN	

Table 270. (continued)

Len	Type	value	Name	Description
MODE CHANGE FAILURE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out whenever a request for change of dispatch mode fails. DATA1 = Call Parameter list.				
2	HEX	7913	TRDMI_MODE_CHANGE	
INQUIRE START (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if a bad response is encountered whilst requesting value of START= SIT parameter. DATA1 = parameter list.				
2	HEX	7914	TRDMI_INQUIRE_START	
TYPE PURGE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if a bad response is encountered whilst attempting a TYPE_PURGE to the Catalog domain. DATA1 = parameter list.				
2	HEX	7915	TRDMI_TYPE_PURGE	
STATE LOCK (LDDM initialisation) level = EXCEPTION module = DFHLDDMI These trace entries are put out if a bad response is encountered whilst LOCKing the Loader state lock. DATA1 = parameter list.				
2	HEX	7920	TRDMI_STATE_LOCK	
2	HEX	7921	TRDMI_STATE_LOCK_1	
2	HEX	7922	TRDMI_STATE_LOCK_2	
2	HEX	7923	TRDMI_STATE_LOCK_3	
2	HEX	7924	TRDMI_STATE_LOCK_4	
2	HEX	7925	TRDMI_STATE_LOCK_5	
2	HEX	7932	TRDMI_STATE_LOCK_6	
STATE UNLOCK (LDDM initialisation) level = EXCEPTION module = DFHLDDMI These trace entries are put out if a bad response is encountered whilst UNLOCKing the Loader state lock. DATA1 = parameter list.				
2	HEX	7926	TRDMI_STATE_UNLOCK	
2	HEX	7927	TRDMI_STATE_UNLOCK_1	
2	HEX	7928	TRDMI_STATE_UNLOCK_2	
2	HEX	7929	TRDMI_STATE_UNLOCK_3	
2	HEX	792A	TRDMI_STATE_UNLOCK_4	
2	HEX	792B	TRDMI_STATE_UNLOCK_5	
2	HEX	792C	TRDMI_STATE_UNLOCK_6	
2	HEX	792D	TRDMI_STATE_UNLOCK_7	
2	HEX	792E	TRDMI_STATE_UNLOCK_8	

Table 270. (continued)

Len	Type	value	Name	Description
2	HEX	7933	TRDMI_STATE_ UNLOCK_9	
ADD GATE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI These trace entries are put out if a bad response is encountered whilst adding the LDLD gate. DATA1 = parameter list.				
2	HEX	7930	TRDMI_ADD_GATE	
2	HEX	7931	TRDMI_ADD_GATE_1	
DISPATCHER CALL FAILURES (LDDM initialisation) level = EXCEPTION module = DFHLDDMI These trace entries are put out if a bad response is returned from DSSR SUSPEND, DSSR ADD_SUSPEND and DSSR DELETE_SUSPEND. DATA1 = parameter list.				
2	HEX	7934	TRDMI_ADD_SUSPEND	
2	HEX	7938	TRDMI_SUSPEND_FAIL	
2	HEX	7936	TRDMI_DELETE_ SUSPEND_FAIL	
SMGF GETMAIN (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if a bad response is returned from SMGF GETMAIN when attempting to getmain a LDWE. DATA1 = parameter list.				
2	HEX	7937	TRDMI_LDWE_GETMAIN	
CCCC START_BROWSE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if a bad response is returned from CCCC START_BROWSE when attempting to start a catalog browse of PLDBs. DATA1 = parameter list.				
2	HEX	7938	TRDMI_START_ LIB_BROWSE	
CCCC END_BROWSE (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if a bad response is returned from CCCC END_BROWSE when attempting to end a catalog browse of PLDBs. DATA1 = parameter list.				
2	HEX	7939	TRDMI_END_ LIB_BROWSE	
INVALID PLDB (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if an invalid PLDB is recovered from the catalog. attempting to start a catalog browse of PLDBs. DATA1 = parameter list.				
2	HEX	793A	TRDMI_BAD_PLDB	
LIBRARY BUILD ERROR (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if an error occurs while attempting to build a LIBRARY element (PLIBE) for a PLDB restored from the catalog. DATA1 = parameter list.				
2	HEX	793B	TRDMI_PLIBE_ BUILD_ERROR	
LIBRARY ADD ERROR (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if an error occurs while attempting to add a LIBRARY element (PLIBE) to the chain of PLIBEs. DATA1 = parameter list.				
2	HEX	793C	TRDMI_PLIBE_ ADD_ERROR	

Table 270. (continued)

Len	Type	value	Name	Description
LIBRARY LOCK ERROR (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if an error occurs while attempting to obtain a lock on a LIBRARY element (PLIBE) or on the chain of PLIBEs. DATA1 = parameter list.				
2	HEX	793D	TRDMI_LIBRARY_ LOCK_ERROR	
SMGF GETMAIN ERROR (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if an error occurs while attempting to getmain storage for a LIBRARY element (PLIBE). DATA1 = parameter list.				
2	HEX	793E	TRDMI_GETMAIN_ FAILURE	
DFHRPL LIBRARY ERROR (LDDM initialisation) level = EXCEPTION module = DFHLDDMI This trace entry is put out if only one LIBRARY is found in the chain of LIBRARY elements, but that single LIBRARY is not DFHRPL (this condition should never occur. DATA1 = parameter list.				
2	HEX	793F	TRDMI_ONE_ LIB_NOT_RPL	
DOMAIN ENTRY (LDLB LIBRARY mgt gate) level = 1 module = DFHLDLB Generated as the first operation on entry to the domain for LIBRARY management calls. DATA1 = LDLB Parameter list				
2	HEX	8001	TRLB_ENTRY_TRACE	
DOMAIN EXIT (LDLB LIBRARY mgt gate) level = 1 module = DFHLDLB Generated as the final operation prior to performing return from LDLB via the kernel to the caller of LIBRARY management functions. DATA1 = LDLB Parameter list				
2	HEX	8002	TRLB_EXIT_TRACE	
EXCEPTION (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB This trace entry is put out if an exception occurs during processing of an LDLB function. DATA1 = LDLB parameter list				
2	HEX	8003	TRLB_EXCEPTION	
INVALID FUNCTION (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB This trace entry is put out if a call is made to the LDLB gate specifying an invalid function. DATA1 = LDLB parameter list				
2	HEX	8004	TRLB_INVALID_ FUNCTION	
SUBROUTINE ENTRY (LDLB LIBRARY mgt gate) level = 2 module = DFHLDLB2 Generated as the first operation on entry to the DFHLDLB2 for LIBRARY add/replace/discard DATA1 = LDLB Parameter list				
2	HEX	8201	TRLB2_ENTRY_TRACE	
SUBROUTINE RETURN (LDLB LIBRARY mgt gate) level = 2 module = DFHLDLB2 Generated as the final operation prior to performing return from LDLB2 to the caller of the LIBRARY add/replace/discard functions. DATA1 = LDLB Parameter list				
2	HEX	8202	TRLB2_EXIT_TRACE	

Table 270. (continued)

Len	Type	value	Name	Description
EXCEPTION (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if an exception occurs during processing in LDLB2. DATA1 = LDLB parameter list				
2	HEX	8203	TRLB2_EXCEPTION	
INVALID FUNCTION (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if a call is made to LDLB2 specifying a function it doesn't support. DATA1 = LDLB parameter list				
2	HEX	8204	TRLB2_INVALID_FUNCTION	
INVALID PARAMETERS (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if parameter checking in LDLB2 discovers invalid parameter values. DATA1 = LDLB parameter list				
2	HEX	8205	TRLB2_INVALID_PARAMETERS	
LIBRARY LOCK ERROR (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if an error occurs when trying to get or free a lock on the chain of LIBRARY elements (PLIBEs) or on the PLIBE for a particular LIBRARY. DATA1 = LDLB parameter list				
2	HEX	8206	TRLB2_LOCK_ERROR	
LIBRARY NAME ERROR (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if some problem is detected with the name of a LIBRARY that is being installed or discarded in DFHLDLB2. DATA1 = LDLB parameter list				
2	HEX	8207	TRLB2_LIBRARY_NAME_ERROR	
DSN ALLOCATE ERROR (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if an error occurred when dynamically allocating a data set in the LIBRARY concatenation. DATA1 = LDLB parameter list				
2	HEX	8208	TRLB2_ALLOCATE_ERROR	
DSN UNALLOCATE ERROR (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if an error occurred when a data set in a LIBRARY concatenatn is being dynamically unallocated (deallocated). DATA1 = LDLB parameter list				
2	HEX	8209	TRLB2_UNALLOCATE_ERROR	
CONCATENATE ERROR (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if an error occurs while concatenating together the data sets in a LIBRARY concatenation. DATA1 = LDLB parameter list				
2	HEX	820A	TRLB2_CONCATENATE_ERROR	
DECONCATENATE ERROR (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if an error occurs while deconcatenating the data sets from a LIBRARY concatenation. DATA1 = LDLB parameter list				

Table 270. (continued)

Len	Type	value	Name	Description
2	HEX	820B	TRLB2_DECONCATENATE_ ERROR	
LIBRARY OPEN ERROR (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if an error occurs while opening a LIBRARY concatenation. DATA1 = LDLB parameter list				
2	HEX	820C	TRLB2_OPEN_ERROR	
LIBRARY CLOSE ERROR (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if an error occurs while closing a LIBRARY concatenation. DATA1 = LDLB parameter list				
2	HEX	820D	TRLB2_CLOSE_ERROR	
CATALOG WRITE FAILED (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if an attempt to write details of a LIBRARY to the catalog fails. DATA1 = LDLB parameter list				
2	HEX	820E	TRLB2_CATALOG_ WRITE_FAILED	
CATALOG DELETE FAILED (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if a failure occurs while deleting from the catalog a record that represents a LIBRARY. DATA1 = LDLB parameter list				
2	HEX	820F	TRLB2_CATALOG_ DELETE_FAILED	
LIBRARY DELETE FAILED (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if an attempt to delete a LIBRARY element (PLIBE) and the storage associated with it fails. DATA1 = LDLB parameter list				
2	HEX	8210	TRLB2_LIB_ DELETE_FAILED	
DATASET ARRAY ERROR (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if an error is encountered when filling in the array of data sets in a LIBRARY element (PLIBE). DATA1 = LDLB parameter list				
2	HEX	8211	TRLB2_DSN_ ARRAY_ERROR	
LIBRARY CHAIN ERROR (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if a problem is detected in the chain of LIBRARY elements (PLIBEs). The problem is encountered when attempting to update the chain. DATA1 = LDLB parameter list				
2	HEX	8212	TRLB2_LIB_ CHAIN_ERROR	
LIBRARY GETMAIN FAILURE (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 Error getting storage for program LIBRARY element (PLIBE) to represent a new LIBRARY. DATA1 = LDLB parameter list				
2	HEX	8213	TRLB2_GETMAIN_ FAILURE	
RECOVERY ENTERED (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB2 This trace entry is put out if the recovery routine in DFHLDLB2 is driven. DATA1 = parameter list.				

Table 270. (continued)

Len	Type	value	Name	Description
2	HEX	8214	TRLB2_RECOVERY_ ENTERED	
SVC CALL (LDLB LIBRARY mgt gate) level = 1 module = DFHLDLB2 This trace entry is put out immediately prior to issuing an SVC to the Loader's authorised facilities module. DATA1 = parameter list. DATA2 = PLIBE or PLIBE_DS_ENTRY				
2	HEX	8215	TRLB2_SVC_CALL	
SVC RETURN (LDLB LIBRARY mgt gate) level = 1 module = DFHLDLB2 This trace entry is put out on a normal return from the Loader's SVC routine. DATA1 = parameter list. DATA2 = PLIBE or PLIBE_DS_ENTRY				
2	HEX	8216	TRLB2_SVC_RETURN	
SVC EXCEPTION (LDLB LIBRARY mgt gate) level = Exception module = DFHLDLB2 This trace entry is put out on a not ok return from the Loader's SVC routine. DATA1 = parameter list. DATA2 = PLIBE or PLIBE_DS_ENTRY				
2	HEX	8217	TRLB2_SVC_ EXCEPTION	
SUBROUTINE ENTRY (LDLB LIBRARY mgt gate) level = 2 module = DFHLDLB3 Generated as the first operation on entry to the DFHLDLB3 for LIBRARY inquire/browse/set DATA1 = LDLB Parameter list				
2	HEX	8301	TRLB3_ENTRY_TRACE	
SUBROUTINE RETURN (LDLB LIBRARY mgt gate) level = 2 module = DFHLDLB3 Generated as the final operation prior to performing return from LDLB3 to the caller of the LIBRARY inquire/browse/set functions. DATA1 = LDLB Parameter list				
2	HEX	8302	TRLB3_EXIT_TRACE	
INVALID FUNCTION (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if a call is made to LDLB3 specifying a function it doesn't support. DATA1 = LDLB parameter list				
2	HEX	8303	TRLB3_INVALID_ FUNCTION	
SMGF GETMAIN (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if a bad response is returned from SMGF GETMAIN when attempting to getmain a LDBE for LIBRARY browsing. DATA1 = parameter list.				
2	HEX	8304	TRLB3_LDBE_GETMAIN	
SMGF GETMAIN (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if a bad response is returned from SMGF GETMAIN when attempting to getmain a LIBRARY element (PLIBE). DATA1 = parameter list.				
2	HEX	8305	TRLB3_GETMAIN_ FAILURE	
RECOVERY ENTERED (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if the recovery routine in DFHLDLB3 is driven. DATA1 = parameter list.				
2	HEX	8306	TRLB3_RECOVERY_ ENTERED	

Table 270. (continued)

Len	Type	value	Name	Description
EXCEPTION (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if an exception occurs during processing in DFHLDLB3. DATA1 = LDLB parameter list				
2	HEX	8307	TRLB3_EXCEPTION	
CATALOG WRITE FAILED (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if an attempt to write details of a LIBRARY to the catalog fails. DATA1 = LDLB parameter list				
2	HEX	8308	TRLB3_CATALOG_ WRITE_FAILED	
SVC CALL (LDLB LIBRARY mgt gate) level = 1 module = DFHLDLB3 This trace entry is put out immediately prior to issuing an SVC to the Loader's authorised facilities module. DATA1 = parameter list. DATA2 = PLIBE or PLIBE_DS_ENTRY				
2	HEX	8309	TRLB3_SVC_CALL	
SVC RETURN (LDLB LIBRARY mgt gate) level = 1 module = DFHLDLB3 This trace entry is put out on a normal return from the Loader's SVC routine. DATA1 = parameter list. DATA2 = PLIBE or PLIBE_DS_ENTRY				
2	HEX	830A	TRLB3_SVC_RETURN	
SVC EXCEPTION (LDLB LIBRARY mgt gate) level = Exception module = DFHLDLB3 This trace entry is put out on a not ok return from the Loader's SVC routine. DATA1 = parameter list. DATA2 = PLIBE or PLIBE_DS_ENTRY				
2	HEX	830B	TRLB3_SVC_ EXCEPTION	
LIBRARY LOCK ERROR (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if an error occurs when trying to get or free a lock on the chain of LIBRARY elements (PLIBEs) or on the PLIBE for a particular LIBRARY. DATA1 = LDLB parameter list				
2	HEX	830C	TRLB3_LOCK_ERROR	
Allocate Error (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if an error occurs during a library allocation request DATA1 = LDLB parameter list				
2	HEX	830D	TRLB3_ALLOCATE_ ERROR	
Deallocate Error (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if an error occurs during a library deallocation request DATA1 = LDLB parameter list				
2	HEX	830E	TRLB3_UNALLOCATE_ ERROR	
Concatenate Error (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if an error occurs during a library concatenation request DATA1 = LDLB parameter list				
2	HEX	830F	TRLB3_CONCATENATE_ ERROR	

Table 270. (continued)

Len	Type	value	Name	Description
Deconcatenate Error (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if an error occurs during a library deconcatenate request DATA1 = LDLB parameter list				
2	HEX	8310	TRLB3_DECONCATENATE_ERROR	
Open Error (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if an error occurs during a library Open request DATA1 = LDLB parameter list				
2	HEX	8311	TRLB3_OPEN_ERROR	
Close Error (LDLB LIBRARY mgt gate) level = EXCEPTION module = DFHLDLB3 This trace entry is put out if an error occurs during a library Close request DATA1 = LDLB parameter list				
2	HEX	8312	TRLB3_CLOSE_ERROR	

LGANC Logger Domain Anchor Block

```
!:refstep.lg_anchor_block_and_constants ---------- DFHLGAN 168 -
!
!
! This anchor block contains the global storage for the LG domain.
! It is divided into two distinct halves, one half for DFHLGxx
! modules and one half for DFHL2xx modules.
!
!--------------------------------------------------------------------
```

Table 271.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2048	LGA	
(0)	CHARACTER	1024	LGA_LG_PART	
!:refstep.lga_prefix ---------- DFHLGAN 199 - ! ! Block Header ! !----------				
(0)	CHARACTER	16	LGA_PREFIX	===> eyecatcher <===
(0)	HALFWORD	2	LGA_LENGTH	length of lga
(2)	CHARACTER	14	LGA_PREFIX_TEXT	>DFHLGAnchor
!:erefstep.lga_prefix ---------- !:refstep.lga_domain_state ---------- DFHLGAN 207 - ! ! Domain state information ! !----------				
(10)	ADDRESS	4	LGA_LOCK_TOKEN	LG domain lock token
(14)	UNSIGNED	1	LGA_LG_STATE	LG domain state initialised, quiesced or terminated

Table 271. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(15)	UNSIGNED	1	LGA_FLAGS	
	1...		LGA_COLD_START	1=CICS cold started
	.1..		LGA_INITIAL_START	
				1=CICS initial start
	..1.		LGA_XLGSTRM_ACTIVE	
				1=XLGSTRM exit active
	...1		LGA_XLGWBC_ACTIVE	
				1=XLGWBC exit active
	.... 1...		LGA_XRSINDI_ACTIVE	
				1=XRSINDI exit active
(16)	CHARACTER	2	*	
!:erefstep.lga_domain_state ---------- !:refstep.lga_subpool_tokens ---------- DFHLGAN 223 - ! ! Subpool Tokens ! !----------				
(18)	CHARACTER	8	LGA_GENERAL_SPTOKEN	
				token received when lga was GETMAINed
(20)	CHARACTER	8	LGA_SD_SUBPOOL_TOKEN	
				Token for Stream Data entries subpool
(28)	CHARACTER	8	LGA_GD_SUBPOOL_TOKEN	
				Token for Glog Data entries subpool
(30)	CHARACTER	8	LGA_JI_SUBPOOL_TOKEN	
				Token for Journal entries subpool
(38)	CHARACTER	8	LGA_JM_SUBPOOL_TOKEN	

Table 271. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Token for JournalModel entries subpool
(40)	CHARACTER	8	LGA_BR_ SUBPOOL_TOKEN	
				Token for browse token entries subpool
(48)	CHARACTER	8	LGA_UW_ SUBPOOL_TOKEN	
				Token for Unit of Work entries subpool
!:erefstep.lga_subpool_tokens ---------- !:refstep.lga_pointers ---------- DFHLGAN 242 - ! ! Pointers ! !----------				
(50)	ADDRESS	4	LGA_SD_HDR_PTR	-> Stream data header
(54)	ADDRESS	4	LGA_GD_HDR_PTR	-> Glog data header
(58)	ADDRESS	4	LGA_JI_HDR_PTR	-> Journal info header
(5C)	ADDRESS	4	LGA_JM_HDR_PTR	-> JournalModel data header
(60)	ADDRESS	4	LGA_BR_HDR_PTR	-> Browse data header
!:erefstep.lga_pointers ---------- !:refstep.lga_statistics ---------- DFHLGAN 252 - ! ! Statistics ! !----------				
(64)	ADDRESS	4	LG_STATS_ BUFFER_PTR	
				Statistics buffer
(68)	CHARACTER	8	LGA_LAST_ JNL_RESET_TIME	
				jnl stats last reset@L7A
(70)	CHARACTER	8	LGA_LAST_ LSN_RESET_TIME	
				lsn stats last reset@L7A

Table 271. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.lga_statistics ---------- !:refstep.lga_misc_values ---------- DFHLGAN 260 - ! ! Misc fields ! !----------				
(78)	ADDRESS	4	LGA_JN_ ENQPOOL_TOKEN	
				Journal Enqueue pool
(7C)	ADDRESS	4	LGA_ST_ ENQPOOL_TOKEN	
				Streamname Enqueue pool
(80)	ADDRESS	4	LGA_SMF_ LOCK_TOKEN	
				Shared SMF jnl lock
(84)	CHARACTER	9	LGA_USERID	Jobstep userid
(84)	UNSIGNED	1	LGA_USERID_L	length
(85)	CHARACTER	8	LGA_USERID_N	value
(8D)	CHARACTER	9	LGA_APPLID	Generic applid
(8D)	UNSIGNED	1	LGA_APPLID_L	length
(8E)	CHARACTER	8	LGA_APPLID_N	value
(96)	BIT(8)	1	LGA_L2_FLAGS	L2 flags
	1...		LGA_L2_ACTIVE	L2 activated
(97)	CHARACTER	1	*	reserved
(98)	ADDRESS	4	LGA_LGUOW_ LOCK_TOKEN	
				Lock for browsing UOW chain
(9C)	CHARACTER	5	LGA_SYSID	Sysid
(9C)	UNSIGNED	1	LGA_SYSID_L	length
(9D)	CHARACTER	4	LGA_SYSID_N	value
(A1)	CHARACTER	11	*	reserved
!:erefstep.lga_misc_values ----------				
(400)	CHARACTER	1024	LGA_L2_PART	
!:refstep.lga_l2_data ---------- DFHLGAN 283 - ! ! This portion of the Log Manager anchor block is for the exclusive ! use of the DFHL2xx modules. The data is owned by DFHL2DM and is ! mapped by copybook DFHL2xxC. ! !----------				
(400)	CHARACTER	1024	*	
!:erefstep.lga_l2_data ----------				

Table 271. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(800)	CHARACTER	0	LGA_END	

```
!:refstep.lgsd_ stream_ data ---------------------------- DFHLGAN 386 -
!
  ! Stream data represents the state of a single MVS log stream.
!
  ! The entire set of MVS log streams is stored as an AVL tree
  ! structure. The tree header and element leaf pointers are
  ! maintained by the BB/LX building block and are not mapped here
!
  ! The stream data tree is maintained by DFHLGST but some other
  ! routines within the logger domain do modify individual stream data
! entries.
!
  !--------------------------------------------------------------------
```

Table 272.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	LGSD_STREAM_DATA	
(0)	CHARACTER	26	LGSD_STREAM	MVS log stream name
(1A)	UNSIGNED	1	LGSD_SYSTEM_LOG	Is log a system log? 1=Yes, 2=No
(1B)	UNSIGNED	1	LGSD_FAILED_LOG	Has stream failed 1=Yes, 2=No
(1C)	FULLWORD	4	LGSD_USE_CT	Count of users of stream
(20)	ADDRESS	4	LGSD_STREAM_LOCK	Stream lock token
(24)	ADDRESS	4	LGSD_LOGBUF_TKN	KE Buffers etc.
(28)	CHARACTER	16	LGSD_STRUCTURE_ NAME	
				MVS LS structure name

```
!:erefstep.lgsd_stream_data ----------------------------------------
!:refstep.lggd_glog_data ------------------------------ DFHLGAN 409 -
!
! The data retained for each explicitly opened general log.
!
! A storage block table (pointed to by lga_gd_hdr_ptr)
! contains pointers to each glog_data entry
!
! The glog data is processed solely by DFHLGGL
!
!--------------------------------------------------------------------
```

Table 273.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	LGGD_GLOG_DATA	

Table 273. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	ADDRESS	4	LGGD_LOG_TOKEN	Log token for this block
(4)	CHARACTER	8	LGGD_USER_TOKEN	Opener's reference
(C)	ADDRESS	4	LGGD_STREAM_TOKEN	Log stream token for MVS Logbuf token for SMF
(10)	CHARACTER	8	LGGD_JNAME	Journal name
(18)	CHARACTER	2	LGGD_COMPONENT	Component identifier
(1A)	UNSIGNED	1	LGGD_LOGTYPE	1=Mvs, 2=Smf, 3=Dummy
(1B)	CHARACTER	1	*	Reserved
(1C)	FULLWORD	4	LGGD_DOMAIN_NO	Domain opening log
(20)	FULLWORD	4	LGGD_ERROR_GATE#	GTE# for error callback

```
!:erefstep.lggd_glog_data ------------------------------------------
!:refstep.lgji_journal_info -------------------------- DFHLGAN 432 -
!
! Journal Info represents the state of a single CICS user journal.
!
! The entire set of Journals is stored as an AVL tree structure. The
! tree header and element leaf pointers are maintained by the BB/LX
! building block and are not mapped here
!
! The journal info tree is used only by DFHLGJN.
!
!--------------------------------------------------------------------
```

Table 274.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	60	LGJI_JOURNAL_INFO	
(0)	CHARACTER	8	LGJI_JNAME	Journal name
(8)	CHARACTER	26	LGJI_STREAM	MVS log stream name
(22)	UNSIGNED	1	LGJI_LOG_TYPE	1=Mvs, 2=Smf, 3=Dummy
(23)	UNSIGNED	1	LGJI_SYSTEM_LOG	Is jnl a system log? 1=Yes, 2=No
(24)	UNSIGNED	1	LGJI_STATUS	Journal status 1=Connected 2=Disconnected 3=Disabled 5=Failed

Table 274. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(25)	UNSIGNED	1	LGJI_FAIL_REASON	Failure reason code (same as lgjn_reason) 6=unable_to_create_jnl 7=system_log_conflict 9=jnl_has_failed 10=error_opening_log 11=write_error
(26)	CHARACTER	2	*	
(28)	ADDRESS	4	LGJI_STREAM_ TOKEN	Log stream token Logbuf token for SMF
(2C)	FULLWORD	4	LGJI_JNLWRITE_ COUNT	
				Stats - write count
(30)	BIT(64)	8	LGJI_JNLWRITE_ BYTES	
				- bytes total
(38)	FULLWORD	4	LGJI_JNLFLUSH_ REQS	- flushes

```
!:erefstep.lgji_journal_info ----------------------------------------
!:refstep.lgbr_browse_data ---------------------------- DFHLGAN 488 -
!
! The data retained for each browse of a log manager resource.
!
! A storage block table (pointed to by lga_br_hdr_ptr)
! contains pointers to each browse_data entry
!
! The Browse data is used for all browses in DFHLGST, DFHLGJN,
! DFHLGLD
!
!--------------------------------------------------------------------
```

Table 275.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	31	LGBR_BROWSE_DATA	
(0)	ADDRESS	4	LGBR_BROWSE_ TOKEN	Token for this block
(4)	UNSIGNED	1	LGBR_TYPE	Resource type
(5)	CHARACTER	26	LGBR_KEY	Browse key
(5)	CHARACTER	8	LGBR_JNAME	Journal name
(5)	CHARACTER	8	LGBR_JMNAME	JournalModel name
(5)	CHARACTER	26	LGBR_STREAM	Stream name

```
!:erefstep.lgbr_browse_data ----------------------------------------
!:refstep.lgjmc_journalmodel_content ------------------ DFHLGAN 467 -
!
! JournalModel content represents a single installed JournalModel
! resource.
```

```
!
! The set of installed JournalModels are maintained on the global
! catalog. In storage they are maintained as a linked list.
!
! NOTE: Templates names are stored in an internal format where
! generic characters and % have been translated into high hex
! values.
!
! The JournalModel content is used only by DFHLGLD
!
!--------------------------------------------------------------------
```

Table 276.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	LGJMC_JOURNALMODEL_CONTENT	
(0)	CHARACTER	8	LGJMC_JOURNALMODEL_NAME	
				JournalModel name
(8)	CHARACTER	8	LGJMC_JNL_TEMPLATE_X	
				Jnl template-extnl format
(10)	CHARACTER	8	LGJMC_JNL_TEMPLATE_I	
				Jnl template-intnl format
(18)	CHARACTER	26	LGJMC_STREAM_PROTO	Prototype Log stream name
(32)	UNSIGNED	1	LGJMC_LOG_TYPE	1=Mvs, 2=Smf, 3=Dummy
(33)	CHARACTER	1	*	

```
!:erefstep.lgjmc_ journalmodel_ content -------------------------------
!:refstep.lguow_ work_unit_ data ----------------------- DFHLGAN 507 -
!
  ! The data retained for each unit of work that has written log
! reords with the Force_ at_sync option
!
  ! The data is maintained as a simple linked list anchored in the
! uow_token.
!
  !--------------------------------------------------------------------
```

Table 277.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	LGUOW_HEADER	Work unit header
(0)	ADDRESS	4	LGUOW_CHAIN_HEAD	Chain header
(4)	CHARACTER	8	LGUOW_TIME_STAMP	Time of first log write

Table 278.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	LGUOW_STREAM_FORCE	Streams used
(0)	ADDRESS	4	LGUOW_CHAIN_NEXT	Chain link
(4)	ADDRESS	4	LGUOW_STREAM_TOKEN	
(8)	ADDRESS	4	LGUOW_FORCE_TOKEN	

Constants

Table 279.

Len	Type	value	Name	Description
4	DECIMAL	510	LGGD_BLOCKING	no. of entries/block in the storage table hdr
4	DECIMAL	20	LGBR_BLOCKING	no of entries/block in the storage table hdr
!:erefstep.lguow_work_unit_data ------------------------------------ !:refstep.lg_domain_constants ------------------------ DFHLGAN 293 - ! ! Constants ! !-- !:refstep.lg_domain_states ---------------------------- DFHLGAN 303 - ! ! LG Domain States (printed in formatted dump) ! !--				
1	DECIMAL	1	LG_STATE_INITIALISING	
1	DECIMAL	2	LG_STATE_INITIALISED	
1	DECIMAL	3	LG_STATE_QUIESCING	
1	DECIMAL	4	LG_STATE_QUIESCED	
1	DECIMAL	5	LG_STATE_TERMINATED	
!:erefstep.lg_domain_states -- !:refstep.lg_msg_numbers ------------------------------ DFHLGAN 313 - ! ! Log manager message numbers and system dumpcode values ! !--				
4	DECIMAL	1	MNO_ABEND	
8	CHARACTER	LG0001	DCD_ABEND	
4	DECIMAL	2	MNO_SEVERE_ERROR	
8	CHARACTER	LG0002	DCD_SEVERE_ERROR	
4	DECIMAL	3	MNO_NO_STORAGE	

Table 279. (continued)

Len	Type	value	Name	Description
8	CHARACTER	LG0003	DCD_NO_STORAGE	
4	DECIMAL	101	MNO_DOM_INIT_START	
4	DECIMAL	102	MNO_DOM_INIT_END	
4	DECIMAL	301	MNO_JNL_FAILED	
4	DECIMAL	302	MNO_JNL_DEFINED	
4	DECIMAL	303	MNO_JNL_CONN_FAIL	
4	DECIMAL	304	MNO_JNL_CATLG_FAIL	
4	DECIMAL	305	MNO_JNL_CATLG_ DEL_FAIL	
4	DECIMAL	306	MNO_JNL_DISCARDED	
4	DECIMAL	401	MNO_JOURNALMODEL_ INSTALLED	
4	DECIMAL	402	MNO_JOURNALMODEL_ CATLG_FAIL	
4	DECIMAL	403	MNO_JOURNALMODEL_ CATLG_DEL_FAIL	
4	DECIMAL	404	MNO_JOURNALMODEL_ REPLACED	
4	DECIMAL	405	MNO_JOURNALMODEL_ DISCARDED	
4	DECIMAL	501	MNO_EXIT_ REJECTED_DEFINE	
4	DECIMAL	502	MNO_STREAM_DEFINED	
4	DECIMAL	503	MNO_STREAM_ DEFINE_ERROR	
8	CHARACTER	LG0503	DCD_STREAM_ DEFINE_ERROR	
4	DECIMAL	504	MNO_STREAM_ DEFINE_NOAUTH	
4	DECIMAL	505	MNO_STREAM_ DEFINE_BADHLQ	
4	DECIMAL	506	MNO_STREAM_ DEFINE_INVSPACE	
4	DECIMAL	507	MNO_STREAM_ DEFINE_MAXSTREAM	
4	DECIMAL	508	MNO_STREAM_ DEFINE_LIKE	
4	DECIMAL	509	MNO_STREAM_ DEFINE_STRUCTNAME	
4	DECIMAL	510	MNO_STREAM_ DEFINE_STREAMNAME	
4	DECIMAL	511	MNO_STREAM_ DEFINE_NOSTRUCTNAME	
4	DECIMAL	512	MNO_STREAM_ CONN_CONFLICT	

Table 279. (continued)

Len	Type	value	Name	Description
4	DECIMAL	513	MNO_STREAM_ CONN_FAILED	
4	DECIMAL	514	MNO_STREAM_ ENQ_CONFLICT	
!:erefstep.lg_msg_numbers ---------- !:refstep.lg_stats ---------- DFHLGAN 352 - ! ! Statistics ! !----------				
4	DECIMAL	4096	LG_STATS_BUFFER_SIZE	
!:erefstep.lg_stats ---------- !:refstep.lg_literals ---------- DFHLGAN 358 - ! ! Literals ! !----------				
2	CHARACTER	LG	COMPID	Domain id
8	CHARACTER	LGGENRAL	SPNAME_GENERAL	General purpose subpool for LG domain
14	CHARACTER	>DFHLGANCHOR	LGA_EYE_CATCHER	
8	CHARACTER	ANCHOR	LGA_BLOCKNAME	
8	CHARACTER	STATSBUF	LGA_STATSBUFFER	
8	CHARACTER	LGLOCK	LG_LOCK_NAME	Domain lock
8	CHARACTER	LGSTLOCK	LG_STREAM_ LOCK_NAME	Stream lock
8	CHARACTER	LGUOWLCK	LG_LGUOW_LOCK_NAME	LGUOW lock
8	CHARACTER	DFHLGLOG	LG_LOGOFLOG	Log of logs
!:erefstep.lg_literals ---------- !:refstep.lg_error_codes ---------- DFHLGAN 373 - ! ! Error codes (for DFHKERN RECOVERY_REQUEST) ! !----------				
4	CHARACTER	ALGA	LOCK_ERROR_CODE	
4	CHARACTER	ALGB	UNLOCK_ERROR_CODE	
4	CHARACTER	ALGC	BBLX_ERROR_CODE	
4	CHARACTER	ALGD	BBLX_SIF_ ERROR_CODE	
4	CHARACTER	ALGE	LDMATCH_ERROR_CODE	
4	CHARACTER	ALGF	ENQ_DEQ_ERROR_CODE	
4	CHARACTER	ALGG	CSQC_ERROR_CODE	

Table 279. (continued)

Len	Type	value	Name	Description
!:erefstep.lg_error_codes ---------- !:erefstep.lg_domain_constants ---------- !:refstep.lgtri_tracepoints ---------- DFHLGTRI 88 - ! ! Trace Point Identifiers ! !---------- !:refstep.lgdm_tracepoint_dcl ---------- DFHLGTRI 151 - ! ! lgdm tracepoints ! !----------				
2	HEX	0101	TID_LGDM_ENTRY	
2	HEX	0102	TID_LGDM_EXIT	
2	HEX	0103	TID_LGDM_RECOVERY	
2	HEX	0104	TID_LGDM_ INVALID_FORMAT	
2	HEX	0105	TID_LGDM_ INVALID_FUNCTION	
2	HEX	0106	TID_LGDM_ RELEASE_LOCK_ERROR	
2	HEX	0107	TID_LGDM_ NO_STORAGE_FOR_ LGA	
2	HEX	0108	TID_LGDM_ REGISTER_ERROR	
2	HEX	0109	TID_LGDM_ SET_GATE_ERROR	
2	HEX	0110	TID_LGDM_ INVALID_EXIT_ID	
2	HEX	0111	TID_LGDM_ GET_PARAMETERS_ FAILED	
2	HEX	0112	TID_LGDM_ RELEASE_LGUOW_ ERROR	
!:erefstep.lgdm_tracepoint_dcl ---------- !:refstep.lggl_tracepoint_dcl ---------- DFHLGTRI 250 - ! ! lggl tracepoints ! !----------				
2	HEX	0201	TID_LGGL_ENTRY	
2	HEX	0202	TID_LGGL_EXIT	
2	HEX	0203	TID_LGGL_RECOVERY	
2	HEX	0204	TID_LGGL_ INVALID_FORMAT	
2	HEX	0205	TID_LGGL_ INVALID_FUNCTION	

Table 279. (continued)

Len	Type	value	Name	Description
2	HEX	0206	TID_LGGL_ UNKNOWN_KE_ERROR_ CODE	
2	HEX	0207	TID_LGGL_ GET_EXC_LOCK_ERROR	
2	HEX	0208	TID_LGGL_ RELEASE_EXC_LOCK_ ERROR	
2	HEX	0209	TID_LGGL_ GET_SHR_LOCK_ERROR	
2	HEX	020A	TID_LGGL_ RELEASE_SHR_LOCK_ ERROR	
2	HEX	020B	TID_LGGL_ RECOVERY_RELEASE_ LOCK_ERROR	
2	HEX	020C	TID_LGGL_ ADD_SUBPOOL_ERROR	
2	HEX	020D	TID_LGGL_ UNKNOWN_LOG_TOKEN	
2	HEX	020E	TID_LGGL_ BAD_LOGTYPE	
2	HEX	0211	TID_LGGL_ GET_SHR_STREAM_ LOCK_ERROR	
2	HEX	0212	TID_LGGL_ RELEASE_SHR_STREAM_ LOCK_ERROR	
2	HEX	0213	TID_LGGL_ REC_RLSE_STREAM_ LOCK_ERROR	
2	HEX	0214	TID_LGGL_ INVALID_PARAMETERS	
2	HEX	0215	TID_LGGL_ GLOGS_BBLX_EXCEPTION	
2	HEX	0216	TID_LGGL_ GLOGS_SIF_EXCEPTION	
2	HEX	0217	TID_LGGL_ ADD_UW_SUBPOOL_ ERROR	
2	HEX	0218	TID_LGGL_ STORAGE_REQ_PURGED	
2	HEX	0219	TID_LGGL_ START_WT_BROWSE_ ERROR	
2	HEX	0220	TID_LGGL_ GET_NEXT_WT_ERROR	

Table 279. (continued)

Len	Type	value	Name	Description
2	HEX	022A	TID_LGGL_ END_WT_BROWSE_ ERROR	
2	HEX	022B	TID_LGGL_ MVS_WRITE_ERROR	
2	HEX	022C	TID_LGGL_ SMF_WRITE_ERROR	
2	HEX	022D	TID_LGGL_ MVS_FORCE_ERROR	
2	HEX	022E	TID_LGGL_ SMF_FORCE_ERROR	
2	HEX	0231	TID_LGGL_ GET_SHR_SMF_LOCK_ ERROR	
2	HEX	0232	TID_LGGL_ RELEASE_SHR_SMF_ LOCK_ERROR	
2	HEX	0233	TID_LGGL_ REC_RLSE_SMF_LOCK_ ERROR	
2	HEX	0234	TID_LGGL_ GET_EXC_LGUOW_ LOCK_ERROR	
2	HEX	0235	TID_LGGL_ RELEASE_EXC_LGUOW_ LOCK_ERROR	
2	HEX	0236	TID_LGGL_ REC_RLSE_LGUOW_ LOCK_ERROR	
!:erefstep.lggl_tracepoint_dcl ------------------------------------ !:refstep.lgjn_tracepoint_dcl ----------------------- DFHLGTRI 539 - ! ! lgjn tracepoints ! !--				
2	HEX	0301	TID_LGJN_ENTRY	
2	HEX	0302	TID_LGJN_EXIT	
2	HEX	0303	TID_LGJN_RECOVERY	
2	HEX	0304	TID_LGJN_ INVALID_FORMAT	
2	HEX	0305	TID_LGJN_ INVALID_FUNCTION	
2	HEX	0306	TID_LGJN_ UNKNOWN_KE_ERROR_ CODE	
2	HEX	0307	TID_LGJN_ GET_EXC_LOCK_ERROR	

Table 279. (continued)

Len	Type	value	Name	Description
2	HEX	0308	TID_LGJN_ RELEASE_EXC_LOCK_ ERROR	
2	HEX	0309	TID_LGJN_ GET_SHR_LOCK_ERROR	
2	HEX	030A	TID_LGJN_ RELEASE_SHR_LOCK_ ERROR	
2	HEX	030B	TID_LGJN_ RECOVERY_RELEASE_ LOCK_ERROR	
2	HEX	030C	TID_LGJN_ ADD_SUBPOOL_ERROR	
2	HEX	030D	TID_LGJN_ JOURNALS_BBLX_ EXCEPTION	
2	HEX	030E	TID_LGJN_ JOURNALS_SIF_EXCEPTION	
2	HEX	030F	TID_LGJN_ BROWSES_BBLX_EXCEPTION	
2	HEX	0310	TID_LGJN_ BROWSES_SIF_EXCEPTION	
2	HEX	0311	TID_LGJN_ GET_SHR_STREAM_ LOCK_ERROR	
2	HEX	0313	TID_LGJN_ REC_RLSE_STREAM_ LOCK_ERROR	
2	HEX	0314	TID_LGJN_ JNL_DEFINED	
2	HEX	0315	TID_LGJN_ STREAM_FAILED	
2	HEX	0316	TID_LGJN_ INVALID_JNL_STATUS	
2	HEX	0317	TID_LGJN_ LD_MATCH_ERROR	
2	HEX	0318	TID_LGJN_ INVALID_SET_STATUS	
2	HEX	0319	TID_LGJN_ CATLG_WRITE_ERROR	
2	HEX	0320	TID_LGJN_ CATLG_DELETE_ERROR	
2	HEX	0321	TID_LGJN_ JNL_CONN_ERROR	
2	HEX	0322	TID_LGJN_ ENQUEUE_ERROR	
2	HEX	0323	TID_LGJN_ DEQUEUE_ERROR	

Table 279. (continued)

Len	Type	value	Name	Description
2	HEX	0324	TID_LGJN_ ADD_ENQPOOL_ERROR	
2	HEX	0325	TID_LGJN_ JNL_DISCARDED	
2	HEX	0326	TID_LGJN_ GET_SHR_SMF_LOCK_ ERROR	
2	HEX	0327	TID_LGJN_ GET_EXC_SMF_LOCK_ ERROR	
2	HEX	0328	TID_LGJN_ RELEASE_EXC_SMF_ LOCK_ERROR	
2	HEX	0329	TID_LGJN_ REC_RLSE_SMF_LOCK_ ERROR	
2	HEX	032A	TID_LGJN_ SMF_CONN_ERROR	
!:erefstep.lgjn_tracepoint_dcl ---------- !:refstep.lgld_tracepoint_dcl ---------- DFHLGTRI 833 - ! ! lgld tracepoints ! !----------				
2	HEX	0401	TID_LGLD_ENTRY	
2	HEX	0402	TID_LGLD_EXIT	
2	HEX	0403	TID_LGLD_RECOVERY	
2	HEX	0404	TID_LGLD_ INVALID_FORMAT	
2	HEX	0405	TID_LGLD_ INVALID_FUNCTION	
2	HEX	0406	TID_LGLD_ UNKNOWN_KE_ERROR_ CODE	
2	HEX	0407	TID_LGLD_ GET_EXC_LOCK_ERROR	
2	HEX	0408	TID_LGLD_ RELEASE_EXC_LOCK_ ERROR	
2	HEX	0409	TID_LGLD_ GET_SHR_LOCK_ERROR	
2	HEX	040A	TID_LGLD_ RELEASE_SHR_LOCK_ ERROR	
2	HEX	040B	TID_LGLD_ RECOVERY_RELEASE_ LOCK_ERROR	
2	HEX	040C	TID_LGLD_ ADD_SUBPOOL_ERROR	

Table 279. (continued)

Len	Type	value	Name	Description
2	HEX	040D	TID_LGLD_ JOURNALMODELS_ BBLX_EXCEPTION	
2	HEX	040E	TID_LGLD_ JOURNALMODELS_ SIF_EXCEPTION	
2	HEX	040F	TID_LGLD_ BROWSES_BBLX_EXCEPTION	
2	HEX	0410	TID_LGLD_ BROWSES_SIF_EXCEPTION	
2	HEX	0411	TID_LGLD_ JOURNALMODEL_INSTALLED	
2	HEX	0412	TID_LGLD_ JOURNALMODEL_REPLACED	
2	HEX	0413	TID_LGLD_ CATLG_WRITE_ERROR	
2	HEX	0414	TID_LGLD_ CATLG_DELETE_ERROR	
2	HEX	0415	TID_LGLD_ JOURNALMODEL_DISCARDED	
!:erefstep.lgld_tracepoint_dcl ---------- !:refstep.lgst_tracepoint_dcl ---------- DFHLGTRI 1012 - ! ! lgst tracepoints ! !----------				
2	HEX	0501	TID_LGST_ENTRY	
2	HEX	0502	TID_LGST_EXIT	
2	HEX	0503	TID_LGST_RECOVERY	
2	HEX	0504	TID_LGST_ INVALID_FORMAT	
2	HEX	0505	TID_LGST_ INVALID_FUNCTION	
2	HEX	0506	TID_LGST_ UNKNOWN_KE_ERROR_ CODE	
2	HEX	0507	TID_LGST_ GET_EXC_LOCK_ERROR	
2	HEX	0508	TID_LGST_ RELEASE_EXC_LOCK_ ERROR	
2	HEX	0509	TID_LGST_ GET_SHR_LOCK_ERROR	
2	HEX	050A	TID_LGST_ RELEASE_SHR_LOCK_ ERROR	
2	HEX	050B	TID_LGST_ RECOVERY_RELEASE_ LOCK_ERROR	

Table 279. (continued)

Len	Type	value	Name	Description
2	HEX	050C	TID_LGST_ ADD_SUBPOOL_ERROR	
2	HEX	050D	TID_LGST_ STREAMS_BBLX_EXCEPTION	
2	HEX	050E	TID_LGST_ STREAMS_SIF_EXCEPTION	
2	HEX	0510	TID_LGST_ GET_EXC_STREAM_ LOCK_ERROR	
2	HEX	0511	TID_LGST_ RELEASE_EXC_STREAM_ LOCK_ERROR	
2	HEX	0513	TID_LGST_ GET_COND_STREAM_ LOCK_ERROR	
2	HEX	0514	TID_LGST_ STREAM_DEFINED	
2	HEX	0515	TID_LGST_ STREAM_DEFINE_ ERROR	
2	HEX	0516	TID_LGST_ RELEASE_SHR_STREAM_ LOCK_ERROR	
2	HEX	0517	TID_LGST_ STREAM_DEFINE_ INPUT	
2	HEX	0518	TID_LGST_ ENQUEUE_ERROR	
2	HEX	0519	TID_LGST_ DEQUEUE_ERROR	
2	HEX	051A	TID_LGST_ ADD_ENQPOOL_ERROR	
2	HEX	0520	TID_LGST_ ADD_BROWSES_SUBPOOL_ ERROR	
2	HEX	0521	TID_LGST_ BROWSES_BBLX_EXCEPTION	
2	HEX	0522	TID_LGST_ BROWSES_SIF_EXCEPTION	
2	HEX	050F	TID_LGST_ ADD_STREAM_LOCK_ ERROR	
2	HEX	0523	TID_LGST_ REC_RLSE_STREAM_ LOCK_ERROR	
2	HEX	0524	TID_LGST_ CONNECT_ERROR	

Table 279. (continued)

Len	Type	value	Name	Description
2	HEX	0525	TID_LGST_ EXIT_REJECTED_ DEFINE	
2	HEX	0526	TID_LGST_ WAIT_FOR_STREAM_ LOCK	
2	HEX	0527	TID_LGST_ START_WT_BROWSE_ ERROR	
2	HEX	0528	TID_LGST_ GET_NEXT_WT_ERROR	
2	HEX	0529	TID_LGST_ END_WT_BROWSE_ ERROR	
2	HEX	052A	TID_LGST_ GET_EXC_LGUOW_ LOCK_ERROR	
2	HEX	052B	TID_LGST_ RELEASE_EXC_LGUOW_ LOCK_ERROR	
2	HEX	052C	TID_LGST_ REC_RLSE_LGUOW_ LOCK_ERROR	
2	HEX	052D	TID_LGST_ MVS_ENQ_INPUT	
2	HEX	052E	TID_LGST_ MVS_ENQ_OK	
2	HEX	052F	TID_LGST_ MVS_ENQ_FAIL	
2	HEX	0530	TID_LGST_ MVS_DEQ_INPUT	
2	HEX	0531	TID_LGST_ MVS_DEQ_OK	
2	HEX	0532	TID_LGST_ MVS_DEQ_FAIL	
!:erefstep.lgst_tracepoint_dcl ------------------------------------ !:refstep.lgpa_tracepoint_dcl ---------------------- DFHLGTRI 1467 - ! ! lgpa tracepoints ! !--				
2	HEX	0601	TID_LGPA_ENTRY	
2	HEX	0602	TID_LGPA_EXIT	
2	HEX	0603	TID_LGPA_RECOVERY	
2	HEX	0604	TID_LGPA_ INVALID_FORMAT	
2	HEX	0605	TID_LGPA_ INVALID_FUNCTION	

Table 279. (continued)

Len	Type	value	Name	Description
!:erefstep.lgpa_tracepoint_dcl ---------- !:refstep.lgsc_tracepoint_dcl ---------- DFHLGTRI 1516 - ! ! lgsc tracepoints ! !----------				
2	HEX	0701	TID_LGSC_ENTRY	
2	HEX	0702	TID_LGSC_EXIT	
2	HEX	0703	TID_LGSC_RECOVERY	
2	HEX	0704	TID_LGSC_ INVALID_FORMAT	
2	HEX	0705	TID_LGSC_ INVALID_FUNCTION	
2	HEX	0706	TID_LGSC_ INVALID_PARMS	

LGFL Log Of Logs Failure Record

```
!:refstep.lgfl_log_of_logs_record -------------------- DFHLGGL 2279 -
!
!
! The CICS log manager domain will write a record to user journal
! DFHLGLOG when it detects a write error to any MVS logger log
! stream. Records will not be written for failed attempts to connect
! to a log stream.
!
! There will be one record for the stream itself and, if the stream
! is used as a journal, a record for each CICS journal name that
! uses the stream.
!
! This record is preceeded by the normal CICS log record header.
!
!--------------------------------------------------------------------
```

Table 280.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	LGFL_RECORD	
(0)	UNSIGNED	2	LGFL_DATA_TYPE	Record type
1=Stream Failure 2=Journal Failure				
(2)	CHARACTER	26	LGFL_STREAM_NAME	MVS stream name
(1C)	CHARACTER	8	LGFL_JNL_NAME	Journal name

Constants

Table 281.

Len	Type	value	Name	Description
2	DECIMAL	1	LGFL_STREAM_FAIL_REC	
2	DECIMAL	2	LGFL_JNL_FAIL_REC	

LGSF System Log Format

```
!:refstep.lg_system_log_format ------------------------ DFHLGLF 233 -
!
!
! The CICS System Log is a special log where CICS keeps enough data
! to satisfy the requirements of transaction backout, emergency
! restart and indoubt resolution. It resides upon the MVS Logger.
! The System Log comprises a sequence of contiguous blocks on two
! physical log streams, the primary and the secondary. Blocks are
! written to the primary. They may be moved to the secondary at a
! later point in time so that the tail of the primary can be
! periodically deleted. This is a performance optimization.
!
! Each block comprises a block header followed by a variable number
! of CICS records. The format of the block header is defined by the
! dsect "lgsl_block_header"
!
! Each CICS record comprise a record header followed by caller data
! normally belonging to CICS Recovery Manager (RM). The record
! header is defined by the dsect "lgsl_record_header".
!
! The format of the caller data is unknown at the Log Manager
! functional level. The RM caller data is defined by the Recovery
! Manager domain.
!
! The following diagram shows the physical layout of a System Log
! block.
!
! system log
! __ first system log block
! __ __ block header (lgsl_block_header)
! __ __ __ first cics record
! __ __ __ __ record header (lgsl_record_header)
! __ __ __ __ caller data (RM)
! __ __ __ next cics record
! __ __ __ ...
! __ __ __ last cics record
! __ __ __ ...
! __ next system log block
! __ ...
! __ last system log block
! __ ...
!
! This copybook defines the block header, record header, and user
! headers for the System Log.
!
!--------------------------------------------------------------------
!:refstep.lg_system_log_block_header ------------------ DFHLGLF 283 -
!
! Each block starts with a block header as defined here.
!
!--------------------------------------------------------------------
```

Table 282.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	LGSL_BLOCK_HEADER	
(0)	STRUCTURE IsA(SYSLOGBLOCKHEADER)	52	*	
(0)	STRUCTURE IsA(MVSLOGBLOCKHEADER)	40	SLBH	
(0)	CHARACTER	8	LGBH_GLOBAL_INFO	

Table 282. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(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
(28)	CHARACTER	8	SLBH_PREV_ BLOCK_ID	
				block id prev block
(30)	UNSIGNED	4	SLBH_LAST_ USED_INDEX	
				index of last record
(34)	CHARACTER	0	SLBH_DATA	records follow

```
!:erefstep.lg_system_log_block_header -------------------------------
!:refstep.lg_system_log_record_header ----------------- DFHLGLF 293 -
!
! Each record starts with a header as defined here, followed by RM
! data.
!
! The header comprises two parts. The first part is common to all
! records, and contains a link to the previous record on this
! logstream. This enables the entire logstream to be sequentially
! read back on a record basis (during CICS emergency restart). This
```

```
! is known as the 'master chain'.
!
! The second part identifies the different record types. There are
! four record types, as described below.
!
! - A record written to the primary log as part of a UOW. Contains a
! link to the previous record in the UOW on the primary.
!
! - A special fork record written to the primary log as part of a
! UOW. Contains a link to the previous record in the UOW on the
! primary (the dead tail) and the previous record in the UOW on
! the secondary.
!
! - A record written to the secondary log as part of a UOW. Contains
! a link to the previous record in the UOW on the secondary.
!
! - A record written to the primary log by a user and not part of
! any UOW (unchained).
!
! The UOW links described above enable a UOW to be sequentially read
! back on a record basis (during dynamic backout). Note that the RM
! data starts immediately after the chain header finishes, so the RM
! data starts at a different offset for each different record type.
!
!--------------------------------------------------------------------
```

Table 283.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	68	LGSL_RECORD_HEADER	
(0)	STRUCTURE IsA(SYSLOGCOMBINEDRECORD)	68	*	
(0)	STRUCTURE IsA(SYSLOGRECORD)	16	SLH_PREFIX	initial header
(0)	UNSIGNED	4	SLH_P_REC_LEN	inclusive length of this record
(4)	UNSIGNED	4	SLH_P_HDR_LEN	inclusive length of this header
(8)	CHARACTER	8	SLH_P_STCK	record time (GMT)
(10)	CHARACTER	0	SLH_P_DATA	start of rest of record
(10)	STRUCTURE IsA(MASTERCHAINHEADER)	16	SLH_MASTER	link to previous
(10)	STRUCTURE IsA(FLATRECORDTOKEN)	16	MASTER_PREV	previous on master chain
(10)	STRUCTURE IsA(FLATBLOCK)	9	FLAT_BLOCK	block details
(10)	CHARACTER	8	ID_OR_NUMBER	block id or number
(10)	CHARACTER	8	FLAT_BLOCK_NUM	
				block number
(10)	CHARACTER	8	FLAT_BLOCK_ID	block id

Table 283. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER	1	BLOCK_ID_ USED	block id used = 'Y', block number used = 'N'
(19)	CHARACTER	1	FLAT_REAL	real record token = 'Y', null record token = 'N'
(1A)	CHARACTER	2	FLAT_RSVD1	reserved
(1C)	UNSIGNED	4	FLAT_INDEX	offset within block
(20)	CHARACTER	36	SLH_REST	record is one of...
(20)	STRUCTURE IsA(NORMAL_CHAIN_HEADER)	20	SLH_NORMAL	normal primary
(20)	UNSIGNED	4	REC_TYPE_ NORMAL	normal type (= 1)
(24)	STRUCTURE IsA(FLATRECORDTOKEN)	16	CHAIN_PREV	previous on UOW chain
(24)	STRUCTURE IsA(FLATBLOCK)	9	FLAT_BLOCK	block details
(24)	CHARACTER	8	ID_OR_NUMBER	block id or number
(24)	CHARACTER	8	FLAT_BLOCK_ NUM	
				block number
(24)	CHARACTER	8	FLAT_BLOCK_ ID	
				block id
(2C)	CHARACTER	1	BLOCK_ID_ USED	block id used = 'Y', block number used = 'N'
(2D)	CHARACTER	1	FLAT_REAL	real record token = 'Y', null record token = 'N'
(2E)	CHARACTER	2	FLAT_RSVD1	reserved
(30)	UNSIGNED	4	FLAT_INDEX	offset within block
(34)	CHARACTER	0	NORMAL_ RM_START	start of RM data
(20)	STRUCTURE IsA(FORK_CHAIN_HEADER)	36	SLH_FORK	fork
(20)	UNSIGNED	4	REC_TYPE_FORK	fork type (= 2)
(24)	STRUCTURE IsA(FLATRECORDTOKEN)	16	CHAIN_PREV_ LIVE	previous on UOW chain on secondary
(24)	STRUCTURE IsA(FLATBLOCK)	9	FLAT_BLOCK	block details

Table 283. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	CHARACTER	8	ID_OR_NUMBER	block id or number
(24)	CHARACTER	8	FLAT_BLOCK_ NUM	
				block number
(24)	CHARACTER	8	FLAT_BLOCK_ ID	
				block id
(2C)	CHARACTER	1	BLOCK_ID_ USED	block id used = 'Y', block number used = 'N'
(2D)	CHARACTER	1	FLAT_REAL	real record token = 'Y', null record token = 'N'
(2E)	CHARACTER	2	FLAT_RSVD1	reserved
(30)	UNSIGNED	4	FLAT_INDEX	offset within block
(34)	STRUCTURE IsA(FLATRECORDTOKEN)	16	CHAIN_PREV_ DEAD	previous on UOW chain on primary
(34)	STRUCTURE IsA(FLATBLOCK)	9	FLAT_BLOCK	block details
(34)	CHARACTER	8	ID_OR_NUMBER	block id or number
(34)	CHARACTER	8	FLAT_BLOCK_ NUM	
				block number
(34)	CHARACTER	8	FLAT_BLOCK_ ID	
				block id
(3C)	CHARACTER	1	BLOCK_ID_ USED	block id used = 'Y', block number used = 'N'
(3D)	CHARACTER	1	FLAT_REAL	real record token = 'Y', null record token = 'N'
(3E)	CHARACTER	2	FLAT_RSVD1	reserved
(40)	UNSIGNED	4	FLAT_INDEX	offset within block
(44)	CHARACTER	0	FORK_RM_START	start of RM data
(20)	STRUCTURE IsA(SECONDARY_CHAIN_HEADER)	20	SLH_SECONDARY	secondary
(20)	UNSIGNED	4	REC_TYPE_SEC	secondary type (= 3)

Table 283. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	STRUCTURE IsA(FLATRECORDTOKEN)	16	CHAIN_PREV_SEC	previous on UOW chain
(24)	STRUCTURE IsA(FLATBLOCK)	9	FLAT_BLOCK	block details
(24)	CHARACTER	8	ID_OR_NUMBER	block id or number
(24)	CHARACTER	8	FLAT_BLOCK_NUM	
				block number
(24)	CHARACTER	8	FLAT_BLOCK_ID	
				block id
(2C)	CHARACTER	1	BLOCK_ID_USED	block id used = 'Y', block number used = 'N'
(2D)	CHARACTER	1	FLAT_REAL	real record token = 'Y', null record token = 'N'
(2E)	CHARACTER	2	FLAT_RSVD1	reserved
(30)	UNSIGNED	4	FLAT_INDEX	offset within block
(34)	CHARACTER	0	SECONDARY_RM_START	
				start of RM data
(20)	STRUCTURE IsA(USER_CHAIN_HEADER)	4	SLH_USER	unchained user
(20)	UNSIGNED	4	REC_TYPE_USER	user type (= 4)
(24)	CHARACTER	0	USER_RM_START	start of RM data
(20)	STRUCTURE IsA(TRIM_CHAIN_HEADER)	36	SLH_TRIM	unchained trim
(20)	UNSIGNED	4	REC_TYPE_TRIM	trim type (= 5)
(24)	CHARACTER	16	PRIMARY_LOG_HISTORY_POINT_INFO	
				to trim primary
(24)	CHARACTER	8	PRIMARY_STCK_VALUE	
				store clock value
(2C)	CHARACTER	8	PRIMARY_BLOCK_ID	
				MVS block id
(34)	CHARACTER	16	SECONDARY_LOG_HISTORY_POINT_INFO	

Table 283. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				to trim secondary
(34)	CHARACTER	8	SECONDARY_ STCK_VALUE	
				store clock value
(3C)	CHARACTER	8	SECONDARY_ BLOCK_ID	
				MVS block id
(44)	CHARACTER	0	*	
(20)	STRUCTURE IsA(NON_MOVED_CHAIN_HEADER)	20	SLH_NON_MOVED	by
(20)	UNSIGNED	4	REC_TYPE_ NORMAL	normal type (= 6)
(24)	STRUCTURE IsA(FLATRECORDTOKEN)	16	CHAIN_PREV	prev on UOW chain
(24)	STRUCTURE IsA(FLATBLOCK)	9	FLAT_BLOCK	block details
(24)	CHARACTER	8	ID_OR_NUMBER	block id or number
(24)	CHARACTER	8	FLAT_BLOCK_ NUM	
				block number
(24)	CHARACTER	8	FLAT_BLOCK_ ID	
				block id
(2C)	CHARACTER	1	BLOCK_ID_ USED	block id used = 'Y', block number used = 'N'
(2D)	CHARACTER	1	FLAT_REAL	real record token = 'Y', null record token = 'N'
(2E)	CHARACTER	2	FLAT_RSVD1	reserved
(30)	UNSIGNED	4	FLAT_INDEX	offset within block
(34)	CHARACTER	0	NON_MOVED_ RM_START	
				start of RM data
(44)	CHARACTER	0	*	

```
!:erefstep.lg_ system_ log_record_header ------------------------------
!:refstep.lg_ system_ log_user_header ------------------- DFHLGLF 327 -
!
  ! The CICS API supports writing directly to 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 in dsect "cl_  user_header" plus some
! extra transaction related data as shown in dsect "sl_ user_header".
!
```

```
! NOTE: "sl_ user_header" followed by "cl_ user_header" form a
  ! particular case of 'caller data' referred to above. This is the
  ! only case where caller data is not defined by RM.
!
  ! The following diagram shows how the two user headers appear within
  ! a System Log record.
!
! system log
! __ ...
  ! __ system log block
! __ _ _ block header (lgsl_ block_header)
! __ _  _ __ first cics record
! __ __ __ ...
! __ _  _ __ next cics record
! __ _ _ __ __  record header (lgsl_record_header)
! __ _ _ __ __  user header (sl_user_header)
! __ _ _ __ __  user header (cl_user_header)
! __ _ _ __ __  rest of caller data
! __ _  _ __ last cics record
! __ __ __ ...
!
  !---------------------------------------------------------------------
```

Table 284.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	SL_USER_HEADER	
(0)	STRUCTURE IsA(SYSLOGUSER)	16	*	
(0)	CHARACTER	16	SL_UH_TRAN_DATA	
(0)	UNSIGNED	4	SL_UH_TD_ LENGTH	length of this header
(4)	CHARACTER	4	SL_UH_TD_ TASKNO	task number
(8)	CHARACTER	4	SL_UH_TD_ TRANID	tranid
(C)	CHARACTER	4	SL_UH_TD_ TERMID	termid
(10)	CHARACTER	0	SL_UH_END	general user header follows

```
!:erefstep.lg_system_log_user_header --------------------------------
!:refstep.lg_general_log_user_header ------------------ DFHLGLF 189 -
!
! 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 285.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	CL_USER_HEADER	
(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 286.

Len	Type	value	Name	Description
!:erefstep.lg_general_log_user_header ------------------------------				
2	DECIMAL	1	SLBH_BLOCK_ VERSION_NO	
3	CHARACTER	DFH	SLBH_BLOCK_ TYPE_DFH	
1	CHARACTER	>	SLBH_BLOCK_ TYPE_ARROW	
1	DECIMAL	0	SLBH_LOG_ TYPE_GENERAL	
1	DECIMAL	1	SLBH_LOG_TYPE_SYSTEM	
4	DECIMAL	1	SLH_P_REC_ TYPE_NORMAL	

Table 286. (continued)

Len	Type	value	Name	Description
4	DECIMAL	2	SLH_P_REC_TYPE_FORK	
4	DECIMAL	3	SLH_P_REC_ TYPE_SECONDARY	
4	DECIMAL	4	SLH_P_REC_TYPE_USER	
4	DECIMAL	5	SLH_P_REC_TYPE_TRIM	
4	DECIMAL	6	SLH_P_REC_ TYPE_NON_MOVED	

RUEI Logger Reusable Extended Iliffe Vector Class

```
!:refstep.class_declarations ------------------------- DFHLGUD 198 -
  Restricted Materials of IBM
!
! The RUEI and MRUEI classes are both collected into the DFHLGUDC
! copybook which may then in turn be included by calling code.
!
!--------------------------------------------------------------------
!:refstep.ruei_class_declaration ---------------------- DFHLGUD 206 -
!
! RUEI is the Reusable Extended Iliffe Vector class.
!
! Before declaring this class, the user should declare a constant
! RUEI_SIZE to indicate the number of elements which may be set in
! this particular vector.
!
!--------------------------------------------------------------------
```

Table 287.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	20	RUEI	
!:erefstep.ruei_partial_copy_to_buffer_entry ----------------------- !:refstep.ruei_instance_data ------------------------- DFHLGUD 637 - ! ! The reusable extended Iliffe vector contains an array of elements ! and a continuation pointer. Note that the continuation pointer ! follows the last element so that the browse need not record the ! current vector address as well as the current element address. ! ! The vector also contains two sums of element lengths. One sum ! (ruei_elem_length_sum) contains the total length of data elements ! pointed to by this vector alone. The other sum ! (ruei_elem_length_sum_sum) contains the sum of lengths of data ! elements in this vector plus the lengths of all the elements ! pointed to in the linked list of vectors pointed to by this ruei. ! ! Finally, a public constant is included to denote the end of a ! browse. ! !----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	20	INSTANCE_ DATA_BLOCK	
				explicitly name

Table 287. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	UNSIGNED Prot	4	RUEI_ELEM_ LENGTH_SUM	
(4)	UNSIGNED Prot	4	RUEI_ELEM_ LENGTH_SUM_SUM	
(8)	CHARACTER Prot	8	RUEI_ELEMS (1)	
(8)	ADDRESS Prot	4	RUEI_ELEM_ADDR	
(8)	BIT(8) Prot	1	*	
	1... .... Prot		RUEI_ELEM_ ADDR_FLAG	
				OFF means this is NOT a continuation pointer
(C)	UNSIGNED Prot	4	RUEI_ELEM_ LENGTH	
(10)	ADDRESS Prot	4	RUEI_CONTINUATION	Zero pointer means there there is no continuation to this vector. Non-zero values point to the continuation of this vector.
(10)	BIT(8) Prot	1	*	
	1... .... Prot		RUEI_CONTINUATION_ FLAG	
				ON means this is a continuation pointer

Constants

Table 288.

Len	Type	value	Name	Description
4	DECIMAL	2147483647	RUEI_BROWSE_END	

LIFO Stack Segment Table Header

```
-------------------------------------------------------------------
 CONTROL BLOCK NAME = DFHLIFO
 DESCRIPTIVE NAME  = CICS (KE) Kernel Lifo control blocks.

 Restricted Materials of IBM

 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
```

```
EXTERNAL REFERENCES = None.
  Segment Entry
    Controls the allocation of stack entries within this segment.
```

Table 289.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	SEGMENT_ENTRY	Segment entry
(0)	CHARACTER	8	SEG_NAME	Eye-catcher SEGENTRY
(8)	ADDRESS	4	SEG_NEXT_FREE	If the segment is free this is the free list pointer
(C)	ADDRESS	4	SEG_CHAIN	If the segment is allocated to a task, this is the segment ownership chain, starting with the current segment
(10)	ADDRESS	4	SEG_START_ OF_SEGMENT	
				First byte of usable segment storage
(14)	ADDRESS	4	SEG_END_ OF_SEGMENT	Last byte + 1 of this segment
(18)	ADDRESS	4	SEG_CURRENT_ STACK	Current stack in segment
(1C)	BIT(8)	1	SEG_FLAGS	Flags
	1...		SEG_DISPOSABLE	Segment may be freemained *
	.1..		SEG_ACQUIRED_ FROM_SM	
				Acquired from Stg Mgr
	..1.		SEG_SHARED	Shared initial segment. *
(1D)	BIT(24)	3	*	Reserved
(20)	CHARACTER	0	SEG_DATA	Start of segment data

Constants

Table 290.

Len	Type	value	Name	Description
4	DECIMAL	2016	SEGMENT_DATA_ LENGTH_24	
4	DECIMAL	28640	SEGMENT_DATA_ LENGTH_31	

Table 290. (continued)

Len	Type	value	Name	Description
4	DECIMAL	4064	SEGMENT_DATA_ EXTLEN_24	
4	DECIMAL	8160	SEGMENT_DATA_ EXTLEN_31	
4	DECIMAL	2147418111	SEGMENT_ADDRESS_ LIMIT	
4	DECIMAL	0	SEG_ANYWHERE	
4	DECIMAL	1	SEG_BELOW	

APLI Language Interface work area

```
!:refstep.language_interface_workarea ------------------ DFHLIWA 67 -
!
!
! The Language Interface Work-Area is acquired by the Transaction
! Manager (XM) Domain during initial processing for the task. The
! area is built in the storage key defined by the TaskDataKey value
! of the Task definition.
!
! If the length of this area changes, take great care to ensure that
! all modules affected either directly, or indirectly via DFHAPCOM
! or the change in length to language_interface_workarea, are
! re-compiled.
!
!-------------------------------------------------------------------
   CONTROL BLOCK Name = DFHLIWAC
   DESCRIPTIVE NAME  = CICS Language interface Work Area
               This Copy Book describes the common work area used
   for communications between CICS and Language Environment.

   Restricted Materials of IBM

   FUNCTION = Interface between CICS and Language Environment.
   LIFETIME = Task
   Storage CLASS = TaskDataKey.
   LOCATION =
        Addressed from the SYSTEM TCA by TCACEEPT.
   Notes :
    Dependencies = S/370
    Restrictions =
    Module Type = Control block definition
  -------------------------------------------------------------------
```

Table 291.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	752	LANGUAGE_ INTERFACE_ WORKAREA	

```
 -------------------------------------------------------------------
   The following area will hold the Thread Token used by
   Language Environment and the thread work-area address.
 -------------------------------------------------------------------
```

Table 291. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	8	LE370_THREAD_TOKEN	
(8)	ADDRESS	4	LE370_THREAD_WORKAREA_ADDR	
---------- The following areas are for the use of Language Environment routines. ----------				
(C)	FULLWORD	4	LANG_ENV_REASON_CODE	
(10)	CHARACTER	240	LANG_ENV_WORKAREA	
(100)	FULLWORD	4	LANG_ENV_RSA (18)	
---------- A save area to hold the values of the floating point registers at the time of an abend. ----------				
(148)	CHARACTER	32	FLOATING_POINT_REGISTERS	
(148)	CHARACTER	8	FLOATING_POINT_REG0	
(150)	CHARACTER	8	FLOATING_POINT_REG2	
(158)	CHARACTER	8	FLOATING_POINT_REG4	
(160)	CHARACTER	8	FLOATING_POINT_REG6	
---------- The terminfo area is used for communication between CICS and Language Environment during rununit-end-invocation and rununit termination. ----------				
(168)	CHARACTER	232	TERMINFO	
(168)	CHARACTER	4	TERMCODE	
(168)	BIT(8)	1	*	
	1...		TERMCODE_BIT0	abnormal termination
	.1..		TERMCODE_BIT1	normal termination driven via EXEC CICS RETURN
	..1.		TERMCODE_BIT2	normal termination driven via native language return

Table 291. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		TERMCODE_BIT3	normal termination driven in a called assembler rtn
	.... 1...		TERMCODE_BIT4	abend - ASRA
	.... .1..		TERMCODE_BIT5	abend - but not ASRA
	.... ..1.		TERMCODE_BIT6	lower level run-unit terminated abnormally
	1		TERMCODE_BIT7	user handle abend active
(169)	BIT(8)	1	*	
	1...		TERMCODE_BIT8	This PTB in use
	.1..		TERMCODE_BIT9	interrupt in CICS
	..1.		TERMCODE_ BIT10	CICS dump suppressed
	...1		TERMCODE_ BIT11	abend_cancel active
	 1111		*	reserved
(16A)	BIT(16)	2	*	reserved
(16C)	CHARACTER	4	ABCODE	
(170)	CHARACTER	8	PROGRAM_ CHECK_PSW	
(170)	CHARACTER	4	*	
(174)	CHARACTER	4	PROGRAM_ CHECK_ADDRESS	
(178)	CHARACTER	8	PROGRAM_ CHECK_INTERRUPT_ DATA	
(180)	CHARACTER	64	REGISTERS_ AT_PROGRAM_CHECK	
(1C0)	CHARACTER	64	REGISTERS_ AT_LAST_CICS_CMD	
(200)	FULLWORD	4	RETRY_REGISTERS (16)	
(240)	CHARACTER	16	RETRY_PSW	
---------- The celinfo area is used for communication between CICS and Language Environment during rununit-end-invocation and program-check-recovery. ----------				
(250)	CHARACTER	64	CELINFO	
(250)	CHARACTER	24	CELINFO_HEAD	

Table 291. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(250)	CHARACTER	4	*	
(254)	CHARACTER	4	*	
(258)	CHARACTER	16	PSW	
(258)	CHARACTER	8	*	
(260)	CHARACTER	8	INTERRUPT_ DATA	
(260)	CHARACTER	2	INSTRUCTION_ LENGTH	
(262)	CHARACTER	2	INTERRUPT_ CODE	
(264)	FULLWORD	4	EXCEPTION_ ADDRESS	
(268)	ADDRESS	4	ABEND_GP_ REGISTERS_ADDR	
(26C)	ADDRESS	4	ABEND_FP_ REGISTERS_ADDR	
(270)	ADDRESS	4	ABEND_AX_ REGISTERS_ADDR	
(274)	ADDRESS	4	LAST_CICS_ CMD_REGISTERS_ ADDR	
---------- The following area is completed by Language Environment. ----------				
(278)	CHARACTER	4	CONTCODE	
(278)	BIT(8)	1	*	
	1...		*	reserved
	.1..		CONTCODE_BIT1	retry using registers
	..1.		CONTCODE_BIT2	retry using PSW
	...1		CONTCODE_BIT3	cleanup OTE TCB !
	 1111		*	reserved
(279)	BIT(24)	3	*	reserved
(27C)	CHARACTER	20	RETRY_DATA_ VECTOR	
(27C)	FULLWORD	4	RETRY_ADDRESS	NB - there is no indirection
(280)	ADDRESS	4	RETRY_PROGRAM_ MASK_ADDR	
(284)	ADDRESS	4	RETRY_GP_ REGISTERS_ADDR	
(288)	ADDRESS	4	RETRY_FP_ REGISTERS_ADDR	

Table 291. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28C)	ADDRESS	4	RETRY_AX_ REGISTERS_ADDR	
---------- The language bits area is used during Determine Working Storage and Perform Goto calls to LE/370. ----------				
(290)	FULLWORD	4	LANGUAGE_BITS	
(290)	CHARACTER	1	BYTE1	
(291)	CHARACTER	3	*	
---------- Special areas for decoding data returned by the Abend Manager. ----------				
(294)	CHARACTER	4	TACB_ABEND_CODE	
(298)	CHARACTER	4	TACB_REG_ 13_AT_ABEND	
---------- Areas for invoking the MVS service CSRL16J. ----------				
(29C)	CHARACTER	72	MVS_SERVICE_RSA	
(2E4)	CHARACTER	8	MVS_PLIST	
(2E4)	ADDRESS	4	MVS_PLIST_ADDR1	
(2E8)	ADDRESS	4	MVS_PLIST_ADDR2	
(2EC)	FULLWORD	4	MVS_RETCODE	

LMCB1 Lock Manager Domain Anchor Block

```
    Segment Name = DFHLMCB1
    DESCRIPTIVE NAME  = CICS Lock Manager Domain Control Blocks
1

    Restricted Materials of IBM

    Function =
         This file contains the data structure
         declarations used by the Lock Manager domain.
         The file is included by each Lock Manager domain
         module.
         The data structures are :
             ANCHOR - LM Anchor block
             LOCK_MANAGEMENT - LM lock management details
             LOCK_ELEMENT - LM lock element details
    Notes:
     Dependencies = S/370
     Restrictions = none
     Register Conventions = domain standard (no special usage)
     Patch Label = N/A
     Module Type = N/A
     Attributes = N/A
   ---------------------------------------------------------------------
     LM anchor block
```

Table 292.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	ANCHOR	Anchor Block
(0)	CHARACTER	16	ANC_PREFIX	Anchor prefix area
(0)	HALFWORD	2	ANC_LENGTH	Anchor length
(2)	CHARACTER	1	ANC_ARROW	Arrow eyecatcher
(3)	CHARACTER	3	ANC_DFH	DFH
(6)	CHARACTER	2	ANC_DOMID	Domain id
(8)	CHARACTER	8	ANC_BLOCK_NAME	Control block name
(10)	ADDRESS	4	ANC_QUICKCELL_1_HEAD	
				-> quickcell 1 head
(14)	ADDRESS	4	ANC_QUICKCELL_2_HEAD	
				-> quickcell 2 head
(18)	ADDRESS	4	ANC_QUICKCELL_3_HEAD	
				-> quickcell 3 head
(1C)	UNSIGNED	4	*	Reserved
(20)	CHARACTER	8	ANC_FREECHAIN_1_HEAD	
				Freechain 1 head
(20)	ADDRESS	4	ANC_FREECHAIN_1_NEXT	
				-> freechain 1 next
(24)	UNSIGNED	4	ANC_FREECHAIN_1_GUARD	
				Freechain 1 guard count
(28)	CHARACTER	8	ANC_FREECHAIN_2_HEAD	
				Freechain 2 head
(28)	ADDRESS	4	ANC_FREECHAIN_2_NEXT	
				-> freechain 2 next
(2C)	UNSIGNED	4	ANC_FREECHAIN_2_GUARD	
				Freechain 2 guard count

Table 292. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	CHARACTER	8	ANC_FREECHAIN_ 3_HEAD	
				Freechain 3 head
(30)	ADDRESS	4	ANC_FREECHAIN_ 3_NEXT	
				-> freechain 3 next
(34)	UNSIGNED	4	ANC_FREECHAIN_ 3_GUARD	
				Freechain 3 guard count
(38)	UNSIGNED	4	ANC_NUMBER_ OF_LOCKS	
				Number of locks
(3C)	CHARACTER	4	ANC_MAXIMUM_ TASKS	
(3C)	HALFWORD	2	ANC_TASK_LIMIT	mxt task limit
(3E)	HALFWORD	2	ANC_XTRA_LIMIT	overflow allocation

```
Lock management
```

Table 293.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	LOCK_MANAGEMENT	Lock Management
(0)	CHARACTER	24	LM_PREFIX	Wait queue prefix area
(0)	HALFWORD	2	LM_LENGTH	Length
(2)	CHARACTER	1	LM_ARROW	Arrow Eyecatcher
(3)	CHARACTER	3	LM_DFH	DFH
(6)	CHARACTER	2	LM_DOMID	Domain id
(8)	CHARACTER	8	LM_BLOCK_NAME	Control block name
(10)	CHARACTER	8	LM_LOCK_NAME	Lock name
(18)	CHARACTER	8	LM_COMP_ AND_SWAP_SECTION	
(18)	FULLWORD	4	LM_CS_OWNER	Owner of x lock
(18)	BIT(8)	1	*	
	1...		LM_CS_MODE_S	'1' shared, '0' excl
	.111 1111		*	Reserved
(19)	BIT(8)	1	*	Reserved
(1A)	HALFWORD	2	LM_CS_COUNT	No. of shared lock users

Table 293. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	ADDRESS	4	LM_CS_NEXT_PTR	-> to queue of lock waiters
(20)	FULLWORD	4	LM_LOCK_TOKEN	Lock token
(24)	FULLWORD	4	LM_LOCK_REQUESTS	Number of lock requests
(28)	FULLWORD	4	LM_LOCK_SUSPENDS	Number of lock suspends
(2C)	FULLWORD	4	*	Reserved
(30)	CHARACTER	0	*	

```
Lock Element
```

Table 294.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	LOCK_ELEMENT	
(0)	FULLWORD	4	LE_OWNER	Owner of x lock
(0)	BIT(8)	1	*	
	1...		LE_MODE_S	'1' shared, '0' excl
	.111 1111		*	Reserved
(1)	BIT(24)	3	*	Reserved
(4)	ADDRESS	4	LE_NEXT_PTR	-> to queue of lock waiters
(8)	FULLWORD	4	LE_SUSPEND_TOKEN	Suspend_token or 0
(C)	CHARACTER	4	LE_COMP_ AND_SWAP_SECTION	
(C)	BIT(8)	1	*	
	1...		LE_CS_SUSPEND	Compare and swap bit
	.111 1111		*	Reserved
(D)	BIT(24)	3	*	Reserved
(10)	CHARACTER	4	LE_STATUS	
(10)	BIT(8)	1	*	
	1...		LE_DELETED	'1' deleted
	.1..		LE_PURGED	'1' purged
	..11 1111		*	Reserved
(11)	BIT(24)	3	*	Reserved

LMCB2 Lock Manager Domain Quickcell Headers

```
    Segment Name = DFHLMCB2
    DESCRIPTIVE NAME  = CICS Lock Manager Domain Control Blocks
2
```

```
Restricted Materials of IBM

Function =
     This file contains the data structure
     declarations used by the Lock Manager domain.
     The data structures are :
         QUICKCELL_1 - LM quickcell block descriptor.
         QUICKCELL_2 - LM quickcell block descriptor.
         QUICKCELL_3 - LM quickcell block descriptor.
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = domain standard (no special usage)
 Patch Label = N/A
 Module Type = N/A
 Attributes = N/A
--------------------------------------------------------------------
 Quickcell_1
 - storage obtained for lock management elements.
   A new element is allocated for every add lock.
```

Table 295.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	QUICKCELL_1	
(0)	CHARACTER	32	QUICKCELL_ 1_PREFIX	
(0)	HALFWORD	2	QUICKCELL_ 1_LENGTH	
				Length
(2)	CHARACTER	1	QUICKCELL_ 1_ARROW	Arrow Eyecatcher
(3)	CHARACTER	3	QUICKCELL_1_DDF	DDFH
(6)	CHARACTER	2	QUICKCELL_ 1_DOMID	Domain id
(8)	CHARACTER	8	QUICKCELL_ 1_BLOCK_NAME	
				Control block name
(10)	ADDRESS	4	QUICKCELL_ 1_NEXT	-> next
(14)	ADDRESS	4	QUICKCELL_ 1_LAST_ELEMENT	
				-> last element
(18)	ADDRESS	4	*	Reserved
(1C)	ADDRESS	4	*	Reserved

```
 Quickcell_2
 - storage obtained for lock queue elements.
   A new element is allocated for every wait queue element.
```

Table 296.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	QUICKCELL_2	
(0)	CHARACTER	32	QUICKCELL_ 2_PREFIX	

Table 296. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	QUICKCELL_ 2_LENGTH	
				Length
(2)	CHARACTER	1	QUICKCELL_ 2_ARROW	Arrow Eyecatcher
(3)	CHARACTER	3	QUICKCELL_2_DDH	DDH
(6)	CHARACTER	2	QUICKCELL_ 2_DOMID	Domain id
(8)	CHARACTER	8	QUICKCELL_ 2_BLOCK_NAME	
				Control block name
(10)	ADDRESS	4	QUICKCELL_ 2_NEXT	-> next
(14)	CHARACTER	4	*	Reserved
(18)	ADDRESS	4	*	Reserved
(1C)	ADDRESS	4	*	Reserved

```
Quickcell_3
- storage obtained for browse tokens.
```

Table 297.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	QUICKCELL_3	
(0)	CHARACTER	32	QUICKCELL_ 3_PREFIX	
(0)	HALFWORD	2	QUICKCELL_ 3_LENGTH	
				Length
(2)	CHARACTER	1	QUICKCELL_ 3_ARROW	Arrow Eyecatcher
(3)	CHARACTER	3	QUICKCELL_3_DDH	DDH
(6)	CHARACTER	2	QUICKCELL_ 3_DOMID	Domain id
(8)	CHARACTER	8	QUICKCELL_ 3_BLOCK_NAME	
				Control block name
(10)	ADDRESS	4	QUICKCELL_ 3_NEXT	-> next
(14)	CHARACTER	4	*	Reserved
(18)	ADDRESS	4	*	Reserved
(1C)	ADDRESS	4	*	Reserved

```
Quickcell 1 element
```

Table 298.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	QUICKCELL_ 1_ELEMENT	
(0)	ADDRESS	4	QUICK_1_ ELEM_NEXT	-> next quickcell element

```
Quickcell 2 element
```

Table 299.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	QUICKCELL_ 2_ELEMENT	
(0)	ADDRESS	4	QUICK_2_ ELEM_NEXT	-> next quickcell element

```
Quickcell 3 element
```

Table 300.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	QUICKCELL_ 3_ELEMENT	
(0)	ADDRESS	4	QUICK_3_ ELEM_NEXT	-> next quickcell element

```
Freechain 1
- free elements for adding locks
```

Table 301.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	FREECHAIN_1	
(0)	ADDRESS	4	FREE_1_NEXT	-> next free element

```
Freechain 2
- free elements for adding lock elements to the queue
```

Table 302.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	FREECHAIN_2	
(0)	ADDRESS	4	FREE_2_NEXT	-> next free element

```
Freechain 3
- free elements for adding browse tokens
```

Table 303.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	FREECHAIN_3	
(0)	ADDRESS	4	FREE_3_NEXT	-> next free element

Constants

Table 304.

Len	Type	value	Name	Description
4	DECIMAL	18	QUICKMAX_1	Max no. of quickcell elems
4	DECIMAL	18	QUICKMAX_3	Max no. of quickcell elems

MEPS Message Domain Anchor Block

```
MODULE NAME = DFHMEPS COPY
DESCRIPTIVE NAME  = CICS Message Domain Anchor Block

Restricted Materials of IBM

FUNCTION = This member describes the structure of the data
           contained in the ME domain Anchor Block. It also
           contains the global variables used throughout the
           ME domain, eg. YES, NO, ON, OFF, etc, the NLS Table,
           and the ME Catalog Record.
           The ME domain Anchor block is set up during
           Pre-initialise and Initialise, by DFHMEDM. It
           remains until CICS is terminated.
           The anchor block contains the necessary system
           options for Messages, eg the Languages in the system
           and the default language etc. These are SIT options,
           and are assumed to hold true until the next CICS
           start.
USAGE = This is %INCLUDED by the following programs:
        1) DFHSUME
        2) DFHMEDM
        3) DFHMEBU
        4) DFHMEIN
        5) DFHMESR
        6) DFHMEME
        7) DFHMEDUF
        8) DFHMEWS
-----------------------------------------------------------------------
                                be generated
                                big enough when DFHMET19 missing
 ME domain common structures and constants
 ME Anchor Block
```

Table 305.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	725	ANCHOR	Anchor block
(0)	CHARACTER	16	ANCH_PREFIX	Anchor prefix area
(0)	HALFWORD	2	ANCH_LENGTH	Anchor length
(2)	CHARACTER	1	ANCH_ARROW	Arrow eyecatcher
(3)	CHARACTER	3	ANCH_DFH	DFH
(6)	CHARACTER	2	ANCH_DOMID	Domain id
(8)	CHARACTER	8	ANCH_BLOCK_NAME	Control block name

Table 305. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	CHARACTER	4	LOCKING_INFO	ME Locking Information
(10)	ADDRESS	4	LOCK_TOKEN	ME Lock Token
(14)	BIT(8)	1	PHASE_INFO	Phase information
	1...		PRE_INIT_ COMPLETE_FLAG	
				Pre-initialise complete
	.1..		XMEOUT_ACTIVE	User exit active flag
	..11 1111		*	Reserved
(15)	BIT(8)	1	RECOVERY_INFO	Recovery information
(15)	BIT(8)	1	*	Reserved
(16)	UNSIGNED	1	MESSAGE_CASE	Message case required
(17)	CHARACTER	1	*	Reserved
(18)	CHARACTER	700	MESSAGE_INFO	Message Information
(18)	CHARACTER	1	DEFAULT_ LANGUAGE	One-character default language suffix
(19)	CHARACTER	3	DEFAULT_ LANGUAGE_CODE	
				Three-letter default language code
(1C)	UNSIGNED	1	NUMBER_OF_LANGS	Number in this system
(1D)	UNSIGNED	1	ME_DOMAIN_ STATUS	Status flag
(1E)	CHARACTER	2	*	Reserved
(20)	ADDRESS	4	NLS_TABLE_PTR	Pointer to NLS Table
(24)	ADDRESS	4	DEFAULT_ LANG_PTR	Default language Ptr
(28)	CHARACTER	36	LANGUAGES_USED	Languages available in the system
(4C)	CHARACTER	57	UNAVAILABLE_ LANGUAGES	
				Languages noted as not available in the system
(85)	CHARACTER	3	*	Reserved

Table 305. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	ADDRESS	4	MSG_MOD_PTRS (36)	Array of ptrs, one for each message module
(118)	ADDRESS	4	FEATURE_ DEFAULT_LANG_PTR	
				Default feature table pointer
(11C)	ADDRESS	4	USER_DEFAULT_ LANG_PTR	
				Default user table pointer
(120)	ADDRESS	4	CPSM_DEFAULT_ LANG_PTR	
				Default CPSM table pointer
(124)	ADDRESS	4	FEATURE_ MSG_MOD_PTRS (36)	
				Array of ptrs, * one for each feature * message module
(1B4)	ADDRESS	4	USER_MSG_ MOD_PTRS (36)	Array of ptrs, one * for each user message * module
(244)	ADDRESS	4	CPSM_MSG_ MOD_PTRS (36)	Array of ptrs, one * for each CPSM message * module
(2D4)	BIT(8)	1	MSG_LEVEL_INFO	Msg Level Information *
	1...		MSG_LEVEL	Message Level
	.111 1111		*	Reserved

```
National Language Support Table (NLS_TABLE).
NLS_TABLE consists of three-letter national language codes and
one-character CICS language suffixes.
```

Table 306.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	NLS_TABLE (54)	Each entry in NLS_TABLE consists of a
(0)	CHARACTER	3	NLS_CODE	three-letter language code,
(3)	CHARACTER	1	NLS_SUFFIX	and a one-character language suffix

```
ME Catalogue Record
```

Table 307.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	44	CATALOG_RECORD	ME catalogue record
(0)	UNSIGNED	1	MECR_MESSAGE_CASE	Message case required
(1)	UNSIGNED	1	MECR_NUMBER_OF_LANGS	Number in this system
(2)	CHARACTER	36	MECR_LANGUAGES_USED	Langs in system
(26)	CHARACTER	1	MECR_DEFAULT_LANGUAGE	System default language System default language code
(27)	CHARACTER	3	MECR_DEFAULT_LANGUAGE_CODE	
(2A)	CHARACTER	1	*	Reserved
(2B)	BIT(8)	1	*	
	1...		MECR_MSG_LEVEL	Message Level
	.111 1111		*	Reserved

```
Generalised insert structure - used as an overlay for the CDURUN.
```

Table 308.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	GENERAL_INSERT	INSERTn
(0)	ADDRESS	4	GEN_INSERT_PTR	-> INSERTn_P
(4)	FULLWORD	4	GEN_INSERT_LEN	INSERTn_N

```
Storage to build record into
```

Table 309.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	532	SYMPTOM_RECORD	
(0)	CHARACTER	1	SYMPTOM_RECORD_CHAR (532)	
				@D4

Constants

Table 310.

Len	Type	value	Name	Description
1	CHARACTER	>	ARROW	> for prefix
4	DECIMAL	32	BDY32	Used for storage bdy
0	BIT	1	YES	Yes
0	BIT	0	NO	No
0	BIT	1	ON	On
0	BIT	0	OFF	Off
1	DECIMAL	1	UPPER	upper case messages
1	DECIMAL	2	MIXED	mixed case messages
4	DECIMAL	4	POINT_ID_LENGTH	Length of point_id
1	DECIMAL	1	BIT_ON	Represents a bit set on
1	DECIMAL	0	BIT_OFF	Represents a bit set off
1	DECIMAL	1	ZSUPP_YES	Suppress leading 0's
1	DECIMAL	0	ZSUPP_NO	Don't suppress leading 0's
4	DECIMAL	196	MAX_SYMPTOM_ STRING_LEN	Max length of a symptom string
1	HEX	00	NULL_LANGUAGE	Null language suffix
3	CHARACTER	CEK	SHIPPED_LANGUAGE	Shipped languages are Chinese, English & Kanji@P5A
Message Domain Status Constants				
4	DECIMAL	1	PRE_INITIALISED	
4	DECIMAL	2	INITIALISED	
4	DECIMAL	3	QUIESCING	
4	DECIMAL	4	TERMINATING	
Maximum Values Constants				
1	DECIMAL	36	MAX_LANGUAGES	Maximum Number of languages allowed in the system *
1	DECIMAL	20	MAX_REPLIES	Maximum number of replies allowed in a message *

Table 310. (continued)

Len	Type	value	Name	Description
1	DECIMAL	10	MAX_INSERTS	Maximum number of inserts allowed in a message * Number of supported three-letter language codes in NLS_TABLE
2	DECIMAL	54	NUMBER_OF_ LANGUAGE_CODES	
Symptom Record				
4	DECIMAL	312	SR_FIXED_STORAGE	@D4
4	DECIMAL	220	SR_PRIMLEN	@D4
4	DECIMAL	0	SR_SECLEN	Not using secondary @D4
4	DECIMAL	0	SR_VARLEN	Not using variable @D4
4	DECIMAL	532	SR_TOTAL_LEN	@D4

MEMMS Message Table Definition

```
 MODULE NAME = DFHMEMMS COPY
 DESCRIPTIVE NAME  = CICS MESSAGE DOMAIN - STRUCTURE OF DATA
                     IN MESSAGE DEFINITION MODULE (DFHMET)
-------------------------------------------------------------------

 Restricted Materials of IBM

 FUNCTION= This member describes the structure of data contained
           in the Message Definition Table (DFHMET). It provides
           symbolic access to the message templates, together
           with the globals in storage created by message domain
           initialisation.
 USAGE = This is %INCLUDED in PLAS programs for:
           (a) The Message Domain (DFHMEx)
           (b) Message Module CMS Utility (DFHMEU) to build
               the message module from CMS Source data in DFHMET.
     Module Header
 FUNCTION= This member describes the structure of data contained
           in the Message Definition Table (DFHMET). It provides
           symbolic access to the message templates, together
           with the globals in storage created by message domain
           initialisation.
```

Table 311.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	MET_MODULE_HEADER	
(0)	UNSIGNED	1	MET_HEADER_ LENGTH	length of header data
(1)	CHARACTER	1	METH_ARROW	Arrow '>'
(2)	CHARACTER	8	METH_MODULE_ IDENT	Module name

Table 311. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A)	CHARACTER	4	METH_RELEASE	Product release code
(E)	CHARACTER	8	METH_PTFLEVEL	Service PTF level
(16)	CHARACTER	8	METH_ASMDATE	Assembly date mm/dd/yy
(1E)	CHARACTER	1	METH_AT_SYMBOL	
(1F)	CHARACTER	5	METH_ASMTIME	Assembly time hh.mm

Table 312.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METX_MESSAGE_INDEX	
(0)	UNSIGNED	2	METX_INDEX_LENGTH	length of index data
(2)	CHARACTER	3	METX_MESSAGE_PREFIX	
				Prefix e.g. DFH
(5)	UNSIGNED	1	METX_INDEX_ENTRIES	No.of index entries
(6)	UNSIGNED	1	METX_ENTRY1_OFFSET	Offset of 1st entry
(7)	CHARACTER	1	*	Padding for alignment
(8)	CHARACTER	*	METX_INDEX_DATA	Start of index data

Table 313.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	METX_INDEX_ENTRY	Generalised indexentry
(0)	CHARACTER	2	METX_MSGSET_NAME	Message set name (nn)
(2)	CHARACTER	2	*	Padding (for aligned V-con to follow)
(4)	ADDRESS	4	METX_MSGSET_ADDRESS	
				Address of start of these messages

Table 314.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	METG_MESSAGE_GLOBALS	

Table 314. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	UNSIGNED	2	METG_AREA_LENGTH	length of globals data
(2)	CHARACTER	10	METG_DATE_FORMAT	e.g. dd-mm-yyyy
(C)	CHARACTER	9	METG_TIME_FORMAT	e.g. hh-mm-ssX, where (X denotes am/pm form)
(15)	CHARACTER	3	METG_NEGNO_ FORMAT	e.g. -n or (n)
(18)	CHARACTER	7	METG_DECIMAL_ FORMAT	
				e.g. 1,234.5
(1F)	CHARACTER	10	METG_NUMERIC_SET	e.g. 0123456789
(29)	CHARACTER	1	METG_REPLY_FOLD	'Y'=fold 'N'=nofold
(2A)	CHARACTER	54	*	(Reserved)

Table 315.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	METM_HEADER	
(0)	UNSIGNED	1	METM_HEADER_ LENGTH	length of header data (includes this field) *
(1)	CHARACTER	1	METM_ARROW	Arrow '>'
(2)	CHARACTER	8	METM_MODULE_ IDENT	Module name
(A)	CHARACTER	4	METM_RELEASE	Product release code *
(E)	CHARACTER	8	METM_PTFLEVEL	Service PTF level
(16)	CHARACTER	8	METM_ASMDATE	Assembly date mm/dd/yy *
(1E)	CHARACTER	1	METM_AT_SYMBOL	
(1F)	CHARACTER	5	METM_ASMTIME	Assembly time hh.mm *

Table 316.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	METM_MESSAGE_ COMPONENT	
(0)	UNSIGNED	1	METM_MSG_ COMPONENT_TYPE	
				component type Constant values of METM_MSG_COMPONENT_TYPE

Table 317.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	METM_MESSAGE_DEFN	
(0)	CHARACTER	1	*	component identifier
(1)	UNSIGNED	2	METM_MSGDEF_LENGTH	length of message definition
(3)	UNSIGNED	2	METM_MSGENTRY_LENGTH	
				length of entire entry including symstring def
(5)	UNSIGNED	2	METM_USER_EXIT_OFFSET	
				Offset of User exit data from start of msg *
(7)	BIT(8)	1	*	
	1...		METM_SYMSTRING	Flag set if message has
	.111 1111		*	symstring def
(8)	FULLWORD	4	METM_SPECINS_INDICATOR	
				Reserved for special * insert indicators
(8)	UNSIGNED	1	METM_SPECINS_GEN	
	1...		METM_DATE	Date
	.1..		METM_TIME	Time
	..1.		METM_APPLID	Applid
	...1		METM_SYSID	Sysid
	 1111		*	Reserved
(9)	UNSIGNED	1	METM_SPECINS_TM	
	1...		METM_TRANID	Tranid
	.1..		METM_TERMID	Termid
	..1.		METM_USERID	userid
	...1		METM_NETNAME	netname
	.... 1...		METM_TRANNUM	transaction num
	.... .111		*	Reserved
(A)	UNSIGNED	1	METM_SPECINS_PC	
	1...		METM_PROGNAME	Program name
	.1..		METM_PRIMAB	Primary abcode
	..1.		METM_SECAB	Secondary abcode

Table 317. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1 1111		*	Reserved

Table 318.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	11	METM_MESSAGE_IDENT	
(0)	CHARACTER	1	*	component identifier
(1)	UNSIGNED	1	METM_MSGIDENT_LENGTH	
				component length
(2)	CHARACTER	2	METM_COMPONENTS_ID	EXCI domain(component)
(4)	UNSIGNED	2	METM_MESSAGE_NO	halfword message no.
(6)	CHARACTER	2	METM_MESSAGE_CODES	
(6)	CHARACTER	1	METM_OPERATOR_ACTION	
				operator action code
(7)	CHARACTER	1	METM_SEVERITY	severity code
(8)	UNSIGNED	2	METM_RESP2_VALUE	halfword EIBRESP2
(A)	CHARACTER	1	METM_NOREROUTE	noreroute flg

Table 319.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	3	METM_MSG_DESTINATIONS	
(0)	CHARACTER	1	*	component identifier
(1)	UNSIGNED	1	METM_MSGDESTS_LENGTH	
				component length
(2)	UNSIGNED	1	METM_DEST_TYPES	dest types
	1...		METM_CONSOLE	type console
	.1..		METM_TDQ	type tdq
	..1.		METM_TERMENDU	type terminal end user
	...1		METM_TERMCDBC	type terminal CDBC *
	.... 1...		METM_SYSPRINT	SYSPRINT

Table 320.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_MSG_RCS	
(0)	CHARACTER	1	*	component identifier
(1)	UNSIGNED	1	METM_RC_ELEMS	number of route codes
(2)	UNSIGNED	1	METM_RC_DATA (*)	list of 1 byte route code *

Table 321.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_MSG_TDQS	
(0)	CHARACTER	1	*	component identifier
(1)	UNSIGNED	1	METM_TDQ_ELEMS	number of TDQs
(2)	CHARACTER	4	METM_TDQ_DATA (*)	list of TDQs each 4 bytes *

Table 322.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_MSG_TEMPLATE	
(0)	CHARACTER	1	*	component identifier
(1)	UNSIGNED	1	METM_TEMPLATE_ ELEMS	
				no.of template elemnts
(2)	CHARACTER	*	METM_TEMPLATE_ DATA	template data

Table 323.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_ELEMENT	
(0)	UNSIGNED	1	METM_ELEMENT_ TYPE	element code
(1)	CHARACTER	*	METM_ELEM_DATA	Constant values of METM_ELEMENT_TYPE

Table 324.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_TEXT_ELEMENT	
(0)	CHARACTER	1	*	element code
(1)	UNSIGNED	1	METM_TEXT_ EL_LENGTH	

Table 324. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				text string length
(2)	CHARACTER	*	METM_TEXT_STRING	text string

Table 325.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_INSERT_ ELEMENT	
(0)	CHARACTER	1	*	element code
(1)	UNSIGNED	1	METM_INSERT_ID	insert identifier no
(2)	UNSIGNED	1	METM_INSERT_ FORMAT	insert format
(3)	CHARACTER	*	METM_OPTVALUES_ DATA	
				optional values data
(3)	UNSIGNED	1	METM_OPTVALUES_ COUNT	
				no.of optional values Constant values of METM_INSERT_FORMAT

Table 326.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_OPTIONAL_ INSERT	
(0)	UNSIGNED	1	METM_OPTINS_ IDENT	option value number
(1)	UNSIGNED	1	METM_OPTINS_ LENGTH	value text length
(2)	CHARACTER	*	METM_OPTINS_TEXT	value text string

Table 327.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_REPLY_ ELEMENT	
(0)	CHARACTER	1	*	element code
(1)	UNSIGNED	1	METM_REPLY_IDENT	reply value number
(2)	UNSIGNED	1	METM_REPLY_ LENGTH	reply text length
(3)	CHARACTER	*	METM_REPLY_TEXT	reply text string

Table 328.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_SPECIAL_INSERT_ELEMENT	
(0)	CHARACTER	1	*	element code
(1)	UNSIGNED	1	METM_SPECIAL_INSERT_ELEMS	
				No of special inserts *
(2)	UNSIGNED	1	METM_SPECIAL_INSERT_FORMAT (*)	
				special insert * type values

Table 329.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_EXIT_MAP	
(0)	CHARACTER	1	*	Component identifier
(1)	UNSIGNED	1	METM_EXIT_ELEMS	no of exit elements
(2)	CHARACTER	2	METM_EXIT_DATA (*)	array of exit data
(2)	UNSIGNED	1	METM_EXIT_TYPE	either ins# or special *
(3)	UNSIGNED	1	METM_EXIT_FORMAT	type code of insert

Table 330.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_SYMSTRING_DEFINITION	
(0)	CHARACTER	1	*	comp identifier
(1)	UNSIGNED	1	METM_SYMPTOM_ELEMS	no. of extra symps
(2)	CHARACTER	*	METM_SYMSTRING_DEFINITION_DATA	

Table 331.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_SYMPTOM	
(0)	UNSIGNED	1	METM_SYMPTOM_TYPE	
(1)	UNSIGNED	1	METM_SYMPTOM_DATA_TYPE	

Table 331. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER	*	METM_SYMPTOM_ DATA	

Table 332.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	METM_SYMPTOM_ INSERT_DATA	
(0)	CHARACTER	1	*	Symptom type
(1)	CHARACTER	1	*	Symptom data type
(2)	UNSIGNED	2	METM_SYMPTOM_ INSERT_OFFSET	
				from msgdef start

Table 333.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	3	METM_SYMPTOM_ SPECIAL_DATA	
(0)	CHARACTER	1	*	Symptom type
(1)	CHARACTER	1	*	Symptom data type
(2)	UNSIGNED	1	METM_SYMPTOM_ SPECIAL_TYPE	
				special-insert type declared above

Table 334.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	METM_SYMPTOM_ TEXT_DATA	
(0)	CHARACTER	1	*	Symptom type
(1)	CHARACTER	1	*	Symptom data type
(2)	UNSIGNED	1	METM_SYMPTOM_ TEXT_LENGTH	
				Length of string
(3)	CHARACTER	*	METM_SYMPTOM_ TEXT_STRING	

Constants

Table 335.

Len	Type	value	Name	Description
1	DECIMAL	1	START_OF_MESSAGE	
1	DECIMAL	2	MESSAGE_IDENT	
1	DECIMAL	3	MESSAGE_DEST	
1	DECIMAL	4	MESSAGE_TEMPLATE	
1	DECIMAL	5	END_OF_MESSAGE	
1	DECIMAL	6	MESSAGE_TDQS	new TDQ list
1	DECIMAL	7	MESSAGE_RCS	new route code list
1	DECIMAL	8	SYMSTRING_DEF	
1	DECIMAL	9	END_OF_SYMSTRING	
1	DECIMAL	10	USER_EXIT_MAP	
1	DECIMAL	255	END_OF_MODULE	
4	DECIMAL	28	MAX_ROUTE_CODES	
4	DECIMAL	25	MAX_QUEUES	
1	DECIMAL	1	TEXT_ELEMENT	
1	DECIMAL	2	INSERT_ELEMENT	
1	DECIMAL	3	REPLY_ELEMENT	
1	DECIMAL	4	SPECIAL_INSERT_ELEMENT	
1	DECIMAL	1	FORMAT_CHAR	
1	DECIMAL	2	FORMAT_HEX	
1	DECIMAL	3	FORMAT_DEC	
1	DECIMAL	4	FORMAT_OPT	
1	DECIMAL	5	FORMAT_DATE	
1	DECIMAL	6	FORMAT_TIME	
Constant values used to represent inserts/special-inserts/symptom arg				
1	DECIMAL	1	INSERT1	
1	DECIMAL	2	INSERT2	
1	DECIMAL	3	INSERT3	
1	DECIMAL	4	INSERT4	
1	DECIMAL	5	INSERT5	
1	DECIMAL	6	INSERT6	
1	DECIMAL	7	INSERT7	
1	DECIMAL	8	INSERT8	
1	DECIMAL	9	INSERT9	
1	DECIMAL	10	INSERT10	
1	DECIMAL	11	SPECIAL_TIME	
1	DECIMAL	12	SPECIAL_DATE	

Table 335. (continued)

Len	Type	value	Name	Description
1	DECIMAL	13	SPECIAL_APPLID	
1	DECIMAL	14	SPECIAL_SYSID	
1	DECIMAL	15	SPECIAL_TRANID	
1	DECIMAL	16	SPECIAL_TERMID	
1	DECIMAL	17	SPECIAL_PROGNAME	
1	DECIMAL	18	SPECIAL_USERID	
1	DECIMAL	19	SPECIAL_NETNAME	
1	DECIMAL	20	SPECIAL_TRANNUM	
1	DECIMAL	21	SPECIAL_PRIMAB	
1	DECIMAL	22	SPECIAL_SECAB	
This further member is needed as common code is shared with the symptom string code. Apart from the above text strings are allowable as symptom arguments.				
4	DECIMAL	23	TEXT_STRING	
1	DECIMAL	1	SYMPTOM_INSERT	
1	DECIMAL	2	SYMPTOM_SPECIAL	
1	DECIMAL	3	SYMPTOM_TEXT	

MNAFB Monitoring Authorised Parameter Block

```
CONTROL BLOCK NAME = DFHMNAFB
DESCRIPTIVE NAME  = CICS/MVS Monitoring (MN) Domain
                    Authorised Facilities Parameter Block

Restricted Materials of IBM

Function =
     This file contains the control block and constant
     declarations for the parameter list used by Monitoring
     for communication between the functional gate and the
     SVC service routine.
LIFETIME =
STORAGE CLASS = N/A
LOCATION =
INNER CONTROL BLOCKS = None
Notes:
 Dependencies = S/370
 Restrictions = None
 Register Conventions = Domain standard (no special usage)
 Patch Label = N/A
 Module Type = Control block definition
 Attributes = N/A
--------------------------------------------------------------------
 EXTERNAL REFERENCES = None
   DATA AREAS = None
   CONTROL BLOCKS = None
   GLOBAL VARIABLES (Macro pass) = None
--------------------------------------------------------------------
 Monitor Authorised Facilities Parm Block -- M A F P B --
The Monitor Authorised Facilities Parameter Block contains:
           The authorised facility function code.
           The function return code.
```

The SMF record address
The MVS Workload Manager fields
The creation time of the MAFPB

Table 336.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	68	MAFPB	
Prefix fields for restructured control blocks				
(0)	CHARACTER	16	MAFPB_PREFIX	
(0)	UNSIGNED	2	MAFPB_LENGTH	
(2)	CHARACTER	1	MAFPB_ARROW	
(3)	CHARACTER	3	MAFPB_DFH	
(6)	CHARACTER	2	MAFPB_DOMAIN	
(8)	CHARACTER	8	MAFPB_BLOCK_ID	
Function the Monitoring authorised module should perform, ie SMF write, or MVS SRM notify				
(10)	UNSIGNED	2	MAFPB_FUNCTION	
Monitoring authorised module return code. It is not the SMF return code. If this is set to MAFPB_SMF_ERROR the return code is in MAFPB_SMF_RC.				
(12)	UNSIGNED	1	MAFPB_RESPONSE	
Indicator to Monitoring authorised module whether to perform GTF tracing.				
(13)	BIT(8)	1	*	
	1...		MAFPB_GTF_TRACE_FLAG	
	.111 1111		*	
Address of SMF record if SMF write is required.				
(14)	ADDRESS	4	MAFPB_SMF_RECORD	
(18)	ADDRESS	4	*	
SMF return code				
(1C)	UNSIGNED	1	MAFPB_SMF_RC	
(1D)	CHARACTER	1	*	
SRM Status				
(1E)	BIT(8)	1	MAFPB_SRM_STATUS	
	1...		MAFPB_EWLM_SUPPORT_INSTALLED	
	.1..		MAFPB_EWLM_DELAY_SERVICES	
	..11 1111		*	
(1F)	CHARACTER	1	*	
MVS Return Code registers after SYSEVENT or SMFEWTM macros have been issued.				
(20)	FULLWORD	4	MAFPB_RTNREG0	
(24)	FULLWORD	4	MAFPB_RTNREG1	

Table 336. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	FULLWORD	4	MAFPB_RTNREG15	
MVS Workload Manager Connect Token, Performance Block Token, and the Transaction End Time for Report or Notify.				
(2C)	UNSIGNED	4	MAFPB_WLM_ CONNECT_TOKEN	
(30)	UNSIGNED	4	MAFPB_WLM_ PERFORMANCE_BLOCK	
(34)	BIT(64)	8	MAFPB_WLM_ TRAN_END_TIME	
STCK timestamp of either the MAFPB creation time, or the last time a record was written to SMF.				
(3C)	CHARACTER	8	MAFPB_CREATION_ STCK	
(44)	CHARACTER	0	*	

Constants

Table 337.

Len	Type	value	Name	Description
MAFPB ASSOCIATED CONSTANTS Function codes				
2	DECIMAL	1	MAFPB_SMFEWTM	
2	DECIMAL	3	MAFPB_WLM_CONNECT	
2	DECIMAL	4	MAFPB_WLM_DISCONNECT	
2	DECIMAL	5	MAFPB_WLM_REPORT	
2	DECIMAL	6	MAFPB_WLM_NOTIFY	
2	DECIMAL	7	MAFPB_WLM_PB_CREATE	
2	DECIMAL	8	MAFPB_WLM_PB_DELETE	
2	DECIMAL	9	MAFPB_SYSEVENT_ REQSRMST	
Trace flags				
0	BIT	1	MAFPB_GTF_TRACE_ON	
0	BIT	0	MAFPB_GTF_ TRACE_OFF	
Response codes				
1	DECIMAL	0	MAFPB_OK	
1	DECIMAL	1	MAFPB_NO_FESTAE	
1	DECIMAL	2	MAFPB_NO_STORAGE_253	
1	DECIMAL	3	MAFPB_NO_ AUTHORISATION	
1	DECIMAL	4	MAFPB_NO_STORAGE_SMF	
1	DECIMAL	5	MAFPB_INVALID_ RECORD_LENGTH	

Table 337. (continued)

Len	Type	value	Name	Description
1	DECIMAL	6	MAFPB_NOT_ CICS_RECORD	
1	DECIMAL	7	MAFPB_SMF_ERROR	
1	DECIMAL	9	MAFPB_WLM_ CONNECT_FAILED	
1	DECIMAL	10	MAFPB_WLM_ DISCONNECT_FAILED	
1	DECIMAL	11	MAFPB_WLM_ REPORT_FAILED	
1	DECIMAL	12	MAFPB_WLM_ NOTIFY_FAILED	
1	DECIMAL	13	MAFPB_WLM_ PB_CREATE_FAILED	
1	DECIMAL	14	MAFPB_WLM_ PB_DELETE_FAILED	
1	DECIMAL	15	MAFPB_NO_ STORAGE_MNACB	
1	DECIMAL	16	MAFPB_NO_ STORAGE_HASH	
1	DECIMAL	17	MAFPB_NO_ STORAGE_HASH_ELEM	
1	DECIMAL	18	MAFPB_INVALID_ PB_TOKEN	
1	DECIMAL	19	MAFPB_WLM_ OP_OUT_OF_SEQUENCE	
1	DECIMAL	20	MAFPB_REQSRMST_ERROR	
1	DECIMAL	254	MAFPB_INVALID_ FUNCTION	
				*
Control Block eyecatcher string				
8	CHARACTER	MAFPB	MAFPB_ID_STRING	

MNADP Monitoring Association Data Blocks

Table 338.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	548	MNADCCB	
Prefix fields for restructured control blocks				
(0)	CHARACTER	16	MNADC_PREFIX	
(0)	UNSIGNED	2	MNADC_LENGTH	
(2)	CHARACTER	1	MNADC_ARROW	
(3)	CHARACTER	3	MNADC_DFH	
(6)	CHARACTER	2	MNADC_DOMAIN	

Table 338. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	8	MNADC_BLOCK_ID	
INTERNAL FIELDS -- INTERNAL --				
(10)	CHARACTER	8	MNADC_INT_FIELDS	
(10)	ADDRESS	4	MNADC_TMA	
(14)	CHARACTER	4	*	
MONITOR ASSOCIATION DATA Current task fields are stored in efficient format. They are converted to character fields when requested. Origin task fields are always character format.				
(18)	CHARACTER	324	MNADC_CURRENT_TASK	
(18)	CHARACTER	8	MNADC_NETWORKID	
(20)	CHARACTER	8	MNADC_APPLID	
(28)	CHARACTER	8	MNADC_START_STCK	
(30)	CHARACTER	4	MNADC_TASK_NUMBER	
(34)	BIT(16)	2	MNADC_FLAGS	
	1...		MNADC_UCD_SET	
	.1..		MNADC_UCD_INHERITED	
(36)	CHARACTER	1	*	
(37)	UNSIGNED	1	MNADC_PFACILITY_TYPE	
(38)	CHARACTER	8	MNADC_PFACILITY_NAME	
(40)	CHARACTER	8	MNADC_TRAN_FLAGS	
(48)	CHARACTER	4	MNADC_1ST_TRANSID	
(4C)	CHARACTER	4	*	
(50)	CHARACTER	8	MNADC_USERID2	
(58)	CHARACTER	16	MNADC_NQ_LUNAME	
(58)	CHARACTER	8	MNADC_NETID	
(60)	CHARACTER	8	MNADC_NETNAME	
(68)	CHARACTER	8	MNADC_TCPIPSERVICE	
(70)	CHARACTER	8	MNADC_USERID1	
(78)	CHARACTER	8	MNADC_PROGRAM_NAME	
(80)	CHARACTER	8	MNADC_IPCONN	
(88)	UNSIGNED	2	MNADC_CLIENT_PORT	

Table 338. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8A)	UNSIGNED	2	MNADC_SERVER_PORT	
(8C)	UNSIGNED	1	MNADC_IPADDR_FAMILY	
				2:AF_INET 19:AF_INET6
(8D)	UNSIGNED	1	MNADC_PROTOCOL	SOIS_HTTP, etc
(8E)	CHARACTER	2	*	alignment
(90)	CHARACTER	16	MNADC_CLIENT_IPADDR6	
				BIN(128)
(90)	CHARACTER	12	MNADC_CLIENT_IP_PRF	
(9C)	UNSIGNED	4	MNADC_CLIENT_IPADDR	
(A0)	CHARACTER	16	MNADC_SERVER_IPADDR6	
				BIN(128)
(A0)	CHARACTER	12	MNADC_SERVER_IP_PRF	
(AC)	UNSIGNED	4	MNADC_SERVER_IPADDR	
(B0)	CHARACTER	8	MNADC_MVSIMAGE	
(B8)	CHARACTER	8	MNADC_TCPIPJOB	
(C0)	CHARACTER	8	MNADC_TCPIP_ZONENAME	
(C8)	CHARACTER	39	MNADC_CLIENT_IP	Std print fmt
(EF)	CHARACTER	1	*	
(F0)	CHARACTER	39	MNADC_SERVER_IP	Std print fmt
(117)	CHARACTER	1	*	
(118)	CHARACTER	40	MNADC_TCPIP_APPLDATA	
(140)	CHARACTER	28	MNADC_TRANS_GRPID	
(15C)	CHARACTER	200	MNADC_ODR	
(224)	CHARACTER	0	*	

```
Monitoring Origin Descriptor Record
  These fields are passed when non-system tasks are started
  locally or remotely via IS over an IPCONN.
```

Table 339.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	200	MNODR	
ASSOCIATED DATA ORIGIN TASK				

Table 339. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	8	MNODR_NETWORKID	
(8)	CHARACTER	8	MNODR_APPLID	
(10)	CHARACTER	8	MNODR_START_STCK	
(18)	CHARACTER	4	MNODR_TASK_ NUMBER	
(1C)	CHARACTER	4	MNODR_1ST_ TRANSID	
(20)	CHARACTER	8	MNODR_USERID2	
(28)	CHARACTER	3	*	
(2B)	UNSIGNED	1	MNODR_FACILITY_ TYPE	
(2C)	CHARACTER	8	MNODR_FACILITY_ NAME	
(34)	CHARACTER	8	MNODR_TRAN_FLAGS	
FOLLOWING ARE CONDITIONAL ON FACILITY TYPE				
(3C)	CHARACTER	16	MNODR_NQ_LUNAME	
(3C)	CHARACTER	8	MNODR_NETID	
(44)	CHARACTER	8	MNODR_NETNAME	
(4C)	CHARACTER	8	MNODR_TCPIPSERVICE	
(54)	UNSIGNED	4	MNODR_PORT_ NUMBER	
(58)	UNSIGNED	1	MNODR_IPADDR_ FAMILY	
(59)	CHARACTER	3	*	
(5C)	CHARACTER	39	MNODR_CLIENT_ IPADDR	
(83)	CHARACTER	1	*	
(84)	UNSIGNED	4	MNODR_CLIENT_ PORT	
ADDED TO ORIGIN DESCRIPTOR BY OPTIONAL USER EXIT XAPADMGR				
(88)	CHARACTER	64	MNODR_USER_ CORRELATOR	
(C8)	CHARACTER	0	*	

Constants

Table 340.

Len	Type	value	Name	Description
CONTROL BLOCK EYECATCHER STRING				
8	CHARACTER	ADCB	MNADC_ID_STRING	

MNCBS Monitoring Domain Control Blocks

```
CONTROL BLOCK NAME = DFHMNCBS
DESCRIPTIVE NAME  = CICS/MVS Monitoring (MN) Domain
                    Control Block declarations.

Restricted Materials of IBM

Function =
     This file contains the control block and constant
     declarations used by the Monitoring domain.
     The file is included by each Monitoring domain module.
     The control blocks are:
         TMA - Transaction Monitoring Area.
         TRMA - Transaction Resource Monitoring Area.
         GLOBAL - Monitoring global storage area.
                - Dictionary Entry.
                - Connector Arrays.
         DUMP - Dump control values.
         MSGS - Message Numbers.
         TRACE - Trace point definitions.
     Each control block declaration is followed by the
     constant declarations related to it.
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = domain standard (no special usage)
 Patch Label = N/A
 Module Type = N/A
 Attributes = N/A
-------------------------------------------------------------------
 EXTERNAL REFERENCES = None
   DATA AREAS = None
   CONTROL BLOCKS = None
   GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
 The MN Domain Transaction Monitoring Area (TMA)
```

Table 341.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2600	TRANSACTION_MONITORING_AREA	
Prefix fields for restructured control blocks				
(0)	CHARACTER	16	TMA_PREFIX	
(0)	UNSIGNED	2	TMA_LENGTH	
(2)	CHARACTER	1	TMA_ARROW	
(3)	CHARACTER	3	TMA_DFH	
(6)	CHARACTER	2	TMA_DOMAIN	
(8)	CHARACTER	8	TMA_BLOCK_ID	
Date and time of TMA creation.				
(10)	CHARACTER	8	TMA_CREATION_STCK	
Reserved fields				
(18)	CHARACTER	8	TMA_RESERVED_1	
(20)	ADDRESS	4	TMA_PARENT_TMA	
(24)	ADDRESS	4	TMA_CHILD_TMA	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	UNSIGNED	4	TMA_DEPTH_COUNT	
(2C)	CHARACTER	4	TMA_RESERVED_2	
(30)	ADDRESS	4	TMA_TRMA_PTR	
(34)	ADDRESS	4	TMA_USER_ AREA_PTR	
(38)	ADDRESS	4	TMA_DS_TOKEN	
(3C)	CHARACTER	4	TMA_WLM_ SRC_TOKEN	
(40)	ADDRESS	4	TMA_APPLNAME_PTR	
(44)	ADDRESS	4	TMA_REG_ HIGH_SAVE	
Pointer to the Monitoring anchor				
(48)	ADDRESS	4	TMA_MNA_PTR	
(4C)	CHARACTER	1	TMA_CLASS_STATUS	
	1...		TMA_EXCEPTION_ STATUS	
	.1..		TMA_PERFORMANCE_ STATUS	
	..1.		*	
	...1		TMA_RESOURCE_ STATUS	
	 1111		*	
(4D)	CHARACTER	1	TMA_MCT_OPTIONS	
	1...		TMA_RMI_OPTION	
	.111 1111		*	
(4E)	CHARACTER	2	*	
Exception record count for this transaction.				
(50)	UNSIGNED	4	TMA_EXCEPTION_ COUNT	
(54)	CHARACTER	4	*	
Elapsed and CPU timing fields				
(58)	CHARACTER	8	TMA_ELAPSED_TIME	
(60)	CHARACTER	8	TMA_CPU_TIME	
(68)	CHARACTER	8	TMA_RMI_TIME	
(70)	CHARACTER	8	TMA_START_TIME	
Last suspend (susptime) interval for I/O clocks				
(78)	CHARACTER	8	TMA_LAST_ SUSPEND_INTERVAL	
Accumulated suspend deltas for composite clocks				
(80)	CHARACTER	8	TMA_COMPOSITE_ 171_INTVL	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	UNSIGNED	4	TMA_COMPOSITE_171_INTVL_COUNT	
(8C)	CHARACTER	8	TMA_COMPOSITE_254_INTVL	
(94)	UNSIGNED	4	TMA_COMPOSITE_254_INTVL_COUNT	
(98)	CHARACTER	8	*	
Current values for high water mark calculations				
(A0)	CHARACTER	68	TMA_CURRENT	
(A0)	UNSIGNED	4	TMA_DFHSTOR_033_C	
(A4)	UNSIGNED	4	TMA_DFHSTOR_106_C	
(A8)	UNSIGNED	4	TMA_DFHSTOR_116_C	
(AC)	UNSIGNED	4	TMA_DFHSTOR_119_C	
(B0)	UNSIGNED	4	TMA_DFHSTOR_087_C	
(B4)	UNSIGNED	4	TMA_DFHSTOR_139_C	
(B8)	UNSIGNED	4	TMA_DFHSTOR_108_C	
(BC)	UNSIGNED	4	TMA_DFHSTOR_142_C	
(C0)	UNSIGNED	4	TMA_DFHSTOR_143_C	
(C4)	UNSIGNED	4	TMA_DFHSTOR_122_C	
(C8)	UNSIGNED	4	TMA_DFHSTOR_162_C	
(CC)	UNSIGNED	4	TMA_DFHSTOR_161_C	
(D0)	UNSIGNED	4	TMA_DFHSTOR_160_C	
(D4)	UNSIGNED	4	TMA_DFHSOCK_292_C	
(D8)	UNSIGNED	4	TMA_DFHSOCK_293_C	
(DC)	UNSIGNED	4	TMA_DFHTASK_252_C	
(E0)	UNSIGNED	4	TMA_DFHCHNL_329_C	
Time of last storage change for occupancy calc.				
(E4)	CHARACTER	16	TMA_OCCUPANCY	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E4)	UNSIGNED	4	TMA_DFHSTOR_095_O	
(E8)	UNSIGNED	4	TMA_DFHSTOR_107_O	
(EC)	UNSIGNED	4	TMA_DFHSTOR_118_O	
(F0)	UNSIGNED	4	TMA_DFHSTOR_121_O	
Depth of recursion counts for recursive clocks				
(F4)	CHARACTER	4	TMA_RECURSE_COUNTS	
(F4)	UNSIGNED	4	TMA_DFHTASK_170_A	
Define CICS monitoring data fields				
(F8)	CHARACTER	700	TMA_BEGIN	
(F8)	CHARACTER	4	TMA_DFHTASK_001	
(FC)	CHARACTER	4	TMA_DFHTERM_002	
(100)	CHARACTER	8	TMA_DFHCICS_089	
(108)	CHARACTER	4	TMA_DFHTASK_004	
(10C)	CHARACTER	8	TMA_DFHCICS_005	
(114)	CHARACTER	8	TMA_DFHCICS_006	
(11C)	CHARACTER	4	TMA_DFHTASK_031	
(120)	UNSIGNED	4	TMA_DFHTASK_109	
(124)	CHARACTER	8	TMA_DFHTASK_166	
(12C)	CHARACTER	8	TMA_DFHTERM_111	
(134)	CHARACTER	8	TMA_DFHPROG_071	
(13C)	CHARACTER	20	TMA_DFHTASK_097	
(150)	CHARACTER	8	TMA_DFHTASK_098	
(158)	CHARACTER	4	TMA_DFHCICS_130	
(15C)	UNSIGNED	4	TMA_DFHCICS_131	
(160)	CHARACTER	8	TMA_DFHTASK_132	
(168)	CHARACTER	8	TMA_DFHCICS_167	
(170)	CHARACTER	8	TMA_DFHCICS_168	
(178)	CHARACTER	4	TMA_DFHTASK_163	
(17C)	BIT(64)	8	TMA_DFHTASK_164	
(184)	UNSIGNED	4	TMA_DFHTERM_165	
(188)	CHARACTER	4	TMA_DFHTERM_169	
(18C)	CHARACTER	4	TMA_DFHTASK_124	
(190)	CHARACTER	16	TMA_DFHTASK_190	
(1A0)	CHARACTER	36	TMA_DFHCBTS_200	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C4)	CHARACTER	8	TMA_DFHCBTS_201	
(1CC)	CHARACTER	52	TMA_DFHCBTS_202	
(200)	CHARACTER	52	TMA_DFHCBTS_203	
(234)	CHARACTER	16	TMA_DFHCBTS_204	
(244)	CHARACTER	16	TMA_DFHSOCK_244	
(254)	CHARACTER	28	TMA_DFHTASK_082	
(270)	CHARACTER	8	TMA_DFHTERM_197	
(278)	CHARACTER	8	TMA_DFHTERM_198	
(280)	CHARACTER	8	TMA_DFHSOCK_245	
(288)	UNSIGNED	4	TMA_DFHSOCK_246	
(28C)	CHARACTER	128	TMA_DFHTASK_194	
(30C)	CHARACTER	4	TMA_DFHEJBS_311	
(310)	UNSIGNED	4	TMA_DFHSOCK_330	
(314)	CHARACTER	8	TMA_DFHSOCK_305	
(31C)	CHARACTER	8	TMA_DFHCICS_359	
(324)	CHARACTER	8	TMA_DFHCICS_360	
(32C)	CHARACTER	8	TMA_DFHCICS_361	
(334)	CHARACTER	4	TMA_DFHCICS_362	
(338)	CHARACTER	4	TMA_DFHCICS_363	
(33C)	CHARACTER	8	TMA_DFHCICS_364	
(344)	CHARACTER	64	TMA_DFHCICS_365	
(384)	CHARACTER	8	TMA_DFHCICS_366	
(38C)	UNSIGNED	4	TMA_DFHCICS_367	
(390)	CHARACTER	16	TMA_DFHCICS_368	
(3A0)	UNSIGNED	4	TMA_DFHCICS_369	
(3A4)	BIT(64)	8	TMA_DFHCICS_370	
(3AC)	CHARACTER	8	TMA_DFHCICS_371	
(3B4)	CHARACTER	728	TMA_RESET	
(3B4)	CHARACTER	4	TMA_DFHTASK_064	
(3B8)	CHARACTER	4	TMA_DFHPROG_113	
(3BC)	CHARACTER	4	TMA_DFHPROG_114	
(3C0)	CHARACTER	4	TMA_DFHCICS_112	
(3C4)	UNSIGNED	4	TMA_DFHTERM_034	
(3C8)	UNSIGNED	4	TMA_DFHTERM_083	
(3CC)	UNSIGNED	4	TMA_DFHTERM_035	
(3D0)	UNSIGNED	4	TMA_DFHTERM_084	
(3D4)	UNSIGNED	4	TMA_DFHTERM_067	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3D8)	UNSIGNED	4	TMA_DFHTERM_085	
(3DC)	UNSIGNED	4	TMA_DFHTERM_068	
(3E0)	UNSIGNED	4	TMA_DFHTERM_086	
(3E4)	UNSIGNED	4	TMA_DFHTERM_135	
(3E8)	UNSIGNED	4	TMA_DFHTERM_137	
(3EC)	UNSIGNED	4	TMA_DFHTERM_136	
(3F0)	UNSIGNED	4	TMA_DFHTERM_138	
(3F4)	UNSIGNED	4	TMA_DFHTERM_069	
(3F8)	UNSIGNED	4	TMA_DFHSTOR_054	
(3FC)	UNSIGNED	4	TMA_DFHSTOR_105	
(400)	UNSIGNED	4	TMA_DFHSTOR_117	
(404)	UNSIGNED	4	TMA_DFHSTOR_120	
(408)	UNSIGNED	4	TMA_DFHSTOR_033	
(40C)	UNSIGNED	4	TMA_DFHSTOR_106	
(410)	UNSIGNED	4	TMA_DFHSTOR_116	
(414)	UNSIGNED	4	TMA_DFHSTOR_119	
(418)	CHARACTER	8	TMA_DFHSTOR_095	
(418)	UNSIGNED	4	*	
(41C)	UNSIGNED	4	*	
(420)	CHARACTER	8	TMA_DFHSTOR_107	
(420)	UNSIGNED	4	*	
(424)	UNSIGNED	4	*	
(428)	CHARACTER	8	TMA_DFHSTOR_118	
(428)	UNSIGNED	4	*	
(42C)	UNSIGNED	4	*	
(430)	CHARACTER	8	TMA_DFHSTOR_121	
(430)	UNSIGNED	4	*	
(434)	UNSIGNED	4	*	
(438)	UNSIGNED	4	TMA_DFHSTOR_144	
(43C)	UNSIGNED	4	TMA_DFHSTOR_145	
(440)	UNSIGNED	4	TMA_DFHSTOR_146	
(444)	UNSIGNED	4	TMA_DFHSTOR_147	
(448)	UNSIGNED	4	TMA_DFHSTOR_148	
(44C)	UNSIGNED	4	TMA_DFHSTOR_149	
(450)	UNSIGNED	4	TMA_DFHSTOR_087	
(454)	UNSIGNED	4	TMA_DFHSTOR_139	
(458)	UNSIGNED	4	TMA_DFHSTOR_108	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(45C)	UNSIGNED	4	TMA_DFHSTOR_	142
(460)	UNSIGNED	4	TMA_DFHSTOR_	143
(464)	UNSIGNED	4	TMA_DFHSTOR_	122
(468)	UNSIGNED	4	TMA_DFHSTOR_	162
(46C)	UNSIGNED	4	TMA_DFHSTOR_	161
(470)	UNSIGNED	4	TMA_DFHSTOR_	160
(474)	UNSIGNED	4	TMA_DFHFILE_0	36
(478)	UNSIGNED	4	TMA_DFHFILE_0	37
(47C)	UNSIGNED	4	TMA_DFHFILE_0	38
(480)	UNSIGNED	4	TMA_DFHFILE_0	39
(484)	UNSIGNED	4	TMA_DFHFILE_0	40
(488)	UNSIGNED	4	TMA_DFHFILE_0	93
(48C)	UNSIGNED	4	TMA_DFHFILE_0	70
(490)	UNSIGNED	4	TMA_DFHDEST_0	41
(494)	UNSIGNED	4	TMA_DFHDEST_0	42
(498)	UNSIGNED	4	TMA_DFHDEST_0	43
(49C)	UNSIGNED	4	TMA_DFHDEST_0	91
(4A0)	UNSIGNED	4	TMA_DFHTEMP_0	44
(4A4)	UNSIGNED	4	TMA_DFHTEMP_0	46
(4A8)	UNSIGNED	4	TMA_DFHTEMP_0	47
(4AC)	UNSIGNED	4	TMA_DFHTEMP_0	92
(4B0)	UNSIGNED	4	TMA_DFHMAPP_0	50
(4B4)	UNSIGNED	4	TMA_DFHMAPP_0	51
(4B8)	UNSIGNED	4	TMA_DFHMAPP_0	52
(4BC)	UNSIGNED	4	TMA_DFHMAPP_0	90
(4C0)	UNSIGNED	4	TMA_DFHPROG_0	55
(4C4)	UNSIGNED	4	TMA_DFHPROG_0	56
(4C8)	UNSIGNED	4	TMA_DFHPROG_0	57
(4CC)	UNSIGNED	4	TMA_DFHPROG_0	72
(4D0)	UNSIGNED	4	TMA_DFHPROG_0	73
(4D4)	UNSIGNED	4	TMA_DFHPROG_2	86
(4D8)	UNSIGNED	4	TMA_DFHPROG_2	87
(4DC)	UNSIGNED	4	TMA_DFHPROG_3	06
(4E0)	UNSIGNED	4	TMA_DFHPROG_3	07
(4E4)	UNSIGNED	4	TMA_DFHPROG_3	08
(4E8)	UNSIGNED	4	TMA_DFHPROG_3	09
(4EC)	UNSIGNED	4	TMA_DFHPROG_3	10

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4F0)	UNSIGNED	4	TMA_DFHJOUR_058	
(4F4)	UNSIGNED	4	TMA_DFHJOUR_172	
(4F8)	UNSIGNED	4	TMA_DFHTASK_059	
(4FC)	UNSIGNED	4	TMA_DFHTASK_066	
(500)	UNSIGNED	4	TMA_DFHTASK_065	
(504)	UNSIGNED	4	TMA_DFHTASK_345	
(508)	UNSIGNED	4	TMA_DFHTASK_346	
(50C)	UNSIGNED	4	TMA_DFHTASK_347	
(510)	UNSIGNED	4	TMA_DFHSYNC_060	
(514)	UNSIGNED	4	TMA_DFHCICS_025	
(518)	UNSIGNED	4	TMA_DFHFEPI_150	
(51C)	UNSIGNED	4	TMA_DFHFEPI_151	
(520)	UNSIGNED	4	TMA_DFHFEPI_152	
(524)	UNSIGNED	4	TMA_DFHFEPI_153	
(528)	UNSIGNED	4	TMA_DFHFEPI_154	
(52C)	UNSIGNED	4	TMA_DFHFEPI_155	
(530)	UNSIGNED	4	TMA_DFHFEPI_157	
(534)	UNSIGNED	4	TMA_DFHFEPI_158	
(538)	UNSIGNED	4	TMA_DFHFEPI_159	
(53C)	UNSIGNED	4	TMA_DFHCBTS_205	
(540)	UNSIGNED	4	TMA_DFHCBTS_206	
(544)	UNSIGNED	4	TMA_DFHCBTS_207	
(548)	UNSIGNED	4	TMA_DFHCBTS_208	
(54C)	UNSIGNED	4	TMA_DFHCBTS_209	
(550)	UNSIGNED	4	TMA_DFHCBTS_210	
(554)	UNSIGNED	4	TMA_DFHCBTS_211	
(558)	UNSIGNED	4	TMA_DFHCBTS_212	
(55C)	UNSIGNED	4	TMA_DFHCBTS_213	
(560)	UNSIGNED	4	TMA_DFHCBTS_214	
(564)	UNSIGNED	4	TMA_DFHCBTS_215	
(568)	UNSIGNED	4	TMA_DFHCBTS_216	
(56C)	UNSIGNED	4	TMA_DFHCBTS_217	
(570)	UNSIGNED	4	TMA_DFHCBTS_218	
(574)	UNSIGNED	4	TMA_DFHCBTS_219	
(578)	UNSIGNED	4	TMA_DFHCBTS_220	
(57C)	UNSIGNED	4	TMA_DFHCBTS_221	
(580)	UNSIGNED	4	TMA_DFHCBTS_222	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(584)	UNSIGNED	4	TMA_DFHWEBB_231	
(588)	UNSIGNED	4	TMA_DFHWEBB_232	
(58C)	UNSIGNED	4	TMA_DFHWEBB_233	
(590)	UNSIGNED	4	TMA_DFHWEBB_234	
(594)	UNSIGNED	4	TMA_DFHWEBB_235	
(598)	UNSIGNED	4	TMA_DFHWEBB_236	
(59C)	UNSIGNED	4	TMA_DFHWEBB_237	
(5A0)	UNSIGNED	4	TMA_DFHWEBB_238	
(5A4)	UNSIGNED	4	TMA_DFHWEBB_239	
(5A8)	UNSIGNED	4	TMA_DFHWEBB_224	
(5AC)	UNSIGNED	4	TMA_DFHWEBB_225	
(5B0)	UNSIGNED	4	TMA_DFHDOCH_226	
(5B4)	UNSIGNED	4	TMA_DFHDOCH_227	
(5B8)	UNSIGNED	4	TMA_DFHDOCH_228	
(5BC)	UNSIGNED	4	TMA_DFHDOCH_229	
(5C0)	UNSIGNED	4	TMA_DFHDOCH_223	
(5C4)	UNSIGNED	4	TMA_DFHDOCH_230	
(5C8)	UNSIGNED	4	TMA_DFHDOCH_240	
(5CC)	UNSIGNED	4	TMA_DFHSOCK_242	
(5D0)	UNSIGNED	4	TMA_DFHSOCK_243	
(5D4)	UNSIGNED	4	TMA_DFHSOCK_289	
(5D8)	UNSIGNED	4	TMA_DFHSOCK_290	
(5DC)	UNSIGNED	4	TMA_DFHSOCK_291	
(5E0)	UNSIGNED	4	TMA_DFHSOCK_292	
(5E4)	UNSIGNED	4	TMA_DFHSOCK_293	
(5E8)	UNSIGNED	4	TMA_DFHSOCK_294	
(5EC)	UNSIGNED	4	TMA_DFHSOCK_295	
(5F0)	UNSIGNED	4	TMA_DFHSOCK_296	
(5F4)	UNSIGNED	4	TMA_DFHSOCK_297	
(5F8)	UNSIGNED	4	TMA_DFHSOCK_298	
(5FC)	UNSIGNED	4	TMA_DFHSOCK_301	
(600)	UNSIGNED	4	TMA_DFHSOCK_302	
(604)	UNSIGNED	4	TMA_DFHSOCK_303	
(608)	UNSIGNED	4	TMA_DFHSOCK_304	
(60C)	UNSIGNED	4	TMA_DFHDATA_179	
(610)	UNSIGNED	4	TMA_DFHDATA_180	
(614)	UNSIGNED	4	TMA_DFHDATA_395	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(618)	UNSIGNED	4	TMA_DFHTASK_251	
(61C)	UNSIGNED	4	TMA_DFHTASK_252	
(620)	UNSIGNED	4	TMA_DFHEJBS_312	
(624)	UNSIGNED	4	TMA_DFHEJBS_313	
(628)	UNSIGNED	4	TMA_DFHEJBS_314	
(62C)	UNSIGNED	4	TMA_DFHEJBS_315	
(630)	UNSIGNED	4	TMA_DFHEJBS_316	
(634)	UNSIGNED	4	TMA_DFHEJBS_317	
(638)	UNSIGNED	4	TMA_DFHWEBB_331	
(63C)	UNSIGNED	4	TMA_DFHWEBB_332	
(640)	UNSIGNED	4	TMA_DFHWEBB_333	
(644)	UNSIGNED	4	TMA_DFHWEBB_334	
(648)	UNSIGNED	4	TMA_DFHWEBB_335	
(64C)	UNSIGNED	4	TMA_DFHWEBB_336	
(650)	UNSIGNED	4	TMA_DFHWEBB_337	
(654)	UNSIGNED	4	TMA_DFHWEBB_338	
(658)	UNSIGNED	4	TMA_DFHWEBB_340	
(65C)	UNSIGNED	4	TMA_DFHWEBB_341	
(660)	UNSIGNED	4	TMA_DFHWEBB_342	
(664)	UNSIGNED	4	TMA_DFHCHNL_321	
(668)	UNSIGNED	4	TMA_DFHCHNL_322	
(66C)	UNSIGNED	4	TMA_DFHCHNL_323	
(670)	UNSIGNED	4	TMA_DFHCHNL_324	
(674)	UNSIGNED	4	TMA_DFHCHNL_325	
(678)	UNSIGNED	4	TMA_DFHCHNL_326	
(67C)	UNSIGNED	4	TMA_DFHCHNL_327	
(680)	UNSIGNED	4	TMA_DFHCHNL_328	
(684)	UNSIGNED	4	TMA_DFHCHNL_329	
(688)	UNSIGNED	4	TMA_DFHSOCK_288	
(68C)	CHARACTER	924	TMA_CLOCKS	
(68C)	CHARACTER	12	TMA_DFHTASK_007	
(68C)	CHARACTER	8	TMA_DFHTASK_007_TIME	
(694)	BIT(8)	1	TMA_DFHTASK_007_FLAG	
(695)	UNSIGNED	3	TMA_DFHTASK_007_COUNT	
(698)	CHARACTER	12	TMA_DFHTASK_008	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(698)	CHARACTER	8	TMA_DFHTASK_ 008_TIME	
(6A0)	BIT(8)	1	TMA_DFHTASK_ 008_FLAG	
(6A1)	UNSIGNED	3	TMA_DFHTASK_ 008_COUNT	
(6A4)	CHARACTER	12	TMA_DFHTASK_	014
(6A4)	CHARACTER	8	TMA_DFHTASK_ 014_TIME	
(6AC)	BIT(8)	1	TMA_DFHTASK_ 014_FLAG	
(6AD)	UNSIGNED	3	TMA_DFHTASK_ 014_COUNT	
(6B0)	CHARACTER	12	TMA_DFHTASK_	102
(6B0)	CHARACTER	8	TMA_DFHTASK_ 102_TIME	
(6B8)	BIT(8)	1	TMA_DFHTASK_ 102_FLAG	
(6B9)	UNSIGNED	3	TMA_DFHTASK_ 102_COUNT	
(6BC)	CHARACTER	12	TMA_DFHTASK_	255
(6BC)	CHARACTER	8	TMA_DFHTASK_ 255_TIME	
(6C4)	BIT(8)	1	TMA_DFHTASK_ 255_FLAG	
(6C5)	UNSIGNED	3	TMA_DFHTASK_ 255_COUNT	
(6C8)	CHARACTER	12	TMA_DFHTASK_	256
(6C8)	CHARACTER	8	TMA_DFHTASK_ 256_TIME	
(6D0)	BIT(8)	1	TMA_DFHTASK_ 256_FLAG	
(6D1)	UNSIGNED	3	TMA_DFHTASK_ 256_COUNT	
(6D4)	CHARACTER	12	TMA_DFHTASK_	257
(6D4)	CHARACTER	8	TMA_DFHTASK_ 257_TIME	
(6DC)	BIT(8)	1	TMA_DFHTASK_ 257_FLAG	
(6DD)	UNSIGNED	3	TMA_DFHTASK_ 257_COUNT	
(6E0)	CHARACTER	12	TMA_DFHTASK_	258
(6E0)	CHARACTER	8	TMA_DFHTASK_ 258_TIME	
(6E8)	BIT(8)	1	TMA_DFHTASK_ 258_FLAG	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6E9)	UNSIGNED	3	TMA_DFHTASK_258_COUNT	
(6EC)	CHARACTER	12	TMA_DFHTASK_269	
(6EC)	CHARACTER	8	TMA_DFHTASK_269_TIME	
(6F4)	BIT(8)	1	TMA_DFHTASK_269_FLAG	
(6F5)	UNSIGNED	3	TMA_DFHTASK_269_COUNT	
(6F8)	CHARACTER	12	TMA_DFHTASK_270	
(6F8)	CHARACTER	8	TMA_DFHTASK_270_TIME	
(700)	BIT(8)	1	TMA_DFHTASK_270_FLAG	
(701)	UNSIGNED	3	TMA_DFHTASK_270_COUNT	
(704)	CHARACTER	12	TMA_DFHTASK_262	
(704)	CHARACTER	8	TMA_DFHTASK_262_TIME	
(70C)	BIT(8)	1	TMA_DFHTASK_262_FLAG	
(70D)	UNSIGNED	3	TMA_DFHTASK_262_COUNT	
(710)	CHARACTER	12	TMA_DFHTASK_263	
(710)	CHARACTER	8	TMA_DFHTASK_263_TIME	
(718)	BIT(8)	1	TMA_DFHTASK_263_FLAG	
(719)	UNSIGNED	3	TMA_DFHTASK_263_COUNT	
(71C)	CHARACTER	12	TMA_DFHTASK_264	
(71C)	CHARACTER	8	TMA_DFHTASK_264_TIME	
(724)	BIT(8)	1	TMA_DFHTASK_264_FLAG	
(725)	UNSIGNED	3	TMA_DFHTASK_264_COUNT	
(728)	CHARACTER	12	TMA_DFHTASK_265	
(728)	CHARACTER	8	TMA_DFHTASK_265_TIME	
(730)	BIT(8)	1	TMA_DFHTASK_265_FLAG	
(731)	UNSIGNED	3	TMA_DFHTASK_265_COUNT	
(734)	CHARACTER	12	TMA_DFHTASK_259	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(734)	CHARACTER	8	TMA_DFHTASK_259_TIME	
(73C)	BIT(8)	1	TMA_DFHTASK_259_FLAG	
(73D)	UNSIGNED	3	TMA_DFHTASK_259_COUNT	
(740)	CHARACTER	12	TMA_DFHTASK_266	
(740)	CHARACTER	8	TMA_DFHTASK_266_TIME	
(748)	BIT(8)	1	TMA_DFHTASK_266_FLAG	
(749)	UNSIGNED	3	TMA_DFHTASK_266_COUNT	
(74C)	CHARACTER	12	TMA_DFHTASK_260	
(74C)	CHARACTER	8	TMA_DFHTASK_260_TIME	
(754)	BIT(8)	1	TMA_DFHTASK_260_FLAG	
(755)	UNSIGNED	3	TMA_DFHTASK_260_COUNT	
(758)	CHARACTER	12	TMA_DFHTASK_261	
(758)	CHARACTER	8	TMA_DFHTASK_261_TIME	
(760)	BIT(8)	1	TMA_DFHTASK_261_FLAG	
(761)	UNSIGNED	3	TMA_DFHTASK_261_COUNT	
(764)	CHARACTER	12	TMA_DFHTASK_267	
(764)	CHARACTER	8	TMA_DFHTASK_267_TIME	
(76C)	BIT(8)	1	TMA_DFHTASK_267_FLAG	
(76D)	UNSIGNED	3	TMA_DFHTASK_267_COUNT	
(770)	CHARACTER	12	TMA_DFHTASK_271	
(770)	CHARACTER	8	TMA_DFHTASK_271_TIME	
(778)	BIT(8)	1	TMA_DFHTASK_271_FLAG	
(779)	UNSIGNED	3	TMA_DFHTASK_271_COUNT	
(77C)	CHARACTER	12	TMA_DFHTASK_272	
(77C)	CHARACTER	8	TMA_DFHTASK_272_TIME	
(784)	BIT(8)	1	TMA_DFHTASK_272_FLAG	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(785)	UNSIGNED	3	TMA_DFHTASK_272_COUNT	
(788)	CHARACTER	12	TMA_DFHTASK_249	
(788)	CHARACTER	8	TMA_DFHTASK_249_TIME	
(790)	BIT(8)	1	TMA_DFHTASK_249_FLAG	
(791)	UNSIGNED	3	TMA_DFHTASK_249_COUNT	
(794)	CHARACTER	12	TMA_DFHTASK_250	
(794)	CHARACTER	8	TMA_DFHTASK_250_TIME	
(79C)	BIT(8)	1	TMA_DFHTASK_250_FLAG	
(79D)	UNSIGNED	3	TMA_DFHTASK_250_COUNT	
(7A0)	CHARACTER	12	TMA_DFHTASK_277	
(7A0)	CHARACTER	8	TMA_DFHTASK_277_TIME	
(7A8)	BIT(8)	1	TMA_DFHTASK_277_FLAG	
(7A9)	UNSIGNED	3	TMA_DFHTASK_277_COUNT	
(7AC)	CHARACTER	12	TMA_DFHTASK_282	
(7AC)	CHARACTER	8	TMA_DFHTASK_282_TIME	
(7B4)	BIT(8)	1	TMA_DFHTASK_282_FLAG	
(7B5)	UNSIGNED	3	TMA_DFHTASK_282_COUNT	
(7B8)	CHARACTER	12	TMA_DFHTASK_281	
(7B8)	CHARACTER	8	TMA_DFHTASK_281_TIME	
(7C0)	BIT(8)	1	TMA_DFHTASK_281_FLAG	
(7C1)	UNSIGNED	3	TMA_DFHTASK_281_COUNT	
(7C4)	CHARACTER	12	TMA_DFHTASK_268	
(7C4)	CHARACTER	8	TMA_DFHTASK_268_TIME	
(7CC)	BIT(8)	1	TMA_DFHTASK_268_FLAG	
(7CD)	UNSIGNED	3	TMA_DFHTASK_268_COUNT	
(7D0)	CHARACTER	12	TMA_DFHTASK_247	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7D0)	CHARACTER	8	TMA_DFHTASK_247_TIME	
(7D8)	BIT(8)	1	TMA_DFHTASK_247_FLAG	
(7D9)	UNSIGNED	3	TMA_DFHTASK_247_COUNT	
(7DC)	CHARACTER	12	TMA_DFHCICS_103	
(7DC)	CHARACTER	8	TMA_DFHCICS_103_TIME	
(7E4)	BIT(8)	1	TMA_DFHCICS_103_FLAG	
(7E5)	UNSIGNED	3	TMA_DFHCICS_103_COUNT	
(7E8)	CHARACTER	12	TMA_DFHTERM_009	
(7E8)	CHARACTER	8	TMA_DFHTERM_009_TIME	
(7F0)	BIT(8)	1	TMA_DFHTERM_009_FLAG	
(7F1)	UNSIGNED	3	TMA_DFHTERM_009_COUNT	
(7F4)	CHARACTER	12	TMA_DFHFILE_063	
(7F4)	CHARACTER	8	TMA_DFHFILE_063_TIME	
(7FC)	BIT(8)	1	TMA_DFHFILE_063_FLAG	
(7FD)	UNSIGNED	3	TMA_DFHFILE_063_COUNT	
(800)	CHARACTER	12	TMA_DFHJOUR_010	
(800)	CHARACTER	8	TMA_DFHJOUR_010_TIME	
(808)	BIT(8)	1	TMA_DFHJOUR_010_FLAG	
(809)	UNSIGNED	3	TMA_DFHJOUR_010_COUNT	
(80C)	CHARACTER	12	TMA_DFHTEMP_011	
(80C)	CHARACTER	8	TMA_DFHTEMP_011_TIME	
(814)	BIT(8)	1	TMA_DFHTEMP_011_FLAG	
(815)	UNSIGNED	3	TMA_DFHTEMP_011_COUNT	
(818)	CHARACTER	12	TMA_DFHTERM_100	
(818)	CHARACTER	8	TMA_DFHTERM_100_TIME	
(820)	BIT(8)	1	TMA_DFHTERM_100_FLAG	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(821)	UNSIGNED	3	TMA_DFHTERM_100_COUNT	
(824)	CHARACTER	12	TMA_DFHDEST_101	
(824)	CHARACTER	8	TMA_DFHDEST_101_TIME	
(82C)	BIT(8)	1	TMA_DFHDEST_101_FLAG	
(82D)	UNSIGNED	3	TMA_DFHDEST_101_COUNT	
(830)	CHARACTER	12	TMA_DFHPROG_115	
(830)	CHARACTER	8	TMA_DFHPROG_115_TIME	
(838)	BIT(8)	1	TMA_DFHPROG_115_FLAG	
(839)	UNSIGNED	3	TMA_DFHPROG_115_COUNT	
(83C)	CHARACTER	12	TMA_DFHTASK_125	
(83C)	CHARACTER	8	TMA_DFHTASK_125_TIME	
(844)	BIT(8)	1	TMA_DFHTASK_125_FLAG	
(845)	UNSIGNED	3	TMA_DFHTASK_125_COUNT	
(848)	CHARACTER	12	TMA_DFHTASK_126	
(848)	CHARACTER	8	TMA_DFHTASK_126_TIME	
(850)	BIT(8)	1	TMA_DFHTASK_126_FLAG	
(851)	UNSIGNED	3	TMA_DFHTASK_126_COUNT	
(854)	CHARACTER	12	TMA_DFHTASK_127	
(854)	CHARACTER	8	TMA_DFHTASK_127_TIME	
(85C)	BIT(8)	1	TMA_DFHTASK_127_FLAG	
(85D)	UNSIGNED	3	TMA_DFHTASK_127_COUNT	
(860)	CHARACTER	12	TMA_DFHTASK_129	
(860)	CHARACTER	8	TMA_DFHTASK_129_TIME	
(868)	BIT(8)	1	TMA_DFHTASK_129_FLAG	
(869)	UNSIGNED	3	TMA_DFHTASK_129_COUNT	
(86C)	CHARACTER	12	TMA_DFHTASK_123	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(86C)	CHARACTER	8	TMA_DFHTASK_123_TIME	
(874)	BIT(8)	1	TMA_DFHTASK_123_FLAG	
(875)	UNSIGNED	3	TMA_DFHTASK_123_COUNT	
(878)	CHARACTER	12	TMA_DFHTERM_133	
(878)	CHARACTER	8	TMA_DFHTERM_133_TIME	
(880)	BIT(8)	1	TMA_DFHTERM_133_FLAG	
(881)	UNSIGNED	3	TMA_DFHTERM_133_COUNT	
(884)	CHARACTER	12	TMA_DFHTERM_134	
(884)	CHARACTER	8	TMA_DFHTERM_134_TIME	
(88C)	BIT(8)	1	TMA_DFHTERM_134_FLAG	
(88D)	UNSIGNED	3	TMA_DFHTERM_134_COUNT	
(890)	CHARACTER	12	TMA_DFHFEPI_156	
(890)	CHARACTER	8	TMA_DFHFEPI_156_TIME	
(898)	BIT(8)	1	TMA_DFHFEPI_156_FLAG	
(899)	UNSIGNED	3	TMA_DFHFEPI_156_COUNT	
(89C)	CHARACTER	12	TMA_DFHTASK_170	
(89C)	CHARACTER	8	TMA_DFHTASK_170_TIME	
(8A4)	BIT(8)	1	TMA_DFHTASK_170_FLAG	
(8A5)	UNSIGNED	3	TMA_DFHTASK_170_COUNT	
(8A8)	CHARACTER	12	TMA_DFHTASK_171	
(8A8)	CHARACTER	8	TMA_DFHTASK_171_TIME	
(8B0)	BIT(8)	1	TMA_DFHTASK_171_FLAG	
(8B1)	UNSIGNED	3	TMA_DFHTASK_171_COUNT	
(8B4)	CHARACTER	12	TMA_DFHSYNC_173	
(8B4)	CHARACTER	8	TMA_DFHSYNC_173_TIME	
(8BC)	BIT(8)	1	TMA_DFHSYNC_173_FLAG	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8BD)	UNSIGNED	3	TMA_DFHSYNC_173_COUNT	
(8C0)	CHARACTER	12	TMA_DFHFILE_174	
(8C0)	CHARACTER	8	TMA_DFHFILE_174_TIME	
(8C8)	BIT(8)	1	TMA_DFHFILE_174_FLAG	
(8C9)	UNSIGNED	3	TMA_DFHFILE_174_COUNT	
(8CC)	CHARACTER	12	TMA_DFHFILE_175	
(8CC)	CHARACTER	8	TMA_DFHFILE_175_TIME	
(8D4)	BIT(8)	1	TMA_DFHFILE_175_FLAG	
(8D5)	UNSIGNED	3	TMA_DFHFILE_175_COUNT	
(8D8)	CHARACTER	12	TMA_DFHTASK_128	
(8D8)	CHARACTER	8	TMA_DFHTASK_128_TIME	
(8E0)	BIT(8)	1	TMA_DFHTASK_128_FLAG	
(8E1)	UNSIGNED	3	TMA_DFHTASK_128_COUNT	
(8E4)	CHARACTER	12	TMA_DFHTASK_181	
(8E4)	CHARACTER	8	TMA_DFHTASK_181_TIME	
(8EC)	BIT(8)	1	TMA_DFHTASK_181_FLAG	
(8ED)	UNSIGNED	3	TMA_DFHTASK_181_COUNT	
(8F0)	CHARACTER	12	TMA_DFHTASK_182	
(8F0)	CHARACTER	8	TMA_DFHTASK_182_TIME	
(8F8)	BIT(8)	1	TMA_DFHTASK_182_FLAG	
(8F9)	UNSIGNED	3	TMA_DFHTASK_182_COUNT	
(8FC)	CHARACTER	12	TMA_DFHTASK_183	
(8FC)	CHARACTER	8	TMA_DFHTASK_183_TIME	
(904)	BIT(8)	1	TMA_DFHTASK_183_FLAG	
(905)	UNSIGNED	3	TMA_DFHTASK_183_COUNT	
(908)	CHARACTER	12	TMA_DFHTASK_184	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(908)	CHARACTER	8	TMA_DFHTASK_184_TIME	
(910)	BIT(8)	1	TMA_DFHTASK_184_FLAG	
(911)	UNSIGNED	3	TMA_DFHTASK_184_COUNT	
(914)	CHARACTER	12	TMA_DFHTEMP_178	
(914)	CHARACTER	8	TMA_DFHTEMP_178_TIME	
(91C)	BIT(8)	1	TMA_DFHTEMP_178_FLAG	
(91D)	UNSIGNED	3	TMA_DFHTEMP_178_COUNT	
(920)	CHARACTER	12	TMA_DFHFILE_176	
(920)	CHARACTER	8	TMA_DFHFILE_176_TIME	
(928)	BIT(8)	1	TMA_DFHFILE_176_FLAG	
(929)	UNSIGNED	3	TMA_DFHFILE_176_COUNT	
(92C)	CHARACTER	12	TMA_DFHSYNC_177	
(92C)	CHARACTER	8	TMA_DFHSYNC_177_TIME	
(934)	BIT(8)	1	TMA_DFHSYNC_177_FLAG	
(935)	UNSIGNED	3	TMA_DFHSYNC_177_COUNT	
(938)	CHARACTER	12	TMA_DFHTASK_191	
(938)	CHARACTER	8	TMA_DFHTASK_191_TIME	
(940)	BIT(8)	1	TMA_DFHTASK_191_FLAG	
(941)	UNSIGNED	3	TMA_DFHTASK_191_COUNT	
(944)	CHARACTER	12	TMA_DFHTASK_195	
(944)	CHARACTER	8	TMA_DFHTASK_195_TIME	
(94C)	BIT(8)	1	TMA_DFHTASK_195_FLAG	
(94D)	UNSIGNED	3	TMA_DFHTASK_195_COUNT	
(950)	CHARACTER	12	TMA_DFHSYNC_196	
(950)	CHARACTER	8	TMA_DFHSYNC_196_TIME	
(958)	BIT(8)	1	TMA_DFHSYNC_196_FLAG	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(959)	UNSIGNED	3	TMA_DFHSYNC_196_COUNT	
(95C)	CHARACTER	12	TMA_DFHSOCK_241	
(95C)	CHARACTER	8	TMA_DFHSOCK_241_TIME	
(964)	BIT(8)	1	TMA_DFHSOCK_241_FLAG	
(965)	UNSIGNED	3	TMA_DFHSOCK_241_COUNT	
(968)	CHARACTER	12	TMA_DFHDATA_186	
(968)	CHARACTER	8	TMA_DFHDATA_186_TIME	
(970)	BIT(8)	1	TMA_DFHDATA_186_FLAG	
(971)	UNSIGNED	3	TMA_DFHDATA_186_COUNT	
(974)	CHARACTER	12	TMA_DFHDATA_187	
(974)	CHARACTER	8	TMA_DFHDATA_187_TIME	
(97C)	BIT(8)	1	TMA_DFHDATA_187_FLAG	
(97D)	UNSIGNED	3	TMA_DFHDATA_187_COUNT	
(980)	CHARACTER	12	TMA_DFHDATA_188	
(980)	CHARACTER	8	TMA_DFHDATA_188_TIME	
(988)	BIT(8)	1	TMA_DFHDATA_188_FLAG	
(989)	UNSIGNED	3	TMA_DFHDATA_188_COUNT	
(98C)	CHARACTER	12	TMA_DFHDATA_189	
(98C)	CHARACTER	8	TMA_DFHDATA_189_TIME	
(994)	BIT(8)	1	TMA_DFHDATA_189_FLAG	
(995)	UNSIGNED	3	TMA_DFHDATA_189_COUNT	
(998)	CHARACTER	12	TMA_DFHDATA_396	
(998)	CHARACTER	8	TMA_DFHDATA_396_TIME	
(9A0)	BIT(8)	1	TMA_DFHDATA_396_FLAG	
(9A1)	UNSIGNED	3	TMA_DFHDATA_396_COUNT	
(9A4)	CHARACTER	12	TMA_DFHTASK_253	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9A4)	CHARACTER	8	TMA_DFHTASK_253_TIME	
(9AC)	BIT(8)	1	TMA_DFHTASK_253_FLAG	
(9AD)	UNSIGNED	3	TMA_DFHTASK_253_COUNT	
(9B0)	CHARACTER	12	TMA_DFHTASK_254	
(9B0)	CHARACTER	8	TMA_DFHTASK_254_TIME	
(9B8)	BIT(8)	1	TMA_DFHTASK_254_FLAG	
(9B9)	UNSIGNED	3	TMA_DFHTASK_254_COUNT	
(9BC)	CHARACTER	12	TMA_DFHSOCK_299	
(9BC)	CHARACTER	8	TMA_DFHSOCK_299_TIME	
(9C4)	BIT(8)	1	TMA_DFHSOCK_299_FLAG	
(9C5)	UNSIGNED	3	TMA_DFHSOCK_299_COUNT	
(9C8)	CHARACTER	12	TMA_DFHTASK_192	
(9C8)	CHARACTER	8	TMA_DFHTASK_192_TIME	
(9D0)	BIT(8)	1	TMA_DFHTASK_192_FLAG	
(9D1)	UNSIGNED	3	TMA_DFHTASK_192_COUNT	
(9D4)	CHARACTER	12	TMA_DFHTASK_193	
(9D4)	CHARACTER	8	TMA_DFHTASK_193_TIME	
(9DC)	BIT(8)	1	TMA_DFHTASK_193_FLAG	
(9DD)	UNSIGNED	3	TMA_DFHTASK_193_COUNT	
(9E0)	CHARACTER	12	TMA_DFHSYNC_199	
(9E0)	CHARACTER	8	TMA_DFHSYNC_199_TIME	
(9E8)	BIT(8)	1	TMA_DFHSYNC_199_FLAG	
(9E9)	UNSIGNED	3	TMA_DFHSYNC_199_COUNT	
(9EC)	CHARACTER	12	TMA_DFHTASK_273	
(9EC)	CHARACTER	8	TMA_DFHTASK_273_TIME	
(9F4)	BIT(8)	1	TMA_DFHTASK_273_FLAG	

Table 341. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9F5)	UNSIGNED	3	TMA_DFHTASK_273_COUNT	
(9F8)	CHARACTER	12	TMA_DFHTASK_275	
(9F8)	CHARACTER	8	TMA_DFHTASK_275_TIME	
(A00)	BIT(8)	1	TMA_DFHTASK_275_FLAG	
(A01)	UNSIGNED	3	TMA_DFHTASK_275_COUNT	
(A04)	CHARACTER	12	TMA_DFHTASK_285	
(A04)	CHARACTER	8	TMA_DFHTASK_285_TIME	
(A0C)	BIT(8)	1	TMA_DFHTASK_285_FLAG	
(A0D)	UNSIGNED	3	TMA_DFHTASK_285_COUNT	
(A10)	CHARACTER	12	TMA_DFHTASK_279	
(A10)	CHARACTER	8	TMA_DFHTASK_279_TIME	
(A18)	BIT(8)	1	TMA_DFHTASK_279_FLAG	
(A19)	UNSIGNED	3	TMA_DFHTASK_279_COUNT	
(A1C)	CHARACTER	12	TMA_DFHSOCK_300	
(A1C)	CHARACTER	8	TMA_DFHSOCK_300_TIME	
(A24)	BIT(8)	1	TMA_DFHSOCK_300_FLAG	
(A25)	UNSIGNED	3	TMA_DFHSOCK_300_COUNT	
(A28)	CHARACTER	0	TMA_USER_AREA	

`The MN Domain Transaction Resource Monitoring Area (TRMA)`

Table 342.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	232	RESOURCE_MONITORING_AREA	
(0)	CHARACTER	16	TRMA_PREFIX	
(0)	UNSIGNED	2	TRMA_LENGTH	
(2)	CHARACTER	1	TRMA_ARROW	
(3)	CHARACTER	3	TRMA_DFH	
(6)	CHARACTER	2	TRMA_DOMAIN	
(8)	CHARACTER	8	TRMA_BLOCK_ID	
`Date and time of TMA creation.`				

Table 342. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	CHARACTER	8	TRMA_CREATION_STCK	
Reserved fields				
(18)	CHARACTER	8	TRMA_RESERVED1	Reserved
(20)	CHARACTER	8	TRMA_RESERVED2	Reserved
Pointer to the Monitoring anchor and owning TMA				
(28)	ADDRESS	4	TRMA_MNA_PTR	-> MNA
(2C)	ADDRESS	4	TRMA_TMA_PTR	-> TMA
(30)	CHARACTER	4	TRMA_RESERVED3	Reserved
(34)	CHARACTER	4	TRMA_TRANSACTION_ID	
				Tranid
(38)	CHARACTER	4	TRMA_TERMINAL_ID	Termid
(3C)	CHARACTER	8	TRMA_USERID	Userid
(44)	CHARACTER	4	TRMA_START_TYPE	Type
(48)	CHARACTER	8	TRMA_TRANSACTION_START	
				Start
(50)	CHARACTER	8	TRMA_TRANSACTION_STOP	
				Stop
(58)	CHARACTER	4	TRMA_TRANSACTION_NO	
				Trannum
(5C)	CHARACTER	8	TRMA_LUNAME	Luname
(64)	CHARACTER	8	TRMA_PROGRAM_NAME	Pgmname
(6C)	CHARACTER	20	TRMA_NETUOW_PREFIX	Netuowpx
(80)	CHARACTER	8	TRMA_NETUOW_SUFFIX	Netuowsx
(88)	CHARACTER	4	TRMA_REMOTE_SYSID	Rsysid
(8C)	BIT(64)	8	TRMA_TRANSACTION_FLAGS	
				Tranflag
(94)	CHARACTER	4	TRMA_FACILITY_NAME	Fctyname
(98)	CHARACTER	4	TRMA_RECORD_TYPE	Rtype
(9C)	CHARACTER	4	TRMA_TERMINAL_INFORMATION	
				Terminfo
(A0)	CHARACTER	4	TRMA_TERM_CONNECTION_NAME	

Table 342. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Termcnnm
(A4)	CHARACTER	4	TRMA_RESOURCE_ FLAGS	
(A4)	BIT(8)	1	*	
	1...		TRMA_FILE_ LIMIT_EXCEEDED	
	.1..		TRMA_DFHTEMP_ LIMIT_EXCEEDED	
				04C
	..11 1111		*	04A
(A5)	BIT(24)	3	*	Reserved
(A8)	CHARACTER	8	TRMA_IPCONN_NAME	Ispnnnm
(B0)	CHARACTER	8	*	Reserved
(B8)	FULLWORD	4	TRMA_DFHFILE_ LIMIT	
(BC)	FULLWORD	4	TRMA_DFHFILE_ DEPTH	
(C0)	FULLWORD	4	TRMA_DFHTEMP_ LIMIT	
(C4)	FULLWORD	4	TRMA_DFHTEMP_ DEPTH	
(C8)	FULLWORD	4	*	Reserved @BA63143A
(CC)	FULLWORD	4	*	Reserved
(D0)	CHARACTER	4	TRMA_UPDATE_ FLAGS	
(D0)	BIT(8)	1	*	
	1...		TRMA_UPDATED_ FLAG	
	.111 1111		*	
(D1)	BIT(24)	3	*	Reserved
(D4)	CHARACTER	4	*	Reserved
(D8)	ADDRESS	4	TRMA_DFHFILE_ AREA_PTR	
				-> dfhfile data area
(DC)	ADDRESS	4	TRMA_DFHTEMP_ AREA_PTR	
				-> dfhtemp data area
(E0)	CHARACTER	4	*	Reserved
(E4)	CHARACTER	4	*	Reserved
(E8)	CHARACTER	0	TRMA_RESOURCE_ DATA_AREA	

Table 343.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TRMA_DFHFILE_ MONITORING_AREA	
(0)	CHARACTER	88	TRMA_FILE_ENTRY (*)	
(0)	CHARACTER	8	TRMA_DFHFILE_ NAME	Filename
(8)	CHARACTER	8	TRMA_DFHFILE_ 036	Fcgetct
(10)	CHARACTER	8	TRMA_DFHFILE_ 037	Fcputct
(18)	CHARACTER	8	TRMA_DFHFILE_ 038	Fcbrwct
(20)	CHARACTER	8	TRMA_DFHFILE_ 039	Fcaddct
(28)	CHARACTER	8	TRMA_DFHFILE_ 040	Fcdelct
(30)	CHARACTER	8	TRMA_DFHFILE_ 093	Fctotct
(38)	UNSIGNED	4	TRMA_DFHFILE_ 070	Fcamct
(3C)	UNSIGNED	4	*	Reserved
(40)	CHARACTER	8	TRMA_DFHFILE_ 063	Fciowtt
(48)	CHARACTER	8	TRMA_DFHFILE_ 174	Rlswait
(50)	CHARACTER	8	TRMA_DFHFILE_ 176	Cfdtwait
(58)	CHARACTER	0	*	

Table 344.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TRMA_DFHTEMP_ MONITORING_AREA	
(0)	CHARACTER	80	TRMA_TSQUEUE_ ENTRY (*)	
(0)	CHARACTER	16	TRMA_DFHTEMPTsqname NAME	
(10)	CHARACTER	8	TRMA_DFHTEMPTsgetct 044	
(18)	CHARACTER	8	TRMA_DFHTEMPTsputact 046	
(20)	CHARACTER	8	TRMA_DFHTEMPTsputmct 047	
(28)	CHARACTER	8	TRMA_DFHTEMPTstotct 092	
(30)	UNSIGNED	4	*	Reserved

Table 344. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	UNSIGNED	4	TRMA_DFHTEMP_044_VALUE	
				Tsget item len
(38)	UNSIGNED	4	TRMA_DFHTEMP_046_VALUE	
				Tsput aux item len
(3C)	UNSIGNED	4	TRMA_DFHTEMP_047_VALUE	
				Tsput main item len
(40)	CHARACTER	8	TRMA_DFHTEMP_tsiowtt011	
(48)	CHARACTER	8	TRMA_DFHTEMP_tsshwait178	
(50)	CHARACTER	0	*	

```
The MN Domain Transaction Monitoring Area (TMA) RMI Area
```

Table 345.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	TMA_DFHRMI_AREA	
(0)	CHARACTER	12	TMA_DFHRMI_TOTAL	Total
(C)	CHARACTER	12	TMA_DFHRMI_OTHER	Other
(18)	CHARACTER	12	TMA_DFHRMI_DB2	DB2
(24)	CHARACTER	12	TMA_DFHRMI_BDcamCTL	BDAM
(30)	CHARACTER	12	TMA_DFHRMI_EXEC_DLI	
				EXEC DLI
(3C)	CHARACTER	12	TMA_DFHRMI_MQ	MQSeries
(48)	CHARACTER	12	TMA_DFHRMI_CFSM	CFSM
(54)	CHARACTER	12	TMA_DFHRMI_TCP	TCP/IP
(60)	CHARACTER	0	*	

```
The MN Domain Global Storage Area -- M N A --
                The domain status indication
                The storage subpool tokens
                The domain state lock tokens
                The TMA chain anchor
                The Monitoring Control Table names
                The Monitoring Control Table entry point
                                and load address
                The Exception Record address
                The Performance Buffer address
                The Resource Buffer address
                The Data Compression Work Area and Buffer
                The SMF Buffer address
                The Connector Sequences
                The Dictionary
                The MVS Workload Manager Token and PB array
```

```
The Monitoring Status flags
The Monitoring Options (MCT)
The Monitoring Catalogue record
The Monitoring MAFPB address
The Monitoring Statistics
```

Table 346.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	544	MNA	
Standard fields for restructured control blocks				
(0)	UNSIGNED	2	MNA_LENGTH	
(2)	CHARACTER	1	MNA_ARROW	
(3)	CHARACTER	3	MNA_DFH	
(6)	CHARACTER	2	MNA_DOMAIN	
(8)	CHARACTER	8	MNA_BLOCK_ID	
Current Monitoring Domain Status-initializing, initialized quiescing, quiesced, terminating or terminated.				
(10)	BIT(16)	2	MNA_DOMAIN_ STATUS	
(12)	CHARACTER	2	*	
Monitoring Status Flags READ THIS Do not change the offset within the MNA of the following MNA_STATUS_FLAGS field. The inline macro DFHMNTST has a manually coded version of the MNA for testing the status of Monitoring from outside of the MN Domain.				
(14)	CHARACTER	4	MNA_STATUS_FLAGS	
(14)	BIT(8)	1	*	
	1...		MNA_CC_ ERROR_FOUND	
	.1..		MNA_CC_ UPDATE_REQUIRED	
	..1.		MNA_PA_ ERROR_FOUND	
	...1		MNA_DICTIONARY_ REQUIRED	
	.... 1...		MNA_MCT_ INITIALISED	
	.... .1..		MNA_MCT_LOADED	
	.... ..1.		MNA_MCT_DELETE	
	1		MNA_WLM_STATUS	
(15)	BIT(8)	1	*	
	1...		MNA_USER_ EXIT_STATUS	
	.11.		*	
	...1		MNA_MCT_ FIELDS_EXCLUDED	
	.... 11..		*	

Table 346. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		MNA_EWLM_ SUPPORT	
	1		MNA_EWLM_ MONENV_SERVICES	
(16)	BIT(8)	1	*	
	1...		MNA_EXCEPTION_ STATUS	
	.1..		MNA_PERFORMANCE_ STATUS	
	..1.		*	Reserved
	...1		MNA_MONITORING_ STATUS	
	.... 1...		MNA_SYNCPOINT_ STATUS	
	.... .1..		MNA_CONVERSE_ STATUS	
	.... ..1.		MNA_TIME	
	1		MNA_RESOURCE_ STATUS	
(17)	UNSIGNED	1	MNA_CPU_TIMING	
Storage subpool tokens				
(18)	CHARACTER	8	MNA_CONTROL_POOL	Control subpool token
(20)	CHARACTER	8	MNA_TMA_ CELL_POOL	TMA subpool token
(28)	CHARACTER	8	MNA_TRMA_ CELL_POOL	TRMA subpool token
(30)	CHARACTER	8	MNA_MNADC_ CELL_POOL	
				MNADC SUBPOOL TOK
(38)	CHARACTER	8	*	Reserved
Monitoring Domain state lock token.				
(40)	ADDRESS	4	MNA_STATE_LOCK	
The number of TMAs currently allocated.				
(44)	FULLWORD	4	MNA_CURRENT_TMAS	Current No of TMAs
Length of the standard TMA and the length of any TMA User Area (as defined by the MCT) for this execution of CICS.				
(48)	FULLWORD	4	MNA_TMA_LENGTH	
(4C)	FULLWORD	4	MNA_TMA_ USER_AREA_LENGTH	
(50)	CHARACTER	8	*	Reserved
(58)	FULLWORD	4	MNA_CURRENT_ TRMAS	Current No of TRMAs *

Table 346. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5C)	FULLWORD	4	MNA_TRMA_LENGTH	TRMA length
(60)	CHARACTER	8	*	Reserved
Monitoring Control Table Name and Suffix				
(68)	CHARACTER	8	MNA_MCT_NAME	
(68)	CHARACTER	6	*	Currently loaded MCT
(6E)	CHARACTER	2	MNA_MCT_SUFFIX	Current MCT suffix
Entry Point of current MCT				
(70)	ADDRESS	4	MNA_MCT_ADDRESS	
(74)	ADDRESS	4	MNA_MCT_ LOAD_ADDRESS	
				Load address of current MCT
length of currently loaded MCT. This field is zero if default MCT is being used.				
(78)	FULLWORD	4	MNA_MCT_LENGTH	
Monitoring Control Table Name and Suffix used when loading the MCT from the DFHRPL library.				
(7C)	CHARACTER	8	MNA_LOAD_ MCT_NAME	
(7C)	CHARACTER	6	*	
(82)	CHARACTER	2	MNA_LOAD_ MCT_SUFFIX	
(84)	CHARACTER	4	*	Reserved
(88)	ADDRESS	4	MNA_APPLNAME_ FIELD_OFFSET	
				Applname field ptr
(8C)	CHARACTER	8	*	Reserved
The Monitoring Options from the MCT				
(94)	CHARACTER	4	MNA_MCT_OPTIONS	
(94)	BIT(8)	1	*	
	1...		MNA_MCT_ APPLNAME	
	.1..		MNA_MCT_RMI	
	..1.		MNA_MCT_ COMPRESS	
	...1 1111		*	
(95)	BIT(8)	1	*	
(96)	BIT(8)	1	*	
(97)	BIT(8)	1	*	

Table 346. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(98)	UNSIGNED	2	MNA_MCT_ FILE_LIMIT	
(9A)	UNSIGNED	2	MNA_MCT_ TSQUEUE_LIMIT	
(9C)	UNSIGNED	4	*	
(A0)	UNSIGNED	4	*	
Exception Record Address				
(A4)	ADDRESS	4	MNA_EXCEPTION_ RECORD	
Performance Buffer (PB) Management				
(A8)	FULLWORD	4	MNA_PB_SIZE	PB size
(AC)	ADDRESS	4	MNA_PERFORMANCE_ BUFFER	
				PB address
(B0)	FULLWORD	4	MNA_PB_ LENGTH_LEFT	Amount free space left
(B4)	ADDRESS	4	MNA_PB_NEXT_FREE	Next available space
(B8)	FULLWORD	4	MNA_PD_RECORDS	No. Prfmnce Data records
(BC)	FULLWORD	4	MNA_PD_LENGTH	Prfmnce Data Record len
(C0)	ADDRESS	4	MNA_PERFORMANCE_ RECORD	
				Performance Data Record *
(C4)	CHARACTER	8	*	Reserved
Resource Buffer (RB) Management				
(CC)	FULLWORD	4	MNA_RB_SIZE	RB size
(D0)	ADDRESS	4	MNA_RESOURCE_ BUFFER	
				RB address
(D4)	FULLWORD	4	MNA_RB_ LENGTH_LEFT	Amount free space left *
(D8)	ADDRESS	4	MNA_RB_NEXT_FREE	Next available space *
(DC)	FULLWORD	4	MNA_RD_RECORDS	No. Resource Data rec'ds *
(E0)	FULLWORD	4	MNA_RD_LENGTH	Resource Data Record len *
(E4)	CHARACTER	8	*	Reserved
Details of Monitoring Class Record(MCR) being written to SMF				
(EC)	ADDRESS	4	MNA_RECORD_ ADDRESS	MCR address
(F0)	FULLWORD	4	MNA_DATA_LENGTH	MCR length

Table 346. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F4)	UNSIGNED	2	MNA_DATA_CLASS	SMCR class
(F6)	CHARACTER	2	*	
Response Codes (RC)				
(F8)	CHARACTER	3	*	
(FB)	UNSIGNED	1	MNA_LAST_SMF_RC	Last RC from SMF write
Data Compression Work Area, Buffer Address, etc.				
(FC)	UNSIGNED	4	MNA_CSRCESRV_QUERY_RC	
(100)	ADDRESS	4	MNA_COMPRESSION_WORK_AREA_PTR	
(104)	UNSIGNED	4	MNA_COMPRESSION_WORK_AREA_LEN	
(108)	ADDRESS	4	MNA_COMPRESSION_BUFFER_PTR	
(10C)	UNSIGNED	4	MNA_COMPRESSION_BUFFER_LENGTH	
(110)	UNSIGNED	4	*	
(114)	CHARACTER	4	MNA_COMPRESSION_FLAGS	
(114)	BIT(8)	1	*	
	1...		MNA_COMPRESSION_AVAILABLE	
	.111 1111		*	
(115)	CHARACTER	3	*	
(118)	UNSIGNED	4	*	
(11C)	UNSIGNED	4	MNA_AVG_COMPRESSED_RECLEN	
(120)	UNSIGNED	4	MNA_AVG_UNCOMPRESSED_RECLEN	
SMF Buffer Address - buffer includes storage for SMF header and product section.				
(124)	ADDRESS	4	MNA_SMF_BUFFER	
Dictionary details				
(128)	FULLWORD	4	MNA_DICTIONARY_ENTRIES	
				No of entries
(12C)	FULLWORD	4	MNA_DICTIONARY_LENGTH	
				Length of Dictionary
(130)	ADDRESS	4	MNA_DICTIONARY_PTR	Dictionary address

Table 346. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(134)	FULLWORD	4	MNA_DICTIONARY_ USER_ENTRIES	
				Dictionary user entries
Number and address of connectors in the output performance class record.				
(138)	ADDRESS	4	MNA_OUT_ CONNECTORS_PTR	
(13C)	FULLWORD	4	MNA_OUT_ CONNECTORS	
Length of an individual connector, and length of storage required to hold a complete list of connectors.				
(140)	FULLWORD	4	MNA_CONNECTOR_ LENGTH	
(144)	FULLWORD	4	MNA_CONNECTORS_ LENGTH	
MVS Workload Manager				
(148)	BIT(32)	4	MNA_WLM_ CONNECT_TOKEN	
(14C)	ADDRESS	4	MNA_WLM_ PB_ARRAY_PTR	
(150)	UNSIGNED	4	MNA_WLM_ PB_ARRAY_SIZE	
(154)	UNSIGNED	4	MNA_WLM_ FREE_PERFORMANCE_ BLK	
(158)	UNSIGNED	4	MNA_WLM_ MAX_PERFORMANCE_ BLKS	
(15C)	UNSIGNED	4	MNA_WLM_ CURRENT_ PERFORMANCE_BLKS	
(160)	UNSIGNED	4	MNA_WLM_ MAX_SYS_ PERFORMANCE_BLKS	
(164)	UNSIGNED	4	MNA_WLM_ CUR_SYS_ PERFORMANCE_BLKS	
(168)	UNSIGNED	4	MNA_WLM_ NOTIFIED_ MXT_VALUE	
Frequency time and token for Timer calls				
(16C)	CHARACTER	4	MNA_FREQUENCY	
(170)	CHARACTER	8	MNA_FREQUENCY_ TOKEN	
Frequency in progress indicator to prevent simultaneous frequency period intervals occurring.				

Table 346. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(178)	BIT(32)	4	MNA_FREQUENCY_IN_PROGRESS	
Monitoring Catalogue Record				
(17C)	CHARACTER	64	MNA_CR	
Monitoring Authorised Facilities Parameter Block				
(1BC)	ADDRESS	4	MNA_MAFPB_PTR	
Global Statistics : Exception Records.				
(1C0)	FULLWORD	4	MNA_EXCEPTION_RECORDS	
				Num recs written
(1C4)	FULLWORD	4	MNA_EXCEPTION_RECORDS_SUPP	
				Num recs suppressed
Performance Records.				
(1C8)	FULLWORD	4	MNA_PERFORMANCE_RECORDS	
				Num recs written
(1CC)	FULLWORD	4	MNA_PERFORMANCE_RECORDS_SUPP	
				Num recs suppressed
Resource Records.				
(1D0)	FULLWORD	4	MNA_RESOURCE_RECORDS	
				Num recs written *
(1D4)	FULLWORD	4	MNA_RESOURCE_RECORDS_SUPP	
				Num recs suppressed *
(1D8)	CHARACTER	8	*	Reserved
SMF Records.				
(1E0)	FULLWORD	4	MNA_SMF_RECORDS	Num recs written
(1E4)	FULLWORD	4	MNA_SMF_ERRORS	Num Bad responses from SMF *
(1E8)	FULLWORD	4	MNA_SMF_RECORDS_NC	Num recs - not compressed *
(1EC)	FULLWORD	4	MNA_SMF_RECORDS_CM	Num recs - compressed
(1F0)	CHARACTER	4	*	Reserved

Table 346. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Time (STCK) that global statistics were last reset				
(1F4)	CHARACTER	8	MNA_LAST_ RESET_TIME	
(1FC)	CHARACTER	8	MNA_NETWORKID	Local Networkid
(204)	CHARACTER	8	MNA_GENERIC_ APPLID	Generic applid
(20C)	CHARACTER	4	*	Reserved
Association Data Control Blocks MNADC CBS are anchored in XM AD Token				
(210)	CHARACTER	4	*	reserved
(214)	UNSIGNED	4	MNA_MNADC_COUNT	Number of MNADCs
(218)	CHARACTER	8	*	Reserved
(220)	CHARACTER	0	*	

```
The MN Domain Catalog Record -- C A T A L O G --
  The Monitoring Domain Catalog Record contains:
              The Monitoring Control Table suffix
              The Exception Class status
              The Performance Class status
              The Resource Class status
              The Monitoring Class status
              The Syncpoint monitoring status
              The Converse monitoring status
              The Mon clocks in GMT or LOCAL indicator
              The Frequency monitoring time
```

Table 347.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	DFHMNCR	
Monitoring Catalog Record.				
(0)	CHARACTER	2	MNCR_MCT_SUFFIX	MCT Suffix
Bit indicators of class settings and Monitoring global status.				
(2)	CHARACTER	1	MNCR_FLAGS	
Exception class ON/OFF Indicator.				
	1...		MNCR_EXCEPTION_ STATUS	
Performance class ON/OFF Indicator.				
	.1..		MNCR_PERFORMANCE_ STATUS	
SYSEVENT class ON/OFF Indicator (Obsolete).				
	..1.		*	
Monitoring global status ON/OFF indicator.				
	...1		MNCR_MONITORING_ STATUS	
Syncpoint monitoring YES/NO indicator.				

Table 347. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		MNCR_SYNCPOINT_ STATUS	
Converse monitoring YES/NO indicator.				
	.... .1..		MNCR_CONVERSE_ STATUS	
Time in GMT/LOCAL indicator				
	.... ..1.		MNCR_TIME	
Resource class ON/OFF Indicator.				
	1		MNCR_RESOURCE_ STATUS	
Frequency monitoring time (packed)				
(3)	CHARACTER	4	MNCR_FREQUENCY	
Subsystem id for Sysevent class (Obsolete)				
(7)	CHARACTER	8	*	
(F)	CHARACTER	8	*	
(17)	CHARACTER	41	*	

Constants

Table 348.

Len	Type	value	Name	Description
TMA associated constants TMA block id strings				
8	CHARACTER	TMA	TMA_ID_STRING	
TRMA associated constants TRMA block id strings				
8	CHARACTER	TRMA	TRMA_ID_STRING	
MNA associated constants Eye catcher constants				
8	CHARACTER	ANCHOR	MNA_ID_STRING	
2	CHARACTER	MN	EYECATCHER_DOMID	
3	CHARACTER	DFH	EYECATCHER_DFH	
1	CHARACTER	>	EYECATCHER_ARROW	
Subsystem name for SMF records				
4	CHARACTER	CICS	MNA_SUBSYSTEM_NAME	
Storage Subpool ID strings				
8	CHARACTER	MN_CNTRL	CONTROL_POOL_NAME	
8	CHARACTER	MN_TMAS	TMA_CELL_POOL*_NAME	
8	CHARACTER	MN_TRMAS	TRMA_CELL_ POOL_NAME	*
8	CHARACTER	MN_ADCS	MNADC_CELL_ POOL_NAME	*
Monitoring Domain Statuses				

Table 348. (continued)

Len	Type	value	Name	Description
2	DECIMAL	1023	MONITORING_ INITIALISING	
2	DECIMAL	1024	MONITORING_ INITIALISED	
2	DECIMAL	2047	MONITORING_QUIESCING	
2	DECIMAL	2048	MONITORING_QUIESCED	
2	DECIMAL	4095	MONITORING_ TERMINATING	
2	DECIMAL	4096	MONITORING_ TERMINATED	
Monitoring Domain lock data				
8	CHARACTER	MN_GBLOK	STATE_LOCK_NAME	
Monitoring Control Table Name				
8	CHARACTER	DFHMCT	MNA_DFHMCT	
Monitoring Domain Exit Point Name				
8	CHARACTER	XMNOUT	MNA_EXIT_POINT	
Monitoring Record Classes				
2	DECIMAL	1	MNA_DICTIONARY_CLASS	
2	DECIMAL	3	MNA_PERFORMANCE_ CLASS	
2	DECIMAL	4	MNA_EXCEPTION*_CLASS	
2	DECIMAL	5	MNA_RESOURCE*CLASS	
Performance Record Types				
4	CHARACTER	C	MNA_RECORD_ TYPE_CONVERSE	
4	CHARACTER	D	MNA_RECORD_ TYPE_DELIVER	
4	CHARACTER	F	MNA_RECORD_ TYPE_FREQUENCY	
				*
4	CHARACTER	S	MNA_RECORD_ TYPE_SYNCPOINT	
				*
4	CHARACTER	T	MNA_RECORD_ TYPE_TERMINATE	
				*
CPU Timing constants				
1	DECIMAL	1	MNA_CPU_START_ REQUIRED	
1	DECIMAL	2	MNA_CPU_STARTED	
1	DECIMAL	3	MNA_CPU_STOP_ REQUIRED	
1	DECIMAL	4	MNA_CPU_STOPPED	

Table 348. (continued)

Len	Type	value	Name	Description
Oddball constants				
0	BIT	1	MNA_ON	
0	BIT	0	MNA_OFF	
0	BIT	1	MNA_YES	
0	BIT	0	MNA_NO	
0	BIT	1	MNA_EXCEPTION_ON	
0	BIT	0	MNA_EXCEPTION_OFF	
0	BIT	1	MNA_PERFORMANCE_ON	
0	BIT	0	MNA_PERFORMANCE_ OFF	
0	BIT	1	MNA_RESOURCE_ON	
0	BIT	0	MNA_RESOURCE*OFF	
0	BIT	1	MNA_MONITORING_ON	
0	BIT	0	MNA_MONITORING_OFF	
0	BIT	1	MNA_SYNCPOINT_YES	
0	BIT	0	MNA_SYNCPOINT_NO	
0	BIT	1	MNA_CONVERSE*YES	
0	BIT	0	MNA_CONVERSE*NO	
0	BIT	1	MNA_TIME_LOCAL	
0	BIT	0	MNA_TIME_GMT*	
4	HEX	0000000F	MNA_FREQUENCY_OFF	
declare frequency in progress and not in progress constants				
4	HEX	00000001	MNA_FIP_YES	
4	HEX	00000000	MNA_FIP_NO	
0	BIT	1	MNA_WLM_ENABLED	
0	BIT	0	MNA_WLM_DISABLED	
0	BIT	1	MNA_EWLM_INSTALLED	
0	BIT	0	MNA_EWLM_ NOT_INSTALLED	
0	BIT	1	MNA_EWLM_AVAILABLE	
0	BIT	0	MNA_EWLM_ NOT_AVAILABLE	
DUMP CODES				
8	CHARACTER	MN0001	MN_DUMP_ABEND_ PROGRAM_CHECK	
8	CHARACTER	MN0002	MN_DUMP_SEVERE_ ERROR	
8	CHARACTER	MN0003	MN_DUMP_INSUFFICIENT_ STORAGE	
8	CHARACTER	MN0004	MN_DUMP_POSSIBLE_ LOOP	

Table 348. (continued)

Len	Type	value	Name	Description
8	CHARACTER	MN0005	MN_DUMP_STORE_ CLOCK_ERROR	
Message Numbers.				
4	DECIMAL	1	MNME_ABEND_ PROGRAM_CHECK	
4	DECIMAL	2	MNME_SEVERE_ERROR	
4	DECIMAL	3	MNME_INSUFFICIENT_ STORAGE	
4	DECIMAL	4	MNME_POSSIBLE_LOOP	
4	DECIMAL	5	MNME_STORE_ CLOCK_ERROR	
4	DECIMAL	101	MNME_SMF_ERROR	
4	DECIMAL	103	MNME_MCT_NOT_FOUND	
4	DECIMAL	104	MNME_MCT_ NOT_FOUND_IN_LIBRARY	
4	DECIMAL	105	MNME_USING_ DEFAULT_MCT	
4	DECIMAL	106	MNME_CATALOGUE_ READ_ERROR	
4	DECIMAL	107	MNME_CATALOGUE_ UPDATE_ERROR	
4	DECIMAL	108	MNME_USING_MCT	
4	DECIMAL	109	MNME_MONITORING_ ACTIVE	
4	DECIMAL	110	MNME_MONITORING_ INACTIVE	
4	DECIMAL	112	MNME_COMPRESSION_ STATUS_CHANGE	

MNC Transaction current monitoring data

```
CONTROL BLOCK NAME = DFHMNCDS
DESCRIPTIVE NAME  = CICS Monitoring (MN) Domain Statistics

Restricted Materials of IBM

FUNCTION =
       This data are contains current statistics provided by the
       Monitoring Domain.
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 349.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHMNCDS	,
(0)	FULLWORD	4	(0)	Fullword allignment
(0)	HALFWORD	2	MNC_LENGTH	Length of data
(2)	ADDRESS	2	MNC_ID	Monitoring domain id
(2)	SIGNED	0	MNC_ID_MASK	"78" Monitoring domain id mask
(4)	CHARACTER	1	MNC_DSECT_ VERSION	DSECT version number
(4)	BITSTRING	0	MNC_VERSION	"X'01'" DSECT version mask
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	MNC_CURRENT_DATA (0)	
(8)	BITSTRING	4	MNC_DFHSTOR_TASK	Task Storage - UDSA
(C)	BITSTRING	4	MNC_DFHSTOR_TASK	Task Storage - EUDSA
(10)	BITSTRING	4	MNC_DFHSTOR_TASK	Task Storage - CDSA
(14)	BITSTRING	4	MNC_DFHSTOR_TASK	Task Storage - ECDSA
(18)	BITSTRING	4	MNC_DFHSTOR_PROG	Program Storage - Total
(1C)	BITSTRING	4	MNC_DFHSTOR_PROG	Program Storage - Above
(20)	BITSTRING	4	MNC_DFHSTOR_PROG	Program Storage - Below
(24)	BITSTRING	4	MNC_DFHSTOR_PROG	Program Storage - ECDSA
(28)	BITSTRING	4	MNC_DFHSTOR_PROG	Program Storage - CDSA
(2C)	BITSTRING	4	MNC_DFHSTOR_PROG	Program Storage - ERDSA
(30)	BITSTRING	4	MNC_DFHSTOR_PROG	Program Storage - RDSA
(34)	BITSTRING	4	MNC_DFHSTOR_PROG	Program Storage - ESDSA
(38)	BITSTRING	4	MNC_DFHSTOR_PROG	Program Storage - SDSA
(3C)	BITSTRING	4	MNC_DFHSOCK_NPS	Non-persistent Sockets

Table 349. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	BITSTRING	4	MNC_DFHSOCK_123	Persistent Sockets
(44)	BITSTRING	4	MNC_DFHTASK_251	CICS Dispatcher TCBs
(48)	BITSTRING	4	MNC_DFHCHNL_329	Container Storage
(4C)	BITSTRING	4		Reserved
(50)	BITSTRING	4		Reserved
(54)	BITSTRING	8		Reserved
(5C)	BITSTRING	4	MNC_APPLNAME_TRAN	Applname - Transaction Name
(60)	BITSTRING	8	MNC_APPLNAME_PROG	Applname - Program Name
(68)	BITSTRING	8		Reserved
(70)	BITSTRING	8		Reserved
(78)	BITSTRING	12	MNC_RMI_TOTAL_TIME	Total RMI Elapsed time
(84)	BITSTRING	12	MNC_RMI_OTHER_TIME	Other RMI Elapsed time
(90)	BITSTRING	12	MNC_RMI_DB2_TIME	DB2 Elapsed time
(9C)	BITSTRING	12	MNC_RMI_DBCTL_TIME	DBCTL Elapsed time
(A8)	BITSTRING	12	MNC_RMI_EXECDLI_TIME	
				EXEC DLI Elapsed time
(B4)	BITSTRING	12	MNC_RMI_MQSERIES_TIME	
				MQSeries Elapsed time
(C0)	BITSTRING	12	MNC_RMI_CPSM_TIME	CICSPlex/SM Elapsed time
(CC)	BITSTRING	12	MNC_RMI_TCPIP_TIME	TCP/IP Sockets time
(D8)	BITSTRING	12		RMI - Reserved
(E4)	BITSTRING	12		RMI - Reserved
(F0)	BITSTRING	12		RMI - Reserved
(FC)	BITSTRING	12		RMI - Reserved
(108)	BITSTRING	12		RMI - Reserved
(114)	BITSTRING	12		RMI - Reserved
(120)	BITSTRING	8		Reserved
(128)	BITSTRING	8		Reserved

Table 349. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(128)		0	MNC_CLENGTH	"*-MNC_LENGTH" Length of DSECT

MQLOA CICS-MQ Life of Adapter block

```
CONTROL BLOCK NAME = DFHMQLOA (previously CSQCLOA when in MQ)
DESCRIPTIVE NAME  = CICS Life of Adapter storage block

Restricted Materials of IBM

FUNCTION =
     Contains the storage relevant to the CICS MQ adapter.
     Primary purpose is to locate the DFHMQLOC chain of Life of
     connection control blocks.
LIFETIME =
     This control block is created when the DFHMQTRU module is
     enabled.
STORAGE CLASS =
     Storage is acquired by CICS in CICS key.
LOCATION =
     Storage address is passed to TRUE by CICS. Alternatively
     the storage address can be obtained bt CICS commands.
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
  L0 LID001 100 911031 BC : Part of Original Design
-------------------------------------------------------------------
```

Table 350.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	DFHMQLOA	
We have an MQ style header section and eyecatcher here rather than CICS style, as a CLOA is used in data conversion routines and we need to maintain compatibility.				
(0)	CHARACTER	8	CLOAHDR	
(0)	BIT(16)	2	SHEXID	Hexadecimal Control Block Id
(2)	UNSIGNED	2	SCBLEN	Control block length
(4)	CHARACTER	4	ID	Eyecatcher, 'CLOA'
(8)	BIT(8)	1	ASTATUS	Status of the adaptor. X'00' - inactive. * X'01' - active.
(9)	CHARACTER	3	*	Reserved
(C)	UNSIGNED	4	WECBAMON	ECB for Alert monitor
(10)	ADDRESS	4	PPEBCHAIN	pointer to the top element of the Pending Events Block chain

Table 350. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	HALFWORD	2	CNOOFPENDINGEVI	total number of pending events
(16)	HALFWORD	2	CNOOFCONNCLOC	total number of connected CLOCs
(18)	HALFWORD	2	CMAXNOOFFUTATT	max number of futile attempts
(1A)	CHARACTER	2	*	explicit alignment - get rid of information messages
(1C)	ADDRESS	4	PDEFCLOC	pointer to default DFHMQLOC
(20)	CHARACTER	0	ENDCLOA	End of this ctl block

Constants

Table 351.

Len	Type	value	Name	Description
2	HEX	C301	CLOA_HEXID	Hexadecimal Id of this block
4	CHARACTER	CLOA	CLOA_ID	Eyecatcher for this control block
1	HEX	00	CLOA_INACTIVE	Inactive
1	HEX	01	CLOA_ACTIVE	Active

MQLOC CICS-MQ Life of Connection block *DMA

```
CONTROL BLOCK NAME = DFHMQLOC (previously CSQCLOC when in MQ)
DESCRIPTIVE NAME  = CICS Life of Connection storage block

Restricted Materials of IBM

FUNCTION =
     Contains the storage relevant to a connection between CICS
     and a MQ subsystem.
LIFETIME =
     This control block is created during the connect process
     and destroyed during disconnect.
     One CLOC is maintained inside the CLOA and is used for
     a default connection.
STORAGE CLASS =
     Storage is acquired by CICS GETMAIN in CICS key.
LOCATION =
     The CLOCs are chained together from the default CLOC
     which is addressed via the CSQCLOA.
OTHER CONTROL BLOCKS =
 RESTRICTIONS =
   Fields Id, csSubSys and pABLK are referenced outside of
```

```
  CICS adapter code in Data conversion routines.
  To maintain inter-release compatibility the offsets of these
  fields must never be changed
MODULE TYPE = Control block definition
-------------------------------------------------------------------
```

Table 352.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	424	DFHMQLOC	
We have an MQ style header section and eyecatcher here rather than CICS style, as a CLOC is used in data conversion routines and we need to maintain compatibility.				
(0)	CHARACTER	8	CLOCHDR	
(0)	BIT(16)	2	SHEXID	Hexadecimal Control Block Id
(2)	UNSIGNED	2	SCBLEN	Control block length
(4)	CHARACTER	4	ID	Eyecatcher, 'CLOC'
(8)	BIT(8)	1	CSTATUS	Connection status. X'00' - Connecting. X'01' - Connection Pending. X'02' - Connected. X'04' - Quiescing X'10' - Force shutdown. X'20' - Shutdown complete. X'40' - Inactive.
(9)	UNSIGNED	1	LVERSION	version number
(A)	UNSIGNED	2	*	force alignment
(C)	FULLWORD	4	LSHUTDOWNREASON	Shutdown is requested by X'01' - Queue Manager X'02' - CICS X'04' - Adapter
(10)	CHARACTER	108	CONNECTION	
(10)	UNSIGNED	4	HSUBSYS	handle of connected sys
Offset to this field must remain fixed for inter release compatibility				
(14)	CHARACTER	4	CSSUBSYS	Target subsystem name
(18)	CHARACTER	8	CSAPPLID	CICS generic applid
(20)	CHARACTER	48	CSIQNAME	Initiation Que Name

Table 352. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	CHARACTER	4	CSQMSUBSYS	Subsysid of Connected QMGR
may differ from csSubSys				
(54)	ADDRESS	4	PGMAILBAG	Pointer to Global Mailbag
(58)	ADDRESS	4	PAPIX	Pointer to address of APIX rtn
(5C)	ADDRESS	4	*	Reserved
(60)	ADDRESS	4	*	Reserved
(64)	ADDRESS	4	PNEXTCLOC	Next CLOC on chain
(68)	ADDRESS	4	PFIRSTQINI	First QINI CLOT
(6C)	ADDRESS	4	PCCSIDCTRL	CCSID control information
(70)	ADDRESS	4	PAVIC	Convert routine
(74)	FULLWORD	4	LQUEUEMGRCCSID	Queue managers CCSID
(78)	CHARACTER	4	CSCICSRELEASE	Now CICS release
(7C)	CHARACTER	108	STATS	
(7C)	FULLWORD	4	CTTASKS	Number of current CPI-MQ tasks
(80)	FULLWORD	4	CTFUTILEATT	Number of futile attempts
(84)	FULLWORD	4	CTAPI	Total number of calls in this LOT
(88)	FULLWORD	4	CTAPIOK	Total number of calls comp ok
(8C)	FULLWORD	4	CTCALL	Total number of Victory flows
(90)	FULLWORD	4	CTCALLSYNCCOMP	Total number of calls comp sync
(94)	FULLWORD	4	CTCALLIO	Total number of calls need I/O
(98)	FULLWORD	4	CTWAITMSG	Total number of real GETWAIT
(9C)	FULLWORD	4	CTSUBTASKED	Total number of calls switched
(A0)	FULLWORD	4	CTOPEN	Total number of OPEN
(A4)	FULLWORD	4	CTCLOSE	Total number of CLOSE
(A8)	FULLWORD	4	CTGET	Total number of GET

Table 352. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(AC)	FULLWORD	4	CTGETWAIT	Total number of GETWAIT
(B0)	FULLWORD	4	CTPUT	Total number of PUT
(B4)	FULLWORD	4	CTPUT1	Total number of PUT1
(B8)	FULLWORD	4	CTINQ	Total number of INQ
(BC)	FULLWORD	4	CTINQL	Total number of INQL
(C0)	FULLWORD	4	CTSET	Total number of SET
(C4)	FULLWORD	4	CINDOUBTUOW	Count of indoubt units of work
(C8)	FULLWORD	4	CUNRESOLVEDUOW	Count of unresolved units of work
(CC)	FULLWORD	4	CRESOLVECOMM	Count of resolved committed UOWs
(D0)	FULLWORD	4	CRESOLVEBACK	Count of resolved backout UOWs
(D4)	FULLWORD	4	CTBACKUOW	Total number of Backout UOWs
(D8)	FULLWORD	4	CTCOMMUOW	Total number of Committed UOWs
(DC)	FULLWORD	4	CTTASKEND	Total number of tasks
(E0)	FULLWORD	4	CTSPCOMM	Total number of Single Phase Comms
(E4)	FULLWORD	4	CT2PCOMM	Total number of 2 Phase Comms
(E8)	CHARACTER	8	THDCHAIN	
(E8)	ADDRESS	4	PLASTTHD	Last THD on chain
(EC)	ADDRESS	4	PFIRSTTHD	First THD on chain
(F0)	FULLWORD	4	CNONTERMTHD	Count of non terminated thds
(F4)	FULLWORD	4	LCONNNOTAUTHORIZED	Count of CICS not auth
Offset to this field must remain fixed for inter release compatibility				

Table 352. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F8)	ADDRESS	4	PABLK	Data conversion
(FC)	CHARACTER	4	CSMQRELEASE	Release of MQ connected to
(100)	ADDRESS	4	PQRTCB	CICS QR TCB address
(104)	FULLWORD	4	LSSATIX	QMGR SSAT index
(108)	CHARACTER	24	STATS2	
(108)	FULLWORD	4	CTCALLBACK	Total number of MQCB
(10C)	FULLWORD	4	CTCONSUME	Total number of Msg consumed
(110)	FULLWORD	4	CTCONTROL	Total number of MCTL
(114)	FULLWORD	4	CTSUB	Total number of MSUB
(118)	FULLWORD	4	CTSUBRQ	Total number of MQSUBRQ
(11C)	FULLWORD	4	CTSTAT	Total number of MQSTAT
(120)	FULLWORD	4	CTMSGPROP	Total number of MsgProp
(13C)	CHARACTER	4	*	Reserved
(140)	ADDRESS	4	PMSGHDLCRT	Msg handle create routine
(144)	ADDRESS	4	PMSGPROPAPI	Msg property API routine
(148)	CHARACTER	48	CSQMNAME	Name of QMGR connected to
(178)	CHARACTER	48	CLOCABLK	ABLK for dconv
(1A8)	CHARACTER	0	ENDCLOC	End of this ctl block.

`Data conversion main control block`

Table 353.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	ABLK	Data conversion block
(0)	BIT(16)	2	SHEXID	Hex Control Block Id
(2)	UNSIGNED	2	SCBLEN	Control block length
(4)	CHARACTER	4	ID	Eyecatcher, 'ABLK'

Table 353. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	ADDRESS	4	PGLOA	Generic adapter anchor BLOA, CLOA/ C,CLOAC, XGWA
(C)	ADDRESS	4	PMQXCNVC	MQXCNVC routine
(10)	ADDRESS	4	PEXITLOAD	Exit Load routine
(14)	ADDRESS	4	PCCSIDCTRL	Data conversion control
(18)	ADDRESS	4	PFAILAREA	Fail Data for SNAP dump
(1C)	ADDRESS	4	PEXITINVOKE	Exit Invoke routine
(20)	ADDRESS	4	PATCB	Pointer to TCB
(24)	FULLWORD	4	LPROCCCSID	Process CCSID
(28)	ADDRESS	4	PMQXDX	MQXDX routine
(2C)	CHARACTER	4	*	Reserved
(30)	CHARACTER	0	ENDABLK	

Table 354.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	AVIC	Data conversion block
(0)	BIT(16)	2	SHEXID	Hex Control Block Id
(2)	UNSIGNED	2	SCBLEN	Control block length
(4)	CHARACTER	4	ID	Eyecatcher, 'AVIC'
(8)	ADDRESS	4	PAVICD	CSQAVICD routine
(C)	ADDRESS	4	PACNVC	CSQACNVC routine
(10)	ADDRESS	4	PAFFSL	CSQAFFSL routine
(14)	ADDRESS	4	PACINH	CSQACINH routine
(18)	ADDRESS	4	PAXDX	CSQAXDX routine
(1C)	CHARACTER	4	*	Reserved
(20)	CHARACTER	0	ENDAVIC	

Constants

Table 355.

Len	Type	value	Name	Description
2	HEX	C302	CLOC_HEXID	Hexadecimal Id of this block
4	CHARACTER	CLOC	CLOC_ID	Eyecatcher for this control block
4	DECIMAL	0	CLOC_VERSION	Current version
1	HEX	00	CLOC_CONNECTING	Connecting
1	HEX	01	CLOC_PENDING	Connection Pending
1	HEX	02	CLOC_CONNECTED	Connected
1	HEX	04	CLOC_QUIESCING	Warm shutdown
1	HEX	10	CLOC_QUIESCING_FORCE	Force shutdown
1	HEX	20	CLOC_QUIESCED	Shutdown complete
1	HEX	40	CLOC_INACTIVE	Inactive
4	DECIMAL	1	CLOC_REQUESTED_BY_QM	Shutdown requested by QMGR
4	DECIMAL	2	CLOC_REQUESTED_BY_CICS	Shutdown requested by CICS
4	DECIMAL	4	CLOC_REQUESTED_BY_ADAPTER	Shutdown requested by Adapter
4	DECIMAL	20	CLOC_CMAXSERVERS	Max number of servers
4	DECIMAL	0	CLOC_CONN_AUTHORIZED	CICS system is authorized
4	DECIMAL	1	CLOC_CONN_NOTAUTH	CICS system is not authorized
2	HEX	C101	ABLK_HEXID	Hexadecimal block ID
4	CHARACTER	ABLK	ABLK_ID	Eyecatcher value
2	HEX	C100	AVIC_HEXID	Hexadecimal block ID
4	CHARACTER	AVIC	AVIC_ID	Eyecatcher value

MQLOT CICS-MQ Life of Task block

```
+
 CONTROL BLOCK NAME = DFHMQLOT (previously CSQCLOT when in MQ)
 DESCRIPTIVE NAME  = CICS Life of Task storage block

 Restricted Materials of IBM

 FUNCTION = Contains the storage relevant to a single CICS Task.
 LIFETIME =
      This control block is the user part of the TIE that CICS
      creates and passes to the TRUE on each call.
```

```
      The CLOT is formatted as a CLOT on the first call by this
      task.
 STORAGE CLASS = Storage is acquired by CICS.
 LOCATION = The CLOTs are chained together from the CLOC.
 OTHER CONTROL BLOCKS =
      Points to private mailbag and Cthread block
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
   L0 LID001 100 911031 BC : Part of Original Design
   D1 D10270 100 930315 LCC : SAA QM Quiescing
   D2 27827A 210 980209 HDAJO : Data conversion enhancement
   P1 P02799 111 931129 PM : AEXY abend loosing first message
   P2 P03780 113 950203 PM : fTraceFlag skipping bytes
   P3 48255 220 000508 JD : flag CONNX call
   P4 71346 531 030109 RMWH : sort out alignment
   D3 75077 700 050610 RFB : CICS OTE support
-------------------------------------------------------------------
```

Table 356.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	224	DFHMQLOT	
(0)	CHARACTER	16	CLOTHDR	
(0)	UNSIGNED	2	SCBLEN	Control block length
(2)	CHARACTER	14	EYECATCHER	>DFHMQLOT
(10)	HALFWORD	2	TSTATUS	Task status: X'00' - Normal. X'01' - Force_Terminate.
(12)	HALFWORD	2	SENDTHREADTYPE	Type of End Thread required
(14)	ADDRESS	4	PNEXTQINI	pointer to next Qini
(18)	ADDRESS	4	PPREVQINI	pointer to Prev Qini
(1C)	ADDRESS	4	PPMAILBAG	pointer to Private Mailbag
(20)	CHARACTER	4	IDTRAN	CICS trans ID
(24)	CHARACTER	4	IDTASK	CICS task number
(28)	CHARACTER	8	IDUSER	CICS user ID
(30)	ADDRESS	4	PTRUEASTG	pointer to the current stack
(34)	ADDRESS	4	PBASEASTG	pointer to the top of stack
(38)	FULLWORD	4	FLASTG	Length of the TRUE's autostorage
(3C)	BIT(32)	4	TASKFLAGS	Various task related flags
	1...		FNEWUOW	A new UOW is needed
	.1..		FRESSECREQ	Resource security on

Table 356. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		FABENDNOROLLBACK	A private PREPARE is done
	...1		FINAPIEXIT	Indicating in API exit
	.... 1...		FSKIPAPIEXIT	Skip the API exit when on
	.... .1..		FINSELQEXIT	In Selection Queue exit
	.... ..1.		FINMQ	In MQ
	1		FINDATAEXIT	In data conversion exit
(3D)	1...		FCONNTAGGED	In data conversion exit
	.1..		FMQCONN	OTE TCB conn done
	..1.		FMQRECONN	Attempted reconnection
	...1		FQRTCB	On CICS QR TCB
(3D)	BIT(20) POS(5)	3	*	Reserved
(40)	FULLWORD	4	*	reserved
(44)	ADDRESS	4	PDEFCTHD	pointer to default DFHMQTHD
(48)	FULLWORD	4	PTCA	TCA address
(4C)	CHARACTER	8	IDUOW	Local uowid
(54)	FULLWORD	4	CAPI	No of API calls
(58)	CHARACTER	136	DEFCTHD	default CICS thread block
(58)	CHARACTER	16	CTHDHDR	
(58)	UNSIGNED	2	SCBLEN	
(5A)	CHARACTER	14	EYECATCHER	
(68)	HALFWORD	2	THDSTATUS	
(6A)	BIT(16)	2	THDFLAGS	
	1...		FTHDCHAINED	
(6C)	CHARACTER	8	TASKCHN	
(6C)	ADDRESS	4	PNEXT	
(70)	ADDRESS	4	PPREV	
(74)	CHARACTER	8	CONNCHN	
(74)	ADDRESS	4	PNEXT	
(78)	ADDRESS	4	PPREV	
(7C)	CHARACTER	48	THREADCTRL	

Table 356. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7C)	ADDRESS	4	PPARENTCLOT	
(80)	UNSIGNED	4	HTHREAD	
(84)	CHARACTER	4	ECBRESUME	
(88)	CHARACTER	4	ECBSWITCH	
(8C)	CHARACTER	16	QUEUEDQRPL	
(8C)	ADDRESS	4	PNEXTITEM	
(90)	ADDRESS	4	PTHISITEM	
(94)	ADDRESS	4	PSERVINGTCB	
(98)	ADDRESS	4	PTCAECB	
(9C)	ADDRESS	4	PFIRSTSEB	
(A0)	ADDRESS	4	PLASTSEB	
(A4)	FULLWORD	4	CNOOFSEB	
(A8)	UNSIGNED	4	FACTIVEAPI	
(AC)	ADDRESS	4	PDEFQRPL	
(B0)	CHARACTER	48	DEFFRB	
(B0)	CHARACTER	32	FRBUSER	
(B0)	CHARACTER	4	FRBID	
(B4)	HALFWORD	2	FRBRALE	
(B6)	HALFWORD	2	FRBFVLE	
(B8)	CHARACTER	6	FRBPARMS	
(B8)	ADDRESS	4	FRBPARM	
(BC)	HALFWORD	2	FRBPCNT	
(BE)	HALFWORD	2	FRBRC1	
(C0)	UNSIGNED	4	FRBRC2	
(C4)	ADDRESS	4	FRBFBACK	
(C8)	UNSIGNED	4	FRBRHPC	
(CC)	HALFWORD	2	FRBQUAL	
(CE)	UNSIGNED	1	FRBUFLGS	
	1...		FRBCHOLD	
	.1..		FRBCDCAC	
	..1.		FRBCDCSG	
	...1		FRBCONN	
	 1111		*	
(CF)	UNSIGNED	1	FRBRSV1	
(D0)	CHARACTER	0	FRBLEN	
(D0)	CHARACTER	16	FRBSYS	
(D0)	ADDRESS	4	FRBRAL	

Table 356. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(D4)	ADDRESS	4	FRBEB	
(D8)	CHARACTER	4	FRBSUSE	
(D8)	BIT(8)	1	FRBSFLGS	
	1...		FRBUDATA	
	.1..		FRBNDUMP	
	..11 1111		*	
(D9)	CHARACTER	3	*	
(DC)	ADDRESS	4	FRBAGNT	
(E0)	CHARACTER	0	FRBLENS	
(E0)	CHARACTER	0	FRBLENT	
(E0)	CHARACTER	0	END_DFHMQTHD	
(E0)	CHARACTER	0	END_DFHMQLOT	End of block

Constants

Table 357.

Len	Type	value	Name	Description
14	CHARACTER	>DFHMQLOT	CLOT_ID	
2	DECIMAL	0	CLOT_NORMAL	Normal running
2	DECIMAL	1	CLOT_FORCE_TERMINATE	Force_terminate by QSSQ
2	DECIMAL	1	CLOT_AEXY_ABEND	Thread purged so ABEND AEXY

MQMCS Asynchronous consume status block

```
CONTROL BLOCK NAME = dfhmqmcs (CSQCMCSS in MQ)
Description: Asynchronous Consumer Status for CICS adapter

Restricted Materials of IBM

Function:
 This include file maps areas used by CICS for aysnc consume
 The areas mapped here Must be kept in sync with the C
 equivalents in DFHMQMCH
End of text to be included in SRM
STORAGE CLASS =
     Subpool 0
LOCATION =
     Chained from CTHD
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
  Async Consumer state mapped in C in dfhmqmch - take care
```

Table 358.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4208	DFHMQMCS	

Table 358. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	8	MCSTHDR	
(0)	BIT(16)	2	SHEXID	Hexadecimal Control Block Id
(2)	UNSIGNED	2	SCBLEN	Control block length
(4)	CHARACTER	4	ID	Eyecatcher, 'CMCS'
(8)	CHARACTER	56	ASYNCCONSUME_ STATUS	
(8)	FULLWORD	4	AC_TYPE	1 Start, 2 Wait
(C)	FULLWORD	4	AC_ACTIVE	1 Active, 2 Suspend
(10)	BIT(32)	4	AC_FLAGS	
	1...		FMCSMACT	Async consumer active
	.1..		FMCSXACT	Sync consumer active
	..1.		FCBACT	Call back routine active
	...1		FSCBACT	Sync (Reg/Dereg) CB active
	.... 1...		FSUSPPOST	Suspend ECB post reqd
	.... .1..		FAPIXRQD	API Crossing exit reqd
	.... ..1.		FAPIXACT	API crossing exit called
	1		*	resvd
(11)	1111 11..		*	resvd
	.... ..1.		FMCBECFND	MCBEC Found on chain
	1		FMCBECCRT	MCBEC Created
(12)	11..		*	resvd
	..1.		FFIQDEF	Quiescing call Defined
	...1		FREGDEF	Register call Defined
	.... 1...		FSTARTDEF	Start call Defined
	.... .1..		*	resvd
	.... ..1.		FSTOPDEF	Stop call Defined
	1		FDREGDEF	Deregister call Defined
(13)	111.		*	resvd

Table 358. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		FREGRQD	Register call required
	.... 1...		FSTARTRQD	Start call required
	.... .1..		*	resvd
	.... ..1.		FSTOPRQD	Stop call required
	1		FDREGRQD	Deregister call required
(14)	UNSIGNED	4	AC_CTL_OP	Last MQCTL operation
(18)	CHARACTER	8	AC_CB_CHAIN	Chain of consumers
(18)	ADDRESS	4	PFWD	
(1C)	ADDRESS	4	PBWD	
(20)	ADDRESS	4	AC_EVTHAND	Event handler MBEC
(24)	ADDRESS	4	AC_CONNECTIONAREA	
(28)	FULLWORD	4	AC_COMPCODE	Consumer CC
(2C)	FULLWORD	4	AC_REASON	Consumer Reason
(30)	CHARACTER	16	AC_APIX_ USERDATA	API exit user data
(40)	CHARACTER	48	APPBUFFER	
(40)	BIT(16)	2	MBAL_SHEXID	
(42)	UNSIGNED	2	MBAL_SCBLEN	
(44)	CHARACTER	4	MBAL_CSID	
(48)	FULLWORD	4	LENOLDBUFF	
(4C)	FULLWORD	4	LENNEWBUFF	
(50)	ADDRESS	8	POLDAPPBUFF	
(50)	ADDRESS	4	*	
(54)	ADDRESS	4	POLDAPPBUFF31	
(58)	ADDRESS	8	PNEWAPPBUFF	
(58)	ADDRESS	4	*	
(5C)	ADDRESS	4	PNEWAPPBUFF31	
(60)	ADDRESS	8	PXMEMSTACK	
(60)	ADDRESS	4	*	
(64)	ADDRESS	4	PXMEMSTACK31	
(68)	ADDRESS	4	PSTKEXT	
(6C)	CHARACTER	4	*	
(70)	CHARACTER	4096	XMEM_STACK	

Table 358. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1070)	CHARACTER	0	ENDMCSS	End of this control block.

`CICS client Call back element`

Table 359.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	664	MCBEC	CICS call back element
(0)	CHARACTER	8	MCBECHDR	
(0)	BIT(16)	2	SHEXID	Hexadecimal Control Block Id
(2)	UNSIGNED	2	SCBLEN	Control block length
(4)	CHARACTER	4	ID	Eyecatcher, 'CCBE'
(8)	CHARACTER	8	MCBEC_CHAIN	Chain from async state
(8)	ADDRESS	4	PFWD	
(C)	ADDRESS	4	PBWD	
(10)	BIT(32)	4	FSTATUS	Status of the callback
(10)	BIT(8)	1	*	resvd
(11)	1111 1...		*	resvd
	.... .1..		FCBLOADED	CB routine loaded
	.... ..1.		FSUSPEND	CB supended
	1		FDEREGISTER	CB deregistered
`Times when Call backs made`				
(12)	11..		*	resvd
	..1.		FFIQMADE	Quiescing call made
	...1		FREGMADE	Register call made
	.... 1...		FSTARTMADE	Start call made
	.... .1..		FCALLMADE	Msg/Event call made
	.... ..1.		FSTOPMADE	Stop call made
	1		FDREGMADE	Deregister call made
`Times when Call backs required`				
(13)	11..		*	resvd
	..1.		FFIQRQD	Quiescing call Required

Table 359. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		FREGRQD	Register call required
	.... 1...		FSTARTRQD	Start call required
	.... .1..		*	resvd
	.... ..1.		FSTOPRQD	Stop call required
	1		FDREGRQD	Deregister call required
(14)	FULLWORD	4	HOBJ	Hobj for associated queue
(18)	CHARACTER	156	CBD	Call back request data
(18)	CHARACTER	4	STRUCID	
(1C)	FULLWORD	4	VERSION	
(20)	FULLWORD	4	CALLBACKTYPE	
(24)	FULLWORD	4	OPTIONS	
(28)	ADDRESS	4	CALLBACKAREA	
(2C)	ADDRESS	4	CALLBACKFUNCTION	
(30)	CHARACTER	128	CALLBACKNAME	
(B0)	FULLWORD	4	MAXMSGLENGTH	
(B4)	CHARACTER	0	ENDMQCBD	
(B4)	ADDRESS	4	PGMO	Address of gmo
(B8)	ADDRESS	4	PMDESC	Address of Mdesc
(BC)	CHARACTER	112	GMO	Get Message options
(BC)	CHARACTER	4	STRUCID	
(C0)	FULLWORD	4	VERSION	
(C4)	FULLWORD	4	OPTIONS	
(C8)	FULLWORD	4	WAITINTERVAL	
(CC)	ADDRESS	4	SIGNAL1	
(D0)	FULLWORD	4	SIGNAL2	
(D4)	CHARACTER	48	RESOLVEDQNAME	
(104)	FULLWORD	4	MATCHOPTIONS	
(108)	CHARACTER	1	GROUPSTATUS	
(109)	CHARACTER	1	SEGMENTSTATUS	
(10A)	CHARACTER	1	SEGMENTATION	
(10B)	CHARACTER	1	RESERVED1	
(10C)	CHARACTER	16	MSGTOKEN	
(11C)	FULLWORD	4	RETURNEDLENGTH	

Table 359. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(120)	FULLWORD	4	RESERVED2	
(124)	CHARACTER	8	MSGHANDLE	
(12C)	CHARACTER	0	ENDMQGMO	
(12C)	CHARACTER	364	MDESC	Message descriptor
(12C)	CHARACTER	4	STRUCID	
(130)	FULLWORD	4	VERSION	
(134)	FULLWORD	4	REPORT	
(138)	FULLWORD	4	MSGTYPE	
(13C)	FULLWORD	4	EXPIRY	
(140)	FULLWORD	4	FEEDBACK	
(144)	FULLWORD	4	ENCODING	
(148)	FULLWORD	4	CODEDCHARSETID	
(14C)	CHARACTER	8	FORMAT	
(154)	FULLWORD	4	PRIORITY	
(158)	FULLWORD	4	PERSISTENCE	
(15C)	CHARACTER	24	MSGID	
(174)	CHARACTER	24	CORRELID	
(18C)	FULLWORD	4	BACKOUTCOUNT	
(190)	CHARACTER	48	REPLYTOQ	
(1C0)	CHARACTER	48	REPLYTOQMGR	
(1F0)	CHARACTER	12	USERIDENTIFIER	
(1FC)	CHARACTER	32	ACCOUNTINGTOKEN	
(21C)	CHARACTER	32	APPLIDENTITYDATA	
(23C)	FULLWORD	4	PUTAPPLTYPE	
(240)	CHARACTER	28	PUTAPPLNAME	
(25C)	CHARACTER	8	PUTDATE	
(264)	CHARACTER	8	PUTTIME	
(26C)	CHARACTER	4	APPLORIGINDATA	
(270)	CHARACTER	24	GROUPID	
(288)	FULLWORD	4	MSGSEQNUMBER	
(28C)	FULLWORD	4	SEGOFFSET	
(290)	FULLWORD	4	MSGFLAGS	
(294)	FULLWORD	4	ORIGINALLENGTH	
(298)	CHARACTER	0	ENDMQMD	
(298)	CHARACTER	0	ENDMCBEC	End of this ctl block

Constants

Table 360.

Len	Type	value	Name	Description
2	HEX	C306	CMCST_HEXID	Hexadecimal Id of this block
4	CHARACTER	CMCS	CMCST_ID	Eyecatcher for this control block
2	HEX	C307	MCBEC_HEXID	Hexadecimal Id of this block
4	CHARACTER	CCBE	MCBEC_ID	Eyecatcher for this control block

MQRPL Queue request parameter list

```
CONTROL BLOCK NAME = DFHMQRPL (previously CSQMQRPL when in MQ)
DESCRIPTIVE NAME  = Queue Request Parameter List

Restricted Materials of IBM

FUNCTION =
     The QRPL is the control block that is used to communicate
     between the enviromental adapters (CICS and batch) and the
     MMC component.
     An instance of this control block represents a request (or
     the response to a request) such at GETMSG from an applicat
     ion program.
     One instance of this control block will exist for each
     task using MQM/ESA subsystem services.
     In CICS one per CICS task using MQM/ESA subsystem services.
LIFETIME =
     The QRPL is created and destroyed by the appropriate
     adapter program.
STORAGE CLASS = User key, anywhere in virtual storage
LOCATION =
     From CICS the QRPL is contained in the Task Interface
     Element storage that is supplied by CICS.
OTHER CONTROL BLOCKS =
 RESTRICTIONS =
 MODULE TYPE = Control block definition

     We have an MQ style header section and eyecatcher here
     rather than CICS style, as a QRPL must be compatible with
     WMQ
```

Table 361.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	240	DFHMQRPL	Queue Request Parameter List
(0)	BIT(16)	2	SHEXID	Hexadecimal Control Block Id
(2)	UNSIGNED	2	SCBLEN	Control block length
(4)	CHARACTER	4	ID	Eyecatcher, 'QRPL'

Table 361. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	FULLWORD	4	LVERSION	Parameter list version
(C)	UNSIGNED	4	CMDREQUEST	An input fullword representing service being requested.
(10)	UNSIGNED	4	HTHREAD	An input fullword thread id.
Used by CMC to identify CICS tasks. Saved in CCBCORID(1:4) and appears in displays.				
(14)	ADDRESS	4	PECBRESUME	Points to the Resume Event
Control Block to be used if this request is to be performed asynchronously. A zero value indicates that the service must be executed synchronously.				
(18)	CHARACTER	8	CSUSERID	The UserId to be used in
authorising this request.				
(20)	CHARACTER	64	UOWINFO	Unit of Work information
returned by Inquire Indoubt and recovered across subsystem restart if any persistent msgs in the UOW. Also input RRS Context Token for WS JMS support.				
(20)	CHARACTER	16	IDNETWORK	Network ID (NID)
(20)	CHARACTER	16	IDCONTEXT	RRS Context Token
(20)	CHARACTER	8	IDNODE	CICS: Node ID IMS: System ID
(28)	CHARACTER	8	IDUOW	CICS: Node clock val
(28)	FULLWORD	4	LOASN	IMS: Origin appl seq number
(2C)	FULLWORD	4	LCOMMIT	IMS: Commit number
(30)	CHARACTER	48	IDREFERENCE	Reference info
(30)	CHARACTER	20	IDDISQ	Used by DISQ comp
(30)	CHARACTER	12	IDCORREL	CCBCORID for disp IMS: Userid, LTERM or PSBName
(30)	CHARACTER	4	CSTRANSID	CICS Transaction ID or CSQ*
(34)	CHARACTER	4	CSTASKNO	CICS Task Number

Table 361. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	CHARACTER	4	*	Reserved
(3C)	CHARACTER	8	*	Reserved
(44)	CHARACTER	27	IDLU62	CICS LU 6.2 token
(44)	CHARACTER	17	IDLU62_17	Node name part
(55)	CHARACTER	6	IDLU62_UNQ	Unique value (part of STCK)
(5B)	CHARACTER	4	*	Reserved for use by CICS
(5F)	CHARACTER	1	*	Pad to fullword boundary
(60)	BIT(32)	4	FLMISCFLAGS	MMC Flags
(60)	BIT(8)	1	FBRESPONSEFLAGS	MMC Response Flags
	1...		FSYNCPOINTREQUIRED	
				UOW is an update one
	.1..		FRRS_COORD	RRS optimisation for BRRSI
	..11 1111		*	unused
(61)	BIT(8)	1	FBSECURITYFLAGS	Ally security flags
	1...		FRESSECREQ	Resource security check reqd 4@P8D
	.1..		FMOVECMD	MOVE cmd - bypass security
	..1.		FLOCSHRD	MOVE cmd - use SHARED object
	...1		FUIDPWDAUTH	JMS Userid/pwd auth
	 1111		*	unused
(62)	BIT(8)	1	FBADPTOPTS	Internal processing options
	1...		FIMSCONVERT	Data converted for IMS Queue
	.1..		FADOPTUSER	Adopted User id
	..1.		FADOPTAPPLNAME	Adopted PutApplName
	...1		FADOPTAPPLTYPE	Adopted PutApplType

Table 361. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		FADOPTACCTTOKEN	Adopted Accounting Token
	.... .1..		FRRSEXTEND	Extended RRS Semantic request@DHA
	.... ..1.		FRRSFORCELOCAL	Forced Local Semantic for JMS@DHA
	1		FRRSINITCTX	Request new RRS Context
(63)	BIT(8)	1	FBQRPLCALLOPTS	QRPL call options
	1...		FNOSECURITY	No user profile checks
	.1..		FXACALL	Request is an XA client call
	..1.		FRRSFORCENATIVE	Forced NativeSemanticfor Argo@01A
	...1		FRRSOPTI	RRS optimisation for BRRSI
	.... 1...		FUSEBUFFASID	Use lBufferASID to access
csBuffer				
	.... .1..		FUSEBUFFKEY	Use lBufferKEY to access
csBuffer				
	11		*	Spare
(64)	CHARACTER	8	CSUSERID_A	userid for MVS Mvr+IGQ sec
(6C)	CHARACTER	8	CSUSERID_B	userid for MVS Mvr+IGQ sec
(74)	CHARACTER	4	*	Reserved for expansion
(78)	CHARACTER	120	CLEAREDAREA	This part of the QRPL will be
cleared to binary zeros between calls to improve readability of trace entries.				
(78)	CHARACTER	12	RETURNCODES	
(78)	FULLWORD	4	LMREQRESPONSE	An output integer value used to
indicate the status of the request. Value set by MMC and listed in CSQMEXTC				

Table 361. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7C)	FULLWORD	4	LRETURNCODE	An output integer value used to
indicate the success of the request. Value set by MMC and listed in CSQMRETC				
(80)	FULLWORD	4	LREASON	An output integer value used to
qualify a non-zero return code. Value set by MMC and listed in CSQMRETC				
(84)	ADDRESS	4	POBJECTDESC	Pointer to the Object Descriptor
relevant to this service request.				
(88)	UNSIGNED	4	HOBJECT	A fullword containing the object
handle for this request. Is an input variable except on OPEN or SUB Value set by MMC				
(88)	FULLWORD	4	LOBJECTMQOT	A fullword containing the object
type (MQOT_xxx) for MQICLU				
(8C)	ADDRESS	4	PMSGDESC	Pointer to the Message Descriptor
relevant to this service request.				
(90)	ADDRESS	4	PGETMSGOPT	Pointer to the Get Message
options control block passed on the MQGET API call.				
(94)	ADDRESS	4	PPUTMSGOPT	Pointer to the Put Message
options control block passed on the MQPUT API call.				
(94)	FULLWORD	4	HDEST	object handle for destination Q
for subscription input/output@DVA				
(94)	FULLWORD	4	LCALLBACKID	Call back request ID
(98)	BIT(32)	4	FLOPTIONS	An input fullword of option flags
that qualify this request.				
(9C)	ADDRESS	4	PCSBUFFER	A pointer to the user supplied
buffer.				
(A0)	FULLWORD	4	LBUFFERLENGTH	Length in bytes of the buffer

Table 361. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A4)	FULLWORD	4	LDATALENGTH	The actual length of the message.
This may exceed the lBufferLength value. Value set by MMC				
(A4)	FULLWORD	4	LOBJECTMAX	The max number of objects found
by MQICLU. Value set by MMC				
(A8)	FULLWORD	4	CINTATTRCOUNT	Count of number of integer
attributes required by MQINQ, MQINQL and MQSET.				
(A8)	FULLWORD	4	LBUFFERASID	ASID for buffer for MQPUT
if not the same as that in the thread block. This must always be connected to the qmgr at put time so that an alet already exists.				
(AC)	ADDRESS	4	PALINTATTRS	Pointer to array of integer
attribute values for MQINQ, MQINQL and MQSET.				
(AC)	ADDRESS	4	PCSSTARTNAME	Pointer to starting object name
for MQICLU.				
(AC)	ADDRESS	4	PCONSUMERDATA	Call back consumer data
(AC)	FULLWORD	4	LBUFFERKEY	KEY for buffer for MQPUT
if not the same as that in the thread block.				
(B0)	FULLWORD	4	LCHARATTRLENGTH	Length in bytes of the string
area that is used by MQINQ, MQINCL and MQSET to concatenate the character attribute string values. It must be at least the sum of the lengths required to hold each attribute string.				
(B4)	ADDRESS	4	PCSCHARATTRS	Pointer to a string area into
which MQINQ, MQINQL and MQSET concatenate the character attribute string values.				
(B4)	ADDRESS	4	PCSCLUSTER	Pointer to cluster name
for MQICLU.				
(B8)	FULLWORD	4	CSELECTORCOUNT	Count of selectors (character or

Table 361. (continued)

Offset Hex	Type	Len	Name (dim)	Description
integer) that are required to be returned by MQINQ, MQINQL and MQSET.				
(BC)	ADDRESS	4	PALSELECTORS	Pointer to an array of selector
values for any attributes (character or integer) required by MQINQ, MQINQL and MQSET.				
(C0)	FULLWORD	4	LOBJECTCOUNT	An output integer indicating the
number of objects found in the namelist requested by MQINQL or returned by MQICLU.				
(C4)	ADDRESS	4	PAPRHFRB	Used for debugging reason, not
for addressing purpose. Set up by adapter when issuing csqaprh call				
(C8)	FULLWORD	4	LQMGRCCSID	Queue Manager CCSID
(CC)	CHARACTER	4	PMOVERPRIVATEOPTIONS	
				Private MQI opts for mover
(CC)	ADDRESS	4	PPUT1PRIVOPTS	
Options to private MQPUT1 call				
(CC)	ADDRESS	4	PGETPRIVOPTS	
Options to private MQGET call				
(D0)	ADDRESS	4	PQRPLX	Qrpl ext for Adapters
(D4)	ADDRESS	4	PMQCNO	MQCMO addr from MQCONNX
(D8)	ADDRESS	4	PQRPLLOA	Pointer back to LOA block
(DC)	ADDRESS	4	PQRPL0	Pointer to qrpl in adaptor.
(E0)	ADDRESS	4	PQRPLRESP	Pointer to block of qrpl
output fields for getters. Used in put to waiting getter as original QRPL may be overwritten.				
(E4)	CHARACTER	4	PSPIOPTIONS	SPI optios structures
(E4)	ADDRESS	4	PPUTSPIOPTS	SPI put options
(E4)	ADDRESS	4	PACTSPIOPTS	SPI activate option
(E4)	ADDRESS	4	PGETSPIOPTS	SPI get options
(E4)	ADDRESS	4	POPENSPIOPTS	SPI open options

Table 361. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E8)	CHARACTER	8	*	Reserved for expansion
				@ DLA WARNING WARNING WARNING WARNING Do not extend the QRPL beyond 256 bytes because the QRPL is cross memory moved via mvcp, mvcs and mvck instructions@DLA which only permit a move of up to 256 bytes. WARNING WARNING WARNING WARNING @ DLA
(F0)	CHARACTER	0	END_DFHMQRPL	End of QRPL

```
Private options used by mover API calls
```

Table 362.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	112	MOVERPUT1	Mover enhanced PUT1
(0)	BIT(32)	4	PRIVOPTS	Options to call
	1...		PUTBYUUID	Put msg by UUID
	.1..		REPOSSUB	Subscribe to repository
	..1.		PUTBYMOVER	Subscribe to repository
	...1		NOCLUSTEREXIT	Don't call cluster exit
	.... 1...		NOSUBSCRIPTIONS	No subscriptions
	.... .1..		PUTBYOFFSET	Put by repos offset
	.... ..1.		NOSECURITY	No security check
	1		USEIGQ	Use IGQ @DEA@DGC@PFA
(1)	1...		NOLOCALPUT	Only put if xmitq
	.1..		PUTBYCLUSCHL	Put by cluster chl
(1)	BIT(22) POS(3)	3	*	Spare @PCC@DEA@DRC
(4)	CHARACTER	48	UUID	qmgr uuid
(34)	CHARACTER	48	CLUSTER	cluster
(64)	ADDRESS	4	PRECIPIENTUUID	ptr into msg buffer
(68)	FULLWORD	4	LQMOFFSET	QM offset
(6C)	ADDRESS	4	PCHANNELNAME	ptr into msg buffer

Table 363.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	MOVERGET	Mover enhanced GET
(0)	BIT(32)	4	PRIVOPTS	Options to call
	1...		GETSETEMPTY	Get and set empty Rsn
	.1..		RESETXQTIME	Reset XQTIME for xmitq

Table 364.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	240	QRPLX	QRPL Adapter Extension
(0)	BIT(16)	2	SHEXID	Hexadecimal Control Block Id
(2)	UNSIGNED	2	SCBLEN	Control block length
(4)	CHARACTER	4	ID	Eyecatcher, 'QRPX'
(8)	FULLWORD	4	LVERSION	Parameter list version number
(C)	CHARACTER	1	CSWHOSEADAPTER	Which adapter built this extentio
(D)	CHARACTER	3	*	Spare
(10)	CHARACTER	48	QRPLXMOVER	mover extension
(10)	ADDRESS	4	PMOVERPWA	pointer to Pwa
(14)	ADDRESS	4	PMOVERDPRO	pointer to Dpro
(18)	CHARACTER	20	CHANNELNAME	
channel name				
(2C)	CHARACTER	20	SHORTCONNNAME	
short Connection Name				
(40)	CHARACTER	8	* (3)	Reserved for stats
(58)	UNSIGNED	1	CHANNELTYPE	Channel Type
(59)	CHARACTER	3	*	Spare
(5C)	CHARACTER	140	XID	XA Transaction ID
(5C)	UNSIGNED	4	FORMATID	XA Format ID
(60)	UNSIGNED	4	GTRID_LENGTH	XA length of gtrid in data
(64)	UNSIGNED	4	BQUAL_LENGTH	XA length of bqual in data

Table 364. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(64)	FULLWORD	4	LREQUESTTYPE	request type authentication
(68)	CHARACTER	128	DATA	XA gtrid + bqual
(68)	CHARACTER	8	CSPASSWORD	JMSpassword for auth
(70)	CHARACTER	8	CSPASSTKTA	Pass Ticket applid
(78)	CHARACTER	112	*	spare for authentication
(E8)	UNSIGNED	4	XAFLAGS	XA Request flags
(EC)	UNSIGNED	4	XACALLFLAGS	XA Call flags
(F0)	CHARACTER	0	ENDQRPLX	End of QRPLX

Table 365.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	QRPLRESP	Copy get o/p fields IN QRPL
(0)	CHARACTER	12	RETURNCODES	
(0)	FULLWORD	4	LMREQRESPONSE	MMC respose
(4)	FULLWORD	4	LRETURNCODE	Request return code
(8)	FULLWORD	4	LREASON	Request reason code
(C)	FULLWORD	4	LDATALENGTH	Actual length returned
(10)	CHARACTER	16	*	expansion

Constants

Table 366.

Len	Type	value	Name	Description
2	HEX	D400	QRPL_HEXID	Hexadecimal Id of this block
4	CHARACTER	QRPL	QRPL_ID	Eyecatcher for this control block
4	DECIMAL	1	QRPL_VERSION_1	Parameter list version number@D1A
2	HEX	D423	QRPLX_HEXID	Hexadecimal Id of this block
4	CHARACTER	QRPX	QRPLX_ID	Eyecatcher for this cntl bl

Table 366. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1	QRPLX_VERSION_1	Parameter list version number@PDA
4	DECIMAL	2	QRPLX_VERSION_2	Parameter list version number@DOA
4	DECIMAL	2	QRPLX_CURRENT_VERSION	
1	CHARACTER	W	QRPLX_WSTB	WAS RRS Batch adapter
1	CHARACTER	C	QRPLX_CICS	CICS adapter
4	DECIMAL	212	QRPLX_MOVER	Mover Adapter
Func Request codes used in dfhmqrpl.cmdRequest. The same set of codes is used to pass request codes between the STUB modules and the environmental adapter code. NOTE Both CSQMCPRH and CSQMPRH2 have code that relies on the relative values of these request codes. Beware when adding or changing them.				
4	DECIMAL	1	QRPL_OPEN	CPI Command MQOPEN
4	DECIMAL	2	QRPL_CLOSE	CPI Command MQCLOSE
4	DECIMAL	3	QRPL_GETMSG	CPI Command MQGET
4	DECIMAL	4	QRPL_PUTMSG	CPI Command MQPUT
4	DECIMAL	5	QRPL_PUTONE	CPI Command MQPUT1
4	DECIMAL	6	QRPL_INQ	CPI Command MQINQ
4	DECIMAL	7	QRPL_INQL	CPI Command MQINQL
4	DECIMAL	8	QRPL_SET	CPI Command MQSET
4	DECIMAL	9	QRPL_END_WAIT	Request for MMC to post the wait that the identified thread is in as complete - but failed.
4	DECIMAL	10	QRPL_CLOSE_HANDLES	Request for MMC to close ALL Open Handles
4	DECIMAL	11	QRPL_PREPARE	Prepare for two phase commit

Table 366. (continued)

Len	Type	value	Name	Description
4	DECIMAL	12	QRPL_COMMIT	CPI Command MQCMIT or CICS is committing the current UoW. Commit a two phase commit or perform a single phase commit@D4C
4	DECIMAL	13	QRPL_BACKOUT	CPI Command MQBACK or CICS is backing out the current UoW. Backout a two phase commit or perform a 1-phase backout.
4	DECIMAL	13	QRPL_ROLLBACK	Rollback
4	DECIMAL	14	QRPL_END_THREAD	Request for MMC to close all handles etc. for this thread. Next use of this thread will be by an unrelated task.
4	DECIMAL	15	QRPL_INQUIRE_INDOUBT	Request a list of UoW that are INDOUBT after a restart.
4	DECIMAL	16	QRPL_RESOLVE_COMMIT	Inform MMC that an individual UoW is to be commited.
4	DECIMAL	17	QRPL_RESOLVE_BACKOUT	Inform MMC that an individual UoW is to be backed out.
4	DECIMAL	17	QRPL_RESOLVE_ROLLBACK	
				Resolve Rollback
4	DECIMAL	18	QRPL_EXECUTE_RESOLVE	Execute the decisions as to committing or backing out a set of QRPL_RESOLVE_XXXXX calls.

Table 366. (continued)

Len	Type	value	Name	Description
4	DECIMAL	19	QRPL_INQUIRE_CLUSTER	Inquire clustering info
4	DECIMAL	20	QRPL_RM5F	RM5F call
4	DECIMAL	21	QRPL_CUWT	MQCONNX needs MCUWT
4	DECIMAL	22	QRPL_SETCTX	SPI Command CSQBSCTX WebSphere is establishing the current context for the conn handle (may require a new ctx)
4	DECIMAL	23	QRPL_ENDCTX	SPI Command CSQBECTX WebSphere has finished with an RRS context and wishes MQ to free it.
4	DECIMAL	24	QRPL_XDX	CPI command MQXDX
4	DECIMAL	25	QRPL_SER	Serialise access to shrd qs
4	DECIMAL	26	QRPL_UNSR	Unserialise access to shrd qs@DMA
4	DECIMAL	27	QRPL_XA_CLOSE	XA client close Appl
4	DECIMAL	28	QRPL_XA_COMMIT	XA client commit UoW
4	DECIMAL	29	QRPL_XA_COMPLETE	XA client test asynch op for completion (No-op in MQ)
4	DECIMAL	30	QRPL_XA_END	XA client end UoW
4	DECIMAL	31	QRPL_XA_FORGET	XA client end UoW
4	DECIMAL	32	QRPL_XA_OPEN	XA client start Appl
4	DECIMAL	33	QRPL_XA_PREPARE	XA client prepare UoW
4	DECIMAL	34	QRPL_XA_RECOVER	XA client inquire in-doubt
4	DECIMAL	35	QRPL_XA_ROLLBACK	XA client backout UoW
4	DECIMAL	36	QRPL_XA_START	XA client begin UoW

Table 366. (continued)

Len	Type	value	Name	Description
4	DECIMAL	37	QRPL_UIDPWD	Userid password checking
4	DECIMAL	38	QRPL_SPIPUT	SPI put
4	DECIMAL	39	QRPL_SPIACT	SPI activate deferred msg
4	DECIMAL	40	QRPL_SPIGET	SPI get
4	DECIMAL	41	QRPL_CONVRT	Placeholder for convert call
!WARNING: When the above call eventually gets implemented, ! remove the check in CSQMCPRH that disables it!				
4	DECIMAL	42	QRPL_SUB	CPI Command MQSUB
4	DECIMAL	43	QRPL_SUBRQ	CPI Command MQSUBRQ
4	DECIMAL	44	QRPL_CB	CPI Command MQCB
4	DECIMAL	45	QRPL_CTL	CPI Command MQCTL
4	DECIMAL	46	QRPL_STAT	CPI Command MQSTAT
4	DECIMAL	47	QRPL_SPIOPEN	SPI Open
!NOTE: If any new calls are added after here, check whether ! the special case checks for IMS MULC in CSQMCPRH need ! to be updated.				
4	DECIMAL	47	QRPL_MAX_REQUEST	@ESD@DHC@DKC@DMC@DUC@DXA
CICS, IMS and Batch Adapter option to indicate whether a task can tolerate being suspended (I/O wait etc) under a particular TCB or not.				
4	HEX	80000000	QRPL_NOSUSPEND	Prohibit task suspension
Position of the reason code in the parameter list. Notes: The adapters make the following assumptions: 1. The reason code is assumed to be the last parameter (so its position is also the total number of parameters). 2. The completion code immediately precedes the reason code. 3. All supported commands have at least three parameters (handle, completion and return codes). 4. There may not be more than 255 parameters, including the reason code.				
4	DECIMAL	4	POS_RC_CONN	CPI Command MQCONN
4	DECIMAL	2	POS_RC_HCONN	Position of the HCONN in MQCONN
4	DECIMAL	5	POS_RC_CONNX	CPI Command MQCONNX

Table 366. (continued)

Len	Type	value	Name	Description
4	DECIMAL	3	POS_RC_HCONN	Pos of the HCONN in MQCONN
4	DECIMAL	6	POS_RC_SPICON	CPI Command SPICONN
4	DECIMAL	1	POS_RC_HAPI	Posn of HCONN in other API
4	DECIMAL	3	POS_RC_DISC	CPI Command MQDISC
4	DECIMAL	6	POS_RC_OPEN	CPI Command MQOPEN
4	DECIMAL	5	POS_RC_CLOSE	CPI Command MQCLOSE
4	DECIMAL	9	POS_RC_GETMSG	CPI Command MQGET
4	DECIMAL	8	POS_RC_PUTMSG	CPI Command MQPUT
4	DECIMAL	8	POS_RC_PUTONE	CPI Command MQPUT1
4	DECIMAL	10	POS_RC_INQ	CPI Command MQINQ
4	DECIMAL	11	POS_RC_INQL	CPI Command MQINQL
4	DECIMAL	10	POS_RC_SET	CPI Command MQSET
4	DECIMAL	10	POS_RC_CONVRT	CPI Command MQCONVRT
4	DECIMAL	0	POS_RC_PREPARE	Prepare for two phase commit
not supported by adapter yet				
4	DECIMAL	3	POS_RC_COMMIT	CPI Command MQCMIT
4	DECIMAL	3	POS_RC_BACKOUT	CPI Command MQBACK
4	DECIMAL	3	POS_RC_ROLLBACK	Obsolete synonym
4	DECIMAL	4	POS_RC_SETCTX	SPI Command CSQBSCTX
4	DECIMAL	4	POS_RC_ENDCTX	SPI Command CSQBECTX
4	DECIMAL	4	POS_RC_XWAIT	CPI Command MQXWAIT
4	DECIMAL	3	POS_RC_RBAK	SPI Command Resolve Backout
4	DECIMAL	3	POS_RC_RCMT	SPI Command Resolve Commit

Table 366. (continued)

Len	Type	value	Name	Description
4	DECIMAL	3	POS_RC_PREP	SPI Command for Prepare
4	DECIMAL	3	POS_RC_IIND	SPI Command for Inquire Indoubts
4	DECIMAL	11	POS_RC_ICLU	CPI Command for Inquire Clus
4	DECIMAL	5	POS_RC_RM5F	CPI Command for RM5F call
4	DECIMAL	5	POS_RC_CUWT	CPI Command for RM5F call
4	DECIMAL	6	POS_RC_UPAC	SPI Command for Authenticate
4	DECIMAL	6	POS_RC_SUB	CPI Command for MQSUB
4	DECIMAL	5	POS_RC_SUBRQ	CPI Command MQSUBRQ
4	DECIMAL	6	POS_RC_CB	CPI Command MQCB
4	DECIMAL	5	POS_RC_CTL	CPI Command MQCTL
4	DECIMAL	5	POS_RC_STAT	CPI Command MQSTAT
4	DECIMAL	11	POS_RC_MAXIMUM	MQL has most parameters
4	DECIMAL	3	POS_RC_MINIMUM	BACKOUT has fewest
4	DECIMAL	11	POS_RC_XCNVC	CPI Command MQXCNVC
4	DECIMAL	3	POS_RC_ITRUE	SPI CICS Inq True
NB: We need to go through the DCR process to determine what's to be done for the problems with the MQXDX interface (no CC/RC) but are providing a temporary means to invoke if for PDMQ to enable them to meet DCUT dates.				
4	DECIMAL	6	POS_RC_XDX	CPI Command MQXDX
4	DECIMAL	4	POS_RC_SER	CPI Command CSQXSER
4	DECIMAL	3	POS_RC_UNSR	CPI Command CSQXUNSR
SPIPUT, SPIACT and SPIOPEN				
4	DECIMAL	9	POS_RC_SPIPUT	SPI Command SPIPUT
4	DECIMAL	4	POS_RC_SPIACT	SPI Command SPIACT
4	DECIMAL	10	POS_RC_SPIGET	SPI Command SPIGET

Table 366. (continued)

Len	Type	value	Name	Description
4	DECIMAL	6	POS_RC_SPIOPEN	SPI Command SPIOPEN
Function Request codes used by adapter stubs. The high order byte is the reason code position, the rest of the word defines the request code.				
4	DECIMAL	100663297	STUB_OPEN	
4	DECIMAL	83886082	STUB_CLOSE	
4	DECIMAL	150994947	STUB_GETMSG	
4	DECIMAL	134217732	STUB_PUTMSG	
4	DECIMAL	134217733	STUB_PUTONE	
4	DECIMAL	167772166	STUB_INQ	
4	DECIMAL	184549383	STUB_INQL	
4	DECIMAL	167772168	STUB_SET	
4	DECIMAL	167772201	STUB_CONVRT	
4	DECIMAL	11	STUB_PREPARE	
4	DECIMAL	50331660	STUB_COMMIT	
4	DECIMAL	50331661	STUB_BACKOUT	
4	DECIMAL	50331661	STUB_ROLLBACK	old synonym
4	DECIMAL	67108886	STUB_SETCTX	
4	DECIMAL	67108887	STUB_ENDCTX	
4	DECIMAL	50331659	XTUB_PREP	
4	DECIMAL	50331664	XTUB_RCMT	
4	DECIMAL	50331665	XTUB_RBAK	
4	DECIMAL	50331663	XTUB_IIND	
4	DECIMAL	100663333	XTUB_UPAC	
4	DECIMAL	184549395	STUB_ICLU	
4	DECIMAL	83886100	STUB_RM5F	
4	DECIMAL	83886101	STUB_CUWT	
4	DECIMAL	67108889	STUB_SER	
4	DECIMAL	50331674	STUB_UNSR	
4	DECIMAL	27	STUB_XA_CLOSE	XA client close Appl
4	DECIMAL	28	STUB_XA_COMMIT	XA client commit UoW
4	DECIMAL	29	STUB_XA_COMPLETE	XA client test asynch op
4	DECIMAL	30	STUB_XA_END	XA client end UoW
4	DECIMAL	31	STUB_XA_FORGET	XA client end UoW

Table 366. (continued)

Len	Type	value	Name	Description
4	DECIMAL	32	STUB_XA_OPEN	XA client start Appl
4	DECIMAL	33	STUB_XA_PREPARE	XA client prepare UoW
4	DECIMAL	34	STUB_XA_RECOVER	XA client inquire in-doubt
4	DECIMAL	35	STUB_XA_ROLLBACK	XA client backout UoW
4	DECIMAL	36	STUB_XA_START	XA client begin UoW
4	DECIMAL	150994982	STUB_SPIPUT	
4	DECIMAL	67108903	STUB_SPIACT	
4	DECIMAL	167772200	STUB_SPIGET	
4	DECIMAL	100663338	STUB_SUB	
4	DECIMAL	83886123	STUB_SUBRQ	
4	DECIMAL	100663340	STUB_CB	
4	DECIMAL	83886125	STUB_CTL	
4	DECIMAL	83886126	STUB_STAT	
4	DECIMAL	100663343	STUB_SPIOPEN	
Extra request codes used by some Adapter stubs (not used in QRPL)				
4	DECIMAL	65536	QRPL_CONN	CPI command MQCONN
4	DECIMAL	65540	QRPL_CONNX	CPI command MQCONNX
4	DECIMAL	65537	QRPL_DISC	CPI command MQDISC
4	DECIMAL	65538	QRPL_XWAIT	CPI command MQXWAIT
4	DECIMAL	65539	QRPL_XCNVC	CPI command MQXCNVC
4	DECIMAL	65540	QRPL_ITRUE	CICS API inquire TRUE
4	DECIMAL	67174400	STUB_CONN	
4	DECIMAL	83951620	STUB_CONNX	
4	DECIMAL	50397185	STUB_DISC	
4	DECIMAL	67174402	STUB_XWAIT	
4	DECIMAL	184614915	STUB_XCNVC	
4	DECIMAL	50397188	XTUB_ITRUE	
4	DECIMAL	100663320	STUB_XDX	

MQTHD CICS-MQ Life of Thread block

```
CONTROL BLOCK NAME = DFHMQTHD (previously CSQCTHD when in MQ)
DESCRIPTIVE NAME  = CICS Life of Thread block

Restricted Materials of IBM

FUNCTION =
     Contains the storage relevant to a CICS task communicating
     with a given MQ subsystem.
LIFETIME =
     The CTHD for the default connection is contained in the
     CLOT block, any other (currently none) CTHDs will be chained
     from the default CTHD.
     The block is formatted as a CTHD on the first call by this
     task.
STORAGE CLASS =
     CICS task storage.
LOCATION =
     The CTHDs are anchored in CLOT.
OTHER CONTROL BLOCKS - None
 RESTRICTIONS - None
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
   L0 LID001 100 911031 BC : Part of Original Design
   P1 67106 531 021106 RFB : Define flag bytes
-------------------------------------------------------------------
```

Table 367.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	136	DFHMQTHD	
(0)	CHARACTER	16	CTHDHDR	
(0)	UNSIGNED	2	SCBLEN	Control block length
(2)	CHARACTER	14	EYECATCHER	>DFHMQTHD
(10)	HALFWORD	2	THDSTATUS	Thread status. X'01' - Terminated. X'02' - IOWAIT. X'04' - MSGWAIT. X'08' - Forced Purged. X'10' - Running (in the TRUE).
(12)	BIT(16)	2	THDFLAGS	Flags
	1...		FTHDCHAINED	CTHD chained to CLOC
(14)	CHARACTER	8	TASKCHN	chain of CTHD blocks for this task will be null if the CICS task only has the default connection
(14)	ADDRESS	4	PNEXT	Next CTHD for this task
(18)	ADDRESS	4	PPREV	Previous CTHD for this task

Table 367. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	CHARACTER	8	CONNCHN	chain of CTHD blocks for this connection. Anchored in the CLOC control block.
(1C)	ADDRESS	4	PNEXT	Next CTHD for this connection
(20)	ADDRESS	4	PPREV	Previous CTHD for this connection
(24)	CHARACTER	48	THREADCTRL	
(24)	ADDRESS	4	PPARENTCLOT	Address of CLOT which owns this
(28)	UNSIGNED	4	HTHREAD	Thread identifier for this CICS Task.
(2C)	CHARACTER	4	ECBRESUME	ECB to be used by MMC
(30)	CHARACTER	4	ECBSWITCH	ECB to be used by server subtask
(34)	CHARACTER	16	QUEUEDQRPL	Block to hold QRPL for queueing
(34)	ADDRESS	4	PNEXTITEM	
(38)	ADDRESS	4	PTHISITEM	
(3C)	ADDRESS	4	PSERVINGTCB	
(40)	ADDRESS	4	PTCAECB	
(44)	ADDRESS	4	PFIRSTSEB	ptr to 1st blk of get-signal ECBs to be posted when Victory abends
(48)	ADDRESS	4	PLASTSEB	ptr to last blk of get-signal ECBs to be posted when Victory abends
(4C)	FULLWORD	4	CNOOFSEB	count of number of get-signal ECBs
(50)	UNSIGNED	4	FACTIVEAPI	current API in progress
(54)	ADDRESS	4	PDEFQRPL	pointer to the QRPL
(58)	CHARACTER	48	DEFFRB	FRB

Table 367. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	CHARACTER	32	FRBUSER	
(58)	CHARACTER	4	FRBID	
(5C)	HALFWORD	2	FRBRALE	
(5E)	HALFWORD	2	FRBFVLE	
(60)	CHARACTER	6	FRBPARMS	
(60)	ADDRESS	4	FRBPARM	
(64)	HALFWORD	2	FRBPCNT	
(66)	HALFWORD	2	FRBRC1	
(68)	UNSIGNED	4	FRBRC2	
(6C)	ADDRESS	4	FRBFBACK	
(70)	UNSIGNED	4	FRBRHPC	
(74)	HALFWORD	2	FRBQUAL	
(76)	UNSIGNED	1	FRBUFLGS	
	1...		FRBCHOLD	
	.1..		FRBCDCAC	
	..1.		FRBCDCSG	
	...1		FRBCONN	
	 1111		*	
(77)	UNSIGNED	1	FRBRSV1	
(78)	CHARACTER	0	FRBLEN	
(78)	CHARACTER	16	FRBSYS	
(78)	ADDRESS	4	FRBRAL	
(7C)	ADDRESS	4	FRBEB	
(80)	CHARACTER	4	FRBSUSE	
(80)	BIT(8)	1	FRBSFLGS	
	1...		FRBUDATA	
	.1..		FRBNDUMP	
	..11 1111		*	
(81)	CHARACTER	3	*	
(84)	ADDRESS	4	FRBAGNT	
(88)	CHARACTER	0	FRBLENS	
(88)	CHARACTER	0	FRBLENT	
(88)	CHARACTER	0	END_DFHMQTHD	End of this block.

Constants

Table 368.

Len	Type	value	Name	Description
14	CHARACTER	>DFHMQTHD	CTHD_ID	
2	DECIMAL	1	CTHD_TERMINATED	End_threaded
2	DECIMAL	2	CTHD_IOWAIT	Waiting for I/O
2	DECIMAL	4	CTHD_GETWAIT	Waiting for msg
2	DECIMAL	8	CTHD_PURGED	Forced Purged
2	DECIMAL	16	CTHD_RUNNING	Normal running

NQA Enqueue Domain Anchor Block

```
!:refstep.nqa_declaration ----------------------------- DFHNQNQ 470 -
!
!
! NQ domain anchor block (NQA)
!
! This control block contains the global storage for the NQ domain.
!
!--------------------------------------------------------------------
```

Table 369.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	112	NQA	
(0)	CHARACTER	16	NQA_PREFIX	
(0)	UNSIGNED	2	NQA_LENGTH	Control block length
(2)	CHARACTER	14	NQA_EYECATCHER	DFHNQANCHOR
(10)	CHARACTER	12	NQA_CHAIN_ POINTERS	
(10)	ADDRESS	4	NQA_FIRST_POOL	Head of pool chain
(14)	ADDRESS	4	NQA_FIRST_ BROWSE	Head of browse chain
(18)	ADDRESS	4	NQA_NQRNAME_ LIST	Head of nqrname list
(1C)	CHARACTER	32	NQA_SUBPOOLS	
(1C)	CHARACTER	8	NQA_GENERAL_ SUBPOOL	
				General subpool token
(24)	CHARACTER	8	NQA_NQPL_ SUBPOOL	NQPL subpool token
(2C)	CHARACTER	8	NQA_NQEA_ SUBPOOL	NQEA subpool token
(34)	CHARACTER	8	NQA_NQRN_ SUBPOOL	NQRN subpool token
(3C)	CHARACTER	8	NQA_LOCKS	
(3C)	ADDRESS	4	NQA_DOMAIN_LOCK	Domain lock token

Table 369. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	ADDRESS	4	NQA_NQRNAME_LOCK	nqrname lock token
(48)	CHARACTER	16	NQA_STATISTICS	
(48)	ADDRESS	4	NQA_STATS_BUFFER_PTR	
				Address of statistics buffer
(4C)	ADDRESS	4	NQA_STATS_BUFFER_LEN	
				Length of statistics buffer
(50)	CHARACTER	8	NQA_LAST_RESET_TIME	
				Time of last statistics reset
(58)	CHARACTER	20	NQA_MISCELLANEOUS	
(58)	UNSIGNED	1	NQA_STATE	Enqueue domain state
(59)	CHARACTER	1	NQA_FLAGS	Flags
	1...		NQA_XRSINDI_ACTIVE	
				Xrsindi exit active
	.111 1111		*	Reserved
(5A)	CHARACTER	2	*	Reserved
(5C)	FULLWORD	4	NQA_NUM_ENQUEUE_POOLS	
				Number of enqueue pools
(60)	ADDRESS	4	NQA_DEFAULT_INTERPRETER	
				Addr of default interpreter routine
(64)	CHARACTER	4	NQA_NQRN_DIRECTORY	
				NQRN directory token
(68)	ADDRESS	4	NQA_DISPATCHER_POOL	
				Addr of dispatcher pool
(70)	CHARACTER	0	NQA_END	Round to dword

Constants

Table 370.

Len	Type	value	Name	Description
---------- Enumerated values for nqa_state ----------				
1	DECIMAL	1	NQA_INITIALISING	
1	DECIMAL	2	NQA_INITIALISED	
1	DECIMAL	3	NQA_QUIESCING	
1	DECIMAL	4	NQA_QUIESCED	
1	DECIMAL	5	NQA_TERMINATING	
1	DECIMAL	6	NQA_TERMINATED	

NQB Enqueue Domain Browse Element

```
!:refstep.nqb_declaration ---------------------------- DFHNQIB 230 -
!
!
! NQ domain browse element (NQB)
!
! This control block represents a single enqueue browse. One of
! these control blocks exists for each enqueue browse that is in
! progress.
!
! NQBs are chained together in a singularly linked list. The head of
! the list is in the NQA (anchor block).
!
!-------------------------------------------------------------------
```

Table 371.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	NQB	
(0)	CHARACTER	88	NQB_PREFIX	
(0)	UNSIGNED	2	NQB_LENGTH	Control block length
(2)	CHARACTER	14	NQB_EYECATCHER	DFHNQBROWSE
(10)	ADDRESS	4	NQB_NEXT_ BROWSE_ELEMENT	
				Next browse element
(14)	ADDRESS	4	NQB_RMWT_ BROWSE_TOKEN	
				Browse token of underlying RMWT browse
(18)	BIT(8)	1	NQB_FLAGS	
	1...		NQB_STABLE_ ENQUEUES	
				Stable enqueues specified

Table 371. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		NQB_ENQSCOPE	Enqscope specified
(19)	CHARACTER	1	*	Reserved
(1A)	UNSIGNED	2	NQB_NAME_LENGTH	Length of name filter
(1C)	CHARACTER	4	NQB_SCOPE_ FILTER	Enqscope filter
(20)	CHARACTER	8	NQB_UOWID_ FILTER	Local uowid if browse filtered or nulls if not
(28)	CHARACTER	8	NQB_CURRENT_ UOWID	Local uowid of current UOW in RMWT browse
(30)	ADDRESS	4	NQB_CURRENT_ UOW_TOKEN	
				UOW token of current UOW in RMWT browse
(34)	ADDRESS	4	NQB_OWNER_ EXTENSION	
				Address of owner history extension for current UOW
(38)	ADDRESS	4	NQB_WAITER_ EXTENSION	
				Address of waiter history extension
(3C)	ADDRESS	4	NQB_CURRENT_ ENQUEUE_OWNER	
				UOW token of current enqueue being returned
(40)	ADDRESS	4	NQB_STABLE_NQEA	Last enq returned by STABLE_ENQUEUES browse
(44)	CHARACTER	4	NQB_BROWSING_ TRANID	
				Transaction id of txn performing the browse
(48)	CHARACTER	4	NQB_BROWSING_ TRANNUM	
				Transaction number of txn performing the browse

Table 371. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	CHARACTER	8	NQB_BROWSING_ TXN_TOKEN	
				Transaction token of txn performing the browse
(54)	ADDRESS	4	NQB_HASH_ EXTENSION	
				Hash table ptr
(58)	CHARACTER	*	NQB_NAME_FILTER	Name filter

NQEA Enqueue Domain Queue Element Area

```
!:refstep.nqea_declaration ---------------------------- DFHNQNQ 692 -
!
!
! Queue Element Area (NQEA)
!
! A single NQEA is used to represent each resource that is currently
! enqueued upon. Tasks waiting to gain control of a resource are
! also represented by an NQEA. A flag indicates whether the NQEA
! represents the resource owner or a task that is waiting for that
! resource.
!
! Another flag indicates the scope (region or sysplex) of the
! enqueue.
!
! Both owning and waiting NQEAs are chained from the 'NQ' work token
! in the UOW associated with them. Owning NQEAs are chained from the
! hash table in the NQPL (Enqueue Pool) that the resource belongs
! to. Waiting NQEAs are chained from the owning NQEA in FIFO order.
!
! NQEAs that aren't in use are placed on a free chain anchored from
! their associated NQPL.
!
!--------------------------------------------------------------------
```

Table 372.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	NQEA	
(0)	CHARACTER	4	NQEA_PREFIX	
(0)	CHARACTER	4	NQEA_EYECATCHER	NQEA
(4)	CHARACTER	4	*	Overlaid fields
(4)	ADDRESS	4	NQEA_UOW_NEXT	Pointer to next NQEA owned or being waited on by UOW
(4)	ADDRESS	4	NQEA_NEXT_FREE	Next NQEA if on free chain
(8)	ADDRESS	4	NQEA_HASH_PREV	Previous NQEA on hash collision chain

Table 372. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	ADDRESS	4	NQEA_HASH_NEXT	Next NQEA on hash collision chain
(10)	CHARACTER	16	NQEA_CLEARED_FIELDS	
				Fields to cleared
(10)	ADDRESS	4	NQEA_NEXT_WAITER	Chain of NQEAs waiting for this resource. Head of chain is the current owner
(14)	BIT(8)	1	NQEA_CLEARED_FLAGS1	
				Various flags
	1...		NQEA_WAITER	0=owner , 1=waiter
	.1..		NQEA_RETAINED	0=active enqueue , 1=retained enqueue
	..1.		NQEA_SHUNT_OVERRIDE	
				0=use default shunt action 1=use override
	...1		NQEA_RESUME_REQUIRED	
				0=resume issued/not needed 1=resume required
	.... 1...		NQEA_NAME2_SUPPLIED	
				0=enqueue_name1 parm only 1=enqueue_name2 aswell
	.... .1..		NQEA_LONG_NAME	0=name length <= 256 chars 1=name length > 256
	.... ..1.		NQEA_OWNER_SHUNTED	
				0=owning uow not shunted 1=owning uow shunted
	1		NQEA_RESUME_FOR_LOCKED	

Table 372. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				0=no locked resume issued 1=resume because locked
(15)	BIT(8)	1	NQEA_CLEARED_FLAGS2	
				Various flags
	1...		NQEA_SYSPLEX_SCOPE	
				0=Region scope 1=Sysplex scope
	.1..		NQEA_SYSENQ_WAITING	
				0=not waiting 1=waiting Sysplex ENQ
	..1.		NQEA_SYSENQ_GRANTED	
				0=not granted 1=MVS enq granted
	...1 1111		*	Reserved
(16)	CHARACTER	2	*	Reserved
(18)	ADDRESS	4	NQEA_NQRMODEL_POINTER	
				Waiting nqrmodel
(1C)	FULLWORD	4	NQEA_TRANSACTION_COUNT	
				Number of times held with transaction duration
(20)	FULLWORD	4	NQEA_UOW_COUNT	Number of times held with UOW duration
(24)	CHARACTER	8	*	UOW associated with this owning/waiting NQEA
(24)	ADDRESS	4	NQEA_OWNER	Normally owner is kernel task addr
(24)	CHARACTER	8	NQEA_SHUNTED_OWNER	
				If owner shunted then owner is the local uowid

Table 372. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	FULLWORD	4	NQEA_HASH_VALUE	Hash value of enqueue name
(30)	CHARACTER	4	NQEA_SUSPEND_TOKEN	Suspend token if requester needs to wait
(34)	UNSIGNED	1	NQEA_SHUNT_ACTION_OVERRIDE	
				Current shunt action if default has been overriden
(35)	BIT(8)	1	NQEA_PERMANENT_FLAGS	
				Flags that aren't cleared
	1...		NQEA_QUICKCELLABLE	
				Eligible to be quickcelled
	.1..		NQEA_MVS_GETMAINED	
				Storage obtained from MVS
	..11 1111		*	Reserved
(36)	CHARACTER	2	*	Reserved
(38)	FULLWORD	4	NQEA_LOCKED_FAILURES	
				Number of times locked returned for this enqueue. Only valid when enqueue is in retained state
(3C)	FULLWORD	4	*	Reserved
(40)	CHARACTER	8	*	Overlaid fields
(40)	CHARACTER	8	NQEA_ACTIVE_START_TIME	
				Time enqueue obtained
(40)	CHARACTER	8	NQEA_WAIT_START_TIME	
				Time enqueue wait started if waiting
(40)	CHARACTER	8	NQEA_RETAINED_START_TIME	

Table 372. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Time enqueue went into retained state if retained
(48)	ADDRESS	4	NQEA_POOL_ POINTER	NQPL that NQEA belongs to
(4C)	FULLWORD	4	NQEA_NAME2_ LENGTH	Length of enqueue_name2 parameter if supplied
(50)	CHARACTER	4	NQEA_ENQSCOPE	MVS enqscope name
(54)	CHARACTER	4	NQEA_SYSENQ_ECB	ECB used for ENQ macro@L1A
(58)	CHARACTER	4	NQEA_HASHMARK	Word which precedes name
(58)	FULLWORD	4	NQEA_NAME_ LENGTH	Length of enqueue name
(5C)	CHARACTER	*	NQEA_NAME	Start of Enqueue name

Constants

Table 373.

Len	Type	value	Name	Description
---------- Length of fixed part of NQEA ----------				
4	DECIMAL	92	NQEA_FIXED_LENGTH	

NQOX Enqueue Domain Browse Owner Extension

```
!:refstep.nqox_declaration ---------------------------- DFHNQIB 280 -
!
!
! NQ domain browse owner extension (NQOX)
!
! This variable length vector is used to maintain a history of the
! enqueues names returned so far in the browse.
!
! The start of the vector is used to store some names permanently
! for the duration of the browse.
!
! After the permanent records are names that are stored temporarily
! for the current UOW in the browse.
!
! The NQOX is addressed from the NQB (browse element) of the browse
! it relates to.
!
!-------------------------------------------------------------------
```

Table 374.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	NQOX	
(0)	CHARACTER	16	NQOX_PREFIX	
(0)	FULLWORD	4	NQOX_LENGTH	Control block length
(4)	CHARACTER	12	NQOX_EYECATCHER	'NQOXNQOWNERX'
(10)	ADDRESS	4	NQOX_SPARE_ NAME_STG_PTR	
				Address of spare name block storage
(14)	FULLWORD	4	NQOX_SPARE_ NAME_STG_LEN	
				Length of spare name block storage
(18)	FULLWORD	4	NQOX_MAXIMUM_ SLOTS	Number of slots in this extension
(1C)	FULLWORD	4	NQOX_TEMP_ SLOTS_USED	
				Number of temporary slots currently in use
(20)	FULLWORD	4	NQOX_PERM_ SLOTS_USED	
				Number of permanent slots in use for enqueues whose owner changed mid browse
(24)	CHARACTER	4	*	Reserved
(28)	CHARACTER	20	NQOX_OWNER_SLOT (*)	
(28)	ADDRESS	4	NQOX_ENQUEUE_ OWNER	
				UOW token of enqueue owner
(2C)	ADDRESS	4	NQOX_ENQUEUE_ POOL	Addr of enqueue pool
(30)	FULLWORD	4	NQOX_ENQUEUE_ NAME_LEN	
				Length of enqueue name
(34)	ADDRESS	4	NQOX_ENQUEUE_ NAME_PTR	
				A(enq name copy)

Table 374. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	FULLWORD	4	NQOX_NEXT_HASH	Index into array

Table 375.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	NQHX	
(0)	CHARACTER	16	NQHX_PREFIX	
(0)	FULLWORD	4	NQHX_LENGTH	Control block len
(4)	CHARACTER	12	NQHX_EYECATCHER	HDRHNQHASHX
(10)	CHARACTER	*	NQHX_ELEMENT_PTRS	hash table
(10)	ADDRESS	4	NQHX_ELEMENT_PTR (*)	hash table array

Constants

Table 376.

Len	Type	value	Name	Description
---------- Default number of slots ----------				
4	DECIMAL	16	NQOX_DEFAULT_MAX_SLOTS	
4	DECIMAL	1000	NQHX_HASH_SIZE	

NQPL Enqueue Domain Enqueue Pool

```
!:refstep.nqpl_declaration ---------------------------- DFHNQNQ 528 -
!
!
! Enqueue Pool control block (NQPL)
!
! This control block represents a single enqueue pool. One of these
! control blocks exists for each enqueue pool that is created.
!
! NQPL_SYSPLEX_SCOPE has been added to record the scope of enqueues
! in this pool.
!
! NQPLs are chained together in a singularly linked list. The chain
! is ordered alphabetically by pool name. The head of the list is in
! the NQA.
!
! For performance reasons the NQPL is divided into three separate
! separate sections. Ensure that new fields are added to the correct
! section of the control block.
!
!--------------------------------------------------------------------
```

Table 377.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	384	NQPL	

Table 377. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	64	NQPL_SECTION_1	Performance sensitive
(0)	CHARACTER	4	NQPL_PREFIX	
(0)	CHARACTER	4	NQPL_EYECATCHER	NQPL
(4)	CHARACTER	8	NQPL_POOL_NAME	Name of enqueue pool
(C)	ADDRESS	4	NQPL_DOMAIN_LOCK_COPY	
				NQ domain lock token
(10)	CHARACTER	8	NQPL_FREE_NQEA_CHAIN	
				NQEA free chain
(10)	FULLWORD	4	NQPL_FIRST_CDS_COUNT	
				Free NQEA CDS count
(14)	ADDRESS	4	NQPL_FIRST_FREE_NQEA	
				First free NQEA for this pool
(18)	FULLWORD	4	NQPL_QUICKCELL_NAME_LENGTH	
				Max length of name in quickcelled NQEAs
(1C)	FULLWORD	4	NQPL_HASH_MASK	Masks hash value down to table index
(20)	FULLWORD	4	NQPL_HASH_CONSTANT	
				Hashing constant
(24)	CHARACTER	28	NQPL_STATISTICS_1	Mainline statistics
(24)	FULLWORD	4	NQPL_TOTAL_REQUESTS	
				Number of enqueue requests in this pool
(28)	FULLWORD	4	NQPL_TOTAL_BUSY	Number of times 'busy' returned
(2C)	FULLWORD	4	NQPL_TOTAL_WAITED	

Table 377. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Number of requests that have completed after waiting
(30)	CHARACTER	8	NQPL_TOTAL_ WAITED_TIME	
				Time spent waiting by completed requests that waited.
(38)	CHARACTER	8	*	Pad to 64 byte boundary
(40)	CHARACTER	256	NQPL_SECTION_2	Hash table section
(40)	ADDRESS	4	NQPL_HASH_TABLE (0-63)	
(140)	CHARACTER	64	NQPL_SECTION_3	Non performance sensitive data
(140)	ADDRESS	4	NQPL_NEXT_POOL	Next pool in the chain
(144)	CHARACTER	1	NQPL_MISCELLANEOUS	
(144)	UNSIGNED	1	NQPL_DEFAULT_ SHUNT_ACTION	
				Default action on shunt for enqueues in this pool
(145)	UNSIGNED	1	NQPL_ERROR_ LEVEL	Severity of response for errors using pool
(146)	UNSIGNED	1	NQPL_FLAGS1	miscellaneous flags
	1...		NQPL_SYSPLEX_ SCOPE	
				1=SYSPLEX scope, 0=REGION scope
	.1..		NQPL_DISPATCHER_ TASK	
				1=DISPATCHER task, 0=UOW task
	..11 1111		*	Reserved
(147)	CHARACTER	5	*	Reserved
(14C)	CHARACTER	4	*	Reserved

Table 377. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(150)	CHARACTER	8	NQPL_ENQUEUE_ INTERPRETATION	
(150)	UNSIGNED	1	NQPL_EXEC_ INTERPRETER	
				How enqueues are to be interpreted by INQUIRE UOWENQ command
(151)	UNSIGNED	1	NQPL_DEFAULT_ TYPE	
				TYPE to be returned on INQUIRE UOWENQ by default interpreter only
(152)	CHARACTER	2	*	Reserved
(154)	ADDRESS	4	NQPL_INTERPRETER_ ADDR	
				Addr of interpreter routine for this pool
(158)	CHARACTER	40	NQPL_STATISTICS_ 2	Non mainline statistics
(158)	FULLWORD	4	NQPL_TOTAL_ LOCKED_IMMED	
				Number of times 'locked' returned immediately
(15C)	FULLWORD	4	NQPL_TOTAL_ LOCKED_WAITED	
				Number of times 'locked' returned after wait
(160)	FULLWORD	4	NQPL_TOTAL_ PURGED_CANCELLED	
				Number of times enqueue waiter cancelled
(164)	FULLWORD	4	NQPL_TOTAL_ PURGED_TIMED_OUT	
				Number of times enqueue waiter timed out
(168)	FULLWORD	4	NQPL_TOTAL_ RETAINED	

Table 377. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Number of enqueues that HAVE been held in retained state
(16C)	CHARACTER	8	NQPL_TOTAL_ RETAINED_TIME	
				Time that enqueues were held in retained state
(174)	FULLWORD	4	NQPL_GLOBAL_ WAITED	
				Number of requests that have completed after wait for sysplex ENQ.
(178)	CHARACTER	8	NQPL_GLOBAL_ WAITED_TIME	
				Time spent waiting by completed requests that waited for sysplex ENQ.
(180)	CHARACTER	0	NQPL_END	Round to dword

Constants

Table 378.

Len	Type	value	Name	Description
---------- Constant hash table size ----------				
4	DECIMAL	64	NQPL_HASHSIZE	
4	DECIMAL	63	NQPL_HASHSIZE_ MINUS_1	
4	NUMB HEX	0000003F	NQPL_HASH_MASK_VALUE	
---------- Hash constant value ----------				
4	NUMB HEX	71824361	NQPL_HASH_ CONSTANT_VALUE	
---------- Enumerated values for nqpl_default_shunt_action ----------				
1	DECIMAL	1	RELEASE_ENQUEUE	
1	DECIMAL	2	RETAIN_ENQUEUE	
1	DECIMAL	3	IGNORE_SHUNT	

Table 378. (continued)

Len	Type	value	Name	Description
---------- Enumerated values for nqpl_error_level ----------				
1	DECIMAL	1	NQPL_RETURN_ EXCEPTION	
1	DECIMAL	2	NQPL_RETURN_INVALID	
---------- Enumerated values for nqpl_exec_interpreter ----------				
1	DECIMAL	1 :c 4.NQPL_NO_INTERPRETATION		
1	DECIMAL	2	NQPL_DEFAULT_ INTERPRETATION	
1	DECIMAL	3	NQPL_OWN_INTERPRETER	
---------- Enumerated values for nqpl_default_type ----------				
1	DECIMAL	1	NQPL_TYPE_DATASET	
1	DECIMAL	2	NQPL_TYPE_EXECENQ	
1	DECIMAL	3	NQPL_TYPE_ EXECENQADDR	
1	DECIMAL	4	NQPL_TYPE_ EXECENQPLEX	
1	DECIMAL	5	NQPL_TYPE_FILE	
1	DECIMAL	6	NQPL_TYPE_TDQUEUE	
1	DECIMAL	7	NQPL_TYPE_TSQUEUE	
1	DECIMAL	8	NQPL_TYPE_DISPATCHER	

NQWX Enqueue Domain Browse Waiter Extension

```
!:refstep.nqwx_declaration ---------------------------- DFHNQIB 335 -
!
!
! NQ domain browse waiter extension (NQWX)
!
! This variable length vector is used to maintain a history of the
! UOW's that have so far been returned as waiters for the current
! enqueue in the browse.
!
! The NQWX is addressed from the NQB (browse element) of the browse
! it relates to.
!
!--------------------------------------------------------------------
```

Table 379.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	NQWX	
(0)	CHARACTER	16	NQWX_PREFIX	

Table 379. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	FULLWORD	4	NQWX_LENGTH	Control block length
(4)	CHARACTER	12	NQWX_EYECATCHER	HEAHNQWAITERX
(10)	FULLWORD	4	NQWX_MAXIMUM_SLOTS	Number of slots in this extension
(14)	FULLWORD	4	NQWX_SLOTS_USED	Number of in-use slots
(18)	CHARACTER	8	NQWX_WAITER_SLOT (*)	
(18)	CHARACTER	8	NQWX_ENQUEUE_WAITER	Local uowid of waiter

Constants

Table 380.

Len	Type	value	Name	Description
---------- Default number of slots ----------				
4	DECIMAL	16	NQWX_DEFAULT_MAX_SLOTS	

OTANC Object Transaction Service Domain anchor block

```
!:refstep.OTDM_Class_Declaration ---------------------- DFHOTDM 697 -
!
!
! The OTDM Class declaration contains the signatures for the methods
! and the declaration of the instance data. The instance data
! structure is the OT Domain anchor block.
!
!--------------------------------------------------------------------
```

Table 381.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	1024	OTDM	
!:refstep.OTDM_Instance_Data ------------------------- DFHOTDM 735 - ! ! This structure is the global data for the OT Domain. ! !----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	1024	INSTANCE_DATA_BLOCK	
(0)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	OTDM_EYE_CATCHER	Eyecatcher

Table 381. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	UNSIGNED Prot	2	EYE_LEN	object length
(2)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxxx'
(10)	UNSIGNED Publ	1	OTDM_STATE	State
(11)	CHARACTER Prot	3	*	Reserved
(14)	CHARACTER Publ	8	OTDM_SUBPOOL	Subpool Token
(1C)	OBJECT Prot IsA(RMCLM)	144	OTDM_CLASS_ MANAGER	
				Class Manager
(1C)	CHARACTER Prot	144	INSTANCE_ DATA_BLOCK	
(1C)	CHARACTER Prot	4	NAME (12)	class name
(4C)	ADDRESS Prot	4	INITIALISER (12)	class initialising proc
(7C)	ADDRESS Prot	4	DATA (12)	class data address
(AC)	CHARACTER Prot	8	*	reserved

Constants

Table 382.

Len	Type	value	Name	Description
!:refstep.OTDM_Classes ------------------------------- DFHOTDM 87 - ! ! Declare a constant for the number of classes that the class ! manager can handle. This includes a few spare in addition to those ! currently required. ! ! Identify the classes managed by the class manager and some spares. ! ! Specify the order in which the classes are initialised by the ! class manager. ! !--				
4	DECIMAL	12	RMCLM_MAX_CLASS	Capacity of the Class Mgr
OT Classes identified by constant dcl otxx_classid isa(rmclm_class_id) constant(1) public;				
4	DECIMAL	2	OTVP_CLASSID	
4	DECIMAL	3	OTIS_CLASSID	
4	DECIMAL	4	OTRP_CLASSID	

Table 382. (continued)

Len	Type	value	Name	Description
Number of OT classes				
4	DECIMAL	3	OTDM_NUM_CLASSES	
!:erefstep.OTDM_Classes ---------- persistent name and persistent type				
8	CHARACTER	DFHOTDM	OTDM_PTYPE	
16	CHARACTER	DFHOTDM_ANCHOR	OTDM_PNAME	
states				
4	DECIMAL	1	OTDM_INITIALISING	
4	DECIMAL	2	OTDM_INITIALISED	
4	DECIMAL	3	OTDM_QUIESCING	
4	DECIMAL	4	OTDM_QUIESCED	
4	DECIMAL	5	OTDM_TERMINATING	
4	DECIMAL	6	OTDM_TERMINATED	
4	DECIMAL	1	RMCLM_OK	

PAA Parameter Manager Domain Anchor Block

```
Segment Name= DFHPAA
DESCRIPTIVE NAME  = CICS Parameter Manager (PA) Domain
                    Control Block declarations.

Restricted Materials of IBM

Function =
     This file contains the control block and constant
     declarations used by the Parameter Manager domain.
     The file is included by each Parameter Manager domain
     module.
     The control blocks are:
         DFHPAA - PA Anchor block.
         PARM_SAVE_AREA - PA Override Save Area.
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = domain standard (no special usage)
 Patch Label = N/A
 Module Type = N/A
 Attributes = N/A
-------------------------------------------------------------------
PA domain Anchor Block storage definition
```

Table 383.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	80	DFHPAA	Anchor block
(0)	CHARACTER	16	PAA_PREFIX	Standard header
(0)	HALFWORD	2	PAA_LENGTH	Length of anchor block
(2)	CHARACTER	1	PAA_ARROW	Eyecatcher
(3)	CHARACTER	3	PAA_DFH	Eyecatcher

Table 383. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6)	CHARACTER	2	PAA_DOMID	Domain Id
(8)	CHARACTER	8	PAA_BLOCK_NAME	Control block name
(10)	BIT(8)	1	PAA_DM_FLAGS	- Set by DFHPADM
	1...		CC_RECORD_ FOR_PA	Catalog record obtained?
	.1..		END_KEYWORD_ FOUND	Indicates if .END input
	..1.		PADM_ERROR_ RECOVERY	Error recovery entered
	...1		MORE_TO_ANALYSE	Unanalysed parms exist?
	.... 1...		INVALID_DATA	Inv. data found in DFHPASY
	.... .1..		SIT_LOADED	Indicates SIT been loaded
	.... ..1.		START_ALL	
	1		*	Spare
(11)	BIT(8)	1	PAA_IO_FLAGS	- Set by DFHPAIO
	1...		CONSOLE_FLAG	Input parms via Console?
	.1..		SYSIN_FLAG	Input parms via Sysin?
	..1.		SYSIN_EOF	Sysin end-of-file indicator
	...1		SYSIN_STATUS	Sysin open or closed?
	.... 1...		CONSOLE_ FIRST_RECORD	1st rec read from Console
	.... .1..		SYSIN_FIRST_ RECORD	1st record read from Sysin
	.... ..1.		OPENING_SYSIN	Footprints Sysin opening
	1		SYSIN_SAVED	Sysin saved in storage
(12)	BIT(8)	1	PAA_MORE_ IO_FLAGS	- Set by DFHPAIO
	1...		BRACKET_FOUND	Bracketted data flag

Table 383. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		QUOTE_FOUND	Quoted string flag
	..1.		MIXED_CASE	Mixed-case operand
(13)	UNSIGNED	1	START_SPECIFIED	Type of start
(14)	CHARACTER	8	SITNAME	Name of the loaded SIT
(14)	CHARACTER	6	*	Always DFHSIT
(1A)	CHARACTER	2	SIT_SUFFIX	Suffix of loaded SIT
(1C)	ADDRESS	4	PARM_SAVE_AREA_0	-> Override save area
(20)	ADDRESS	4	OVERRIDE_STORE_H	-> Temp stg for overrides
(24)	FULLWORD	4	OVERRIDE_STORE_L	Length of overrides so far
(28)	ADDRESS	4	ERRA_PTR	-> Kernel recovery area
(2C)	ADDRESS	4	SIT_PTR	-> SIT DSECT
(30)	ADDRESS	4	PASY_EP_PTR	-> DFHPASY entry point
(34)	CHARACTER	4	CATALOG_RECORD	PA catalog record
(38)	CHARACTER	8	APPLID	Applid for messages
(40)	CHARACTER	16	SYSIN_POINTERS	Chain of SYSIN records
(40)	ADDRESS	4	FIRST_POOL	-> First buffer pool
(44)	ADDRESS	4	CURRENT_POOL	-> Current buffer pool
(48)	ADDRESS	4	FIRST_REC	-> First record
(4C)	ADDRESS	4	CURRENT_REC	-> Current record
(50)	CHARACTER	0	*	End of PA anchor block

Parameter Manager Override Save Area

Table 384.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	PARM_SAVE_AREA	PA Override Save Area
(0)	CHARACTER	16	PARM_SAVE_PREFIX	Standard header
(0)	HALFWORD	2	PARM_SAVE_AREA_SIZE	

Table 384. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Length of parm save area
(2)	CHARACTER	1	PARM_SAVE_ARROW	Eyecatcher
(3)	CHARACTER	3	PARM_SAVE_DFH	Eyecatcher
(6)	CHARACTER	2	PARM_SAVE_DOMID	Domain Id
(8)	CHARACTER	8	PARM_SAVE_ BLOCK_NAME	
				Control block name
(10)	HALFWORD	2	PARMS_LEN	Length of overrides
(12)	CHARACTER	*	PARMS	Overrides go here

Table 385.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	DFHPAA_CR	The catalog record
(0)	CHARACTER	2	PA_CATALOG_ SUFFIX	SIT Suffix
(2)	CHARACTER	1	PA_RECORD_TYPE	STANDBY OR BLANK
(3)	CHARACTER	1	*	

Constants

Table 386.

Len	Type	value	Name	Description
Trace point Ids 010x PAGP trace points 011x PAGP exception trace points 02xx PADM trace points 021x PADM exception trace points 03xx PAIO trace points 04xx PASY trace points (PAA copybook not included in module)				
2	HEX	0101	TPID_PAGP_ENTRY	DFHPAGP Entry trace point
2	HEX	0102	TPID_PAGP_EXIT	DFHPAGP Exit trace point
2	HEX	0103	TPID_PAGP_BWTOR	DFHPAGP before WTOR
2	HEX	0104	TPID_PAGP_AWTOR	DFHPAGP after WTOR
2	HEX	0111	TPID_PAGP_INVDC	DFHPAGP inv domain call
2	HEX	0112	TPID_PAGP_ INV_FORMAT	DFHPAGP inv dom. format no.

Table 386. (continued)

Len	Type	value	Name	Description
2	HEX	0113	TPID_PAGP_ INV_FUNCTION	
				DFHPAGP inv function req.
2	HEX	0114	TPID_PAGP_INVRQDOM	DFHPAGP inv calling domain
2	HEX	0115	TPID_PAGP_INVSIT	DFHPAGP invalid SIT address
2	HEX	0116	TPID_PAGP_RECOVERY	DFHPAGP recovery entered
2	HEX	0201	TPID_PADM_ENTRY	DFHPADM Entry trace point
2	HEX	0202	TPID_PADM_EXIT	DFHPADM Exit trace point
2	HEX	0211	TPID_PADM_ INV_FORMAT	DFHPADM inv dom. format no.
2	HEX	0212	TPID_PADM_ INV_FUNCTION	
				DFHPADM inv function req.
2	HEX	0213	TPID_PADM_RECOVERY	DFHPADM recovery entered
2	HEX	0401	TPID_PASY_ENTRY	DFHPASY Entry trace point
2	HEX	0402	TPID_PASY_EXIT	DFHPASY Exit trace point
Messages - used when call is made to Message Domain.				
4	DECIMAL	1	MEID_RECOVERY	Msg DFHPA0001
4	DECIMAL	2	MEID_SEVERE_ERROR	Msg DFHPA0002
4	DECIMAL	4	MEID_LOOP	Msg DFHPA0004
4	DECIMAL	1924	MEID_LESSTHAN_ PARAMETER	
				Msg DFHPA1924
Dumpcodes - used when call is made to Message Domain.				
8	CHARACTER	PA0001	DUID_PA_RECOVERY	
8	CHARACTER	PA0002	DUID_PA_SEVERE_ ERROR	
8	CHARACTER	PA0004	DUID_PA_LOOP	
Constants				
1	CHARACTER	>	ARROW	Eyecatcher standard prefix
2	DECIMAL	120	BUFFER_SIZE	Size for Getmaining buffer

Table 386. (continued)

Len	Type	value	Name	Description
2	DECIMAL	4096	PAGE_SIZE	Size for Getmaining 1 page
2	DECIMAL	80	SYSIN_RECORD_L	Length of a SYSIN record.
4	DECIMAL	7	DWORDUP	Const to round up to dblwd
0	BIT	1	ON	Used for flag
0	BIT	0	OFF	manipulation.
0	BIT	1	YES	" "
0	BIT	0	NO	" "
0	BIT	1	OPEN	" "
0	BIT	0	CLOSED	" "
1	DECIMAL	0	WARM	Use Catalog
1	DECIMAL	1	COLD	^Use catalog
4	HEX	FFFFFFF8	TURN_OFF_ LAST_3_BITS	
6	CHARACTER	DFHSIT	SIT_NAME	
7	CHARACTER	DFHPADM	PADM_NAME	
7	CHARACTER	DFHPAIO	PAIO_NAME	
7	CHARACTER	DFHPAGP	PAGP_NAME	
8	CHARACTER	DBDCCICS	DEFAULT_APPLID_ NAME	
1	CHARACTER	S	STANDBY	

PGA DFHAPEVI Macro save area

Table 387.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	608	PESA	
(0)	CHARACTER	32	PESA_STANDARD	
(0)	CHARACTER	10	PESA_PREFIX	
(0)	HALFWORD	2	PESA_LENGTH	length for environment
(2)	CHARACTER	1	PESA_ARROW	>
(3)	CHARACTER	3	PESA_DFH	DFH
(6)	CHARACTER	4	PESA_BLOCK_ NAME	PESA
(A)	UNSIGNED	1	PESA_ENVIRONMENT_ TYPE	
				the type of environment

Table 387. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B)	CHARACTER	1	PESA_AMODE	save area for TCAAAM
(C)	ADDRESS	4	PESA_PREV	points to the previous
(10)	ADDRESS	4	PESA_EIS_ APLI_SAVEAREA	
				for SYSTEM&PLT only being linked to
(14)	CHARACTER	12	PESA_PCTWA	Regs at time of link
---------- Structure ends here for PESA_ENVIRONMENT_TYPEs of PESA_SYSTEM and PESA_PLT. Do not reference fields beyond this point for these types. ----------				
(20)	CHARACTER	0	PESA_STANDARD_ END	
---------- This is the start of additional information which is stacked to allow EXEC CICS commands to be issued at the next link level. ----------				
(20)	CHARACTER	280	PESA_EXEC_ SPECIFIC	
(20)	ADDRESS	4	PESA_EISTG	Command level ASSEMBLER storage (TCAEISTG)
(24)	HALFWORD	2	PESA_CALEN	Commarea length EIBCALEN
(26)	CHARACTER	52	PESA_EIS_ EXEC_DATA	
				save area for the EIS
(5A)	CHARACTER	144	PESA_EIUS_ EXEC_DATA	
				save area for the EIUS
(EA)	CHARACTER	76	PESA_TCAREGPT_ REGS	
				save area for regs (TCAREGPT)
(136)	CHARACTER	2	*	reserved
---------- Structure ends here for PESA_ENVIRONMENT_TYPE of PESA_EXEC Do not reference fields beyond this point for this type. ----------				

Table 387. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(138)	CHARACTER	0	PESA_EXEC_ SPECIFIC_END	
---------- This is the start of additional information which is stacked to allow EXEC CICS commands to be issued within EXEC CICS commands ----------				
(138)	CHARACTER	240	PESA_SUPERLINK_ SPECIFIC	
(138)	CHARACTER	48	PESA_EIS_ SUPERLINK_DATA	
(168)	CHARACTER	85	PESA_SYSTEM_EIB	
(1BD)	CHARACTER	16	PESA_EIUS_ SUPERLINK_STACK	
(1CD)	CHARACTER	85	PESA_USER_EIB	
(222)	CHARACTER	1	PESA_TCAEISFL	reserved
(223)	CHARACTER	5	*	reserved
---------- Structure ends here for PESA_ENVIRONMENT_TYPEs of PESA_TRUE and PESA_URM. Do not reference fields beyond this point for these types. ----------				
(228)	CHARACTER	0	PESA_SUPERLINK_ SPECIFIC_END	
---------- This is the start of additional information which is stacked to allow EXEC CICS commands to be issued within a limited subset of Global User Exits. ----------				
(228)	CHARACTER	56	PESA_GLUE_ SPECIFIC	
(228)	CHARACTER	48	PESA_COMMON_ CONTROL_AREA	
				TCACCCA
(258)	BIT(8)	1	PESA_EDF_REPLY	EDF reply byte (EISEDFRB)
(259)	CHARACTER	3	PESA_FLAGS	EIS flags
(259)	BIT(8)	1	PESA_FLAG2	(EISFLAG2)
(25A)	BIT(8)	1	PESA_FLAG3	(EISFLAG3)
(25B)	BIT(8)	1	PESA_FLAG5	(EISFLAG5)
(25C)	CHARACTER	4	*	reserved
---------- Structure ends here for PESA_ENVIRONMENT_TYPE of PESA_GLUE ----------				
(260)	CHARACTER	0	PESA_END	

Table 388.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	76	TCAREGPT_ SAVE_AREA	
(0)	CHARACTER	72	*	
(48)	CHARACTER	4	TCAREGPT_R13	

Constants

Table 389.

Len	Type	value	Name	Description
Length constants referencing other control blocks So that DSECTGEN can give easy to read output				
4	DECIMAL	12	LENGTH_TCAPCTWA	
4	DECIMAL	52	LENGTH_EISTACKA	
4	DECIMAL	48	LENGTH_EISUPERB	
4	DECIMAL	85	LENGTH_DFHEIBLK	
4	DECIMAL	144	LENGTH_EIUS_ STACK_AREA	
4	DECIMAL	16	LENGTH_EIUS_ SUPER_STACK	
Constants for pesa_environment_type				
4	DECIMAL	1	PESA_EXEC	command level application
4	DECIMAL	2	PESA_GLUE	global user exit
4	DECIMAL	3	PESA_PLT	program list table program
4	DECIMAL	4	PESA_SYSTEM	CICS system program
4	DECIMAL	5	PESA_TRUE	task-related user exit
4	DECIMAL	6	PESA_URM	user-replaceable program
4	DECIMAL	312	PESA_LENGTH_EXEC	
4	DECIMAL	608	PESA_LENGTH_GLUE	
4	DECIMAL	32	PESA_LENGTH_PLT	
4	DECIMAL	32	PESA_LENGTH_SYSTEM	
4	DECIMAL	552	PESA_LENGTH_TRUE	
4	DECIMAL	608	PESA_LENGTH_URM	

PGDCC Program Manager Control Blocks

```
Program Manager Anchor Block.
This control block contains the global storage for the
Program Manager domain.
```

Table 390.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	240	PGANCHOR	
(0)	CHARACTER	16	PGA_PREFIX	prefix
(0)	HALFWORD	2	PGA_LENGTH	inclusive length of anchor
(2)	CHARACTER	1	PGA_ARROW	>
(3)	CHARACTER	3	PGA_DFH	DFH
(6)	CHARACTER	2	PGA_DOMID	PG
(8)	CHARACTER	8	PGA_BLOCK_NAME	Anchor
(10)	CHARACTER	8	PGA_GENERAL_ SUBPOOL_TOKEN	
				PG general subpool token
(18)	CHARACTER	8	PGA_PPTE_ SUBPOOL_TOKEN	
				Program Definition subpool token
(20)	CHARACTER	8	PGA_JVMCLASS_ SUBPOOL_TOKEN	
				JVM class subpool token
(28)	CHARACTER	8	PGA_LLE_ SUBPOOL_TOKEN	
				Load List Element subpool token
(30)	CHARACTER	8	PGA_PGWE_ SUBPOOL_TOKEN	
				PG Wait Element subpool token
(38)	CHARACTER	8	PGA_HTB_ SUBPOOL_TOKEN	
				Handle Table Block subpool token
(40)	CHARACTER	8	PGA_HMRSA_ SUBPOOL_TOKEN	
				Handle Manager Register Save Area subpool token

Table 390. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	CHARACTER	8	PGA_PTA_ SUBPOOL_TOKEN	
				Program Transaction area subpool token
(50)	CHARACTER	8	PGA_LAST_ RESET_TIME	
				time PG statistics last reset
(58)	ADDRESS	4	PGA_LOCK_TOKEN	PG domain lock token
(5C)	FULLWORD	4	PGA_PG_STATE	PG domain state
(60)	FULLWORD	4	PGA_AUTOINSTALL_ STATE	
				autoinstall state
(64)	FULLWORD	4	PGA_AUTOINSTALL_ CATALOG_STATE	
				autoinstall catalog state
(68)	CHARACTER	8	PGA_AUTOINSTALL_ EXIT_NAME	
				name of autoinstall user replaceable module
(70)	FULLWORD	4	PGA_ATTEMPTED_ AUTOINSTALLS	
				number of attempted program autoinstalls
(74)	FULLWORD	4	PGA_REJECTED_ AUTOINSTALLS	
				number of rejected program autoinstalls
(78)	FULLWORD	4	PGA_FAILED_ AUTOINSTALLS	
				number of failed program autoinstalls
(7C)	ADDRESS	4	PGA_PPT_ DIRECTORY	Directory token for PPT
(80)	FULLWORD	4	PGA_PPT_ VERSION_NUMBER	

Table 390. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				incremented each time PPT entry is discarded
(84)	CHARACTER	8	PGA_SYS_LLE_HEAD	Head of system LLE chain
(8C)	CHARACTER	8	PGA_PGWE_HEAD	Head of list of PGWEs
(94)	ADDRESS	4	PGA_SM_ ACCESS_TOKEN	
				access token for SMSRI INQUIRE_ACCESS
(98)	ADDRESS	4	PGA_SM_ ISOLATION_TOKEN	
				isolation token for SMSRI SWITCH_SUBSPACE
(9C)	BIT(8)	1	PGA_INDICATORS	Various flag bits
	1...		PGA_COLD_START	START=COLD in SIT
	.1..		PGA_STORAGE_ PROTECT	
				result of SMSR INQUIRE_STORAGE_PROTECT
	..1.		PGA_PPT_ RECOVERY_COMPLETE	
				PPT recovered from global catalog
	...1		PGA_XRSINDI_ ACTIVE	
				status of XRSINDI GLUE
	.... 1...		PGA_PG_ AVAILABLE	exec calls to PG valid
	.... .1..		PGA_LANGUAGES_ AVAILABLE	
				languages establishment has been done so that autoinstall exit can be used
	.... ..1.		*	reserved
	1		*	reserved
(9D)	CHARACTER	3	*	reserved

Table 390. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	CHARACTER	4	PGA_LOCAL_ SYSTEM_NAME	
				SYSIDNT value in SIT
(A4)	CHARACTER	8	PGA_EXI_LLE_HEAD	Head of exit LLE chain
(AC)	ADDRESS	4	PGA_STATS_ BUFFER_PTR	
				jvmprog stats buff ptr
(B0)	CHARACTER	8	PGA_CHCB_ SUBPOOL_TOKEN	
				Channel
(B8)	CHARACTER	8	PGA_CPCB_ SUBPOOL_TOKEN	
				Container Pool
(C0)	CHARACTER	8	PGA_CRCB_ SUBPOOL_TOKEN	
				Container
(C8)	CHARACTER	8	PGA_CSCB_ SUBPOOL_TOKEN	
				Container Segment
(D0)	CHARACTER	8	PGA_CSDB_ SUBPOOL_TOKEN	
				Container Data Block
(D8)	CHARACTER	8	PGA_CRBB_ SUBPOOL_TOKEN	
				Container Browse Block
(E0)	UNSIGNED	4	PGA_CCSID	Default container CCSID
(E4)	FULLWORD	4	* (3)	reserved
(F0)	CHARACTER	0	*	round to doubleword

```
Control Block Structure For Each Program Processing Table Entry.
```

Table 391.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	88	PPTE	
(0)	CHARACTER	52	PPTE_CATALOG_ RECORD	
				record written to the global catalog

Table 391. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	10	PPTE_PREFIX	eyecatcher
(0)	CHARACTER	1	PPTE_ARROW	
(1)	CHARACTER	3	PPTE_DFH	
(4)	CHARACTER	2	PPTE_DOMID	
(6)	CHARACTER	4	PPTE_BLOCK_ NAME	
(A)	HALFWORD	2	PPTE_LENGTH	
(C)	CHARACTER	8	PPTE_PROGRAM_ NAME	program name
(14)	UNSIGNED	1	PPTE_MODULE_ TYPE	module type: program mapset partitionset
(15)	UNSIGNED	1	PPTE_LANG_ DEFINED	program language passed to PGDD DEFINE_PROGRAM
(16)	UNSIGNED	1	PPTE_INSTALL_ TYPE	install type
(17)	BIT(8)	1	PPTE_DEFINITION_S	program definition bits
	1...		PPTE_CEDF_ STATUS	cedf status: ON cedf allowed OFF cedf inhibited
	.1..		PPTE_PROG_ ENABLED	
				avail status: ON enabled OFF disabled
	..1.		PPTE_ANY_ DATA_LOC	
				data location: ON any location OFF below 16M
	...1		PPTE_CICS_ EXEC_KEY	
				execution key: ON cics OFF user
	.... 1...		PPTE_DPLSUBSET	execution set: ON dplsubset OFF fullapi
	.... .1..		PPTE_RELOAD_ YES	reload status: ON load a new copy each use OFF do not reload

Table 391. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		PPTE_REMOTE	remote definition: ON remote OFF local
	1		PPTE_DYNAMIC_ STATUS	dynamic status ON dynamic DPL permitted OFF dynamic DPL not permitted
(18)	CHARACTER	1	PPTE_DEFINITIONS_ 2	more program definition bits
	1...		PPTE_THREADSAFE	concurrency of program as adjusted by APLI language establishment ON program is threadsafe OFF program is quasireentrant
	.1..		PPTE_DEFINED_ THREADSAFE	concurrency of program as DEFINED ON program is threadsafe OFF program is quasireentrant
	..1.		PPTE_JVM	ON indicates program is to be run under JVM
	...1		PPTE_JVM_DEBUG	ON indicates JVM_DEBUG(YES) specified on definition
	.... 1...		*	reserved
	.... .1..		PPTE_OPENAPI	OPENAPI value as adjusted by APLI language establishment ON program is OPENAPI OFF program is CICSAPI
	.... ..1.		PPTE_DEFINED_ OPENAPI	

Table 391. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				OPENAPI value as DEFINED ON program is OPENAPI OFF program is CICSAPI
	1		PPTE_MULTITCB	multithreaded JVM required implies PIPI LE needed
(19)	CHARACTER	1	PPTE_DEFINITIONS_3	
				more program definition bits
	1...		*	reserved
	.1..		PPTE_PHASEIN	PHASEIN not yet loaded
	..11 1111		*	reserved
(1A)	CHARACTER	2	*	reserved
(1C)	CHARACTER	8	PPTE_REMOTE_PROGID	
				remote program name
(24)	CHARACTER	4	PPTE_REMOTE_SYSID	remote system name
(28)	CHARACTER	4	PPTE_REMOTE_TRANID	
				server transaction name
(2C)	CHARACTER	8	PPTE_JVM_PROFILE	profile member name
Internals. This record is part of Program Manager's internal state data. It is never written to the global catalog and is always initialised when a new PPTE is created.				
(34)	CHARACTER	16	PPTE_INTERNALS	PG internal data
(34)	ADDRESS	4	PPTE_LANG_TOKEN	language token
(38)	CHARACTER	4	PPTE_CS_WORD	word for Compare and Swap
(38)	UNSIGNED	1	PPTE_LANG_DEDUCED	
				language as deduced by LE
(39)	UNSIGNED	1	PPTE_PROGRAM_LOCK	
				program lock
(3A)	BIT(8)	1	PPTE_INTERNAL_FLAGS	

Table 391. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		PPTE_ASSEMBLER_CICS	
				DFH assembler with no stub ON cics assembler program OFF normal program
	.111 1111		*	reserved
(3B)	UNSIGNED	1	PPTE_RUNTIME_ENVIRONMENT	
				runtime environment JVM, LE/370, other
(3C)	ADDRESS	4	PPTE_LOADER_TOKEN	loader token
(40)	FULLWORD	4	PPTE_HOLD_COUNT	hold counter
Indicators. These are never written to the global catalog, and are always initialised when a new PPTE is created.				
(44)	CHARACTER	20	PPTE_INDICATORS	Indicators
(44)	FULLWORD	4	PPTE_USECOUNT	PG's usecount for programs that are not RELOAD(YES)
(48)	UNSIGNED	1	PPTE_LOAD_STATUS	load status
(49)	BIT(8)	1	PPTE_INDICATOR_FLAGS	
	1...		PPTE_CICS_HOLD	hold status: ON loaded for cics lifetime OFF loaded for task lifetime
	.1..		PPTE_PG_CATALOGED_PDB	
				did PG call LD to catalog Loader's program definition: ON yes PG did OFF no PG has not
	..1.		PPTE_PGWE	are there any wait elements for this program on the PGWE: ON >= 1 wait elements OFF 0 wait elements

Table 391. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		PPTE_DELETE_ IN_PROGRESS	
				has a delete_program started for this ppte. ON ==> locates finding this ppte must be suspended until the delete has completed, and then must be retried OFF ==> ppte is ok to use ppte_lock_owners_pta_ptr is set when this bit turned on
	.... 1...		PPTE_ADD_ IN_PROGRESS	
				has an add_program started for this ppte. ON ==> locates finding this ppte must be suspended until the add has completed, and then must be retried OFF ==> ppte is ok to use ppte_lock_owners_pta_ptr is set when this bit turned on
	.... .111		*	reserved
(4A)	CHARACTER	2	*	reserved
(4C)	ADDRESS	4	PPTE_LOCK_ OWNERS_PTA_PTR	
				pta_ptr of owner of a program lock. For diagnostic purposes only. Set when ppte_program_lock, ppte_add_in_progress or ppte_delete_in_progress is set. May be 0 if no pta associated with the request

Table 391. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	ADDRESS	4	PPTE_JVM_ CLASS_PTR	
				address of JVM class data
(54)	FULLWORD	4	PPTE_JVM_ USECOUNT	PG's jvmprograms usecount
(58)	CHARACTER	0	*	

Table 392.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	258	PPTE_JVM_CLASS	
(0)	UNSIGNED	2	PPTE_JVM_ CLASS_LENGTH	
(2)	CHARACTER	256	PPTE_JVM_ CLASS_DATA	

```
  PTA - PG Transaction Area
  This block contains the PG domain storage for a transaction
ALLOCATED : in DFHPGXM as part of PG INITIALIZE_ TRANSACTION
FREED : in DFHPGXM as part of PG TERMINATE_ TRANSACTION
  WHERE : PGPTA subpool. Fixed length, CICS lifetime, CICS key,
  quickcell subpool.
  HOW TO FIND : online it is addressed by the token returned by
XM INQUIRE_ TRANSACTION_ TOKEN.
```

Table 393.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	80	PTA	
(0)	CHARACTER	16	PTA_PREFIX	
(0)	HALFWORD	2	PTA_LENGTH	
(2)	CHARACTER	1	PTA_ARROW	
(3)	CHARACTER	3	PTA_DFH	
(6)	CHARACTER	2	PTA_DOMID	
(8)	CHARACTER	8	PTA_BLOCK_NAME	
(10)	CHARACTER	8	PTA_TASK_ LLE_HEAD	
(18)	ADDRESS	4	PTA_PLCB_HEAD	-> highest logical level
(1C)	CHARACTER	28	PTA_XCTL_INFO	info from prepare xctl
(1C)	CHARACTER	8	PTA_XCTL_ PROGRAM_NAME	
				Name of prog for next XCTL
(24)	ADDRESS	4	PTA_XCTL_ PROG_PPTE	

Table 393. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				-> PPT entry for xctl
(28)	ADDRESS	4	PTA_XCTL_ LOAD_POINT	
				load point for xctl
(2C)	ADDRESS	4	PTA_XCTL_ ENTRY_POINT	
				entry point for xctl
(30)	FULLWORD	4	PTA_XCTL_ PROGRAM_LENGTH	
				program length for xctl
(34)	ADDRESS	4	PTA_XCTL_ LANGUAGE_TOKEN	
				language token for xctl
(38)	CHARACTER	8	PTA_LEVEL_COUNTS	level counters
(38)	FULLWORD	4	PTA_LOGICAL_ LEVEL	counts all levels
(3C)	FULLWORD	4	PTA_SYSTEMEXIT_ LEVEL	
				counts GLUEs and URMs
(40)	BIT(8)	1	PTA_FLAGS	flags
	1...		PTA_INPUTMSG_ RETURNED	
				inputmsg passed on RETURN
	.1..		PTA_PSEUDO_ CONV_COMMAREA	
				a pseudo-conversational commarea was passed to the first program in this transaction
	..1.		PTA_COMMAREA_ RETURNED	
				this transaction passed a valid commarea on a RETURN
	...1		PTA_AUTOINSTALL_ CALLED	

Table 393. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				running autoinstall exit, used to prevent recursion
	.... 1...		PTA_JVM_CALLED	At least one JVM program is active in this transaction
	.... .1..		*	reserved
	.... ..1.		PTA_CHANNEL_RETURNED	
				RETURN CHANNEL
	1		*	reserved
(41)	UNSIGNED	1	PTA_HANDLE_ABEND_CT	
				count of active handle abends
(42)	CHARACTER	2	*	Spare
(44)	ADDRESS	4	PTA_CHCB	Initial Channel
(48)	CHARACTER	8	PTA_CONTAINER_STORAGE_SIZE	
				amount of storage used to hold all container data for this task
(50)	ADDRESS	4	PTA_FREE_HTB_CHAIN	HTBs.
(54)	CHARACTER	0	*	

```
PLCB - PG Program Level Control Block.
This block contains the PG domain storage for a logical level
within a transaction.
ALLOCATED : as part of link to a logical level. There is no
explicit GETMAIN in PG because it resides in automatic storage.
FREED : on return from the logical level. There is no explicit
FREEMAIN in PG because it resides in automatic storage.
WHERE : automatic storage supplied by the Kernel.
HOW TO FIND : chained from the PTA for the transaction.
PLCBs are in a singly linked list.
```

Table 394.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	PLCB	
(0)	CHARACTER	16	PLCB_PREFIX	
(0)	HALFWORD	2	PLCB_LENGTH	
(2)	CHARACTER	1	PLCB_ARROW	
(3)	CHARACTER	3	PLCB_DFH	
(6)	CHARACTER	2	PLCB_DOMID	

Table 394. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	8	PLCB_BLOCK_NAME	
(10)	ADDRESS	4	PLCB_PREV	previous plcb
(14)	CHARACTER	28	PLCB_PROGRAM_INSTANCE	
				instance of current prog
(14)	CHARACTER	8	PLCB_PROGRAM_NAME	program name at this level
(1C)	ADDRESS	4	PLCB_PROG_PPTE	PPT entry for this level
(20)	CHARACTER	16	PLCB_PROGRAM_DETAILS	
				This structure is used for improving performance
(20)	ADDRESS	4	PLCB_LOAD_POINT	program load point
(24)	ADDRESS	4	PLCB_ENTRY_POINT	program entry point
(24)	CHARACTER	1	*	
	1...		PLCB_AMODE_31	AMODE on=31 off=24
(28)	FULLWORD	4	PLCB_PROGRAM_LENGTH	
				program length
(2C)	ADDRESS	4	PLCB_LANGUAGE_TOKEN	
				program language extension
(30)	BIT(8)	1	PLCB_INSTANCE_FLAGS	
				Bit settings are the same as those in PPTE_DEFINITIONS
	1...		PLCB_CEDF_STATUS	CEDF status
	.1..		*	
	..1.		PLCB_ANY_DATA_LOC	data location
	...1		*	
	.... 1...		PLCB_DPLSUBSET	program execution set
	.... .11.		*	

Table 394. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		PLCB_DYNAMIC_ STATUS	
				dynamic DPL status
(31)	CHARACTER	1	PLCB_ENVIRONMENT	environment information
(31)	UNSIGNED	1	PLCB_ENVIRONMENT_ TYPE	
				environment type
(32)	CHARACTER	2	*	reserved
(34)	ADDRESS	4	PLCB_HANDLE_ LEVEL_TKN	
				token identifying handle table at this level
(38)	CHARACTER	20	PLCB_COMMAREA_ INFO	commarea information
(38)	ADDRESS	4	PLCB_CA_CURRENT	current commarea address
(3C)	FULLWORD	4	PLCB_CA_ CURRENT_LEN	
				current commarea length
(40)	ADDRESS	4	PLCB_CA_LINK	commarea address on LINK to this level
(44)	FULLWORD	4	PLCB_CA_ LINK_LEN	commarea length on LINK to this level
(48)	BIT(8)	1	PLCB_CA_FLAGS	commarea flags
	1...		PLCB_CA_ CURRENT_X	
				current commarea exists
	.1..		PLCB_CA_COPY	current commarea is a copy
	..1.		PLCB_CA_ LINK_COPY	
				current commarea is a copy of the commarea passed on the LINK to this level

Table 394. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		PLCB_CA_ READONLY	commarea passed on the LINK is in readonly storage
	 1111		*	reserved
(49)	CHARACTER	1	PLCB_CA_ STORAGE_CLASS	
				CICS,CICS24,USER,USER24 only valid when plcb_ca_copy is set
(4A)	CHARACTER	2	*	reserved
(4C)	CHARACTER	8	PLCB_INVOKING_ PROG	invoking program name
(54)	HALFWORD	2	PLCB_EXIT_NUMBER	number which identifies a Global User Exit point
(56)	BIT(8)	1	PLCB_FLAGS	
	1...		PLCB_INPUTMSG_ SUPPLIED	
				inputmsg passed on LINK or XCTL to this level
	.1..		PLCB_XCTL_ IN_PROGRESS	
				XCTL in progress
	..1.		PLCB_HANDLE_ ABEND_PGM	
				abend handler program
	...1		PLCB_SYSEIB_ REQUEST	
				SYSEIB specified
	.... 1...		PLCB_HPJ_ PROGRAM	Java program object
	.... .111		*	reserved
(57)	CHARACTER	1	*	spare
(58)	ADDRESS	4	PLCB_CURRENT_ CHCB	current channel
(5C)	ADDRESS	4	PLCB_CHCB_CHAIN	channel chain
(60)	CHARACTER	0	*	

```
PGWE
  The PGWE represents a task which is attempting to acquire the
  program lock. If the program lock is locked, the PGWE is added
```

```
  to the PGWE chain and the task is suspended.
  ALLOCATED : when Program Manager attempts to obtain the program
lock.
  FREED : when the lock is obtained successfully.
  WHERE : obtained from the pgwe subpool.
  HOW TO FIND : elements are chained to the PGWE chain anchored in
the PG anchor block by pga_ pgwe_head.
```

Table 395.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	PGWE	
(0)	CHARACTER	8	PGWE_PREFIX	
(0)	ADDRESS	4	PGWE_NEXT	
(4)	ADDRESS	4	PGWE_PREV	set to 0 when remove from queue
(8)	BIT(32)	4	PGWE_SUSPEND_TOKEN	
(C)	ADDRESS	4	PGWE_PPTE_PTR	
(10)	CHARACTER	8	PGWE_PROGRAM_NAME	
(18)	CHARACTER	0	*	

```
LLE
  A Load List Element represents an instance of a program that
  has been explicitly loaded.
  ALLOCATED : when a program is explicitly loaded
  FREED : when a program is explicitly released, or at end of
  task for programs loaded for the lifetime of the task.
  WHERE : obtained from the lle subpool
  HOW TO FIND : elements are chained to the system LLE chain
  anchored in the PG anchor block or the task LLE chain anchored
  in the Program Transaction Area.
```

Table 396.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	LLE	
(0)	CHARACTER	8	LLE_PREFIX	
(0)	ADDRESS	4	LLE_NEXT	
(4)	ADDRESS	4	LLE_PREV	
(8)	ADDRESS	4	LLE_PPTE_ADDRESS	
(C)	ADDRESS	4	LLE_INSTANCE	
(10)	CHARACTER	0	*	

```
  Subpool Name: PGCHCB
Access CICS
Location ANY
  Element Type FIXED
Boundary 8
Initial Free 0
Lifetime CICS
Subpool Token pga_ chcb_subpool_ token
Address from plcb_ current_chcb
                       plcb_ chcb_chain
```

```
                          pta_ chcb
                            tctteitk
                          ice_ interface_token
Created by PGCH CREATE_ INTERFACE
Deleted by PGCH DELETE_ OWNED_INTERFACES
                            PGCH DELETE
```

Table 397.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	CHCB	
(0)	CHARACTER	16	CHCB_DCHAIN_ PREFIX	
(0)	CHARACTER	8	CHCB_EYECATCHER	HEX'FHCHCB
(8)	ADDRESS	4	CHCB_NEXT	-> next chcb (0=end)
(C)	ADDRESS	4	CHCB_PREV	-> prev chcb (0=top)
(10)	CHARACTER	16	CHCB_NAME	name of the channel
(20)	ADDRESS	4	CHCB_OWNING_PLCB	PLCB which created CHCB
(24)	UNSIGNED	4	CHCB_CONTAINER_ POOL_TOKEN	
				-> CPCB
(28)	ADDRESS	4	*	Spare
(2C)	UNSIGNED	4	CHCB_CCSID	Default Codepage
(30)	CHARACTER	0	*	

```
  Subpool Name: PGCPCB
Access CICS
Location ANY
  Element Type FIXED
Boundary 8
Initial Free 0
Lifetime CICS
Subpool Token pga_ cpcb_subpool_ token
Address from chcb_ container_ pool_token
Created by PGCP CREATE_ CONTAINER_POOL
Deleted by PGCP DELETE_ CONTAINER_POOL
```

Table 398.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	CPCB	
(0)	CHARACTER	8	CPCB_EYECATCHER	HEX'FHCPCB
(8)	ADDRESS	4	CPCB_CONTAINER_ ANCHOR	
				-> next CRCB (0=end)
(C)	ADDRESS	4	CPCB_BROWSE_ ANCHOR	-> next CRBB (0=end)
(10)	UNSIGNED	4	CPCB_NUMBER_ OF_CONTAINERS	

Table 398. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				# containers
(14)	UNSIGNED	4	CPCB_POOL_SIZE	sum all containers in pool
(18)	UNSIGNED	4	CPCB_GENERATION_ NUMBER	
				# writes to this pool
(1C)	UNSIGNED	4	CPCB_CCSID	Default Codepage
(20)	ADDRESS	4	CPCB_CHANNEL_ TOKEN	-> CHCB
(24)	CHARACTER	1	*	Flags
	1...		CPCB_IMPORTED	Imported Channel
	.111 1111		*	reserved
(25)	CHARACTER	3	*	reserved
(28)	CHARACTER	8	CPCB_STORAGE_ SIZE	amount of storage used to hold all container data for this pool
(30)	CHARACTER	0	*	

```
  Subpool Name: PGCRCB
Access CICS
Location ANY
  Element Type FIXED
Boundary 8
Initial Free 0
Lifetime CICS
Subpool Token pga_ crcb_subpool_ token
Address from cpcb_ container_anchor
Created by PGCP CREATE_ CONTAINER
Deleted by PGCP DELETE_ CONTAINER
```

Table 399.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	88	CRCB	
(0)	CHARACTER	16	CRCB_DCHAIN_ PREFIX	
(0)	CHARACTER	8	CRCB_EYECATCHER	HDRFHCRCB
(8)	ADDRESS	4	CRCB_NEXT	-> next CRCB (0=end)
(C)	ADDRESS	4	CRCB_PREV	-> prev CRCB (0=top)
(10)	CHARACTER	16	CRCB_NAME	name of the container
(20)	ADDRESS	4	CRCB_SEGMENT_ ANCHOR	

Table 399. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				-> 1st CSCB
(24)	UNSIGNED	4	CRCB_DATA_LENGTH	len data in container
(28)	UNSIGNED	4	CRCB_GENERATION_ NUMBER	
				# writes to this container
(2C)	UNSIGNED	4	CRCB_BROWSE_ INSTANCE_COUNT	
				# browses on this container
(30)	ADDRESS	4	CRCB_SET_ADDRESS	-> set storage
(34)	UNSIGNED	4	CRCB_SET_LENGTH	len set storage
(38)	CHARACTER	1	*	spare
	1...		CRCB_SET_KEY	cics/user
	.1..		CRCB_SET_LOC	above/below
	..1.		CRCB_TYPE	cics/user
	...1		CRCB_USER	readonly/any
	 1111		*	spare
(39)	UNSIGNED	1	CRCB_DATATYPE	char/bit
(3A)	CHARACTER	2	*	spare
(3C)	ADDRESS	4	CRCB_POOL_ ADDRESS	-> container pool
(40)	UNSIGNED	4	CRCB_CCSID	Codepage
(44)	UNSIGNED	4	CRCB_SET_USED	#bytes set stg. used
(48)	UNSIGNED	4	CRCB_INITIAL_ GENERATION	
				initial generation num.
(4C)	CHARACTER	4	*	spare
(50)	CHARACTER	8	CRCB_STORAGE_ SIZE	amount of storage used to hold container data
(58)	CHARACTER	0	*	

```
  Subpool Name: PGCSCB
Access CICS
Location ANY
  Element Type FIXED
Boundary 8
Initial Free 0
Lifetime CICS
Subpool Token pga_ cscb_subpool_ token
Address from crcb_ segment_anchor
Created by PGCR PUT_ CONTAINER
Deleted by PGCR DELETE_ CONTAINER
```

Table 400.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	CSCB	
(0)	CHARACTER	8	CSCB_EYECATCHER	EBCFHCSCB
(8)	UNSIGNED	4	CSCB_LENGTH	length including data
(C)	ADDRESS	4	CSCB_NEXT	-> next CSCB (0=end)
(10)	ADDRESS	4	CSCB_CONTAINER_ ADDRESS	-> owning container
(14)	UNSIGNED	4	CSCB_DATA_LENGTH	length data in container
(18)	CHARACTER	8	CSCB_DATA_ ADDRESS	CSDB
(20)	CHARACTER	8	CSCB_STORAGE_ SIZE	amount of storage used to hold segment data

```
Subpool Name: PGCSDB
Access CICS
Location PRIVATE (above the bar)
Element Type VARIABLE
Boundary 1M
Initial Free 0
Lifetime CICS
Subpool Token pga_csdb_subpool_token
Address from cscb_data_address
Created by PGCR PUT_CONTAINER
Deleted by PGCR DELETE_CONTAINER
```

Table 401.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CSDB	
(0)	CHARACTER	4	CSDB_DATA_PREFIX	Used in conversion !
(4)	CHARACTER	*	CSDB_DATA	

```
  Subpool Name: PGCRBB
Access CICS
Location ANY
  Element Type FIXED
Boundary 8
Initial Free 0
Lifetime TASK
Subpool Token pga_ crbb_subpool_ token
Address from plcb_ browse_anchor
Created by PGCR START_ BROWSE
Deleted by PGCR END_ BROWSE
```

Table 402.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CRBB	

Table 402. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	32	CRBB_HEADER	
(0)	CHARACTER	16	CRBB_DCHAIN_ PREFIX	
(0)	CHARACTER	8	CRBB_EYECATCHER	EBRFHCRBB
(8)	ADDRESS	4	CRBB_NEXT	-> next CRBB (0=end)
(C)	ADDRESS	4	CRBB_PREV	-> next CRBB (0=top)
(10)	UNSIGNED	4	CRBB_LENGTH	spare
(14)	ADDRESS	4	CRBB_POOL_TOKEN	-> CPCB
(18)	UNSIGNED	4	CRBB_NUMBER_ OF_CONTAINERS	
				# elements in array
(1C)	UNSIGNED	4	CRBB_CUR_ CONTAINER	
				position in array
(20)	CHARACTER	20	CRBB_CONTAINER_ BLOCK (*)	
				array of container names
(20)	CHARACTER	16	CRBB_CONTAINER_ NAME	
				array of container names
(30)	CHARACTER	1	*	
	1...		CRBB_CONTAINER_ TYPE	
				cics/user
	.111 1111		*	spare
(31)	CHARACTER	3	*	spare

Constants

Table 403.

Len	Type	value	Name	Description
Program Manager Domain States.				
4	DECIMAL	1	PGA_INITIALISING	
4	DECIMAL	2	PGA_INITIALISED	
4	DECIMAL	3	PGA_QUIESCING	
4	DECIMAL	4	PGA_QUIESCED	
4	DECIMAL	5	PGA_TERMINATING	
4	DECIMAL	6	PGA_TERMINATED	

Table 403. (continued)

Len	Type	value	Name	Description
Values for pga_autoinstall_state.				
4	DECIMAL	0	PGA_DISABLED	
4	DECIMAL	1	PGA_ENABLED	
Values for pga_autoinstall_catalog_state.				
4	DECIMAL	1	PGA_CATALOG_ALL	
4	DECIMAL	2	PGA_CATALOG_MODIFY	
4	DECIMAL	3	PGA_CATALOG_NONE	
Miscellaneous Constants.				
10	CHARACTER	>DFHPGPPTE	PPTE_PREFIX_VALUE	
1	CHARACTER	>	PPTE_ARROW_VALUE	
3	CHARACTER	DFH	PPTE_DFH_VALUE	
2	CHARACTER	PG	PPTE_DOMID_VALUE	
4	CHARACTER	PPTE	PPTE_BLOCK_NAME_VALUE	
Declarations For Program Lock.				
4	DECIMAL	1	PPTE_LOCKED	
4	DECIMAL	2	PPTE_UNLOCKED	
Declarations For Module Types.				
4	DECIMAL	1	PPTE_PROGRAM	
4	DECIMAL	2	PPTE_MAPSET	
4	DECIMAL	3	PPTE_PARTITIONSET	
Declarations For Type Of PPTE Installation.				
4	DECIMAL	1	PPTE_BUILT_FROM_RDO	
4	DECIMAL	2	PPTE_BUILT_FROM_CATALOG	
4	DECIMAL	3	PPTE_BUILT_FROM_GROUPLIST	
4	DECIMAL	4	PPTE_AUTOINSTALL	
4	DECIMAL	5	PPTE_SYSTEM_AUTOINSTALL	
4	DECIMAL	6	PPTE_MANUAL	
Declarations For Load Status.				
4	DECIMAL	1	PPTE_LOADABLE	
4	DECIMAL	2	PPTE_NOT_LOADABLE	
4	DECIMAL	3	PPTE_NOT_LOADED	

Table 403. (continued)

Len	Type	value	Name	Description
Language Name Declarations. Values are declared here for both the language as defined by the caller of PGDD DEFINE_PROGRAM and as deduced by LE. The ppte_lang_defined cannot have the value ppte_not_deduced or ppte_cobol2 The ppte_lang_defined value of ppte_not_defined means that the program was EXEC LOADed, and language establishment could not find any language. The program is usually treated as not deduced. It is separated from not deduced so that language establishment is only done once. The following equates to apli values are done to improve performance. The ppte_not_deduced value has no meaning to apli. The value of 255 is used as it is cannot be given by CDURUN.				
4	DECIMAL	1	PPTE_NOT_DEFINED	not def'd by user
4	DECIMAL	255	PPTE_NOT_DEDUCED	not deduced by LE
4	DECIMAL	2	PPTE_ASSEMBLER	(or ada)
4	DECIMAL	4	PPTE_C370	
4	DECIMAL	3	PPTE_COBOL	
4	DECIMAL	7	PPTE_COBOL2	
4	DECIMAL	5	PPTE_LE370	le370 (or C++)
4	DECIMAL	6	PPTE_PLI	PL/I
4	DECIMAL	9	PPTE_JVM_LANG	JVM
Runtime Environment Name Declarations				
4	DECIMAL	1	PPTE_JVM_RUNTIME	
4	DECIMAL	2	PPTE_LE370_RUNTIME	
4	DECIMAL	3	PPTE_NON_ LE370_RUNTIME	
4	DECIMAL	4	PPTE_XPLINK_RUNTIME	
Constants for plcb_environment_type. The following equates to apli values are done to improve performance.				
4	DECIMAL	2	PLCB_EXEC	command level application
4	DECIMAL	5	PLCB_GLUE	global user exit
4	DECIMAL	6	PLCB_PLT	program list table program
4	DECIMAL	1	PLCB_SYSTEM	CICS system program
4	DECIMAL	4	PLCB_TRUE	task-related user exit
4	DECIMAL	3	PLCB_URM	user-replaceable program
Constants				
8	CHARACTER	>DFHCHCB	CHCB_EYE	
Constants				
8	CHARACTER	>DFHCPCB	CPCB_EYE	

Table 403. (continued)

Len	Type	value	Name	Description
Constants				
8	CHARACTER	>DFHCRCB	CRCB_EYE	
0	BIT	1	CRCB_SET_KEY_CICS	
0	BIT	0	CRCB_SET_KEY_USER	
0	BIT	1	CRCB_SET_LOC_ABOVE	
0	BIT	0	CRCB_SET_LOC_BELOW	
0	BIT	1	CRCB_TYPE_CICS	
0	BIT	0	CRCB_TYPE_USER	
0	BIT	1	CRCB_USER_READONLY	
0	BIT	0	CRCB_USER_ANY	
1	DECIMAL	0	CRCB_DATATYPE_BIT	
1	DECIMAL	1	CRCB_DATATYPE_CHAR	
Constants				
8	CHARACTER	>DFHCSCB	CSCB_EYE	
Constants				
8	CHARACTER	>DFHCRBB	CRBB_EYE	
0	BIT	1	CRBB_CALLER_EXEC	
0	BIT	0	CRBB_CALLER_SYSTEM	

PIDCC Pipeline Manager Control Blocks

```
!:refstep.dfhpidc_dcl_pia ---------------------------- DFHPIDC 236 -
!
!
! Purpose State Data for PI domain
! Key CICS
! Lifetime CICS Lifetime
! Subpool PI_GENERAL
! Base Addr pia_ptr
! Created byDFHPIDM
! Deleted byCICS termination
!
!-------------------------------------------------------------------
```

Table 404.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1252	PIA	PI domain anchor block
----------! Eyecatcher ! ----------!				
(0)	CHARACTER	16	PIA_PREFIX	
(0)	HALFWORD	2	PIA_LENGTH	
(2)	CHARACTER	1	PIA_ARROW	'>'
(3)	CHARACTER	3	PIA_DFH	'DFH'

Table 404. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6)	CHARACTER	2	PIA_DOMID	'PI'
(8)	CHARACTER	8	PIA_BLOCK_NAME	'ANCHOR'
---------- Subpool Tokens ! ----------				
(10)	CHARACTER	24	*	
(10)	CHARACTER	8	PIA_GENERAL_ SUBPOOL	
				PI_GENRL
(18)	CHARACTER	8	PIA_POLICY_ SUBPOOL	
				PI_POLCY
(20)	CHARACTER	8	PIA_PARSER_ SUBPOOL	
				PI_PARSE
---------- Statistics variables ! ----------				
(28)	ADDRESS	4	PIA_STATS_ BUFFER_PTR	
				Statistics buffer
(2C)	CHARACTER	8	PIA_STATS_ LAST_RESET_TIME	
				Stats last reset time
---------- Pointer to Webservice Resource header block ! ----------				
(34)	ADDRESS	4	PIA_WS_ HEADER_ADDR	Pointer to WSB
---------- Pointer to Pipeline Element Header Block ! ----------				
(38)	ADDRESS	4	PIA_PIH_ HEADER_ADDR	
				Pointer to Pipeline header
---------- Pointer to security policy index ! ----------				
(3C)	ADDRESS	4	PIA_POLICY_ INDEX_ADDR	
				Pointer to policy index
---------- Pipeline Manager Object ! ----------				
(40)	CHARACTER	1152	PI_PIPE_MANAGER	

Table 404. (continued)

Offset Hex	Type	Len	Name (dim)	Description
-- ! Tokens and flags ! -- !				
(4C0)	ADDRESS	4	PIA_LOCK_TOKEN	Domain lock token
(4C4)	ADDRESS	4	PIA_POL_ LOCK_TOKEN	Policy lock token
(4C8)	UNSIGNED	4	PIA_DIR_TOKEN	Directory token
(4CC)	UNSIGNED	4	PIA_WS_DIR_TOKEN	Webservice directory
(4D0)	CHARACTER	1	PIA_FLAGS	Flags
	1...		PIA_LOCK_HELD	lock held
	.1..		PIA_COLD_START	cold start indicator
	..1.		PIA_STATE	state of pi anchor
	...1		PIA_IN_RESYNC	resync indicator
	 1111		*	reserved
(4D1)	CHARACTER	3	*	reserved
(4D4)	CHARACTER	8	PIA_AP_ RZ_NOTIFY_TOKEN	
				LSTN RZ callback
(4DC)	FULLWORD	4	PIA_SYS_ PIPE_COUNTS	
(4E0)	FULLWORD	4	PIA_PITCR_COUNT	use count dfhpitcr
(4E4)	CHARACTER	1	PIA_USER_EXIT_ STATUS	Global user exits
	1...		PIA_XWSPRROO_ ACTIVE	XWSPRROO is active
	.1..		PIA_XRSINDI_ACTIVE	XRSINDI is active
	..11 1111		*	reserved
(4E5)	CHARACTER	3	*	filler
(4E8)	CHARACTER	0	*	

WSSE Options structure

Table 405.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2577	DFHWSSE_OPTS	
(0)	FULLWORD	4	AUTH_MODE	
(4)	CHARACTER	255	AUTH_KEY	
(103)	CHARACTER	255	AUTH_ALG	

Table 405. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(202)	CHARACTER	1	SUPPRESS	
(203)	CHARACTER	1	*	
(204)	FULLWORD	4	STS_AUTH_ACTION	
(208)	CHARACTER	1	EXP_S_BOD	
(209)	CHARACTER	1	EXP_E_BOD	
(20A)	CHARACTER	1	REJ_SIG	
(20B)	CHARACTER	1	REJ_ENC	
(20C)	CHARACTER	1	S_BOD_REQ	
(20D)	CHARACTER	255	S_BOD_ALG	
(30C)	CHARACTER	255	S_BOD_KEY	
(40B)	CHARACTER	1	E_BOD_REQ	
(40C)	CHARACTER	255	E_BOD_ALG	
(50B)	CHARACTER	255	E_BOD_KEY	
(60A)	CHARACTER	255	KEYRING	
(709)	CHARACTER	10	REG_USER	
(713)	CHARACTER	765	STS_CONTAINERS	
(713)	CHARACTER	255	STS_AUTH_ TOKEN_NAMESPACE	
(812)	CHARACTER	255	STS_AUTH_ TOKEN_ELEMENT	
(911)	CHARACTER	255	STS_ENDPOINT	
(A10)	CHARACTER	1	USES_CRYPTO	

```
!:erefstep.dfhpidc_  dcl_pia ------------------------------------------
!:refstep.dfhpidc_  dcl_wsbctl ------------------------- DFHPIDC 455 -
!
  ! Purpose Structure of Webservice Resource control data
! Key CICS
  ! Lifetime Webservice
! Subpool PI_ GENERAL
! Base Addr pia_ ptr
  ! Created byDFHPIWR
  ! Deleted byDeleting a webservice resource
!
  !-----------------------------------------------------------------------
```

Table 406.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	908	PI_WSBCONTROL	Webservice control
----------! Eyecatcher ! ----------!				
(0)	CHARACTER	8	PI_WSBCTL_PREFIX	
(0)	HALFWORD	2	PI_WSBCTL_ LENGTH	

Table 406. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER	1	PI_WSBCTL_ARROW	'>'
(3)	CHARACTER	3	PI_WSBCTL	'WCB'
(6)	CHARACTER	2	*	reserved
(8)	CHARACTER	900	PI_WSBCTL_ CONTROL	General control area
(8)	CHARACTER	32	PI_WSBCTL_ WEBSERVICE_NAME	
(28)	ADDRESS	4	PI_WSBCTL_ HEADER_PTR	
(2C)	ADDRESS	4	PI_WSBCTL_ FORWARD_PTR	
(30)	ADDRESS	4	PI_WSBCTL_ BACKWARD_PTR	
(34)	ADDRESS	4	PI_WSBCTL_ WSR_PTR	
(38)	FULLWORD	4	PI_WSBCTL_ USE_COUNT	
(3C)	FULLWORD	4	PI_WSBCTL_ TOTAL_USE_COUNT	
(40)	BIT(8)	1	PI_WSBCTL_ FLAG_BITS	
	1...		PI_WSBCTL_ DELETE_PENDING	
	.1..		PI_WSBCTL_ RESOLVED	
	..1.		PI_WSBCTL_ WARM_RESTART	
	...1		PI_WSBCTL_ RESOLVING	
	 1111		SPARE_BITS	
(41)	CHARACTER	8	PI_WSBCTL_ SUBPOOL	
(49)	CHARACTER	24	RESERVED	
(61)	UNSIGNED	1	PI_WSBCTL_ VALIDATION_STATE	
(62)	UNSIGNED	1	PI_WSBCTL_ STATUS	
(63)	CHARACTER	16	PI_WSBCTL_ VERSION	
(73)	CHARACTER	255	PI_WSBCTL_ WSBIND_NAME	
(172)	CHARACTER	255	PI_WSBCTL_ WSDL_NAME	
(271)	CHARACTER	255	PI_WSBCTL_ BINDING_NAME	

Table 406. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(370)	CHARACTER	8	PI_WSBCTL_ PROGRAM_NAME	
(378)	CHARACTER	8	PI_WSBCTL_ PIPELINE_NAME	
(380)	ADDRESS	4	PI_WSBCTL_ LOCK_TOKEN	
(384)	UNSIGNED	4	PI_WSBCTL_ WSBIND_CCSID	
(388)	UNSIGNED	4	PI_WSBCTL_ ACTUAL_CCSID	

```
!:erefstep.dfhpidc_  dcl_wsbctl --------------------------------------
!:refstep.dfhpidc_  dcl_wsbind ------------------------- DFHPIDC 506 -
!
  ! Purpose Structure of Webservice Resource data
! Key CICS
  ! Lifetime Webservice
! Subpool PI_ GENERAL
! Base Addr pia_ ptr
  ! Created byDFHPIWR
  ! Deleted byDeleting a webservice resource
!
  !---------------------------------------------------------------------
```

Table 407.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2218	PI_WSRESOURCE	Webservice resource
----------! Eyecatcher ! ----------!				
(0)	CHARACTER	16	PI_WSR_PREFIX	
(0)	UNSIGNED	4	PI_WSR_LENGTH	
(4)	CHARACTER	1	PI_WSR_ARROW	'>'
(5)	CHARACTER	7	PI_WSR	'WRB '
(C)	ADDRESS	4	PI_WSR_CTL_ADDR	
(10)	CHARACTER	2202	PI_WSBIND_ FILE_STRUCT	
(10)	CHARACTER	8	PI_WSR_ EYECATCHER	
(18)	FULLWORD	4	PI_WSR_ WSBIND_LENGTH	
(1C)	CHARACTER	12	PI_WSR_ VERSION_TEXT	
(28)	UNSIGNED	4	PI_WSR_VERSION	
(28)	UNSIGNED	1	PI_WSR_ PRODUCT_NUMBER	
(29)	UNSIGNED	1	PI_WSR_ VERSION_MAJOR	

Table 407. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				the runtime level !
(2A)	UNSIGNED	2	PI_WSR_ VERSION_MINOR	
(2C)	CHARACTER	255	PI_WSR_ WSBIND_NAME	
(12B)	BIT(8)	1	PI_WSR_FLAGS	flags byte
	1...		PI_WSR_ XOP_SUPPORTED	direct mode XOP supported
	.1..		PI_WSR_ IGNORED_BIT	unpredictable content
	..1.		PI_WSR_SYNCPOINT_ SET	syncpoint allowed
	...1		PI_WSR_XML_ONLY	LU6 conversations required
	 1111		*	spare bits
(12C)	FULLWORD	4	PI_WSR_ FIRST_INDEX_ OFFSET	
(130)	FULLWORD	4	PI_WSR_ ENTRIES_IN_INDEX	
(134)	UNSIGNED	1	PI_WSR_ SOAP_MSG_TYPE	
(135)	CHARACTER	255	PI_WSR_ WSDL_NAME_1_1	
(234)	CHARACTER	255	PI_WSR_ BINDING_NAME	
(333)	CHARACTER	8	PI_WSR_ PROGRAM_NAME	
(33B)	CHARACTER	255	PI_WSR_ LOCAL_URI	
(43A)	CHARACTER	255	PI_WSR_ ENDPOINT_NAME	
(539)	UNSIGNED	1	PI_WSR_ PROGRAM_INTERFACE	
(53A)	CHARACTER	16	PI_WSR_ CONTAINER_NAME	
(54A)	UNSIGNED	1	PI_WSR_ VALIDATION_STATE	
(54B)	CHARACTER	8	PI_WSR_ LAST_MOD_TIME	
(553)	CHARACTER	4	PI_WSR_TRANID	
(557)	CHARACTER	8	PI_WSR_ SECURITY_ID	
(55F)	CHARACTER	8	PI_WSR_ PIPELINE_NAME	

Table 407. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(567)	CHARACTER	8	PI_WSR_URIMAP	
(56F)	UNSIGNED	1	PI_WSR_STATE	
(570)	CHARACTER	776	PI_WSR_UNION	mapping level dependent contents
(570)	CHARACTER	776	PI_WSR_ WSBIND_VER_1	
(570)	CHARACTER	776	*	Where index used to be
(570)	CHARACTER	776	PI_WSR_ WSBIND_VER_1_2	
(570)	FULLWORD	4	PI_WSR_CCSID	CCSID field
(574)	UNSIGNED	1	PI_WSR_ MAX_WSDL_VERSION	
				Maximum WSDL level
(575)	CHARACTER	771	*	
(570)	CHARACTER	776	PI_WSR_ WSBIND_VER_2	
(570)	CHARACTER	776	PI_WSR_ WSBIND_VER_2_1	
(570)	FULLWORD	4	*	This is the CCSID !@MOA
(574)	UNSIGNED	1	PI_WSR_ WSDL_SOAP_VER	
				WSDL and SOAP flags
	1...		PI_WSR_ WSDL_2_0	
				WSDL 2 is in use
	.1..		PI_WSR_ WSDL_1_1	
				WSDL 1.1 is in use
	..1.		PI_WSR_ REQ_SOAP_1_1	
				SOAP 1.1 in use
	...1		PI_WSR_ REQ_SOAP_1_2	
				SOAP 1.2 is in use
	 1111		*	Reserved
(575)	CHARACTER	255	PI_WSR_ WSDL_NAME_2_0	

Table 407. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				WSDL 2 WSBind file
(674)	CHARACTER	255	PI_WSR_ OP_NAMESPACE	Operations namespace
(773)	CHARACTER	255	PI_WSR_NS_AND_PORT	WSDL port name and ns
(878)	CHARACTER	8	PI_WSR_ VENDOR_PROGRAM	
(880)	FULLWORD	4	PI_WSR_ VENDOR_ BUFFER_SIZE	
(884)	CHARACTER	38	PI_WSR_ VENDOR_UNION	
				varies by version !@MLA
(884)	CHARACTER	38	PI_WSR_ VENDOR_V1	
(884)	CHARACTER	38	PI_WSR_ VENDOR_RESERVED	
(884)	CHARACTER	38	PI_WSR_ VENDOR_V2	
(884)	FULLWORD	4	PI_WSR_ VENDOR_ METADATA_LENGTH	
(888)	FULLWORD	4	PI_WSR_ VENDOR_ METADATA_OFFSET	
(88C)	CHARACTER	30	PI_WSR_ VENDOR_ RESERVED_V2	

```
!:erefstep.dfhpidc_  dcl_wsbind ---------------------------------------
!:refstep.dfhpidc_ dcl_wsb_ header ---------------------- DFHPIDC 633 -
!
  ! Purpose Structure of Webservice Resource header block
! Key CICS
  ! Lifetime While any webservices are installed
! Subpool PI_ GENERAL
! Base Addr pia_ ws_header_addr
  ! Created byDFHPIWR
  ! Deleted byDeleting the last webservice resource
!
  !-----------------------------------------------------------------
```

Table 408.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	PI_WSR_HEADER	
----------! Eyecatcher ! ----------!				
(0)	CHARACTER	8	PI_WSH_PREFIX	

Table 408. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	PI_WSH_LENGTH	
(2)	CHARACTER	1	PI_WSH_ARROW	'>'
(3)	CHARACTER	3	PI_WSH	'WHB'
(6)	CHARACTER	2	*	reserved
(8)	CHARACTER	56	PI_WSH_CONTROL	General control area
(8)	ADDRESS	4	PI_WSH_ FIRSTWSR_ADDR	
(C)	FULLWORD	4	PI_WSH_ NUMBER_INSTALLED	
(10)	ADDRESS	4	PI_WSH_ LOCK_TOKEN	Shared lock !@LTA
(14)	CHARACTER	44	*	

```
!:erefstep.dfhpidc_ dcl_wsb_ header -----------------------------------
!:refstep.dfhpidc_  dcl_index --------------------------- DFHPIDC 600 -
!
!
! !@MGA
  ! Purpose Structure of Webservice Resource index entry !
! Key CICS !
  ! Lifetime While any webservices are installed !
! Subpool PI_ GENERAL !
! Base Addr pi_ wsr_index_ offset !
  ! Created byDFHPIWR !
  ! Deleted byDeleting the webservice resource !
!
! !
!
  !-----------------------------------------------------------------------
```

Table 409.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	776	PI_WSR_ INDEX_ENTRY	
(0)	CHARACTER	776	PI_WSR_ WSDL_INTERNAL_MDL	
				Repeated for each operation
(0)	CHARACTER	255	PI_WSR_ OPERATION_NAME	
				Operation, null padded
(FF)	CHARACTER	255	PI_WSR_ OPERATION_SIG	
				Signature, null padded
(1FE)	BIT(8)	1	PI_WSR_ HTTP_METHOD	
				Bits for HTTP method

Table 409. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1111 11..		*	Reserved
	.... ..1.		PI_WSR_ HTTP_POST	Method is POST
	1		PI_WSR_ HTTP_GET	Method is GET
(1FF)	BIT(8)	1	PI_WSR_MEP	Flag bits for MEP
	1111		*	Reserved
	.... 1...		PI_WSR_ MEP_IN_OPT_OUT	
				In optional out
	.... .1..		PI_WSR_ MEP_ROBUST_ IN_ONLY	
				Robust in only
	.... ..1.		PI_WSR_ MEP_IN_OUT	
				In out
	1		PI_WSR_ MEP_IN_ONLY	
				In only
(200)	FULLWORD	4	PI_WSR_ INPUT_ICM_OFFSET	
(204)	FULLWORD	4	PI_WSR_ OUTPUT_ICM_OFFSET	
(208)	CHARACTER	255	PI_WSR_ SOAP_ACTION	
(307)	CHARACTER	1	*	Alignment padding

```
!:erefstep.dfhpidc_dcl_index ----------------------------------------
!:refstep.dfhpidc_dcl_pipl_header ---------------------- DFHPIDC 662 -
!
! Purpose Structure of Pipeline Element header block
! Key CICS
! Lifetime While any pipelines are installed
! Subpool PI_GENERAL
! Base Addr pia_pih_header_addr
! Created byDFHPIPL
! Deleted byDeleting the last pipeline resource
!
!--------------------------------------------------------------------
```

Table 410.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	80	PI_PIH_HEADER	
----------! Eyecatcher ! ----------!				
(0)	CHARACTER	16	PI_PIH_PREFIX	

Table 410. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	PI_PIH_LENGTH	
(2)	CHARACTER	1	PI_PIH_ARROW	'>'
(3)	CHARACTER	3	PI_PIH_EYEC1	'DFH'
(6)	CHARACTER	2	PI_PIH_EYEC2	'PI'
(8)	CHARACTER	8	PI_PIH	'PIH'
(10)	CHARACTER	64	PI_PIH_CONTROL	General control area
(10)	ADDRESS	4	PI_PIH_ FIRSTPEB_ADDR	
(14)	FULLWORD	4	PI_PIH_ NUMBER_INSTALLED	
(18)	FULLWORD	4	PI_PIH_ NUMBER_COMPLETION	
(1C)	ADDRESS	4	PI_PIH_ ENQPOOL_TOKEN	
				Enq token
(20)	OBJECT	40	PI_PIH_ PIPEB_DCHAIN	
(28)	OBJECT	16	ITER0	
(30)	CHARACTER	8	*	
(30)	ADDRESS	4	PREV	
(34)	ADDRESS	4	NEXT	
(38)	OBJECT	16	NODE0	
(40)	CHARACTER	8	*	
(40)	ADDRESS	4	PREV	
(44)	ADDRESS	4	NEXT	
(48)	CHARACTER	8	*	

```
!:erefstep.dfhpidc_ dcl_pipl_ header ----------------------------------
!:refstep.dfhpidc_ dcl_pipeline_ element ---------------- DFHPIDC 694 -
!
  ! Purpose Structure of Pipeline Element resource
! Key CICS
  ! Lifetime Pipeline
! Subpool PI_ GENERAL
! Base Addr pia_ ptr
  ! Created byDFHPIPL
  ! Deleted byDeleting a pipeline resource
!
  !--------------------------------------------------------------------
```

Table 411.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1384	DFHPIPEB	PI Elements Anchor
(0)	CHARACTER	16	PIPEB_PREFIX	
(0)	HALFWORD	2	PIPEB_LEN	Block Length

Table 411. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER	1	PIPEB_ARROW	>
(3)	CHARACTER	3	PIPEB_EYEF1	DFH
(6)	CHARACTER	2	PIPEB_EYEF2	PI
(8)	CHARACTER	8	PIPEB_EYEF3	PEB
(10)	OBJECT	16	PIPEB_PIH_NODE	
(18)	CHARACTER	8	*	
(18)	ADDRESS	4	PREV	
(1C)	ADDRESS	4	NEXT	
entry in the pih_pipeb_dchain list				
(20)	CHARACTER	8	PIPEB_PNAME	Pipeline name
(28)	UNSIGNED	4	PIPEB_COUNT	use count
(2C)	UNSIGNED	4	PIPEB_TOTAL_ USE_COUNT	
				use count for stats
(30)	OBJECT	40	PIPEB_SCHAIN	sne dchain
(38)	OBJECT	16	ITER0	sne dchain
(40)	CHARACTER	8	*	sne dchain
(40)	ADDRESS	4	PREV	sne dchain
(44)	ADDRESS	4	NEXT	sne dchain
(48)	OBJECT	16	NODE0	sne dchain
(50)	CHARACTER	8	*	sne dchain
(50)	ADDRESS	4	PREV	sne dchain
(54)	ADDRESS	4	NEXT	sne dchain
(58)	OBJECT	40	PIPEB_NCHAIN	tne dchain
(60)	OBJECT	16	ITER0	tne dchain
(68)	CHARACTER	8	*	tne dchain
(68)	ADDRESS	4	PREV	tne dchain
(6C)	ADDRESS	4	NEXT	tne dchain
(70)	OBJECT	16	NODE0	tne dchain
(78)	CHARACTER	8	*	tne dchain
(78)	ADDRESS	4	PREV	tne dchain
(7C)	ADDRESS	4	NEXT	tne dchain
chain of NAMED TRANSPORT ELEMENTS (NTE's)				
(80)	OBJECT	40	PIPEB_DCHAIN	tne dchain
(88)	OBJECT	16	ITER0	tne dchain
(90)	CHARACTER	8	*	tne dchain
(90)	ADDRESS	4	PREV	tne dchain
(94)	ADDRESS	4	NEXT	tne dchain
(98)	OBJECT	16	NODE0	tne dchain

Table 411. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	CHARACTER	8	*	tne dchain
(A0)	ADDRESS	4	PREV	tne dchain
(A4)	ADDRESS	4	NEXT	tne dchain
chain of DEFAULT TRANSPORT NODES (TNE's)				
(A8)	OBJECT	40	PIPEB_HCHAIN	tne dchain
(B0)	OBJECT	16	ITER0	tne dchain
(B8)	CHARACTER	8	*	tne dchain
(B8)	ADDRESS	4	PREV	tne dchain
(BC)	ADDRESS	4	NEXT	tne dchain
(C0)	OBJECT	16	NODE0	tne dchain
(C8)	CHARACTER	8	*	tne dchain
(C8)	ADDRESS	4	PREV	tne dchain
(CC)	ADDRESS	4	NEXT	tne dchain
chain of DEFAULT HTTP TRANSPORT NODES (TNE's)				
(D0)	OBJECT	40	PIPEB_MCHAIN	tne dchain
(D8)	OBJECT	16	ITER0	tne dchain
(E0)	CHARACTER	8	*	tne dchain
(E0)	ADDRESS	4	PREV	tne dchain
(E4)	ADDRESS	4	NEXT	tne dchain
(E8)	OBJECT	16	NODE0	tne dchain
(F0)	CHARACTER	8	*	tne dchain
(F0)	ADDRESS	4	PREV	tne dchain
(F4)	ADDRESS	4	NEXT	tne dchain
chain of DEFAULT MQ TRANSPORT NODES				
(F8)	OBJECT	40	PIPEB_XCHAIN	tse dchain
(100)	OBJECT	16	ITER0	tse dchain
(108)	CHARACTER	8	*	tse dchain
(108)	ADDRESS	4	PREV	tse dchain
(10C)	ADDRESS	4	NEXT	tse dchain
(110)	OBJECT	16	NODE0	tse dchain
(118)	CHARACTER	8	*	tse dchain
(118)	ADDRESS	4	PREV	tse dchain
(11C)	ADDRESS	4	NEXT	tse dchain
chain of TRANSACTION SUSPEND ELEMENTS (TSE's)				
(120)	ADDRESS	4	PIPEB_HEADER	header (pih)
(124)	CHARACTER	8	PIPEB_DEF_TGT	
(124)	ADDRESS	4	PIPEB_DEF_TGT_P	ptr to def_tgt
(128)	FULLWORD	4	PIPEB_DEF_TGT_L	length of def_tgt
ptr to DFHPITNE for requester default_target				
(12C)	CHARACTER	8	PIPEB_LOCKN	Lock Name

Table 411. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(134)	ADDRESS	4	PIPEB_LOCKT	Token
(138)	CHARACTER	8	PIPEB_PIP	
(138)	ADDRESS	4	PIPEB_PIP_P	ptr to parm list
(13C)	FULLWORD	4	PIPEB_PIP_N	length of parm list
(140)	CHARACTER	8	PIPEB_APPHANDLER	apphandler name
(148)	UNSIGNED	1	PIPEB_STATUS	ena|dis|etc
(149)	UNSIGNED	1	PIPEB_D_STATE	desired state
(14A)	UNSIGNED	1	PIPEB_TYPE	req|prov
(14B)	CHARACTER	255	PIPEB_CFILE	Config file name
(24A)	CHARACTER	1	*	reserved
(24B)	CHARACTER	255	PIPEB_SHELF	Shelf name
(34A)	CHARACTER	1	*	reserved
(34B)	CHARACTER	255	PIPEB_WSDIR	WSBind file dir
(44A)	CHARACTER	1	PIPEB_FLAGS1	flags
	1...		PIPEB_HFS_DONE	hfs done
	.1..		PIPEB_SCAN	scan indicator
	..1.		PIPEB_SCANTYPE	implicit or explicit ?
	...1		PIPEB_IS_ FLAG_HELD	
				lock held ?
	.... 1...		PIPEB_VALID	pipeline valid ?
	.... .1..		PIPEB_RESPWAIT_ SET	
				respwait was set
	11		*	reserved
(44B)	CHARACTER	1	PIPEB_FLAGS2	SOAP related flags
	1...		PIPEB_SOAP11	SOAP11 pipeline
	.1..		PIPEB_SOAP12	SOAP12 pipeline
	..1.		PIPEB_MTOM	MTOM supported
	...1		PIPEB_SM_SAME	SEND_MTOM = SAME
	.... 1...		PIPEB_SM_YES	SEND_MTOM = YES
	.... .1..		PIPEB_MTOMNOXOP	SEND_WHEN = YES/NO
	.... ..1.		PIPEB_XOPSUPPORT	APPHANDLER_SUPPORTS
	1		PIPEB_XOPDIRECT	Direct mode XOP

Table 411. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44C)	CHARACTER	16	PIPEB_DERIVED_SHELF	
(44C)	ADDRESS	4	PIPEB_DERIVED_SHELF_P	
				ptr to derived shelf
(450)	FULLWORD	4	PIPEB_DERIVED_SHELF_N	
				length of data
(454)	FULLWORD	4	PIPEB_DERIVED_SHELF_M	
				max length of data
(458)	FULLWORD	4	*	reserved
(45C)	CHARACTER	8	PIPEB_DERIVED_CONFIG	
(45C)	ADDRESS	4	PIPEB_DERIVED_CONFIG_P	
				ptr for config file
(460)	FULLWORD	4	PIPEB_DERIVED_CONFIG_N	
				length of file name
(464)	FULLWORD	4	PIPEB_RESPWAIT	timeout in seconds
(468)	CHARACTER	256	PIPEB_CID_DOMAIN	
(468)	UNSIGNED	1	PIPEB_CICS_DOMAIN_LEN	
(469)	CHARACTER	255	PIPEB_CICS_DOMAIN_DATA	
(568)	CHARACTER	0	*	for alignment

```
!:erefstep.dfhpidc_dcl_pipeline_element -----------------------------
!:refstep.dfhpidc_dcl_service_node_element ------------ DFHPIDC 814 -
!
! Purpose Structure of Pipeline Service Node Element
! Key CICS
! Lifetime Pipeline
! Subpool PI_GENERAL
! Base Addr
! Created byDFHPIPL
! Deleted byDeleting a pipeline resource
!
!---------------------------------------------------------------------
```

Table 412.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	90	DFHPISNE	Service Node
(0)	CHARACTER	16	PISN_PREFIX	

Table 412. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	PISN_LEN	Block Length
(2)	CHARACTER	1	PISN_ARROW	>
(3)	CHARACTER	3	PISN_EYEF1	DFH
(6)	CHARACTER	2	PISN_EYEF2	PI
(8)	CHARACTER	8	PISN_EYEF3	SNE
entry in the pipeb_schain list				
(10)	OBJECT	16	PISN_PIPEB_NODE	
(18)	CHARACTER	8	*	
(18)	ADDRESS	4	PREV	
(1C)	ADDRESS	4	NEXT	
(20)	CHARACTER	8	PISN_SNPGM	program name
(28)	CHARACTER	8	PISN_SNDATA	
(28)	ADDRESS	4	PISN_SNDATA_P	ptr to any data
(2C)	FULLWORD	4	PISN_SNDATA_N	length of data
(30)	OBJECT	40	PISN_HCHAIN	headerpgm info
(38)	OBJECT	16	ITER0	headerpgm info
(40)	CHARACTER	8	*	headerpgm info
(40)	ADDRESS	4	PREV	headerpgm info
(44)	ADDRESS	4	NEXT	headerpgm info
(48)	OBJECT	16	NODE0	headerpgm info
(50)	CHARACTER	8	*	headerpgm info
(50)	ADDRESS	4	PREV	headerpgm info
(54)	ADDRESS	4	NEXT	headerpgm info
(58)	UNSIGNED	1	PISN_SNTYPE	
(node|cicssoap11|cicssoap12)				
(59)	CHARACTER	1	PISN_SNFLAGS	flags
	1...		PISN_TERMINAL_NODE	
				hfs done
	.111 1111		*	hfs done

```
!:erefstep.dfhpidc_dcl_service_node_element -------------------------
!:refstep.dfhpidc_dcl_transport_node_element ---------- DFHPIDC 857 -
!
! Purpose Structure of Pipeline Transport Node Element
! Key CICS
! Lifetime Pipeline
! Subpool PI_GENERAL
! Base Addr
! Created byDFHPIPL
! Deleted byDeleting a pipeline resource
!
!-------------------------------------------------------------------
  -------------------------------------------------------------------
```

```
   pitn_def_target is only filled in for a DEFAULT_TARGET TNE and
   then pitn_tnpgm and pitn_tndata remain unset, i.e. zeros
  ----------------------------------------------------------------
```

Table 413.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	DFHPITNE	PI Service Node
(0)	CHARACTER	16	PITN_PREFIX	
(0)	HALFWORD	2	PITN_LEN	Block Length
(2)	CHARACTER	1	PITN_ARROW	>
(3)	CHARACTER	3	PITN_EYEF1	DFH
(6)	CHARACTER	2	PITN_EYEF2	PI
(8)	CHARACTER	8	PITN_EYEF3	TNE
entry in the pipeb_tchain list				
(10)	OBJECT	16	PITN_PIPEB_NODE	
(18)	CHARACTER	8	*	
(18)	ADDRESS	4	PREV	
(1C)	ADDRESS	4	NEXT	
(20)	CHARACTER	8	PITN_TNPGM	name of program
(28)	CHARACTER	8	PITN_TNDATA	
(28)	ADDRESS	4	PITN_TNDATA_P	ptr to the data
(2C)	FULLWORD	4	PITN_TNDATA_N	length of data
pitn_def_target is only valid in a requester_pipeline				
(30)	CHARACTER	1	PITN_TNTYPE	
	1...		PITN_TNDEFAULT	Default Transport ?
	.1..		PITN_TNMETHOD	HTTP or MQ
	..11 1111		*	reserved
(31)	CHARACTER	7	*	reserved

```
!:erefstep.dfhpidc_dcl_transport_node_element ----------------------
!:refstep.dfhpidc_dcl_suspend_element ----------------- DFHPIDC 903 -
!
! Purpose Structure of Pipeline Transaction Suspend Element
! Key CICS
! Lifetime Pipeline
! Subpool PI_GENERAL
! Base Addr
! Created byDFHPIPL
! Deleted byAfter a task is resumed
!
!----------------------------------------------------------------
```

Table 414.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	DFHPITSE	PI Task Suspend Element
(0)	OBJECT	16	PITSE_TSE_NODE	

Table 414. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	8	*	
(8)	ADDRESS	4	PREV	
(C)	ADDRESS	4	NEXT	
entry in the pipeb_xchain list				
(10)	ADDRESS	4	PITSE_SUSP_TOKEN	

```
!:erefstep.dfhpidc_ dcl_suspend_ element ------------------------------
!:refstep.dfhpidc_ dcl_named_ transport_element --------- DFHPIDC 922 -
!
  ! Purpose Structure of Pipeline Named Transport Element
! Key CICS
  ! Lifetime Pipeline
! Subpool PI_ GENERAL
! Base Addr
  ! Created byDFHPIPL
  ! Deleted byWhen pipeline is discarded or CICS terminated
!
  !--------------------------------------------------------------------
```

Table 415.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	81	DFHPINTE	PI Service Node
(0)	CHARACTER	16	PINT_PREFIX	
(0)	HALFWORD	2	PINT_LEN	Block Length
(2)	CHARACTER	1	PINT_ARROW	>
(3)	CHARACTER	3	PINT_EYEF1	DFH
(6)	CHARACTER	2	PINT_EYEF2	PI
(8)	CHARACTER	8	PINT_EYEF3	NTE
entry in the pipeb_nchain list				
(10)	OBJECT	16	PINT_PIPEB_NODE	
(18)	CHARACTER	8	*	
(18)	ADDRESS	4	PREV	
(1C)	ADDRESS	4	NEXT	
(20)	OBJECT	40	PINT_TCHAIN	
(28)	OBJECT	16	ITER0	
(30)	CHARACTER	8	*	
(30)	ADDRESS	4	PREV	
(34)	ADDRESS	4	NEXT	
(38)	OBJECT	16	NODE0	
(40)	CHARACTER	8	*	
(40)	ADDRESS	4	PREV	
(44)	ADDRESS	4	NEXT	
(48)	CHARACTER	8	PINT_NAME	
(48)	ADDRESS	4	PINT_NAME_P	NTE name ptr

Table 415. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	FULLWORD	4	PINT_NAME_N	NTE name length
(50)	CHARACTER	1	PINT_FLAGS	NTE name ptr
	1...		PINT_TYPE	NTE type
	.111 1111		*	reserved

```
!:erefstep.dfhpidc_dcl_named_transport_element ----------------------
!:refstep.dfhpidc_dcl_header_program_element ---------- DFHPIDC 959 -
!
! Purpose Structure of Pipeline Header Program Element
! Key CICS
! Lifetime Pipeline
! Subpool PI_GENERAL
! Base Addr
! Created byDFHPIPL
! Deleted byWhen pipeline is discarded or CICS terminated
!
!------------------------------------------------------------------------
```

Table 416.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	57	DFHPIHPE	PI Header Program Element
(0)	CHARACTER	16	PIHP_PREFIX	
(0)	HALFWORD	2	PIHP_LEN	Block Length
(2)	CHARACTER	1	PIHP_ARROW	>
(3)	CHARACTER	3	PIHP_EYEF1	DFH
(6)	CHARACTER	2	PIHP_EYEF2	PI
(8)	CHARACTER	8	PIHP_EYEF3	HPE
entry in the pipeb_nchain list				
(10)	OBJECT	16	PIHP_PISN_NODE	
(18)	CHARACTER	8	*	
(18)	ADDRESS	4	PREV	
(1C)	ADDRESS	4	NEXT	
(20)	CHARACTER	8	PIHP_PGM	HPE program name
(28)	CHARACTER	8	PIHP_NAMESPACE	
(28)	ADDRESS	4	PIHP_XNS_P	HPE xns ptr
(2C)	FULLWORD	4	PIHP_XNS_N	HPE xns length
(30)	CHARACTER	8	PIHP_LOCALNAME	
(30)	ADDRESS	4	PIHP_LCL_P	HPE lcln ptr
(34)	FULLWORD	4	PIHP_LCL_N	HPE lcln length
(38)	CHARACTER	1	PIHP_FLAGS	HPE flags
	1...		PIHP_MANDATORY	HPE mandatory (T/F)

Table 416. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.111 1111		*	reserved

```
-------------------------------------------------------------------
 Mapping of data within DFHWS-MTOM-IN or OUT container.
-------------------------------------------------------------------
```

Table 417.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	DFHWS_MTOM_TYPE	Overall structure !@MSA
(0)	FULLWORD	4	MTOM_STATUS	MTOM was or will be used !
(4)	FULLWORD	4	MTOMNOXOP_STATUS	MTOM used when no XOP !
(8)	FULLWORD	4	XOP_MODE	XOP processing mode !@MSA

```
-------------------------------------------------------------------
 The ICM Header section
 The index_entry is needed to be able to perform a binary search
 on the indexes which must be properly sorted. In order to reduce
 run-time search overheads, an optimized index is created at run
 time which is in the same sequence but has range limits for each
 level of the index tree so that it is only necessary to search the
 part of the subtree which is for the current structure level.
-------------------------------------------------------------------
```

Table 418.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHICM_HEADER	
(0)	CHARACTER	8	ICM_EYE_CATCHER	DFHICM< eyecatcher
(8)	FULLWORD	4	ICM_VERSION_ MAJOR	major version number
(C)	FULLWORD	4	ICM_VERSION_ MINOR	minor version number
(10)	FULLWORD	4	*	
(14)	FULLWORD	4	ICM_LENGTH	total length
(18)	CHARACTER	32	ICM_NAME	name of this ICM
(38)	FULLWORD	4	*	
(3C)	FULLWORD	4	STRUCT_SIZE	memory needed to store
the elements ie commare size				
(40)	FULLWORD	4	*	
(44)	PTR INTOAREA	4	HD_XML_ TEMPLATE_OFF	
				toplevel XML tmplte

Table 418. (continued)

Offset Hex	Type	Len	Name (dim)	Description
for building the output XML stream				
(48)	FULLWORD	4	*	
(4C)	FULLWORD	4	HD_XML_ TEMPLATE_LEN	
				length of XML template
(50)	FULLWORD	4	*	
(54)	PTR INTOAREA	4	HDR_DATA_OFF	data section
(58)	CHARACTER	*	DFHICM_INDEX	
(58)	FULLWORD	4	INDEX_COUNT	number of index entries
(5C)	PTR INTOAREA	3	OPT_INDEX_OFF	
(5F)	CHARACTER	1	*	ICM property flags !@M8A
	11..		*	
	..1.		ICM_OPT_ INDEXED	Optimised index present!
	...1		ICM_XOP_ ELIGIBLE	Contains base64 fields !
	.... 1...		ICM_FOR_ RESPONSE	ICM is for a response !
	.... .1..		ICM_FOR_ REQUEST	ICM is for a request !
	.... ..1.		ICM_USES_ ATTRIBUTES	
	1		ICM_NS_ SIGNIFICANT	
				Index uses namespaces
(60)	PTR INTOAREA	2	INDEX_ENTRY (*)	ptrs to them

```
------------------------------------------------------------------
 The ICM index section.
 This section appears immediately after the index_count field of
 the ICM header. The index data is a variable length array, the
 number of elements of which is in the index count.
------------------------------------------------------------------
```

Table 419.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	DFHICM_XPATH_DESC	
(0)	CHARACTER	2	LEN	
(0)	UNSIGNED	1	XD_NAMESPACE_ LEN	namespace string length
(1)	UNSIGNED	1	XD_LOCAL_ NAME_LEN	local name string length

Table 419. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER	6	*	doubleword alignment
(8)	CHARACTER	16	VALUE	
(8)	FULLWORD	4	*	
(C)	PTR INTOAREA	4	XD_NAMESPACE	
(10)	FULLWORD	4	*	
(14)	PTR INTOAREA	4	XD_LOCAL_NAME	

Table 420.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	DFHICM_XPATH_CTRL	
(0)	HALFWORD	2	PART_COUNT	number of xpath parts
(2)	PTR INTOAREA	2	NEXT_PART_OFF	nxt offset
(4)	PTR INTOAREA	4	DATA_OFF	data offset

Table 421.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHICM_ INDEX_DESC_ENTRY	
(0)	CHARACTER IsA(DFHICM_XPATH_CTRL)	8	XPATH_CTRL	
(0)	HALFWORD	2	PART_COUNT	number of xpath parts
(2)	PTR INTOAREA	2	NEXT_PART_OFF	nxt offset
(4)	PTR INTOAREA	4	DATA_OFF	data offset
(8)	CHARACTER IsA(DFHICM_XPATH_DESC)	24	XPATH_DATA (*)	
(8)	CHARACTER	2	LEN	
(8)	UNSIGNED	1	XD_NAMESPACE_ LEN	namespace string length
(9)	UNSIGNED	1	XD_LOCAL_ NAME_LEN	
				local name string length
(A)	CHARACTER	6	*	doubleword alignment
(10)	CHARACTER	16	VALUE	
(10)	FULLWORD	4	*	
(14)	PTR INTOAREA	4	XD_NAMESPACE	
(18)	FULLWORD	4	*	
(1C)	PTR INTOAREA	4	XD_LOCAL_NAME	

Table 422.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE IsA(DFHICM_INDEX_DESC_ENTRY)	*	DFHICM_INDEX_ENTRY	
(0)	STRUCTURE IsA(DFHICM_XPATH_CTRL)	8	XPATH_CTRL	
(0)	HALFWORD	2	PART_COUNT	number of xpath parts
(2)	PTR INTOAREA	2	NEXT_PART_OFF	nxt offset
(4)	PTR INTOAREA	4	DATA_OFF	data offset
(8)	STRUCTURE IsA(DFHICM_XPATH_DESC)	24	XPATH_DATA (*)	
(8)	CHARACTER	2	LEN	
(8)	UNSIGNED	1	XD_NAMESPACE_LEN	namespace string length
(9)	UNSIGNED	1	XD_LOCAL_NAME_LEN	
				local name string length
(A)	CHARACTER	6	*	doubleword alignment
(10)	CHARACTER	16	VALUE	
(10)	FULLWORD	4	*	
(14)	PTR INTOAREA	4	XD_NAMESPACE	
(18)	FULLWORD	4	*	
(1C)	PTR INTOAREA	4	XD_LOCAL_NAME	

```
-------------------------------------------------------------------
 The ICM data section
 The ICM data section immediately appears after the index section.
 The data records are of varying lengths where the length depends
 upon the record type. During XML input processing, entries are
 located via the index. During output processing, entries are
 scanned sequentially.
-------------------------------------------------------------------
-------------------------------------------------------------------
 General ICM entry structure.
-------------------------------------------------------------------
```

Table 423.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHICM_ENTRY	
(0)	UNSIGNED	1	ENTRY_TYPE	
(1)	CHARACTER	*	*	

```
-------------------------------------------------------------------
type_  1 record structure
  Data entry structure defining a field to be converted.
-------------------------------------------------------------------
```

Table 424.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	DFHICM_DATA_ENTRY	
(0)	UNSIGNED	1	*	
(1)	UNSIGNED	1	CONVERT_TYPE	
(2)	UNSIGNED	2	DATA_LENGTH	Low 16 bits of LAR !@POC
(4)	UNSIGNED	1	DATA_SIGN	the SAR,
(5)	UNSIGNED	1	DATA_WHITESPACE	
(6)	HALFWORD	2	NAMESPACE_LEN	namespace length
(8)	HALFWORD	2	NAME_LEN	local name length
(A)	UNSIGNED	1	DATA_LENGTH_HH	High byte of LAR >64K !
(B)	UNSIGNED	1	DE_LOC_NAME_LEN	location name length
(C)	HALFWORD	2	DEFAULT_VAL_LEN	default string length
(E)	BIT(8)	1	DE_FLAGS	Flag byte
	1...		DE_PURE_DBCS	DBCS without SO/SI
	.1..		DE_SIGN_LEADING	COBOL leading sign
	..1.		DE_SIGN_ SEPARATE	COBOL separate sign
	...1 1...		*	
	.... .1..		DE_VARYING_ CONTAINER	
				Stored in container
	.... ..1.		DE_VARYING_ PREFIX	Var length with prefix
	1		DE_VARYING_NULL	Var length using null
(F)	UNSIGNED	1	*	
(10)	CHARACTER	48	DE_DATA_OFFSET	
(10)	FULLWORD	4	*	
(14)	FULLWORD	4	DE_CONTAINER	
(18)	FULLWORD	4	*	
(1C)	PTR INTOAREA	4	DE_NAMESPACE	
(20)	FULLWORD	4	*	
(24)	PTR INTOAREA	4	LOCAL_NAME	
(28)	FULLWORD	4	*	
(2C)	PTR INTOAREA	4	DE_LOC_NAME	

Table 424. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	FULLWORD	4	*	
(34)	PTR INTOAREA	4	DEFAULT_VALUE	
(38)	FULLWORD	4	*	
(3C)	PTR INTOAREA	4	*	

```
 ------------------------------------------------------------------
type_  2 record structure
  This record represents a fixed length array of primitive or
complex types.
  Usage notes : On parsing XML, this record will be pointed to by
   the index entry. A temporary storage will be allocated and
   controlled by a 'manager'. Each element will create its data
   and use the 'manager' to store the data to the temprary storage.
   When &lt;end-element> is reached, the number of elements is compared
 the the content_  count. The temporary storage is copied to the
   offset indicated by 'structure' then deleted.
   On parsing a commarea/channel, the ICM is read sequentially. The
   data is obtained using the 'structure' offset.
  ------------------------------------------------------------------
```

Table 425.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	DFHICM_ FIXED_REPEAT_ ENTRY	
(0)	UNSIGNED	1	*	
(1)	BIT(8)	1	FE_CONTENT_DESC	Content description
	1111 11..		*	
	.... ..1.		FE_CONTENT_ MIXED	Can contain mixed content
	1		FE_CONTENT_ STRUCT	Content is a structure
(2)	HALFWORD	2	FE_CONTENT_COUNT	Array dimension
(4)	HALFWORD	2	*	
(6)	UNSIGNED	1	FE_LOC_NAME_LEN	Location name length
(7)	UNSIGNED	1	FE_STRUCT_ NAME_LEN	length of structure name
(8)	FULLWORD	4	*	
(C)	FULLWORD	4	FE_CONTENT_LEN	Size of one element. PDI
talks about structure size. Does this also apply to primitive				
(10)	CHARACTER	24	FE_DATA_OFFSET	
(10)	FULLWORD	4	*	
(14)	FULLWORD	4	FE_CONTAINER	
(18)	FULLWORD	4	*	
(1C)	PTR INTOAREA	4	FE_LOC_NAME	

Table 425. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	FULLWORD	4	*	
(24)	PTR INTOAREA	4	FE_STRUCT_NAME	
(28)	FULLWORD	4	*	
(2C)	PTR INTOAREA	4	FE_XML_ TEMPLATE_LEN	
(30)	FULLWORD	4	*	
(34)	PTR INTOAREA	4	FE_XML_ TEMPLATE_OFF	

```
   ------------------------------------------------------------------
  type_  3 record structure
    A type 3 record represents a variable/unbounded array of stuff.
    Handling it is similar to handling fixed arrays except that the
    data is stored/retrieve from a channel. A token consisting of
    the number of elements and the channel name is stored in the
    'parent channel/commarea'. Think of this 'token' as the forwarding
    address to where the data actually is.
    Variable length data can't be stored in a commarea due to a
commarea's fixed storage limitation. Channels to the rescue !!!
   ------------------------------------------------------------------
```

Table 426.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	DFHICM_ VARIABLE_ REPEAT_ENTRY	
(0)	UNSIGNED	1	*	
(1)	BIT(8)	1	VE_CONTENT_DESC	Content description
	1111 11..		*	
	.... ..1.		VE_CONTENT_ MIXED	Can contain mixed content
	1		VE_CONTENT_ STRUCT	Content is a structure
(2)	CHARACTER	4	VE_CONTENT_COUNT	
(2)	HALFWORD	2	MAXIMUM	maxOccurs or -1 for
no bounds. I hope users don't take this seriously				
(4)	HALFWORD	2	MINIMUM	
(6)	UNSIGNED	1	VE_LOC_NAME_LEN	
(7)	UNSIGNED	1	VE_STRUCT_ NAME_LEN	
(8)	FULLWORD	4	*	
(C)	FULLWORD	4	VE_CONTENT_LEN	Size of one element
(10)	CHARACTER	24	VE_DATA_OFFSET	
(10)	FULLWORD	4	*	

Table 426. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	FULLWORD	4	VE_CONTAINER	
(18)	FULLWORD	4	*	
(1C)	PTR INTOAREA	4	VE_LOC_NAME	
(20)	FULLWORD	4	*	
(24)	PTR INTOAREA	4	VE_STRUCT_NAME	
(28)	FULLWORD	4	*	
(2C)	PTR INTOAREA	4	VE_XML_ TEMPLATE_LEN	
(30)	FULLWORD	4	*	
(34)	PTR INTOAREA	4	VE_XML_ TEMPLATE_OFF	

```
 ---------------------------------------------------------------------
type_  4 record structure
This structure terminates the list of elements beloging to a type_
  2 record. In XML generation, this record tells the processor to
'loop back' to the corresponding type_  2 record while elements are
  still forthcoming in the input stream.
  In XML parsing, it is really not needed.
 ---------------------------------------------------------------------
```

Table 427.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	DFHICM_ END_REPEAT_ENTRY	
(0)	UNSIGNED	1	*	Entry type
(1)	CHARACTER	7	*	Padding to doubleword

```
---------------------------------------------------------------------
 type_5 record structure
 this record serves as the ICM end-of-file indicator
---------------------------------------------------------------------
```

Table 428.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	DFHICM_ END_OF_FILE_ENTRY	
(0)	UNSIGNED	1	*	Entry type
(1)	CHARACTER	7	*	Padding to doubleword

```
---------------------------------------------------------------------
 Layout of extended ICM types.
 Extended data, extended fixed repeat and extended variable repeat
 are types 6, 7 and 8. For these entry types, the entry details
 consist of the corresponding non-extended ICM entry.
---------------------------------------------------------------------
```

Table 429.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHICM_ EXTENDED_ENTRY	
(0)	CHARACTER	24	EX_PREFIX	Extended entry prefix
(0)	UNSIGNED	1	*	ICM entry type
(1)	UNSIGNED	1	EX_NUM_ ATTRIBUTES	Number of attributes
(2)	HALFWORD	2	EX_ENTRY_LENGTH	Length of this ICM entry
(4)	PTR INTOAREA	4	EX_NEXT_ ICM_ENTRY	Next entry
(8)	PTR INTOAREA	4	EX_FIRST_ ATTRIBUTE	
				Attr head
(C)	PTR INTOAREA	4	EX_END_REPEAT	Repeat end
(10)	CHARACTER	8	*	Expansion, dwd alignment
(18)	CHARACTER	*	EX_ENTRY_DETAILS	Type-specific details

```
------------------------------------------------------------------------
 Attribute entry (type 9).
 The prefix part of this is in the same format as other extended
 entry types.
------------------------------------------------------------------------
```

Table 430.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	DFHICM_ ATTRIBUTE_ENTRY	
(0)	CHARACTER	24	AT_PREFIX	Attribute entry prefix
(0)	UNSIGNED	1	*	ICM entry type
(1)	UNSIGNED	1	*	Number of attributes
(2)	HALFWORD	2	AT_ENTRY_LENGTH	Length of this ICM entry
(4)	PTR INTOAREA	4	AT_NEXT_ ICM_ENTRY	Next entry
(8)	PTR INTOAREA	4	AT_NEXT_ ATTRIBUTE	Attr head
(C)	CHARACTER	12	*	Expansion, dwd alignment
(18)	CHARACTER	16	AT_ENTRY_DETAILS	Attribute details
(18)	BIT(8)	1	AT_FLAGS	Flags
	1...		AT_OPTIONAL	Attribute is optional

Table 430. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		AT_NILLABLE	Attribute supports xsi:nil
	..1.		AT_FIXED	Attribute has fixed value
	...1		AT_IMPLIED	Optional with no default
	.... 1...		AT_XMIME_ CONTENT	xmime:contentType attribute@MMA
	.... .111		*	
(19)	UNSIGNED	1	AT_TEMPLATE_LEN	Length of prefix template
(1A)	CHARACTER	2	*	
(1C)	FULLWORD	4	AT_EXISTENCE_ BYTE	Offset of existence byte
(20)	FULLWORD	4	*	
(24)	PTR INTOAREA	4	AT_TEMPLATE_OFF	Template addr
(28)	CHARACTER	0	*	Alignment to doubleword

```
!:refstep.dfhpidc_dcl_pimb_memory_manager ------------ DFHPIDC 1014 -
!
! Purpose Structure of a Memory Manger
! Key CICS
! Lifetime Varies
! Subpool By caller
! Base Addr
! Created byDFHPIPS
! Deleted byDFHPIPS
!
!--------------------------------------------------------------------
```

Table 431.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	PIMB_BLOCK	
(0)	CHARACTER	8	PIMB_EYECATCHER	
(8)	CHARACTER	8	PIMB_SUBPOOL_ TOKEN	
(10)	CHARACTER	8	PIMB_BLOCK_ COMMENT	
(18)	FULLWORD	4	PIMB_BLOCKSIZE	
(1C)	ADDRESS	4	PIMB_FIRST_ BUFFER	
(20)	ADDRESS	4	PIMB_CURRENT_ BUFFER	
(24)	ADDRESS	4	PIMB_NEXT_FREE	
(28)	ADDRESS	4	PIMB_STACK_PTR	
(2C)	FULLWORD	4	PIMB_RESPONSE	
(30)	FULLWORD	4	PIMB_REASON	

```
!:erefstep.dfhpidc_ dcl_pimb_ memory_manager --------------------------
!:refstep.dfhpidc_ dcl_pipo_ policy_element ------------ DFHPIDC 1042 -
!
  ! Purpose Structure of a Policy Element
! Key CICS
  ! Lifetime Varies
  ! Subpool By caller
! Base Addr
  ! Created byDFHPIPS
  ! Deleted byDFHPIPS
!
  !--------------------------------------------------------------------
```

Table 432.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	184	PIPO_BLOCK	
(0)	CHARACTER	8	PIPO_EYECATCHER	
(8)	CHARACTER	88	PIPO_TREE_ STRUCTURE	
(8)	OBJECT	16	PIPO_CHAIN_NODE	
(10)	CHARACTER	8	*	
(10)	ADDRESS	4	PREV	
(14)	ADDRESS	4	NEXT	
(18)	OBJECT	40	PIPO_CHILDREN	
(20)	OBJECT	16	ITER0	
(28)	CHARACTER	8	*	
(28)	ADDRESS	4	PREV	
(2C)	ADDRESS	4	NEXT	
(30)	OBJECT	16	NODE0	
(38)	CHARACTER	8	*	
(38)	ADDRESS	4	PREV	
(3C)	ADDRESS	4	NEXT	
(40)	STRUCTURE IsA(ITERATOR)	24	PIPO_ITER	
(40)	OBJECT	16	ITERNODE	
(48)	CHARACTER	8	*	
(48)	ADDRESS	4	PREV	
(4C)	ADDRESS	4	NEXT	
(50)	ADDRESS	4	CURRNODE	
(54)	ADDRESS	4	CHAIN_PTR	
(58)	ADDRESS	4	PIPO_PARENT	
(5C)	FULLWORD	4	PIPO_NUMCHILD	
(60)	CHARACTER	64	PIPO_ELEMENT_ DATA	
(60)	FULLWORD	4	PIPO_NODE_TYPE	

Table 432. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(64)	FULLWORD	4	PIPO_NAMESPACE_ ID	
(68)	FULLWORD	4	PIPO_LOCALNAME_ ID	
(6C)	ADDRESS	4	PIPO_CONTENT_ PTR	
(70)	FULLWORD	4	PIPO_CONTENT_ LEN	
(74)	BIT(8)	1	PIPO_FLAGS	
	1...		PIPO_CONTAINS_ POLICY	
	.1..		PIPO_OPTIONAL	
	..1.		PIPO_HAS_ ATTRIBUTES	
	...1 1111		*	
(75)	CHARACTER	3	*	
(78)	OBJECT	40	PIPO_ATTRIBUTES	
(80)	OBJECT	16	ITER0	
(88)	CHARACTER	8	*	
(88)	ADDRESS	4	PREV	
(8C)	ADDRESS	4	NEXT	
(90)	OBJECT	16	NODE0	
(98)	CHARACTER	8	*	
(98)	ADDRESS	4	PREV	
(9C)	ADDRESS	4	NEXT	
(A0)	CHARACTER	16	PIPO_ELEMENT_ DIAGNOTICS	
(A0)	ADDRESS	4	PIPO_NAMESPACE_ PTR	
(A4)	FULLWORD	4	PIPO_NAMESPACE_ LEN	
(A8)	ADDRESS	4	PIPO_LOCALNAME_ PTR	
(AC)	FULLWORD	4	PIPO_LOCALNAME_ LEN	
(B0)	ADDRESS	4	PIPO_MEMORY_ MANAGER_PTR	
(B4)	CHARACTER	4	*	

Table 433.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	PIPO_ATTRIBUTE	
(0)	OBJECT	16	PIPOA_NODE	

Table 433. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	8	*	
(8)	ADDRESS	4	PREV	
(C)	ADDRESS	4	NEXT	
(10)	FULLWORD	4	PIPOA_NAMESPACE_ ID	
(14)	FULLWORD	4	PIPOA_LOCALNAME_ ID	
(18)	ADDRESS	4	PIPOA_ATT_ DATA_PTR	
(1C)	FULLWORD	4	PIPOA_ATT_ DATA_LEN	

Table 434.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	9	DFHPIRI_DATA	
(0)	BIT(8)	1	*	
	1...		PIRI_USE_ COMMAREA	
	.111 1111		*	
(1)	CHARACTER	8	PIRI_TARGET_ PROGRAM	

Constants

Table 435.

Len	Type	value	Name	Description
----------! Constants ! ----------!				
4	DECIMAL	4096	PI_STATS_BUFFER_SIZE	
1	DECIMAL	1	PI_WSRSTATE_INITING	
1	DECIMAL	2	PI_WSRSTATE_ DISCARDING	
1	DECIMAL	3	PI_WSRSTATE_UNUSABLE	
1	DECIMAL	4	PI_WSRSTATE_ INSERVICE	
0	BIT	0	PIA_STATE_INACTIVE	
0	BIT	1	PIA_STATE_ACTIVE	
----------! Standard message constants ! ----------!				
4	DECIMAL	1	MNO_ABEND	
4	DECIMAL	2	MNO_SEVERE_ERROR	
4	DECIMAL	3	MNO_NO_STORAGE	

Table 435. (continued)

Len	Type	value	Name	Description
4	DECIMAL	4	MNO_LOOP	
4	DECIMAL	6	MNO_NO_MVS_STORAGE	
8	CHARACTER	PI0001	DCD_ABEND	
8	CHARACTER	PI0002	DCD_SEVERE_ERROR	
8	CHARACTER	PI0003	DCD_NO_STORAGE	
8	CHARACTER	PI0004	DCD_LOOP	
8	CHARACTER	PI0006	DCD_NO_MVS_STORAGE	
----------! parser constants ! ----------!				
12	CHARACTER	wsse_handler	C_WSSE_HANDLER	
21	CHARACTER	dfhwsse_configur ation	C_WSSE_CONFIG	
14	CHARACTER	authentication	C_AUTHENTICATION	
4	CHARACTER	mode	C_MODE	
4	CHARACTER	none	C_NONE	
5	CHARACTER	basic	C_BASIC	
9	CHARACTER	signature	C_SIGNATURE	
8	CHARACTER	asserted	C_ASSERTED	
5	CHARACTER	trust	C_TRUST	
8	CHARACTER	suppress	C_SUPPRESS	
9	CHARACTER	algorithm	C_ALGORITHM	
17	CHARACTER	certificate_labe l	C_CERTIFICATE_ LABEL	
7	CHARACTER	version	C_VERSION	
3	CHARACTER	"1"	C_VER_1	
1	CHARACTER	>	C_GT	
1	CHARACTER	<	C_LT	
1	CHARACTER	/	C_BS	
1	CHARACTER	=	C_EQ	
18	CHARACTER	expect_signed_bo dy	C_EXP_SBOD	
21	CHARACTER	expect_encrypted _body	C_EXP_EBOD	
9	CHARACTER	sign_body	C_SIGN_BODY	
12	CHARACTER	encrypt_body	C_ENC_BODY	
4	CHARACTER	<!--	C_COMM_S	
3	CHARACTER	-->	C_COMM_E	
18	CHARACTER	http:// www.w3.or g/	C_WWW3	

Table 435. (continued)

Len	Type	value	Name	Description
16	CHARACTER	2000/09/ xmldsig#	C_DSIG	
15	CHARACTER	2001/04/ xmlenc#	C_XENC	
9	CHARACTER	rsa-sha1	C_RSA	
9	CHARACTER	dsa-sha1	C_DSA	
14	CHARACTER	tripledes-cbc	C_TRIPLEDES	
11	CHARACTER	aes128-cbc	C_AES128	
11	CHARACTER	aes256-cbc	C_AES256	
17	CHARACTER	cics_mtom_handle r	C_MTOM_HANDLER	
21	CHARACTER	dfhmtom_configur ation	C_MTOM_CONFIG	
12	CHARACTER	mtom_options	C_MTOM_OPTIONS	
9	CHARACTER	send_mtom	C_SEND_MTOM	
16	CHARACTER	send_when_no_xop	C_SENDW_MTOM	
11	CHARACTER	xop_options	C_XOP_OPTIONS	
23	CHARACTER	apphandler_suppo rts_xop	C_APP_XOP	
17	CHARACTER	content_id_domai n	C_CID_NAME	
12	CHARACTER	mime_options	C_MIME_OPTIONS	
LID884 - Trust Note: To differentiate between auth and sts_auth, we must add the <. The index routine is not clever enough to see the difference otherwise.				
18	CHARACTER	sts_authenticati on :c 4.C_STS_AUTHEN	TICATION	
15	CHARACTER	auth_token_type	C_AUTH_TOKEN_TYPE	
9	CHARACTER	namespace	C_NAMESPACE	
7	CHARACTER	element	C_ELEMENT	
12	CHARACTER	sts_endpoint	C_STS_ENDPOINT	
8	CHARACTER	endpoint	C_ENDPOINT	
16	CHARACTER	reject_signature	C_REJ_SIG	
17	CHARACTER	reject_encryptio n	C_REJ_ENC	
6	CHARACTER	action	C_ACTION	
5	CHARACTER	blind	C_BLIND	
Authentication				
4	DECIMAL	0	WSSE_AUTH_NONE_NONE	
4	DECIMAL	1	WSSE_AUTH_NONE_BASIC	

Table 435. (continued)

Len	Type	value	Name	Description
4	DECIMAL	2	WSSE_AUTH_NONE_SIG	
4	DECIMAL	3	WSSE_AUTH_ BASIC_BASIC	
4	DECIMAL	4	WSSE_AUTH_BASIC_SIG	
4	DECIMAL	5	WSSE_AUTH_SIG_BASIC	
4	DECIMAL	6	WSSE_AUTH_SIG_SIG	
4	DECIMAL	7	WSSE_AUTH_ BLIND_BASIC	
4	DECIMAL	8	WSSE_AUTH_BLIND_SIG	
4	DECIMAL	9	WSSE_AUTH_STS	
Mode/Trust				
4	DECIMAL	0	WSSE_NONE	
4	DECIMAL	1	WSSE_BASIC	
4	DECIMAL	2	WSSE_SIG	
4	DECIMAL	3	WSSE_BLIND	
sts_action				
4	DECIMAL	0	WSSE_ACTION_ISSUE	
4	DECIMAL	1	WSSE_ACTION_VALIDATE	
----------! ! Constants ! ! ----------! !				
1	DECIMAL	1	PI_WSR_PRODUCT_CICS	CICS style !@MLA
1	DECIMAL	255	PI_WSR_PRODUCT_ VENDOR_V1	
				Vendor v1 !@MLA
1	DECIMAL	254	PI_WSR_PRODUCT_ VENDOR_V2	
				Vendor v2 !@MLA
1	DECIMAL	0	PI_WSR_RUNTIME_ LEVEL_1_0	
1	DECIMAL	1	PI_WSR_RUNTIME_ LEVEL_1_1	
1	DECIMAL	2	PI_WSR_RUNTIME_ LEVEL_1_2	
1	DECIMAL	3	PI_WSR_RUNTIME_ LEVEL_2_0	
1	DECIMAL	1	PI_WSR_MEP_IN_ONLYC	
1	DECIMAL	2	PI_WSR_MEP_IN_OUTC	
1	DECIMAL	4	PI_WSR_MEP_ ROBUST_IN_ONLYC	

Table 435. (continued)

Len	Type	value	Name	Description
1	DECIMAL	8	PI_WSR_MEP_ IN_OPT_OUTC	
----------! Constants ! ----------!				
4	DECIMAL	1384	DFHPIPEB_LENGTH	
1	DECIMAL	0	PIPEB_UNKNOWN	Unknown
1	DECIMAL	1	PIPEB_REQUESTER	Requester
1	DECIMAL	2	PIPEB_PROVIDER	Provider
Status constants				
1	DECIMAL	0	PIPEB_STATE_UNK	Unknown
1	DECIMAL	1	PIPEB_ENABLED	Enabled
1	DECIMAL	2	PIPEB_DISABLED	Disabled
1	DECIMAL	3	PIPEB_INITING	Initialising
1	DECIMAL	4	PIPEB_STGFAIL	Stg failure
1	DECIMAL	5	PIPEB_LOCKFAIL	Lock failure
1	DECIMAL	6	PIPEB_OSFAIL	OS failure
1	DECIMAL	7	PIPEB_DISABLING	Disabling
1	DECIMAL	8	PIPEB_ENABLING	enabling
1	DECIMAL	9	PIPEB_DISCARDING	discarding
HFS processing constants				
0	BIT	0	PIPEB_HFS_NOTC	not complete
0	BIT	1	PIPEB_HFS_COMP	Completed
0	BIT	1	PIPEB_SCAN_ IN_PROGRESS	
				being done
GRPLIST install indicator				
0	BIT	0	PIPEB_IMPLICIT	via install
0	BIT	1	PIPEB_EXPLICIT	via perform
PIPEB lock held indicators				
0	BIT	0	PIPEB_FLAG_ NOT_HELD	lock not held
0	BIT	1	PIPEB_FLAG_HELD	Lock is held
PIPEB valid settings				
0	BIT	0	PIPEB_IS_VALID	it is valid
0	BIT	1	PIPEB_NOT_VALID	It is invalid
---------- Constants ----------				
4	DECIMAL	90	DFHPISNE_LENGTH	
1	DECIMAL	0	PISN_TYPE_HANDLER	Handler

Table 435. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	PISN_TYPE_SOAP11	CICS SOAP 1.1 node
1	DECIMAL	2	PISN_TYPE_SOAP12	CICS SOAP 1.2 node
0	BIT	0	PISN_FALSE	
0	BIT	1	PISN_TRUE	
---------- Constants ----------				
4	DECIMAL	56	DFHPITNE_LENGTH	
0	BIT	0	DFHPITNE_NODEF	not default
0	BIT	1	DFHPITNE_DEF	default
0	BIT	0	DFHPITNE_HTTP	HTTPtransport
0	BIT	1	DFHPITNE_MQ	MQ transport
---------- Constants ----------				
4	DECIMAL	81	DFHPINTE_LENGTH	
0	BIT	0	DFHPINTE_HTTP	
0	BIT	1	DFHPINTE_MQ	
---------- Constants ----------				
4	DECIMAL	57	DFHPIHPE_LENGTH	
0	BIT	0	DFHPIHPE_FALSE	
0	BIT	1	DFHPIHPE_TRUE	
!:erefstep.dfhpidc_dcl_header_program_element ---------- !:refstep.dfhpidc_dcl_dfhws_mtom ---------- DFHPIDC 1103 - ! ! Purpose Define MTOM and XOP structures and constants ! !---------- ---------- Names of inbound and outbound MTOM status containers. ----------				
16	CHARACTER	DFHWS-MTOM-IN	DFHWS_MTOM_IN	
16	CHARACTER	DFHWS-MTOM-OUT	DFHWS_MTOM_OUT	
---------- Constants for fields within DFHWS-MTOM-IN or OUT container. ----------				
4	DECIMAL	0	MTOM_STATUS_NO	
4	DECIMAL	1	MTOM_STATUS_YES	
4	DECIMAL	0	MTOMNOXOP_STATUS_NO	
4	DECIMAL	1	MTOMNOXOP_STATUS_YES	

Table 435. (continued)

Len	Type	value	Name	Description
4	DECIMAL	0	XOP_MODE_NONE	
4	DECIMAL	1	XOP_MODE_COMPAT	
4	DECIMAL	2	XOP_MODE_DIRECT	
---------- Names of inbound and outbound XOP attachment list containers. ----------				
16	CHARACTER	DFHWS-XOP-IN	DFHWS_XOP_IN	
16	CHARACTER	DFHWS-XOP-OUT	DFHWS_XOP_OUT	
---------- Constants for XOP Include element processing (in EBCDIC). ----------				
37	CHARACTER	http://www.w3.org/2004/08/xop/include	XOP_NAMESPACE	
7	CHARACTER	Include	XOP_INCLUDE	
4	CHARACTER	href	XOP_HREF	
---------- Constants for MIME contentType attribute processing. ----------				
33	CHARACTER	http://www.w3.org/2005/05/xmlmime	XMIME_NAMESPACE	
11	CHARACTER	contentType	XMIME_CONTENTTYPE	
---------- Constant for content-ID and CID domain container name. ----------				
16	CHARACTER	DFHWS-CID-DOMAIN	DFHWS_CID_DOMAIN	
---------- Minimum attachment size for which XOP support should be used. ----------				
4	DECIMAL	1500	XOP_MINIMUM_SIZE	
Values for entry_type				
1	DECIMAL	1	ENTRY_TYPE_DATA	
1	DECIMAL	2	ENTRY_TYPE_FIXED_REPEAT	
1	DECIMAL	3	ENTRY_TYPE_VARIABLE_REPEAT	
1	DECIMAL	4	ENTRY_TYPE_END_REPEAT	
1	DECIMAL	5	ENTRY_TYPE_END_OF_FILE	
1	DECIMAL	6	ENTRY_TYPE_EXTENDED_DATA	

Table 435. (continued)

Len	Type	value	Name	Description
1	DECIMAL	7	ENTRY_TYPE_ EXTENDED_FIXED_ REPEAT	
1	DECIMAL	8	ENTRY_TYPE_ EXTENDED_VARIABLE_ REPEAT	
1	DECIMAL	9	ENTRY_TYPE_ATTRIBUTE	
`Mapping level constants`				
4	DECIMAL	1	MAPPING_LEVEL_1_0	
4	DECIMAL	2	MAPPING_LEVEL_1_1	
4	DECIMAL	3	MAPPING_LEVEL_1_2	
4	DECIMAL	4	MAPPING_LEVEL_2_0	
`Smallest extended entry type`				
1	DECIMAL	6	ENTRY_TYPE_EXTENDED	
`Values for convert_type`				
1	DECIMAL	1	CONVERT_TYPE_ CHAR_ARRAY	
1	DECIMAL	2	CONVERT_TYPE_ HEX_ARRAY	
1	DECIMAL	3	CONVERT_TYPE_BYTE	
1	DECIMAL	4	CONVERT_TYPE_ UNSIGNED_BYTE	
1	DECIMAL	5	CONVERT_TYPE_SHORT	
1	DECIMAL	6	CONVERT_TYPE_ UNSIGNED_SHORT	
1	DECIMAL	7	CONVERT_TYPE_INT	
1	DECIMAL	8	CONVERT_TYPE_ UNSIGNED_INT	
1	DECIMAL	9	CONVERT_TYPE_LONG	
1	DECIMAL	10	CONVERT_TYPE_ UNSIGNED_LONG	
`convert_type_reserved fixed(8) constant(11);`				
1	DECIMAL	12	CONVERT_TYPE_BOOLEAN	
1	DECIMAL	13	CONVERT_TYPE_ BFP_FLOAT	
1	DECIMAL	14	CONVERT_TYPE_ BFP_DOUBLE	
1	DECIMAL	15	CONVERT_TYPE_DECIMAL	
1	DECIMAL	16	CONVERT_TYPE_ UNSIGNED_DECIMAL	
1	DECIMAL	17	CONVERT_TYPE_ BASE64_ARRAY	
1	DECIMAL	18	CONVERT_TYPE_ZONED	

Table 435. (continued)

Len	Type	value	Name	Description
1	DECIMAL	19	CONVERT_TYPE_ UNSIGNED_ZONED	
1	DECIMAL	20	CONVERT_TYPE_ HFP_SHORT	
1	DECIMAL	21	CONVERT_TYPE_ HFP_LONG	
Values for data_whitespace				
1	DECIMAL	0	DATA_WHITESPACE_ COLLAPSE	
1	DECIMAL	1	DATA_WHITESPACE_ REPLACE	
1	DECIMAL	2	DATA_WHITESPACE_ PRESERVE	
4	DECIMAL	0	PIPON_NONE	
4	DECIMAL	1	PIPON_POLICY	
4	DECIMAL	2	PIPON_ALL	
4	DECIMAL	3	PIPON_ONE	
4	DECIMAL	4	PIPON_ASSERTION	
4	DECIMAL	5	PIPON_ASSERT_PARM	
!:erefstep.dfhpidc_dcl_pipo_policy_element ------------------------- Codes used in DFHPICC exception traces. Input error codes				
4	DECIMAL	1	PICC_ERROR_ XML_FORMAT_ERROR	
4	DECIMAL	2	PICC_ERROR_ UNEXPECTED_CONTENT	
4	DECIMAL	3	PICC_ERROR_ HEADER_FORMAT_ ERROR	
4	DECIMAL	4	PICC_ERROR_ UNDEFINED_ELEMENT	
4	DECIMAL	5	PICC_ERROR_ UNDEFINED_NAME_ SPACE	
4	DECIMAL	6	PICC_ERROR_ ARRAY_OVERFLOW	
4	DECIMAL	7	PICC_ERROR_ NAME_TOO_LONG	
4	DECIMAL	8	PICC_ERROR_ PREFIX_TOO_LONG	
4	DECIMAL	9	PICC_ERROR_ NAME_SPACE_TOO_ LONG	
4	DECIMAL	10	PICC_ERROR_ UNEXPECTED_XOP_ INCLUDE	

Table 435. (continued)

Len	Type	value	Name	Description
4	DECIMAL	11	PICC_ERROR_ XOP_INCLUDE_ERROR	
Internal failure codes				
4	DECIMAL	1	PICC_FAILURE_ UNKNOWN_ENTRY_ TYPE	
4	DECIMAL	2	PICC_FAILURE_ UNKNOWN_CONVERT_ TYPE	
4	DECIMAL	3	PICC_FAILURE_ NO_ICM_TABLE	
4	DECIMAL	4	PICC_FAILURE_ UNKNOWN_EVENT	
4	DECIMAL	5	PICC_FAILURE_ REPEAT_NOT_FOUND	
4	DECIMAL	6	PICC_FAILURE_ ORPHAN_INDEX_ENTRY	
4	DECIMAL	7	PICC_FAILURE_ UNKNOWN_QUOTE	
Codes used in DFHPIII exception traces. Input error codes				
4	DECIMAL	1	PIII_ERROR_ CONTAINER_TOO_ SMALL	
4	DECIMAL	2	PIII_ERROR_ STRUCTURE_TOO_ SMALL	
4	DECIMAL	3	PIII_ERROR_ ARRAY_TOO_LARGE	
4	DECIMAL	4	PIII_ERROR_ ARRAY_TOO_SMALL	
4	DECIMAL	5	PIII_ERROR_ CONT_NOT_FOUND	
4	DECIMAL	6	PIII_ERROR_ CONT_NOT_BIT	
Internal failure codes				
4	DECIMAL	1	PIII_FAILURE_ UNKNOWN_ENTRY_ TYPE	
4	DECIMAL	2	PIII_FAILURE_ UNKNOWN_CONVERT_ TYPE	
4	DECIMAL	3	PIII_FAILURE_ ARRAY_OVERFLOW	
4	DECIMAL	4	PIII_FAILURE_ UNEXPECTED_END_ OF_ICM	

Table 435. (continued)

Len	Type	value	Name	Description
4	DECIMAL	5	PIII_FAILURE_ TEMPLATE_MISMATCH	
4	DECIMAL	6	PIII_FAILURE_ DATA_OUTSIDE_STRUCTURE	
4	DECIMAL	7	PIII_FAILURE_ UNKNOWN_QUOTE	
2	NUMB HEX	0100	TID_PIDM_ENTRY	
2	NUMB HEX	0101	TID_PIDM_EXIT	
2	NUMB HEX	0102	TID_PIDM_ INVALID_FORMAT	
2	NUMB HEX	0103	TID_PIDM_ INVALID_FUNCTION	
2	NUMB HEX	0104	TID_PIDM_ RECOVERY_ENTERED	
2	NUMB HEX	0105	TID_PIDM_ ADD_GATE_ERROR	
2	HEX	0106	TID_PIDM_ UNLOCK_ERROR	
2	HEX	0107	TID_PIDM_ DIR_MANAGER_ERROR	
2	HEX	0200	TID_PIST_ENTRY	
2	HEX	0201	TID_PIST_EXIT	
2	HEX	0202	TID_PIST_ INVALID_FORMAT	
2	HEX	0203	TID_PIST_ INVALID_FUNCTION	
2	HEX	0204	TID_PIST_ RECOVERY_ENTERED	
2	HEX	0205	TID_PIST_ INVALID_PARMS	
2	HEX	0300	TID_PIWR_ENTRY	
2	HEX	0301	TID_PIWR_EXIT	
2	HEX	0302	TID_PIWR_ INVALID_FUNCTION	
2	HEX	0303	TID_PIWR_ INVALID_FORMAT	
2	HEX	0304	TID_PIWR_ RECOVERY_ENTERED	
2	HEX	0305	TID_PIWR_ INVALID_BROWSE_ TOKEN	
2	HEX	0E00	TID_PISC_ENTRY	
2	HEX	0E01	TID_PISC_EXIT	
2	HEX	0E02	TID_PISC_ INVALID_FUNCTION	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	0E03	TID_PISC_ INVALID_FORMAT	
2	HEX	0E04	TID_PISC_ RECOVERY_ENTERED	
2	HEX	0E05	TID_PISC_ INVALID_BROWSE_ TOKEN	
2	HEX	0400	TID_PIPL_ENTRY	
2	HEX	0401	TID_PIPL_EXIT	
2	HEX	0402	TID_PIPL_ INVALID_FUNCTION	
2	HEX	0403	TID_PIPL_ INVALID_FORMAT	
2	HEX	0404	TID_PIPL_ RECOVERY_ENTERED	
2	HEX	0405	TID_PIPL_ UNLOCK_RECOVERY	
2	HEX	0406	TID_PIPL_ DIR_LOCATE_FAIL	
2	HEX	0407	TID_PIPL_ ACQUIRE_LOCK_FAIL	
2	HEX	0408	TID_PIPL_ RELEASE_LOCK_FAIL	
2	HEX	0409	TID_PIPL_ COMPLETE_FAIL	
2	HEX	040A	TID_PIPL_ PGLE_FAILURE	
2	HEX	040B	TID_PIPL_ENQ_FAIL	
2	HEX	040C	TID_PIPL_DEQ_FAIL	
2	HEX	040D	TID_PIPL_ PARSER_ENTRY	
2	HEX	040E	TID_PIPL_ PARSER_EXIT	
2	HEX	040F	TID_PIPL_DATA	
2	HEX	0500	TID_PITH_ENTRY	
2	HEX	0501	TID_PITH_EXIT	
2	HEX	0502	TID_PITH_ INVALID_FUNCTION	
2	HEX	0503	TID_PITH_ INVALID_FORMAT	
2	HEX	0504	TID_PITH_ RECOVERY_ENTERED	
2	HEX	0505	TID_PITH_ PGCR_FAILURE	
2	HEX	0506	TID_PITH_ PGCH_FAILURE	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	0507	TID_PITH_ WBCL_FAILURE	
2	HEX	0508	TID_PITH_ WBAP_FAILURE	
2	HEX	0509	TID_PITH_ PIMM_FAILURE	
2	HEX	050A	TID_PITH_ PIXI_FAILURE	
2	HEX	050B	TID_PITH_ PIXO_FAILURE	
2	HEX	0700	TID_PITQ_ENTRY	
2	HEX	0701	TID_PITQ_EXIT	
2	HEX	0702	TID_PITQ_ INVALID_FUNCTION	
2	HEX	0703	TID_PITQ_ INVALID_FORMAT	
2	HEX	0704	TID_PITQ_ RECOVERY_ENTERED	
2	HEX	0705	TID_PITQ_ PGCR_FAILURE	
2	HEX	0706	TID_PITQ_ PGCH_FAILURE	
2	HEX	0707	TID_PITQ_ PGLE_FAILURE	
2	HEX	0708	TID_PITQ_ SMGF_FAILURE	
2	HEX	0709	TID_PITQ_ CCNV_FAILURE	
2	HEX	070A	TID_PITQ_DEBUG	
2	HEX	0900	TID_PIWT_ENTRY	
2	HEX	0901	TID_PIWT_EXIT	
2	HEX	0902	TID_PIWT_ INVALID_FUNCTION	
2	HEX	0903	TID_PIWT_ INVALID_FORMAT	
2	HEX	0904	TID_PIWT_ RECOVERY_ENTERED	
2	HEX	0A00	TID_PIPM_ENTRY	
2	HEX	0A01	TID_PIPM_EXIT	
2	HEX	0A02	TID_PIPM_ INVALID_FUNCTION	
2	HEX	0A03	TID_PIPM_ INVALID_FORMAT	
2	HEX	0A04	TID_PIPM_ RECOVERY_ENTERED	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	0A05	TID_PIPM_ SEC_FAILURE	
PIIS class trace points (only called from pipm)				
2	HEX	0A20	TID_PIIS_ INIT_ENTRY	
2	HEX	0A21	TID_PIIS_INIT_EXIT	
2	HEX	0A22	TID_PIIS_RUN_ENTRY	
2	HEX	0A23	TID_PIIS_RUN_EXIT	
2	HEX	0A24	TID_PIIS_ NODE_LINKFAIL	
2	HEX	0A25	TID_PIIS_ NODE_LINKABEND	
2	HEX	0A26	TID_PIIS_ NODE_LINK_DISASTER	
2	HEX	0A27	TID_PIIS_ TRANSPORT_FAILED	
2	HEX	0A28	TID_PIIS_ STATE_CHANGE	
2	HEX	0A29	TID_PIIS_HANDLER	
2	HEX	0A2A	TID_PIIS_ STATE_INITIAL	
2	HEX	0A2B	TID_PIIS_ STATE_FINAL	
2	HEX	0A2C	TID_PIIS_ PIPELINE_MODE_ CLASH	
2	HEX	0A2D	TID_PIIS_ NO_URI_SET	
2	HEX	0A2E	TID_PIIS_ INVALID_URI_SCHEME	
2	HEX	0A2F	TID_PIIS_ INIT_NODES_ENTRY	
2	HEX	0A30	TID_PIIS_ INIT_NODES_EXIT	
2	HEX	0A31	TID_PIIS_ REQUEST_CONTAINER	
2	HEX	0A32	TID_PIIS_ RESPONSE_CONTAINER	
2	HEX	0A33	TID_PIIS_ ERROR_CONTAINER	
2	HEX	0A34	TID_PIIS_ADD_NODE	
2	HEX	0A40	TID_PIIS_ FUNCTION_CONTAINER	
2	HEX	0B00	TID_PIXM_ENTRY	
2	HEX	0B01	TID_PIXM_EXIT	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	0B02	TID_PIXM_ INVALID_FUNCTION	
2	HEX	0B03	TID_PIXM_ INVALID_FORMAT	
2	HEX	0B04	TID_PIXM_ RECOVERY_ENTERED	
2	HEX	0C00	TID_PISF_ENTRY	
2	HEX	0C01	TID_PISF_EXIT	
2	HEX	0C02	TID_PISF_ INVALID_FUNCTION	
2	HEX	0C03	TID_PISF_ INVALID_FORMAT	
2	HEX	0C04	TID_PISF_ RECOVERY_ENTERED	
2	HEX	0C05	TID_PISF_ CONVERSION_ERROR	
2	HEX	0C10	TID_PISN_ENTRY	
2	HEX	0C11	TID_PISN_EXIT	
2	HEX	0C12	TID_PISN_ INVALID_FUNCTION	
2	HEX	0C13	TID_PISN_ INVALID_FORMAT	
2	HEX	0C14	TID_PISN_ RECOVERY_ENTERED	
2	HEX	0C15	TID_PISN_ PARSER_ENTRY	
2	HEX	0C16	TID_PISN_ PARSER_EXIT	
2	HEX	0C17	TID_PISN_ CALL_HEADERS_ENTRY	
2	HEX	0C18	TID_PISN_ CALL_HEADERS_EXIT	
2	HEX	0C19	TID_PISN_ AC_PB_EXTRACT_ FAILED	
`!! value not used bit(16) constant('0C1A'x); !`				
2	HEX	0C1B	TID_PISN_ AC_STR_INVALID_ SIZE	
2	HEX	0C1C	TID_PISN_ AC_GETMAIN_FAILED	
2	HEX	0C1D	TID_PISN_ AC_INVALID_HEX_ CHAR	
2	HEX	0C1E	TID_PISN_ AC_CCSID_INVALID	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	0C1F	TID_PISN_ AC_INVALID_CNAME	
2	HEX	0C20	TID_PISN_ AC_PUT_CONT_FAILED	
2	HEX	0C21	TID_PISN_ AC_TAG_CHILDREN	
!! value not used bit(16) constant('0C22'x); !				
2	HEX	0C23	TID_PISN_ AC_TAG_NO_ATTR	
2	HEX	0C24	TID_PISN_ AC_TAG_NO_ACTOR	
2	HEX	0C25	TID_PISN_ AC_TAG_ACTOR_WRONG	
2	HEX	0C80	TID_PISH_ENTRY	
2	HEX	0C81	TID_PISH_EXIT	
2	HEX	0C82	TID_PISH_DATA	
2	HEX	0C83	TID_PISH_ ENTRY_ERROR	
2	HEX	0C84	TID_PISH_ EXIT_ERROR	
2	HEX	0C85	TID_PISH_ DATA_ERROR	
2	HEX	0C86	TID_PISH_ PGCR_FAILURE	
2	HEX	0C87	TID_PISH_ PGLE_FAILURE	
2	HEX	0C88	TID_PISH_ PISF_FAILURE	
2	HEX	0C89	TID_PISH_ SMGF_FAILURE	
2	HEX	0C8A	TID_PISH_LOGIC	
DFHPIAT domain gate trace points				
2	HEX	0D00	TID_PIAT_ENTRY	
2	HEX	0D01	TID_PIAT_EXIT	
2	HEX	0D02	TID_PIAT_ INVALID_FUNCTION	
2	HEX	0D03	TID_PIAT_ INVALID_FORMAT	
2	HEX	0D04	TID_PIAT_ RECOVERY_ENTERED	
2	HEX	0D05	TID_PIAT_ PUT_CONTAINER	
2	HEX	0D06	TID_PIAT_ PARSER_ENTRY	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	0D07	TID_PIAT_ PARSER_EXIT	
DFHPIRM trace points				
2	HEX	0D60	TID_PIRM_ENTRY	
2	HEX	0D61	TID_PIRM_EXIT	
2	HEX	0D62	TID_PIRM_ INVALID_FORMAT	
2	HEX	0D63	TID_PIRM_ INVALID_FUNCTION	
2	HEX	0D64	TID_PIRM_ RECOVERY_ENTERED	
2	HEX	0D65	TID_PIRM_ POOL_TOKEN_ERROR	
2	HEX	0D66	TID_PIRM_ CONTAINER_ERROR	
2	HEX	0D67	TID_PIRM_REG_DATA	
2	HEX	0D68	TID_PIRM_ DO_COMMIT_CALLED	
2	HEX	0D69	TID_PIRM_ ATTACH_FAILURE	
DFHPIRS trace points				
2	HEX	0D80	TID_PIRS_ENTRY	
2	HEX	0D81	TID_PIRS_EXIT	
2	HEX	0D82	TID_PIRS_ CONTAINER_ERROR	
2	HEX	0D83	TID_PIRS_ CALL_PIAT_ERROR	
2	HEX	0D84	TID_PIRS_ CHANNEL_ERROR	
2	HEX	0D85	TID_PIRS_ PIPELINE_ERROR	
2	HEX	0D86	TID_PIRS_ STORAGE_ERROR	
2	HEX	0D87	TID_PIRS_ ADD_LINK_ERROR	
2	HEX	0D88	TID_PIRS_ CALL_RMOT_ERROR	
2	HEX	0D89	TID_PIRS_ UOWID_ERROR	
2	HEX	0D8A	TID_PIRS_ INVALID_ACTION	
2	HEX	0D8B	TID_PIRS_REG_DATA	
DFHPIRE trace points				
2	HEX	0D90	TID_PIRE_ENTRY	
2	HEX	0D91	TID_PIRE_EXIT	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	0D92	TID_PIRE_ INVALID_FUNCTION	
2	HEX	0D93	TID_PIRE_ INVALID_FORMAT	
2	HEX	0D94	TID_PIRE_RECOVERY	
2	HEX	0D95	TID_PIRE_ START_BROWSE_ERROR	
2	HEX	0D96	TID_PIRE_ GET_NEXT_LINK_ ERROR	
2	HEX	0D97	TID_PIRE_ END_BROWSE_ERROR	
2	HEX	0D98	TID_PIRE_ INQUIRE_UOW_ERROR	
2	HEX	0D99	TID_PIRE_ INQUIRE_LINK_ERROR	
2	HEX	0D9A	TID_PIRE_ LINK_ACTIVE_ERROR	
2	HEX	0D9B	TID_PIRE_ INITIATE_RECOVERY_ ERROR	
2	HEX	0D9C	TID_PIRE_ TERMINATE_RECOVERY_ ERROR	
2	HEX	0D9D	TID_PIRE_ SET_STATUS_ERROR	
2	HEX	0600	TID_PIIW_ENTRY	
2	HEX	0601	TID_PIIW_EXIT	
2	HEX	0602	TID_PIIW_ INVALID_FUNCTION	
2	HEX	0603	TID_PIIW_ INVALID_FORMAT	
2	HEX	0604	TID_PIIW_ RECOVERY_ENTERED	
2	HEX	0605	TID_PIIW_ LOCALPGM_ABEND	
2	HEX	0606	TID_PIIW_ LOCALPGM_LINK_ FAILED	
2	HEX	0607	TID_PIIW_ PIPELINE_START_ FAILURE	
2	HEX	0608	TID_PIIW_ CONTAINER_ERROR	
2	HEX	0609	TID_PIIW_ PARSE_ICM_ERROR	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	060A	TID_PIIW_ PARSE_XML_ERROR	
2	HEX	060B	TID_PIIW_ INVALID_WSBIND_ FORMAT	
2	HEX	060C	TID_PIIW_ VENDOR_LINK_FAILED	
2	HEX	060D	TID_PIIW_ WSBIND_VERSION_ TEXT	
2	HEX	060E	TID_PIIW_ INQ_PIPE_ERROR	
2	HEX	0F00	TID_PIII_ENTRY	
2	HEX	0F01	TID_PIII_EXIT	
2	HEX	0F02	TID_PIII_ INVALID_FUNCTION	
2	HEX	0F03	TID_PIII_ INVALID_FORMAT	
2	HEX	0F04	TID_PIII_ RECOVERY_ENTERED	
2	HEX	0F05	TID_PIII_ INVALID_BROWSE_ TOKEN	
2	HEX	0F06	TID_PIII_ COMMAREA_OUTBOUND_ DATA	
2	HEX	0F07	TID_PIII_ SOAP_OUTBOUND_ DATA	
2	HEX	0F08	TID_PIII_ CONVERSION_ERROR	
2	HEX	0F09	TID_PIII_ INTERNAL_ERROR	
2	HEX	0F0A	TID_PIII_FAILURE	
2	HEX	0F0B	TID_PIII_ INPUT_ERROR	
2	HEX	0F30	TID_PICC_ENTRY	
2	HEX	0F31	TID_PICC_EXIT	
2	HEX	0F32	TID_PICC_ INVALID_FUNCTION	
2	HEX	0F33	TID_PICC_ INVALID_FORMAT	
2	HEX	0F34	TID_PICC_ RECOVERY_ENTERED	
2	HEX	0F35	TID_PICC_ INVALID_BROWSE_ TOKEN	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	0F36	TID_PICC_ SOAP_INPUT_DATA	
2	HEX	0F37	TID_PICC_ COMMAREA_INPUT_ DATA	
2	HEX	0F38	TID_PICC_ PARSE_EVENT	
2	HEX	0F39	TID_PICC_ CONVERSION_ERROR	
2	HEX	0F3A	TID_PICC_ INPUT_ERROR	
2	HEX	0F3B	TID_PICC_ INTERNAL_ERROR	
2	HEX	0F3C	TID_PICC_FAILURE	
2	HEX	0F3D	TID_PICC_ SIGNATURE_OUTPUT	
2	HEX	0F3E	TID_PICC_ SOAP_ELEMENT_START	
2	HEX	0F3F	TID_PICC_ SOAP_ELEMENT_END	
2	HEX	0F40	TID_PICC_ SOAP_ATTRIBUTE	
2	HEX	1000	TID_PITL_ENTRY	
2	HEX	1001	TID_PITL_EXIT	
2	HEX	1002	TID_PITL_ SIGNATURE_NOT_ FOUND	
2	HEX	1003	TID_PITL_ WEBSERVICE_NOT_ USABLE	
2	HEX	1004	TID_PITL_ WEBSERVICE_NOT_ FOUND	
2	HEX	1005	TID_PITL_ RECOVERY_ENTERED	
2	HEX	1006	TID_PITL_ PARSE_FAILED	
2	HEX	1007	TID_PITL_ OPERATION_NOT_ FOUND	
2	HEX	1008	TID_PITL_ PARSE_ICM_FAILED	
2	HEX	1009	TID_PITL_ BODY_CONTAINER_ FAULT	
2	HEX	100A	TID_PITL_ VENDOR_LINK_FAILED	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	100B	TID_PITL_ WSBIND_FORMAT_ INVALID	
2	HEX	100C	TID_PITL_ TARGET_LINK_FAILED	
2	HEX	100D	TID_PITL_ TARGET_LINK_ABEND	
2	HEX	100E	TID_PITL_APP_FAULT	
2	HEX	100F	TID_PITL_ VENDOR_SOAP_FAULT_ IN	
2	HEX	1010	TID_PITL_ VENDOR_SOAP_FAULT_ OUT	
2	HEX	1011	TID_PITL_ STORAGE_ERROR	
2	HEX	1012	TID_PITL_ WSBIND_VERSION_ TEXT	
2	HEX	1201	TID_WSSE_ENTRY	
2	HEX	1202	TID_WSSE_EXIT	
2	HEX	1203	TID_WSSE_CATCH	
2	HEX	1204	TID_WSSE_DATA	
2	HEX	1100	TID_PILN_ENTRY	
2	HEX	1101	TID_PILN_EXIT	
2	HEX	1102	TID_PILN_ INVALID_FUNCTION	
2	HEX	1103	TID_PILN_ INVALID_FORMAT	
2	HEX	1104	TID_PILN_ RECOVERY_ENTERED	
2	HEX	1105	TID_PILN_ INVALID_BROWSE_ TOKEN	
2	HEX	1300	TID_PIMM_ENTRY	
2	HEX	1301	TID_PIMM_EXIT	
2	HEX	1302	TID_PIMM_ RECOVERY_ENTERED	
2	HEX	1303	TID_PIMM_ INTERNAL_ERROR	
2	HEX	1304	TID_PIMM_FAILURE	
2	HEX	1305	TID_PIMM_ MIME_PARSE_ERROR	
2	HEX	1306	TID_PIMM_ INPUT_PARAMETER	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	1307	TID_PIMM_ OUTPUT_PARAMETER	
2	HEX	1308	TID_PIMM_ EXCEPTION_DATA	
2	HEX	1400	TID_PIXI_ENTRY	
2	HEX	1401	TID_PIXI_EXIT	
2	HEX	1402	TID_PIXI_ RECOVERY_ENTERED	
2	HEX	1403	TID_PIXI_ INTERNAL_ERROR	
2	HEX	1404	TID_PIXI_FAILURE	
2	HEX	1405	TID_PIXI_ INPUT_ERROR	
2	HEX	1406	TID_PIXI_ EXCEPTION_DATA	
2	HEX	1500	TID_PIXO_ENTRY	
2	HEX	1501	TID_PIXO_EXIT	
2	HEX	1502	TID_PIXO_ RECOVERY_ENTERED	
2	HEX	1503	TID_PIXO_ INTERNAL_ERROR	
2	HEX	1504	TID_PIXO_FAILURE	
2	HEX	1505	TID_PIXO_ INPUT_ERROR	
2	HEX	1506	TID_PIXO_ EXCEPTION_DATA	
2	HEX	1600	TID_PIPS_ENTRY	
2	HEX	1601	TID_PIPS_EXIT	
2	HEX	1700	TID_PITC_ENTRY	
2	HEX	1701	TID_PITC_EXIT	
2	HEX	1702	TID_PITC_ RECOVERY_ENTERED	
2	HEX	1703	TID_PITC_ INTERNAL_ERROR	
2	HEX	1704	TID_PITC_ WST_INVALID_REQUEST	
2	HEX	1705	TID_PITC_ WST_FAILED_AUTH	
2	HEX	1706	TID_PITC_ WST_REQUEST_FAILED	
2	HEX	1707	TID_PITC_ WST_INVALID_TOKEN	
2	HEX	1708	TID_PITC_ PARSE_RSTR_FAILURE	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	1709	TID_PITC_ REJECT_ENC	
2	HEX	170A	TID_PITC_ REJECT_SIG	
2	HEX	170B	TID_PITC_ MISSING_CREDENTIALS	
2	HEX	170C	TID_PITC_STS_ERROR	
2	HEX	170D	TID_PITC_ STS_INVALID	
2	HEX	170E	TID_PITC_ MESSAGE_PARSE_ ERROR	
2	HEX	170F	TID_PITC_NO_USERID	
2	HEX	1710	TID_PITC1_ RECOVERY_ENTERED	
2	HEX	1711	TID_PITC2_ RECOVERY_ENTERED	
2	HEX	1712	TID_PITC3_ RECOVERY_ENTERED	
2	HEX	1713	TID_PITC4_ RECOVERY_ENTERED	
2	HEX	1714	TID_PITC_ INVALID_PASSWORD	
2	NUMB HEX	1715	TID_PITC_ INVALID_FORMAT	
2	NUMB HEX	1716	TID_PITC_ INVALID_FUNCTION	
4	DECIMAL	701	PIPL_MSG_ COMPLETE_FAIL	
4	DECIMAL	702	PIPL_MSG_ BAD_CFG_FILE	
4	DECIMAL	703	PIPL_MSG_START_SCAN	
4	DECIMAL	704	PIPL_MSG_END_SCAN	
4	DECIMAL	705	PIPL_BAD_HFS_WRITE	
2	HEX	1800	TID_PIIM_CREATE	
2	HEX	1801	TID_PIIM_LOOKUP	
2	HEX	1802	TID_PIIM_UPDATE	
2	HEX	1803	TID_PIIM_DESTROY	
2	HEX	1804	TID_PIIM_RECREATE	
2	HEX	1805	TID_PIIM_ CREATE_CTX	
2	HEX	1806	TID_PIIM_ LOOKUP_CTX	
2	HEX	1807	TID_PIIM_ UPDATE_CTX	

Table 435. (continued)

Len	Type	value	Name	Description
2	HEX	1808	TID_PIIM_ DESTROY_CTX	
2	HEX	1809	TID_PIIM_ RECREATE_CTX	

PIPIC Constants and parameters for CEEPIPI

```
!:erefstep.preinitialized_interface_responses -----------------------
!:refstep.aplx_pipi_parms ---------------------------- DFHLIDC 526 -
!
! This structure is used in DFHAPLX1 to gather together parms passed
! to CEEPIPI so that they can be put into a single trace data field,
! and is used in DFHLITR for annotating the formatted trace.
!
!--------------------------------------------------------------------
```

Table 436.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	76	APLX_PIPI_PARMS	Gathered together for trace I=INIT C=CALL T=TERM
(0)	FULLWORD	4	APIPI_FUNCTION	ICT
(4)	ADDRESS	4	APIPI_TABLE_ADDR	I
(8)	ADDRESS	4	APIPI_SERVICES_ ADDR	
				I
(C)	ADDRESS	4	APIPI_RUNOPTS_ ADDR	I
(10)	ADDRESS	4	APIPI_TOKEN	ICT
(14)	FULLWORD	4	APIPI_R15_ RETCODE	ICT
(18)	FULLWORD	4	APIPI_TABLE_ INDEX	C
(1C)	ADDRESS	4	APIPI_CALL_ PARMS_ADDR	
				C
(20)	ADDRESS	4	APIPI_CALL_PARM1	AP_XPTCB
(24)	ADDRESS	4	APIPI_CALL_PARM2	
(28)	ADDRESS	4	APIPI_CALL_PARM3	
(2C)	ADDRESS	4	APIPI_CALL_PARM4	
(30)	ADDRESS	4	APIPI_CALL_PARM5	
(34)	FULLWORD	4	APIPI_MAIN_ CLASS_LEN	
				C
(38)	FULLWORD	4	APIPI_SUB_ RETCODE	CT

Table 436. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	FULLWORD	4	APIPI_SUB_REASON	
(40)	CHARACTER	12	APIPI_SUB_ FEEDBACK	C

Constants

Table 437.

Len	Type	value	Name	Description
!:refstep.preinitialized_interface -------------------- DFHLIDC 483 - ! ! ! Language Environment offers a mechanism for languages, such as Assembler ! and PL/X, to call Language Environment-enabled language routines, such as C and ! COBOL, which expect a Language Environment environment to have been created for ! them. This is done by invocations of the CEEPIPI module. ! ! For more information about CEEPIPI, see the "z/OS: Language ! Environment Programming Guide". ! !-- !:refstep.preinitialized_interface_functions ---------- DFHLIDC 495 - ! ! The functions performed by CEEPIPI are determined by a function ! code, which is the first parameter in its parameter list, and must ! contain one of the following values. ! !--				
4	DECIMAL	1	PIPI_INIT_MAIN	
4	DECIMAL	2	PIPI_CALL_MAIN	
4	DECIMAL	3	PIPI_INIT_SUB	
4	DECIMAL	4	PIPI_CALL_SUB	
4	DECIMAL	5	PIPI_TERM	
4	DECIMAL	6	PIPI_ADD_ENTRY	
4	DECIMAL	7	PIPI_START_SEQ	
4	DECIMAL	8	PIPI_END_SEQ	
4	DECIMAL	9	PIPI_INIT_SUB_DP	
4	DECIMAL	10	PIPI_CALL_SUB_ADDR	
4	DECIMAL	11	PIPI_DELETE_ ENTRY_MAIN	
4	DECIMAL	13	PIPI_IDENTIFY_ENTRY	
!:erefstep.preinitialized_interface_functions ---------- !:refstep.preinitialized_interface_responses ---------- DFHLIDC 513 - ! ! The following return codes can be returned by the CEEPIPI routine. ! Not all codes are returned by all functions. ! !--				
4	DECIMAL	0	PIPI_OK	
4	DECIMAL	4	PIPI_INVALID_ FUNCTION	

Table 437. (continued)

Len	Type	value	Name	Description
4	DECIMAL	8	PIPI_WRONG_CALLER	
4	DECIMAL	12	PIPI_WRONG_ ENVIRONMENT	
4	DECIMAL	16	PIPI_INVALID_TOKEN	
4	DECIMAL	20	PIPI_INVALID_ENTRY	
4	DECIMAL	24	PIPI_INVALID_INDEX	
4	DECIMAL	28	PIPI_DISASTER	

PISNC soap node class copybook

```
!:erefstep.pisf_data_structures -----------------------------------
```

Table 438.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	840	PISN	
INSTANCE DATA				
Declared Data				
(0)	CHARACTER Prot	16	CURRENT_CHANNEL	
(10)	STRUCTURE Prot	16	PIEP_IN_CA	
(10)	ADDRESS Prot	4	MSG_PTR	
(14)	SIGNED Prot	4	MSG_LENGTH	
(18)	ADDRESS Prot	4	STORAGE_PTR	
(1C)	SIGNED Prot	4	STORAGE_LENGTH	
--! soap node instance data ! soap_version - Level set at initialisation ! soap_level - stored in pitxcb ! --!				
(20)	ADDRESS Prot	4	PISN_DATA_PTR	
(24)	SIGNED Prot	4	CHANNEL_TOKEN	
(28)	SIGNED Prot	4	CHANNEL_ POOL_TOKEN	
(2C)	ADDRESS Prot	4	NODEBLOCK_PTR	
(30)	STRUCTURE Prot	4	SCOPE_DATA	Get storage for data !@P8A to use in scope container
(30)	SIGNED Prot	4	LEVEL_OF_SOAP	
(34)	ADDRESS Prot	4	PDO_PTR	
(38)	ADDRESS Prot	4	HPTR	ARM correlator data header ptr !@LLA

Table 438. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	STRUCTURE Prot	186	ABEND_STRUCT	
(3C)	CHARACTER Prot	18	*	
(4E)	CHARACTER Prot	11	*	
(59)	CHARACTER Prot	44	CICS_XMLNS	
(85)	CHARACTER Prot	13	*	
(92)	CHARACTER Prot	13	*	
(9F)	CHARACTER Prot	4	S_ABEND_CODE	
(A3)	CHARACTER Prot	14	*	
(B1)	CHARACTER Prot	14	*	
(BF)	CHARACTER Prot	8	S_PROGRAM_NAME	
(C7)	CHARACTER Prot	15	*	
(D6)	CHARACTER Prot	13	*	
(E3)	CHARACTER Prot	19	*	
(F6)	STRUCTURE Prot	190	SECF_STRUCT	
(F6)	CHARACTER Prot	18	*	
(108)	CHARACTER Prot	11	*	
(113)	CHARACTER Prot	44	*	
(13F)	CHARACTER Prot	13	*	
(14C)	CHARACTER Prot	18	*	
(15E)	CHARACTER Prot	4	S_TRAN_NAME	
(162)	CHARACTER Prot	19	*	
(175)	CHARACTER Prot	11	*	
(180)	CHARACTER Prot	8	S_USER_NAME	

Table 438. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(188)	CHARACTER Prot	12	*	
(194)	CHARACTER Prot	13	*	
(1A1)	CHARACTER Prot	19	*	
(1B4)	CHARACTER Prot	1	MUSTUNDERSTAND_ BUILT	
use when first node in requester pipeline				
(1B5)	CHARACTER Prot	1	SENDREQ_FIRST	
(1B6)	CHARACTER Prot	1	RESP_CODES_SE	Initialise to N.
(1B7)	STRUCTURE Prot	155	LINKF_STRUCT	
(1B7)	CHARACTER Prot	18	*	
(1C9)	CHARACTER Prot	11	*	
(1D4)	CHARACTER Prot	44	*	
(200)	CHARACTER Prot	13	*	
(20D)	CHARACTER Prot	14	*	
(21B)	CHARACTER Prot	8	S_PROGRAM_NAME	
(223)	CHARACTER Prot	15	*	
(232)	CHARACTER Prot	13	*	
(23F)	CHARACTER Prot	19	*	
(252)	STRUCTURE Prot	241	PARSING_STRUCT	
(252)	CHARACTER Prot	18	*	
(264)	CHARACTER Prot	11	*	
(26F)	CHARACTER Prot	44	*	
(29B)	CHARACTER Prot	19	*	
(2AE)	CHARACTER Prot	16	*	
(2BE)	CHARACTER Prot	8	S_PLISAXA_RC	

Table 438. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C6)	CHARACTER Prot	17	*	
(2D7)	CHARACTER Prot	13	*	
(2E4)	CHARACTER Prot	8	S_PLISAXA_ OFFSET	
(2EC)	CHARACTER Prot	14	*	
(2FA)	CHARACTER Prot	13	*	
(307)	CHARACTER Prot	8	S_PIEP_RC	
(30F)	CHARACTER Prot	14	*	
(31D)	CHARACTER Prot	19	*	
(330)	CHARACTER Prot	19	*	
(0)	STRUCTURE Publ	72	PISN_DATA	
(0)	CHARACTER Publ	8	EYECATCHER	init('>DFHPISN')
(8)	FIXED Publ IsA(SOAPLEVEL)	4	SOAP_VERSION	init(NOTSOAP),
(C)	CHARACTER Publ IsA(PIIS_FUNCTION)	16	CURRENT_ FUNCTION	init(pisn_unknown),
(1C)	SIGNED Publ	4	CURRENT_STATE	init(NONE),
2 config_data ptr, !node_ptr				
(20)	CHARACTER Publ	40	MESSAGE_DATA	
(20)	CHARACTER Publ	16	MESSAGE_ CONTAINER	
				init(''),
(30)	ADDRESS Publ	4	MESSAGE_ STORAGE_PTR	
(34)	ADDRESS Publ	4	MESSAGE_PTR	
(38)	SIGNED Publ	4	MESSAGE_LENGTH	init(0),
(3C)	ADDRESS Publ	4	BODY_PTR	
(40)	SIGNED Publ	4	BODY_LENGTH	init(0),
(44)	ADDRESS Publ	4	ROOT_TAG	
(0)	STRUCTURE Prot IsA(PIIS_NODEBLOCK)	96	NODEBLOCK	
(0)	OBJECT Publ IsA(HOP_DCHAINNODE)	16	CHAIN_LINK	

Table 438. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Inherited Data				
(0)	CHARACTER Priv	4	*	
(8)	CHARACTER Prot	8	*	
(8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(10)	CHARACTER Publ	16	PIIS_NB_ EYECATCH	
(20)	CHARACTER Publ	8	NODE_PROGRAM	
(28)	ADDRESS Publ	4	NODE_PTR	ptr to RDO CB
(2C)	BIT(8) Publ	1	NODEFLAGS	
	1... .... Publ		PRECALL1	
	.1.. .... Publ		POSCALL1	
	..1. .... Publ		PRECALL2	
	...1 .... Publ		POSCALL2	
	.... 1111 Publ		*	
(2D)	CHARACTER Publ	3	*	
(30)	CHARACTER Publ	48	SOAPSECTION	
(30)	OBJECT Publ IsA(HOP_DCHAIN)	40	HANDLER_CHAIN	
(30)	CHARACTER Priv	4	*	
(38)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(38)	CHARACTER Priv	4	*	
(40)	CHARACTER Prot	8	*	
(40)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(44)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(48)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(48)	CHARACTER Priv	4	*	
(50)	CHARACTER Prot	8	*	

Table 438. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(54)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(58)	ADDRESS Publ	4	NODE_INSTANCE_	ptr PISN instance data !
(5C)	ADDRESS Publ	4	PROGRAM_ LIST_PTR	
(0)	CHARACTER Prot	4	ABEND_CODE	
(0)	CHARACTER Prot	8	PROGRAM_NAME	
(0)	CHARACTER Prot	8	PROGRAM_NAME2	
(0)	CHARACTER Prot	8	USER_NAME	
(0)	CHARACTER Prot	4	TRAN_NAME	
(0)	CHARACTER Prot	8	PLISAXA_RC	
(0)	CHARACTER Prot	8	PLISAXA_OFFSET	
(0)	CHARACTER Prot	8	PIEP_RC	
(0)	STRUCTURE Prot	36	PARSER_DATA_OUT	
(0)	SIGNED Prot	4	RETURN_CODE	
(4)	SIGNED Prot	4	SOAP_LEVEL_O	
(8)	ADDRESS Prot	4	ROOT_NODE	
(C)	SIGNED Prot	4	PARSER_ ERROR_CODE	
(10)	SIGNED Prot	4	ERROR_OFFSET	
(14)	ADDRESS Prot	4	AC_STR_PTR	
(18)	SIGNED Prot	4	AC_STR_LEN	
(1C)	ADDRESS Prot	4	AC_TAG_PTR	
(20)	CHARACTER Prot	4	FLAGS	
(20)	CHARACTER Prot	1	ESCAPED_CHAR	
(21)	CHARACTER Prot	1	ENCODINGSTYLE_ FOUND	
(22)	CHARACTER Prot	2	*	
(0)	CHARACTER Prot	*	HCHAR	Based current correlator char !@LLA

Table 438. (continued)

Offset Hex	Type	Len	Name (dim)	Description
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	48	NODE_ERROR_BLOCK	
(0)	UNSIGNED Publ	1	MAJOR_VERSION	
(1)	UNSIGNED Publ	1	MINOR_VERSION	
(2)	UNSIGNED Publ IsA(PIIS_ERROR_TYPE)	1	ERROR_TYPE	
(3)	CHARACTER Publ IsA(PIIS_MODE_TYPE)	1	ERROR_MODE	
(4)	CHARACTER Publ	4	ABCODE	
(8)	CHARACTER Publ	16	ERROR_CONTAINER1	
(18)	CHARACTER Publ	16	ERROR_CONTAINER2	
(28)	CHARACTER Publ	8	ERROR_NODE	
----------! structures for message internal form, must be same as DFHPIEP ! ----------!				
(0)	STRUCTURE Publ	64	XML_TAG	
(0)	ADDRESS Publ	4	PARENT	for root node is null
(4)	ADDRESS Publ	4	START_PTR	ptr to <
(8)	SIGNED Publ	4	LENGTH_TO_END	length to > of close tag
(C)	ADDRESS Publ	4	PREFIX_PTR	into msg
(10)	SIGNED Publ	4	PREFIX_LEN	
(14)	SIGNED Publ	4	TAG_NAME_LEN	
(18)	ADDRESS Publ	4	TAG_NAME_PTR	into msg
(1C)	CHARACTER Publ	8	NS_CHAIN	
(1C)	ADDRESS Publ	4	FIRST_NS	attr
(20)	SIGNED Publ	4	NS_COUNT	
(24)	CHARACTER Publ	8	ATTR_CHAIN	
(24)	SIGNED Publ	4	ATTR_COUNT	
(28)	ADDRESS Publ	4	FIRST_ATTR	attr
(2C)	CHARACTER Publ	8	CHILDREN	

Table 438. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	ADDRESS Publ	4	FIRST_CHILD	xml_tag
(30)	SIGNED Publ	4	CHILD_COUNT	
(34)	SIGNED Publ	4	CLOSE_TAG_LEN	
(38)	ADDRESS Publ	4	CLOSE_TAG_PTR	into msg
(3C)	ADDRESS Publ	4	NEXT_TAG	
(0)	STRUCTURE Publ	24	ATTR	
(0)	ADDRESS Publ	4	PARENT_TAG	xml_tag
(4)	ADDRESS Publ	4	NEXT_ATTR	attr
(8)	ADDRESS Publ	4	ATTR_NAME_PTR	into msg
(C)	SIGNED Publ	4	ATTR_NAME_LEN	
(10)	ADDRESS Publ	4	ATTR_VALUE_PTR	into msg
(14)	SIGNED Publ	4	ATTR_VALUE_LEN	

Constants

Table 439.

Len	Type	value	Name	Description
!:refstep.pisn_class_declaration ---------- DFHPISN 279 - ! ! ! DFHPISN Copybook ! ! Copybook containing the PISN class, constants used by it and ! a PLX version of the data structure to interface with the PLI ! SOAP parsing program DFHPIEP. ! !---------- !:refstep.pisn_types ---------- DFHPISN 302 - ! ! Types available for use in a SOAP node. ! !---------- piis_function to use internally in a soap node				
16	CHARACTER		PISN_UNKNOWN	
16	CHARACTER	DFHNODE	PISN_NODE_CHANNEL	
16	CHARACTER	DFHHHC-V1	PISN_HEADER_ CHANNEL	
16	CHARACTER	DFHAHC-V1	PISN_APPHANDLER_ CHANNEL	
16	CHARACTER	DFHFUNCTION	PISN_FUNCTION_CONT	
16	CHARACTER	DFHREQUEST	PISN_REQUEST_CONT	
16	CHARACTER	DFHRESPONSE	PISN_RESPONSE_CONT	
16	CHARACTER	DFHWS-NODECONFIG	PISN_CONFIG_CONT	
16	CHARACTER	DFHERROR	PISN_ERROR_CONT	

Table 439. (continued)

Len	Type	value	Name	Description
16	CHARACTER	DFHWS-APPHANDLER	PISN_APPHANDLER_CONT	
16	CHARACTER	DFHWS-XMLNS	PISN_XMLNS_CONT	
16	CHARACTER	DFHHEADER	PISN_HEADER_CONT	
16	CHARACTER	DFHWS-BODY	PISN_BODY_CONT	
16	CHARACTER	DFHNORESPONSE	PISN_NORESPONSE_CONT	
16	CHARACTER	DFHAGGREGATE	PISN_AGGREGATE_CONT	type_cics
16	CHARACTER	DFHWS-TRANID	PISN_TRANID_CONT	
16	CHARACTER	DFHWS-USERID	PISN_USERID_CONT	
16	CHARACTER	DFHWS-RESPCODES	PISN_RESPCODES_CONT	
16	CHARACTER	DFHWS-SOAPACTION	PISN_SOAPACTION_CONT	
16	CHARACTER	DFHNOMEDIATEST	PISN_MEDIATEST_CONT	
16	CHARACTER	DFHARMCORR	PISN_ARMCORR_CONT	type_cics!@LLA
16	CHARACTER	DFHCORRELBUILT	PISN_CORRELATOR_BUILT	
				type_cics!@PXA
4	DECIMAL	111	CONFIGURATION	
4	DECIMAL	112	PARSING	
4	DECIMAL	113	HEADERIN	
4	DECIMAL	114	CALLINGAPP	
4	DECIMAL	115	HEADEROUT	
4	DECIMAL	116	BUILDENVELOPE	
4	DECIMAL	117	NONE	
4	DECIMAL	118	ERRORHANDLING	
4	DECIMAL	1	CLIENT_FAULT	
4	DECIMAL	2	SERVER_FAULT	
4	DECIMAL	3	MUSTUNDERSTAND_FAULT	
4	DECIMAL	4	VERSIONMISMATCH_FAULT	
4	DECIMAL	5	ENCODINGSTYLE_FAULT	
4	DECIMAL	1	ENVELOPE_SCOPE	
4	DECIMAL	2	HEADER_SCOPE	
4	DECIMAL	3	APPHANDLER_SCOPE	
1	CHARACTER	U	TYPE_USER	
1	CHARACTER	C	TYPE_CICS	

Table 439. (continued)

Len	Type	value	Name	Description
1	CHARACTER	R	TYPE_READ_ONLY	
4	DECIMAL	1208	UTF8_CCSID	
3	CHAR HEX	EFBBBF	UTF8_BOM	
4	DECIMAL	37	EBCDIC_CCSID	
ASCII length == 2 binary storage				
2	DECIMAL	8	AC_STR_MINSIZE	
2	DECIMAL	1024	AC_STR_MAXSIZE	
HTTP PB binary data value boundary limits !@LLA				
2	DECIMAL	4	AC_PB_BIN_MINSIZE	
Note: only 64 bytes max currently available!@PWA from the monitoring performance block!@PWA				
2	DECIMAL	64	AC_PB_BIN_MAXSIZE	
0	BIT	1	TRUE	
0	BIT	0	FALSE	
SOAP namespace constants in ASCII inc quotes				
43	CHAR ASC	"http://schemas.xmlsoap.org/soap /envelope/"	SOAP11_NS	
41	CHAR ASC	"http:// www.w3.org/2003/05/ soap- envelope"	SOAP12_NS	
42	CHAR ASC	http:// schemas.xmlsoap.org/ soap/ actor/next	SOAP11_NEXT_NS	
SOAP mediatype constants				
8	CHARACTER	text/xml	SOAP11_MEDIATYPE	
20	CHARACTER	application/soap +xml	SOAP12_MEDIATYPE	
xml xmlns constant				
38	CHAR ASC	"http:// www.w3.org/XML/1998/ name space"	XML_NS	
response codes for RESPCODES container RESP1 values				
4	DECIMAL	1	BAD_INPUT_CONTAINERS	INVREQ
4	DECIMAL	2	PARSING_ERROR	INVREQ
4	DECIMAL	3	TRANSPORT_ERROR	INVREQ
4	DECIMAL	99	DISASTER	
4	DECIMAL	4	FAULT_BUILT_RESP	INVREQ
RESP2 values				

Table 439. (continued)

Len	Type	value	Name	Description
4	DECIMAL	101	DATATYPE_NOT_CHAR	
4	DECIMAL	102	MISSING_LT_CHAR	
4	DECIMAL	103	ZERO_LENGTH	
4	DECIMAL	104	MISSING_CONT	
4	DECIMAL	105	FAULT_BUILT_RESP2	
4	DECIMAL	106	PLISAXA_ERROR	
4	DECIMAL	107	DFHPIEP_ERROR	
This uses the same value, description of resp2 is invalid SOAP request / response.				
4	DECIMAL	107	MEDIATYPE_ERROR	
111 to 118 used by disaster for resp2, same as pisn_state These strings to be replaced by national language file				
21	CHAR ASC	Internal Server Error	SERVER_1	
26	CHAR ASC	No Application H andler set	SERVER_2	
53	CHAR ASC	The target appli cation did not c reate a new SOAP Body	NO_SOAPBODY	
26	CHAR ASC	Target PROGRAM u navailable	LINK_FAIL	
26	CHAR ASC	Transaction not authorized	SEC_FAIL	
22	CHAR ASC	Malformed SOAP m essage	CLIENT_1	
27	CHAR ASC	EncodingStyle no t supported	CLIENT_2	
21	CHAR ASC	Header not under stood	MUSTUNDERSTAND_1	
26	CHAR ASC	SOAP version not supported	VERSIONMISMATCH_1	
40	CHAR ASC	Content-type not valid for level of SOAP	MEDIATYPE_1	
24	CHAR ASC	Header processin g failed	HEADER_FAILURE_1	
16	CHARACTER	DFHPISF	PISF_CONTAINER	
Another program may add a container with the following name to the current channel and allow this set of EXEC commands to be called. It should be added as type(USER) and useraccess(READONLY).				
16	CHARACTER	DFHWS-SOAPLEVEL	PISF_SCOPE_ CONTAINER	
Specify values fcode can take in pisf_fault_head struct				

Table 439. (continued)

Len	Type	value	Name	Description
4	DECIMAL	0	PISF_USER_FCODE	
4	DECIMAL	1	PISF_CLIENT_FCODE	
4	DECIMAL	2	PISF_SERVER_FCODE	
4	DECIMAL	3	PISF_SENDER_FCODE	
4	DECIMAL	4	PISF_RECEIVER_FCODE	
4	DECIMAL	5	PISF_MUSTUNDERSTAND_ FCODE	
4	DECIMAL	6	PISF_VERSIONMISMATCH_ FCODE	
4	DECIMAL	7	PISF_DATAENCODINGUNKNOWN_ FCODE	

PIUCC Pipeline User Constants

```
!:refstep.piis_external_dcls ------------------------- DFHPIIS 490 -
!
!
! This copybook defines the constants need by a program
! that is to be used as part of a CICS pipeline.
! This includes a handler program, header processing program
! or aplication layer program.
!
! The copybook also defines the layout of the error block
! placed in the DFHERROR container.
!
!-------------------------------------------------------------------
 ----------------------------------!
  The pipeline node error block !
  Version 1.1 !
 ----------------------------------!
```

Table 440.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	PIISNEB	
(0)	UNSIGNED	1	PIISNEB_ MAJOR_VERSION	
(1)	UNSIGNED	1	PIISNEB_ MINOR_VERSION	
(2)	UNSIGNED	1	PIISNEB_ ERROR_TYPE	
(3)	CHARACTER	1	PIISNEB_ ERROR_MODE	
(4)	CHARACTER	4	PIISNEB_ABCODE	
(8)	CHARACTER	16	PIISNEB_ ERROR_CONTAINER1	
(18)	CHARACTER	16	PIISNEB_ ERROR_CONTAINER2	
(28)	CHARACTER	8	PIISNEB_ ERROR_NODE	

Constants

Table 441.

Len	Type	value	Name	Description
----------------------------------! Values for piisneb_error_mode ! ----------------------------------!				
1	CHARACTER	R	PIIS_MODE_ REQUESTER	
1	CHARACTER	P	PIIS_MODE_PROVIDER	
1	CHARACTER	T	PIIS_MODE_TRUST	
------------------------------------! Values for DFHWS-SOAPLEVEL container ! ------------------------------------!				
4	DECIMAL	1	PI_SOAP11	
4	DECIMAL	2	PI_SOAP12	
---! Values for piisneb_error_type ! <piis_node_abend>: A Handler abended ! <piis_null_cnt> : Container empty ! <piis_no_cnt> : Container not found ! <piis_extra_cnt> : Unexpected container ! <piis_node_linkfail>: Link to handler failed ! <piis_trans_failed>: Transport failed ! ---!				
1	DECIMAL	1	PIIS_NODE_ABEND	
1	DECIMAL	2	PIIS_NULL_CNT	
1	DECIMAL	3	PIIS_NO_CNT	
1	DECIMAL	4	PIIS_EXTRA_CNT	
1	DECIMAL	5	PIIS_NODE_LINKFAIL	
1	DECIMAL	6	PIIS_TRANS_FAILED	
1	DECIMAL	7	PIIS_STSACTION_ INVALID	
------------------------------------! Values for DFHWS-FUNCTION container ! Note: These are not provided in the ! DFHPIUCD ASM copybook ! ------------------------------------!				
16	CHARACTER	RECEIVE-REQUEST	PI_RECEIVE_REQUEST	
16	CHARACTER	SEND-REQUEST	PI_SEND_REQUEST	
16	CHARACTER	SEND-RESPONSE	PI_SEND_RESPONSE	
16	CHARACTER	RECEIVE-RESPONSE	PI_RECEIVE_ RESPONSE	
16	CHARACTER	PROCESS-REQUEST	PI_PROCESS_REQUEST	
16	CHARACTER	HANDLER-ERROR	PI_HANDLER_ERROR	
16	CHARACTER	NO-RESPONSE	PI_NO_RESPONSE	

Table 441. (continued)

Len	Type	value	Name	Description
------------------------------------! Values for DFHWS-MEP container ! ------------------------------------!				
1	DECIMAL	1	PI_MEP_IN_ONLY	
1	DECIMAL	2	PI_MEP_IN_OUT	
1	DECIMAL	4	PI_MEP_ROBUST_ IN_ONLY	
1	DECIMAL	8	PI_MEP_IN_ OPTIONAL_OUT	
------------------------------------! Container name constants ! Note: These are not provided in the ! DFHPIUCD ASM copybook ! ------------------------------------!				
16	CHARACTER	DFH-SERVICEPLIST	PI_DFH_SERVICEPLIST	
16	CHARACTER	DFH-HANDLERPLIST	PI_DFH_HANDLERPLIST	
16	CHARACTER	DFHFUNCTION	PI_DFHFUNCTION	
16	CHARACTER	DFHREQUEST	PI_DFHREQUEST	
16	CHARACTER	DFHRESPONSE	PI_DFHRESPONSE	
16	CHARACTER	DFHNORESPONSE	PI_DFHNORESPONSE	
16	CHARACTER	DFHERROR	PI_DFHERROR	
16	CHARACTER	DFHHEADER	PI_DFHHEADER	
16	CHARACTER	DFHWS-URI	PI_DFHWS_URI	
16	CHARACTER	DFHWS-TRANID	PI_DFHWS_TRANID	
16	CHARACTER	DFHWS-USERID	PI_DFHWS_USERID	
16	CHARACTER	DFHWS-PIPELINE	PI_DFHWS_PIPELINE	
16	CHARACTER	DFHWS-WEBSERVICE	PI_DFHWS_ WEBSERVICE	
16	CHARACTER	DFHWS-SOAPLEVEL	PI_DFHWS_SOAPLEVEL	
16	CHARACTER	DFHWS-SOAPACTION	PI_DFHWS_ SOAPACTION	
16	CHARACTER	DFHWS-BODY	PI_DFHWS_BODY	
16	CHARACTER	DFHWS-XMLNS	PI_DFHWS_XMLNS	
16	CHARACTER	DFHWS-APPHANDLER	PI_DFHWS_ APPHANDLER	
16	CHARACTER	DFHWS-DATA	PI_DFHWS_DATA	
16	CHARACTER	DFHWS-RESPCODES	PI_DFHWS_RESPCODES	
16	CHARACTER	DFHWS-OPERATION	PI_DFHWS_OPERATION	

Table 441. (continued)

Len	Type	value	Name	Description
16	CHARACTER	DFHWS-MEP	PI_DFHWS_MEP	
16	CHARACTER	DFHWS-MTOM-IN	PI_DFHWS_MTOM_IN	
16	CHARACTER	DFHWS-MTOM-OUT	PI_DFHWS_MTOM_OUT	
16	CHARACTER	DFHWS-XOP-IN	PI_DFHWS_XOP_IN	
16	CHARACTER	DFHWS-XOP-OUT	PI_DFHWS_XOP_OUT	
16	CHARACTER	DFHWS-CID-DOMAIN	PI_DFHWS_ CID_DOMAIN	
16	CHARACTER	DFHWSTC-V1	PI_DFHWSTC_V1	
16	CHARACTER	DFHWS-STSACTION	PI_DFHWS_STSACTION	
16	CHARACTER	DFHWS-STSURI	PI_DFHWS_STSURI	
16	CHARACTER	DFHWS-IDTOKEN	PI_DFHWS_IDTOKEN	
16	CHARACTER	DFHWS-RESTOKEN	PI_DFHWS_RESTOKEN	
16	CHARACTER	DFHWS-STSFAULT	PI_DFHWS_STSFAULT	
16	CHARACTER	DFHWS-SERVICEURI	PI_DFHWS_ SERVICEURI	
16	CHARACTER	DFHWS-TOKENTYPE	PI_DFHWS_TOKENTYPE	

TEST for DSECTGEN use only: OK data for OO

```
:refstep.A

 Restricted Materials of IBM

 CONTROL BLOCK NAME = DFHPMOOC
 SEGMENT NAME = DFHPMOOC
 COPYBOOK NAME = DFHPMOOC
 COPY BOOK NAME = DFHPMOOC
CONTROLBLOCKNAME=DFHPMOOC
NAME OF SEGMENT = DFHPMBANANA
                                    copybook name = dfhpmooc
 DESCRIPTIVE NAME  = DSECTGEN
 LIFETIME =
 STORAGE CLASS =
 LOCATION =
 INNER CONTROL BLOCKS =
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
  MODULE TYPE = Control block definition
  NaMeOfMatChing blah blah Blah
  Name (should come out)
  OF MATCHING (so should this)
  Name of Mating (and this)
-------------------------------------------------------------------
 EXTERNAL REFERENCES =
```

```
   DATA AREAS =
   CONTROL BLOCKS =
   GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
 The first three will be processed; the next three will not
:erefstep.A
```

Table 442.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	56	PMOOTEST	
! will appear if inherited and as part of isa expansion				
INSTANCE DATA				
Inherited Data				
(0)	STRUCTURE Prot	24	INHERITED_DATA	
(0)	CHARACTER Prot	20	INH1	
(14)	ADDRESS Prot	4	INH2	
! will not appear if inherited or as part of isa expansion				
(0)	STRUCTURE Prot	4	IBASED	
(0)	SIGNED Prot	4	IB1	
! Instance data - should be merged with other instance data				
Declared Data				
(18)	STRUCTURE Prot	16	PMOOTEST_1	
(18)	CHARACTER Prot	10	PMO1CHAR	
(24)	ADDRESS Prot	4	PMO1PTR	
! Instance data - should be merged with other instance data				
(28)	STRUCTURE Prot	16	PMOOTEST_2	
(28)	CHARACTER Prot	10	PMDOCHAR	
2 pmdoox isa(pmoox),				
(34)	SIGNED Prot	4	PMDOBIN	
! Defined data (instance)				
(18)	STRUCTURE Prot	4	DEFIDATA	
(18)	CHARACTER Prot	4	DEF1	
! Based data (instance)				
(0)	STRUCTURE Prot IsA(UDT2)	16	INST_BASED	
(0)	CHARACTER Prot	10	UDT2A	
(A)	CHARACTER Prot	6	UDT2B	

Table 442. (continued)

Offset Hex	Type	Len	Name (dim)	Description
! Based data (instance) - based within pmoox ignored				
(0)	OBJECT Prot IsA(PMOOX)	24	MYOOX	
(0)	CHARACTER Prot	24	INHERITED_DATA	
(0)	CHARACTER Prot	20	INH1	
(14)	ADDRESS Prot	4	INH2	
(0)	CHARACTER Prot	4	IBASED	
(0)	SIGNED Prot	4	IB1	
! Simple item that is based (instance) - should not appear				
(0)	CHARACTER Prot	6	ISIMPLE	
! Based data (shared)				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	*	TEST_1	1st test structure.
(0)	CHARACTER Prot	50	C1	Test char strings.
(0)	CHARACTER Prot	1	C2	
(1)	CHARACTER Prot	10	C3	
(B)	CHARACTER Prot	2	C4 (5)	An array of 5.
(B)	CHARACTER Prot	1	C5	1 byte padding needed.
(15)	CHARACTER Prot	20	C6	Structure header.
(15)	CHAR VARY Prot	8	C7	Varying length string.
(1F)	CHARACTER Prot	10	C8	
(32)	CHARACTER Prot	10	C9 (3,5)	An array of 3 by 5.
(C8)	CHARACTER Prot	1	*	
(C9)	CHARACTER Prot	10	C10	
(D8)	CHARACTER Prot	0	C11	CHAR(0) with dword.
(D8)	CHARACTER Prot	5	C12	

Table 442. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E0)	CHARACTER Prot	0	C13	CHAR(0) with dword.
(E0)	CHARACTER Prot	7	C14	New style comment.
(E7)	CHARACTER Prot	2	* (5)	Unnamed struct hdr.
(E7)	CHARACTER Prot	1	C55	1 byte padding needed.
(F1)	CHARACTER Prot	2	*	Unnamed struct hdr.
(F1)	CHARACTER Prot	2	C56	
(F3)	CHARACTER Prot	*	C15	A CHAR(*) data type.
(F3)	STRUCTURE Prot	4	DEFSDATA	
(F3)	CHARACTER Prot	4	DEF2	
`Static (shared) structure data - should appear`				
(0)	STRUCTURE Prot	9	STAT1	
(0)	CHARACTER Prot	9	SDAT1	
`Simple item that is based (shared) - should not appear`				
(0)	CHARACTER Prot	6	SIMPLE	
`Static (shared) structure data - should appear`				
(C)	STRUCTURE Prot	12	STAT2	
(C)	CHARACTER Prot	6	SDAT21	
(14)	UNSIGNED Prot	4	SDAT22	2 bytes padding before
`Static (shared) simple data - should not appear`				
(18)	CHARACTER Prot	7	STAT3	
`UDT (shared) simple data - should not appear`				
(0)	STRING Prot	1	UDT1	
`UDT (shared) structure data - should appear`				
(0)	STRUCTURE Prot	16	UDT2	
(0)	CHARACTER Prot	10	UDT2A	
(A)	CHARACTER Prot	6	UDT2B	

Constants

Table 443.

Len	Type	value	Name	Description
Constant				
4	DECIMAL	-1	CF6	

TEST for DSECTGEN use only: OK data. Asm

```
:refstep.A

 Restricted Materials of IBM

 CONTROL BLOCK NAME = DFHPMTDC
 SEGMENT NAME = DFHPMTDC
 COPYBOOK NAME = DFHPMTDC
 COPY BOOK NAME = DFHPMTDC
CONTROLBLOCKNAME=DFHPMTDC
NAME OF SEGMENT = DFHPMBANANA
                                        copybook name = dfhpmtdc
 DESCRIPTIVE NAME  = DSECTGEN
 LIFETIME =
 STORAGE CLASS =
 LOCATION =
 INNER CONTROL BLOCKS =
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
  MODULE TYPE = Control block definition
  NaMeOfMatChing blah blah Blah
  Name (should come out)
  OF MATCHING (so should this)
  Name of Mating (and this)
-------------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
   CONTROL BLOCKS =
   GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
 The first three will be processed; the next three will not
:erefstep.A
```

Table 444.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TEST_1	1st test structure.
(0)	CHARACTER	50	C1	Test char strings.
(0)	CHARACTER	1	C2	
(1)	CHARACTER	10	C3	
(B)	CHARACTER	2	C4 (5)	An array of 5.
(B)	CHARACTER	1	C5	1 byte padding needed.
(15)	CHARACTER	20	C6	Structure header.
(15)	CHAR VARY	8	C7	Varying length string.
(1F)	CHARACTER	10	C8	
Block comment after a structure.				

Table 444. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(32)	CHARACTER	10	C9 (3,5)	An array of 3 by 5.
(C8)	CHARACTER	1	*	
(C9)	CHARACTER	10	C10	
(D8)	CHARACTER	0	C11	CHAR(0) with dword.
(D8)	CHARACTER	5	C12	
(E0)	CHARACTER	0	C13	CHAR(0) with dword.
(E0)	CHARACTER	7	C14	New style comment.
(E7)	CHARACTER	2	* (5)	Unnamed struct hdr.
(E7)	CHARACTER	1	C55	1 byte padding needed.
(F1)	CHARACTER	2	*	Unnamed struct hdr.
(F1)	CHARACTER	2	C56	
(F3)	CHARACTER	*	C15	A CHAR(*) data type.

```
-----------------------------------------------------------------
 A Block containing BIN declarations.
 SEGMENT NAME = DFHPMTDC
-----------------------------------------------------------------
```

Table 445.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	TEST_2	This structure tests both very very long comments and all possible combinations of the binary PL/AS data type. This line comment should span several lines.
(0)	UNSIGNED	2	F1	A BIN(16).
(0)	UNSIGNED	2	F2	Another BIN(16).
(2)	UNSIGNED	1	F3 (5)	An array of 5.
(8)	FULLWORD	4	F4	A BIN(31).
(D)	UNSIGNED	3	F5	A BIN(24).
(10)	UNSIGNED	1	F6	A BIN(8).
(12)	HALFWORD	2	F7	A BIN(15).
(14)	UNSIGNED	4	F8	A BIN(32).

```
     ------------------------------------------------------- A
     block comment that starts from a few columns in.
     -------------------------------------------------------
```

Table 446.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	TEST_3	Structure of pointers.
(0)	ADDRESS	4	P1	A PTR(31).
(4)	ADDRESS	4	P2	A PTR(32).
(8)	ADDRESS	4	P3	Unspecified PTR prec.
(C)	ADDRESS	2	P4	A PTR(16).
(E)	ADDRESS	2	P5	A PTR(15).
A block comment during a list of pointers.				
(11)	ADDRESS	3	P6	A PTR(24).
(14)	ADDRESS	1	P7	A PTR(8).
(18)	ADDRESS	4	P8 (10)	Array of 10 PTR(32).
(18)	ADDRESS	2	P9	A PTR(16).
(1A)	ADDRESS	2	P10	A PTR(16).

```
     ------------------------------------------------------------------
      Some viapointers. Hmmm....
     ------------------------------------------------------------------
      DCL
     1 TEST_3A BASED,
       2 VP1 VIAPTR,
       2 VP2 VIAPTR(24,24),
       2 VP3 VIAPTR(31,31),
       2 VP4 VIAPTR(24,31),
       2 VP5(10) VIAPTR(32,16),
       2 VP6 VIAPTR(8,16),
       2 VP7 VIAPTR(32,32),
         3 VP8 VIAPTR(24,8),
         3 VP9 VIAPTR(8,24);
     ------------------------------------------------------------------
      A structure of legal BITs.
     ------------------------------------------------------------------
```

Table 447.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	26	TEST_4	Valid BIT structure.
(0)	BIT(16)	2	B1	A BIT(16).
(2)	BIT(8)	1	B2	BIT(8) structure hdr.
(2)	BIT(8)	1	B3	BIT(8) inside a BIT(8)
(3)	CHARACTER	1	C16	CHAR(1) bit header.
A Block comment before a BIT(1).				

Table 447. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		B5	Bit 128
	.1..		B6	Bit 64
	..11 1...		*	Ignored * BIT(3).
	.... .1..		B7	Bit 4
	.... ..1.		*	Ignored * BIT(1).
`Another block comment.`				
	1		B8	Bit 1
(4)	UNSIGNED	1	F9	BIN(8) structure hdr.
	1...		B9	Bit 128
	.1..		B10	Bit 64
	..11 1111		*	Ignored * BIT(6).
`A Block comment again.`				
(5)	CHARACTER	1	B11 (10)	An array of 10.
	1...		B12	Bit 128
	.111 1111		*	Ignored
(F)	BIT(8)	1	B13	BIT(8) structure hdr.
	1...		B14	Bit 128
	.1..		B15	Bit 64
	.1..		B16	Bit 64
	.1..		B17	Bit 64
	..11 1111		*	Ignored
(10)	BIT(8)	1	B24	Test BIT padding.
	1111 11..		*	ORG *+1 needed before.
	.... ..1.		B25	Bit number 02.
	1		B26	Bit number 01.
(11)	BIT(8)	1	B29 (5)	Array of BIT(8)'s.
	1111 11..		*	ORG *+5 needed before.
	.... ..1.		B30	Bit number 02.
	1		B31	Bit number 01.
`:refstep.B Block comment after bit padding, surrounded by asterix's. :erefstep.B`				
(16)	BIT(8)	1	B27	BIT padding test.
	1...		*	Bit 128.
	.1..		B28	Bit 64.
	..11 1111		*	Ignored * BIT(6).

Table 447. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(17)	UNSIGNED	1	F30	-> Bit header <-
(17)	CHARACTER	1	C90	-> Bit header <-
(17)	BIT(8)	1	B32	-> Bit header <-
	1...		B33	Bit 128.
	1...		B34	Bit 128.
	.1..		B35	Bit 64.
	..11 1111		*	Ignored * BIT(6).
(18)	BIT(8)	1	B36	-> Bit header <-
	1...		B37	Bit 128.
	.1..		B38	Bit 64.
	..1.		B39	Bit 32.
	...1		B40	Bit 16.
	.... 1...		B41	Bit 8.
	.... .1..		B42	Bit 4.
	.... ..1.		B43	Bit 2.
	1		B44	Bit 1.
(19)	BIT(8)	1	B45	-> Bit header <-
(19)	BIT(8)	1	B46	-> Bit header <-
	1...		B47	Bit 128.

```
------------------------------------------------------------------
 This stucture contains different data types.
------------------------------------------------------------------
```

Table 448.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TEST_5	
(0)	CHARACTER	1	C17	Character length 1.
(4)	FULLWORD	4	F10	A BIN(31).
(8)	CHARACTER	15	C18 (20)	An array of 20.
(8)	CHARACTER	10	C19	
(12)	CHARACTER	5	C20	
A block comment before the AREA data type.				
(134)	AREA	32	A1	An area of 32.
(154)	ADDRESS	4	P11	A Pointer.
(158)	BIT(24)	3	B18	A BIT(24).
(15B)	BIT(*)	*	B_UNKN	A BIT(*).

```
:refstep.C
 This is the longest possible block comment. It goes right to here.
:erefstep.C
```

Table 449.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	10	TEST_6	A very short struct.
(0)	CHARACTER	10	C21	
(A)	CHARACTER	0	C22	Character length zero.

```
-----------------------------------------------------------------
 Stucture with long variable names.
-----------------------------------------------------------------
```

Table 450.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	C23__6789_ 123456789_ 123456789_1	
				Long variable name.
(0)	CHARACTER	12	C24__6789_ 123456789_ 123456789_1	
				Long var name II.
(C)	UNSIGNED	4	F11__6789_ 123456789_ 123456789_1 (10)	

```
-----------------------------------------------------------------
 Stucture with long variable names, should test line spliting.
-----------------------------------------------------------------
```

Table 451.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	C25__6789_ 123456789_1234567	
				Long variable name.
(0)	CHARACTER	12	C26__6789_ 123456789_ 123456789_1	
				Long var name II.
(C)	UNSIGNED	4	F12__6789_ 123456789_ 123456789_1 (10)	

```
------------------------------------------------------------------
 The following structure test the LIKE attribute.
------------------------------------------------------------------
```

Table 452.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	TEST_30	TEST_30 structure.
(0)	CHARACTER	8	C6000	
(8)	FULLWORD	4	F300	A BIN(31).

Table 453.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	TEST_31	
(0)	CHARACTER	12	L1_WITH_ A_LONG_NAME	
				LIKE TEST_30.
(0)	CHARACTER	8	C6000	
(8)	FULLWORD	4	F300	
(C)	CHARACTER	8	C61	
(14)	CHARACTER	12	L2_2ND	LIKE TEST_30.
(14)	CHARACTER	8	C6000	
(1C)	FULLWORD	4	F300	

Table 454.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	TEST_32	
(0)	CHARACTER	32	L3_WITH_ A_LONG_NAME	
				LIKE TEST_31.
(0)	CHARACTER	12	L1_WITH_ A_LONG_NAME	
(0)	CHARACTER	8	C6000	
(8)	FULLWORD	4	F300	
(C)	CHARACTER	8	C61	
(14)	CHARACTER	12	L2_2ND	
(14)	CHARACTER	8	C6000	
(1C)	FULLWORD	4	F300	

Table 455.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	TEST_33_MORE_TEXT	LIKE TEST_32.
(0)	CHARACTER	32	L3_WITH_ A_LONG_NAME	

Table 455. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	12	L1_WITH_ A_LONG_NAME	
(0)	CHARACTER	8	C6000	
(8)	FULLWORD	4	F300	
(C)	CHARACTER	8	C61	
(14)	CHARACTER	12	L2_2ND	
(14)	CHARACTER	8	C6000	
(1C)	FULLWORD	4	F300	

Table 456.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	110	TEST_34	Structure TEST_34.
(0)	CHARACTER	10	C62 (10)	Short var name.
(64)	CHARACTER	10	C63_EXTENEDED_ FUTHER	

Table 457.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	110	TEST_35_ ANOTHER_ VERY_LONG_VAR_N	
				TEST_34
(0)	CHARACTER	10	C62 (10)	
(64)	CHARACTER	10	C63_EXTENEDED_ FUTHER	

Table 458.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	110	TEST_36	
(0)	CHARACTER	10	C62 (10)	
(64)	CHARACTER	10	C63_EXTENEDED_ FUTHER	

```
------------------------------------------------------------------
 The following structure test the LIKE attribute, with long names
------------------------------------------------------------------
```

Table 459.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	TEST_7	TEST_7 structure.
(0)	CHARACTER	8	C25	

Table 459. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	1	*	Unnamed variable.
(C)	FULLWORD	4	F12	A BIN(31).

Table 460.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	TEST_8	
(0)	CHARACTER	16	L1	Like 1, LIKE TEST_7.
(0)	CHARACTER	8	C25	
(8)	CHARACTER	1	*	
(C)	FULLWORD	4	F12	
(10)	CHARACTER	8	C26	
(18)	CHARACTER	16	L2	Like 2, LIKE TEST_7.
(18)	CHARACTER	8	C25	
(20)	CHARACTER	1	*	
(24)	FULLWORD	4	F12	

Table 461.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	TEST_9	
(0)	CHARACTER	40	L3	Like 3, LIKE TEST_22.
(0)	CHARACTER	16	L1	
(0)	CHARACTER	8	C25	
(8)	CHARACTER	1	*	
(C)	FULLWORD	4	F12	
(10)	CHARACTER	8	C26	
(18)	CHARACTER	16	L2	
(18)	CHARACTER	8	C25	
(20)	CHARACTER	1	*	
(24)	FULLWORD	4	F12	

Table 462.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	TEST_10	LIKE TEST_9.
(0)	CHARACTER	40	L3	
(0)	CHARACTER	16	L1	
(0)	CHARACTER	8	C25	

Table 462. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	1	*	
(C)	FULLWORD	4	F12	
(10)	CHARACTER	8	C26	
(18)	CHARACTER	16	L2	
(18)	CHARACTER	8	C25	
(20)	CHARACTER	1	*	
(24)	FULLWORD	4	F12	

```
-----------------------------------------------------------------
 Other special case structures.
-----------------------------------------------------------------
```

Table 463.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	5	TEST_11 (10)	Level 1 Array.
(0)	CHARACTER	5	C27	A character len 5.

Table 464.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TEST_12	
(0)	CHARACTER	10	C28 (*)	An array of *.

```
-----------------------------------------------------------------
 Test DEFINED structures.
-----------------------------------------------------------------
```

Table 465.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	15	TEST_13	
(0)	CHARACTER	10	C29	
(A)	CHARACTER	5	C30	Variable C30.

Table 466.

Offset Hex	Type	Len	Name (dim)	Description
(A)	STRUCTURE	25	TEST_14	Defined on C30.
(A)	CHARACTER	15	C31	
(19)	CHARACTER	10	C32	

Table 467.

Offset Hex	Type	Len	Name (dim)	Description
(19)	STRUCTURE	10	TEST_15	Defined on C32.
(19)	CHARACTER	5	C33	
(1E)	CHARACTER	5	C34	

Table 468.

Offset Hex	Type	Len	Name (dim)	Description
(1E)	STRUCTURE	45	TEST_16	Defined on C34.
(1E)	CHARACTER	20	C35	
(32)	CHARACTER	25	C36	New style comment # 2.

```
------------------------------------------------------------------
 This structure tests the array extents are output correctly.
------------------------------------------------------------------
```

Table 469.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1085	TEST_17	
(0)	CHARACTER	10	C37 (2-10)	Array size 9.
(5A)	CHARACTER	10	C38 (5)	Array size 6.
(96)	CHARACTER	10	C39 ()	Array size 11.
(104)	CHARACTER	10	C40 (0-10)	Array size 11.
(172)	CHARACTER	10	C41 (10)	Array size 10.
(1D6)	CHARACTER	10	C42 (10)	Array size 21.
(2A8)	CHARACTER	5	C43	Not an array.
(2AD)	CHARACTER	10	C44 (2-5,10)	2D array. 4 x 10.

```
------------------------------------------------------------------
 This structure tests the padding used.
------------------------------------------------------------VWXYZ
```

Table 470.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	50	TEST_18	
(0)	CHARACTER	50	C45	Length 50.
A comment in a structure.				
(0)	CHARACTER	30	C46	Length 30.
(0)	CHARACTER	20	C47	Length 20.
(0)	CHARACTER	3	C48	1 byte pad missing.

```
------------------------------------------------------------------
 This structure tests the padding used.
------------------------------------------------------------VWXYZ
```

Table 471.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	TEST_19	
(0)	CHARACTER	1	C49	
(1)	CHARACTER	0	C50	A length of 0.
A block comment before padding is required.				

Table 471. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	CHARACTER	4	C51	Padding required.
(5)	CHARACTER	1	C67	
(4)	UNSIGNED	4	F13	
(8)	CHARACTER	2	C52	On boundary dword.
(8)	ADDRESS	4	F14	ORG back required.
(10)	CHARACTER	1	C53	On boundary dword.
(14)	UNSIGNED	4	F15	
(14)	BIT(8)	1	B20	
	1...		B21	3 bytes pad needed.
A block comment that appears after padding is required.				
(18)	CHARACTER	1	C54	
(19)	CHARACTER	10	C64	
A block comment at the start of a structure.				
(19)	CHARACTER	5	C65	LCS Chng flag
(23)	CHARACTER	1	C66	SPA Chng flag @BA123456

Table 472.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	TEST_20	A very long comment, with different delimiter
(0)	BIT(8)	1	B22	A Bit header.
	1...		B23	
(8)	UNSIGNED	4	F16	3 bytes pad needed.

```
------------------------------------------------------------------
 Padding required in array structure containing an array struct.
------------------------------------------------------------------
```

Table 473.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	50	TEST_21	Test structure 21.
(0)	CHARACTER	5	C57 (10)	Array of 10 char(5)'s
(0)	CHARACTER	3	C58 (2,3)	Array of 6 char(3)'s.
(0)	CHARACTER	2	C59	Padding required.

```
------------------------------------------------------------------
 Test new PL/X feature - UNION.
------------------------------------------------------------------
```

Table 474.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	50	TEST_23	
(0)	CHARACTER	10	C68	
(10)	CHARACTER	20	U1	This is a UNION.
(10)	CHARACTER	5	C70	UNION -> U1.
(10)	CHARACTER	5	C71	
(10)	UNSIGNED	2	F17	UNION -> U1.
A block comment in a UNION structure.				
(10)	CHARACTER	1	C72	
(11)	CHARACTER	1	C73	Bit Header.
	1...		B48	BIT 128.
A block comment in a UNION.				
(10)	CHARACTER	20	C74	UNION -> U1.
(10)	CHARACTER	1	C75	Padding required.
Another block comment.				
(11)	UNSIGNED	4	F18	
(15)	CHARACTER	3	C76	More padding required
(18)	HALFWORD	2	F19	
(10)	CHARACTER	5	C77	UNION -> U1 (Pad 15)
(24)	UNSIGNED	4	F20	No longer in UNION.
(28)	CHARACTER	10	C78	

```
------------------------------------------------------------------
 Test nested UNION structures.
------------------------------------------------------------------
```

Table 475.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	TEST_24	
(0)	CHARACTER	20	U2	Union.
(0)	CHARACTER	10	C79	UNION -> U2.
(0)	UNSIGNED	1	F21	Bit structure.
	1...		B49	Bit 128.
	.1..		B50	Bit 64.
	..1.		B51	Bit 32.
(1)	CHARACTER	9	C80	

Table 475. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	3	U3	UNION -> U2 (Union)
(0)	CHARACTER	3	C81	UNION -> U3
(0)	CHARACTER	2	C82	1 byte padding needed.
(0)	CHARACTER	1	C83	UNION -> U3
(0)	UNSIGNED	4	F22	UNION -> U2
(0)	CHARACTER	20	C84	UNION -> U2
(0)	CHARACTER	5	U4	Union.
(0)	CHARACTER	5	U5	UNION -> U4
(0)	CHARACTER	5	C85	UNION -> U5
(0)	CHARACTER	5	C86	
(0)	CHARACTER	2	C87	UNION -> U5
(0)	CHARACTER	4	C94	Padding needed
(0)	CHARACTER	10	C88	UNION -> U2
(14)	ADDRESS	4	P12	No longer in a UNION.

```
----------------------------------------------------------------
 A BASED UNION structure.
----------------------------------------------------------------
```

Table 476.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	10	TEST_25	Union based structure.
(0)	CHARACTER	10	C89	UNION -> TEST_25.
(0)	ADDRESS	4	P13	
(0)	CHARACTER	5	C103 (2)	UNION -> TEST_25.

```
----------------------------------------------------------------
 A DEFINED UNION structure.
----------------------------------------------------------------
```

Table 477.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	10	TEST_26	
(0)	CHARACTER	10	C91	Used to define on.

Table 478.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	10	TEST_27	Union defined on C90

Table 478. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	10	C92	UNION -> TEST_27
(0)	ADDRESS	4	P14	
(0)	CHARACTER	5	C93	UNION -> TEST_27

```
-----------------------------------------------------------------
 UNION structure of BIT's.
-----------------------------------------------------------------
```

Table 479.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	TEST_28	
(0)	BIT(8)	1	B52	
(0)	BIT(8)	1	B54	Union -> B52.
	1...		B55	Bit 128
	.1..		B58	Bit 64
(0)	BIT(8)	1	B57	Union -> B52.

```
-----------------------------------------------------------------
 UNION with an unknown name.
-----------------------------------------------------------------
```

Table 480.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	TEST_29	
(0)	CHARACTER	10	*	Unnamed UNION.
(0)	CHARACTER	10	C95	UNION -> Unknown.
(0)	UNSIGNED	1	F24	
(1)	CHARACTER	3	C96	
(4)	CHARACTER	5	C97	
(4)	CHARACTER	1	C98	Bit structure.
	1...		B56	
(5)	CHARACTER	2	C99	
(0)	CHARACTER	5	C100	UNION -> Unknown.
(0)	CHARACTER	7	C101	UNION -> Unknown.
(0)	CHARACTER	2	U6	Union 6.
(0)	CHARACTER	2	C102	UNION -> U6.
(0)	CHARACTER	1	C104	UNION -> U6.
(0)	UNSIGNED	1	F25	UNION -> Unknown.

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A)	CHARACTER	10	C105	No longer a Union.

```
-----------------------------------------------------------------
 Test outputing of different length precisions and arrays.
-----------------------------------------------------------------
```

Table 481.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	44851	TEST_37	
(0)	CHARACTER	1	C106	
(1)	CHARACTER	12	C107	
(D)	CHARACTER	123	C108	
(88)	CHARACTER	1	C109 (1000)	
(88)	CHARACTER	1	C110	
(470)	CHARACTER	10	C111 (3000)	
(470)	CHARACTER	1	C112	
(79A0)	CHARACTER	1	C113 (1)	
(79A1)	CHARACTER	1	C114 (12)	
(79AD)	CHARACTER	1	C115 (123)	
(7A28)	CHARACTER	1	C116 (1234)	
(7EFA)	CHARACTER	1	C117 (12345)	

```
-----------------------------------------------------------------
 Test variable names with 40 chars in them (max var name in PLX).
-----------------------------------------------------------------
```

Table 482.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24010	A_VERY_ LONG_STRUCTE_ HEADER_40_CHARACTERS	
(0)	CHARACTER	20	A_VERY_ VERY_VERY_ VERY_LONG_VARIABLE_NAME (1000)	
				Comment
(4E20)	UNSIGNED	4	ANOTHER_ EXCEPTIONALLY_ LONG_VARIABLE_NAME (1000)	
(5DC0)	CHARACTER	10	THE_LAST_ VERY_LONG_ VARIABLE_NAME_IS_HERE	

```
:refstep.C
This is a comment.
This is the comment continued.
:erefstep.C
```

Table 483.

Offset Hex	Type	Len	Name (dim)	Description
(5DC0)	STRUCTURE	10	LONG_VAR_NAME	
(5DC0)	CHARACTER	10	A_LONG_ NAME_INSIDE_ A_DEFINED_STRUCTURE	

Table 484.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	TEST_50	
(0)	STRUCTURE IsA(STCK_TYPE)	8	STCK1	
(0)	UNSIGNED	4	HIGH_WORD	
(4)	FULLWORD	4	LOW_WORD	
(8)	STRUCTURE IsA(STCK_TYP2)	8	STCK2	
(8)	UNSIGNED	4	HIGH_WORD2	
(C)	FULLWORD	4	LOW_WORD2	
(10)	STRING IsA(STCK_TYP3)	1	STCK3	
(10)	UNSIGNED	4	HIGH_WORD3	
(14)	UNSIGNED	4	LOW_WORD3	

Table 485.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE IsA(STCK_TYPE)	8	TEST_51	
(0)	UNSIGNED	4	HIGH_WORD	
(4)	FULLWORD	4	LOW_WORD	

Table 486.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2	TEST_52	
(0)	BIT(8) IsA(FLAG_BYTE)	1	FLAG1	
	1...		FLAG_B1	
	.1..		FLAG_B2	
	..11 1111		*	
(1)	BYTE IsA(FLAG_BYT2)	0	FLAG2	
	1...		FLAG_B21	

Table 486. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		FLAG_B22	
	..11 1111		*	

Table 487.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE IsA(FLAG_BYTE)	1	TEST_53	
	1...		FLAG_B1	
	.1..		FLAG_B2	
	..11 1111		*	

Table 488.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	TEST_54	
(0)	UNSIGNED	4	NUMB1	
(4)	FULLWORD	4	NUMB2	

Constants

Table 489.

Len	Type	value	Name	Description
A block comment before constants.				
4	DECIMAL	101	UDTP1	
4	DECIMAL	102	UDTP2	
4	DECIMAL	103	UDTP3	
4	DECIMAL	104	UDTP4	
4	CHARACTER	ABCD	CC1	Max Char constant.
4	CHARACTER	AB	CC2	Test Blank at the end of consts are output.
3	CHARACTER	> <	CC3	
1	CHARACTER		CC4	One blank.
3	CHARACTER	A&B	CC5	& in constant.
3	CHARACTER	A'B	CC6	Single quote.
3	CHARACTER	A'	CC7	
4	CHARACTER	%/!#	CC8	Other special chars?
4	CHARACTER		CC9	Other special chars 2?
4	CHARACTER	;*==	CC10	Other special chars 3?

Table 489. (continued)

Len	Type	value	Name	Description
4	CHARACTER	&'|+	CC11	Other special chars 4?
4	CHARACTER		CC12	
4	CHARACTER	-^`{	CC13	
4	CHARACTER	},.?	CC14	
4	CHARACTER	[]|_	CC15	
3	CHARACTER	BEL	CC16	
4	CHARACTER	RTVX	EXTREMELY_ LONG_CONSTANT_ NAME_ARTICHOKE	
Pointer constants.				
1	DECIMAL	10	CP1	Pointer 8 constant.
2	DECIMAL	100	CP2	Pointer 15 constant.
2	DECIMAL	10	CP3	Pointer 16 constant.
3	DECIMAL	213	CP4	Pointer 24 constant.
4	DECIMAL	123	CP5	Pointer 31 constant.
4	DECIMAL	1	CP6	Pointer 32 constant.
BIT constants.				
3	HEX	200000	CB1	Bit constants.
4	BIT	0001001000110100 0101011001110000	CB3_LONG_ VARIABLE_NAME	
				Longest BIT const.
2	BIT	1001101010111100	CB4	
1	BIT	00001111	CB5	
4	HEX	80000000	CB6	
1	HEX	FF	CB7	
Bin constants.				
4	DECIMAL	45	CF1	Bin constants.
1	DECIMAL	1	CF2	
2	DECIMAL	78	CF3	
3	DECIMAL	12	CF4	
4	DECIMAL	2002	CF5	
---------- The very last comment. ----------				
4	DECIMAL	-1	CF6	

PRS Partner domain static storage area

```
CONTROL BLOCK NAME = DFHPRSPS
DESCRIPTIVE NAME  = CICS Partner Static Storage Area

Restricted Materials of IBM

FUNCTION =
     This control block provides the global information for
     the Partner Resource Manager which must be around for
     the duration of the CICS execution.
     It contains:
       Partner Resource Manager subpool token
       Partner Resource Manager initialization suspend token
       Partner Resource Manager status
       Addresses of Partner Resource Manager gates
LIFETIME =
     The control block is created during CICS initialization
     by DFHPRIN1, and exists for as long as the CICS system.
STORAGE CLASS =
     The control block is in subpool DFHAPDAN. The token for
     this subpool is stored in the CSA optional features list
     in field CSADSANT.
LOCATION =
     The Partner Static Area is located by field SSZPRM 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
     PARTNER STATIC STORAGE AREA
```

Table 490.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	44	PRM_SSA	
Block prefix				
(0)	CHARACTER	16	PREFIX	block prefix area
(0)	HALFWORD	2	BLOCK_LENGTH	block length
(2)	CHARACTER	1	ARROW	'>'
(3)	CHARACTER	3	DFH	'DFH'
(6)	CHARACTER	2	DOMID	'PR'
(8)	CHARACTER	8	BLOCK_NAME	'PRSTATIC'
Block body				
(10)	CHARACTER	28	BODY	body of block
Partner Resource Manager fields				
(10)	CHARACTER	16	*	
(10)	ADDRESS	4	INIT_SUSPEND_TOKEN	
				Suspend token

Table 490. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	CHARACTER	8	SUBPOOL_TOKEN	Partner Resource Manager's subpool token
(1C)	UNSIGNED	1	INIT_STATUS	Status of Partner Resource Manager
(1D)	CHARACTER	3	*	Reserved
Partner Resource Manager entry points				
(20)	CHARACTER	12	*	
(20)	ADDRESS	4	PRPT_GATE	Gate PRPT
(24)	ADDRESS	4	PRFS_GATE	Gate PRFS
(28)	ADDRESS	4	PRCM_GATE	Gate PRCM

Constants

Table 491.

Len	Type	value	Name	Description
1	DECIMAL	44	PRM_SSA_LENGTH	
Constants representing status of Partner Resource Manager initialization				
2	DECIMAL	1	PRM_STATIC_ STORAGE_INITIALIZED	
2	DECIMAL	2	PRM_ACQUIRE_ SUSPEND_TOK_FAILED	
2	DECIMAL	3	PRM_ACQUIRED_ SUSPEND_TOK	
2	DECIMAL	4	PRM_INIT_ TASK_ATTACHED	
2	DECIMAL	5	PRM_INIT_ TASK_STARTED	
2	DECIMAL	6	PRM_LOAD_PRPT_FAILED	
2	DECIMAL	7	PRM_LOADED_PRPT	
2	DECIMAL	8	PRM_LOAD_PRFS_FAILED	
2	DECIMAL	9	PRM_LOADED_PRFS	
2	DECIMAL	10	PRM_LOAD_PRCM_FAILED	
2	DECIMAL	11	PRM_LOADED_PRCM	
2	DECIMAL	12	PRM_LOAD_PRRP_FAILED	
2	DECIMAL	13	PRM_LOADED_PRRP	
2	DECIMAL	14	PRM_PARTNER_ RECOVERY_FAILED	
2	DECIMAL	15	PRM_PARTNER_ RECOVERED	
2	DECIMAL	16	PRM_INIT_SUCCEEDED	

Table 491. (continued)

Len	Type	value	Name	Description
2	DECIMAL	17	PRM_OPEN_ FOR_BUSINESS	
Block name for PR static				
8	CHARACTER	PRSTATIC	PRM_SSA_BLOCK_ NAMEI	

PTE Partner Table Entry

```
=====================================================================
 CONTROL BLOCK NAME = DFHPTEPS
 DESCRIPTIVE NAME  = CICS (PARTNER)
                     Partner Table Entry

 Restricted Materials of IBM

 FUNCTION =
      Defines the layouts of entries in the Partner Table,
      as it exists both in main storage and in the CICS catalog.
      The Partner Table is owned by the Partner component, also
      called the Partner Resource Manager, which encapsulates
      all accesses to the table.
      The Partner Table is the CICS implementation of the Side
      Information Table introduced by SAA CPI-C. (See the SAA
      CPI Communications Reference for details.) Each entry in
      the Partner Table contains information needed to
      initialize a conversation with a partner program on a
      remote LU, which can thus be specified by the application
      be specifying only the name of the entry (known as the
      sym_dest_name).
      An entry in the Partner Table contains the following
      pieces of information:
      - partner_LU_name
        indicates the name of the LU where the partner program
        is located. It can be either a simple network LU
        name, or netname, of one to eight characters, or else
        a fully qualified name of the form network.netname
        where network is a one to eight character network id
        and netname is a one to eight character network LU
        name.
      - profile_name
        the name of the CICS communication profile. This
        profile contains a mode_name which is used to designate
        the properties for the session which will be allocated
        for the conversation.
      - TP_name
        the name of the remote transaction program.
      Note that this implementation accesses the mode_name of
      the side information indirectly via the CICS profile.
 LIFETIME =
      PTEs are created and destroyed only via the PRPT gate of
      the Partner Resource Manager, module DFHPRPT.
 STORAGE CLASS =
      Storage for PTEs is drawn from a subpool created by
      DFHPRRP for this sole purpose.
 LOCATION =
      PTEs are located via scatter tables managed by DFHTMP.
 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 492.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	114	PTE	
(0)	CHARACTER	16	PREFIX	block prefix area
(0)	HALFWORD	2	BLOCK_LENGTH	entry length
(2)	CHARACTER	1	ARROW	'>'
(3)	CHARACTER	3	DFH	'DFH'
(6)	CHARACTER	2	DOMID	'PR'
(8)	CHARACTER	8	BLOCK_NAME	'PTEBLOCK'
(10)	CHARACTER	98	BODY	body of entry
(10)	CHARACTER	8	NAME_PART	name part
(10)	CHARACTER	8	NAME	name of this entry
(18)	CHARACTER	90	ATTRIBUTES_PART	attributes part
(18)	CHARACTER	8	PROFILE_NAME	profile name
(20)	CHARACTER	8	NETWORK	network
(28)	CHARACTER	8	NETNAME	netname
(30)	HALFWORD	2	TP_NAME_LENGTH	TP name length
(32)	CHARACTER	64	TP_NAME	TP name

```
===================================================================
 Structure of a PRM entry in the CICS Global Catalog.
===================================================================
```

Table 493.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	CATALOG_ ENTRY_NAME	
(0)	CHARACTER	8	CEN_NAME_PART	
(0)	CHARACTER	8	NAME	

Table 494.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	90	CATALOG_ENTRY	
(0)	CHARACTER	90	CE_ATTR_PART	
(0)	CHARACTER	8	PROFILE_NAME	

Table 494. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	8	NETWORK	
(10)	CHARACTER	8	NETNAME	
(18)	HALFWORD	2	TP_NAME_LENGTH	
(1A)	CHARACTER	64	TP_NAME	

Constants

Table 495.

Len	Type	value	Name	Description
8	CHARACTER	PTEBLOCK	PTE_BLOCK_NAME	I

RDAB Resource Definition Anchor Block *M3M

Table 496.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	DFHRDAB	RD Anchor Block
(0)	CHARACTER	8	RDAB_HEAD	Set to >DFHRDAB
(8)	ADDRESS	4	TBSS_PTR	Address of DFHTBSS
(C)	ADDRESS	4	TONR_PTR	Address of DFHTONR
(10)	ADDRESS	4	RDAB_RDAL	Ptr to DFHRDAL list
(14)	FULLWORD	4	RDAB_RET_CODE	Ret code for start
(18)	FULLWORD	4	RDAB_SUSPEND_TOKEN_INIT	
				Suspend token wait for APRD INIT
(1C)	FULLWORD	4	RDAB_SUSPEND_TOKEN_RECOVER	
				Suspend token wait for APRD RECOVER
(20)	ADDRESS	4	RDAB_RDUB	Ptr to RDUB chain
(24)	ADDRESS	4	RDAB_LAST_RDUB	Ptr to end RDUB
(28)	CHARACTER	8	RDAB_SUBPOOL	Subpool token

Table 497.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHRDAL	RD Action List
(0)	CHARACTER	8	RDAL_HEADER	Set to >DFHRDAL
(8)	FULLWORD	4	RDAL_FORWARD_PTR	RDAL chain ptr
(C)	FULLWORD	4	RDAL_LENGTH	RDAL length
(10)	CHARACTER	2	RDAL_TYPE	'TO' or 'TB'
(12)	CHARACTER	*	RDAL_ELEMENT	RDAL Element

Constants

Table 498.

Len	Type	value	Name	Description
8	CHARACTER	>DFHRDAB	RDAB_INIT	
8	CHARACTER	>DFHRDAL	RDAL_INIT	

RDUB Resource Definition Update Block

```
CONTROL BLOCK NAME = DFHRDUB
DESCRIPTIVE NAME  = CICS Resource definition update Block

Restricted Materials of IBM

SOURCE = DFHRRAB DESIGN part of DFHAPRDR DESIGN
FUNCTION =
     DFHRDUB describes the DSECT for the Resource definition
     Update Block. This block lists deletions that have been
     made by this unit-of-work from tables. It is chained both
     from the RRAB and from the RDAB.
     When an add or quiesce is performed, the contents of RDUBs
     for other tasks are examined to see if we would overwrite
     an entry which may be backed out subsequently.
     If one is found the taskid and tranid are returned as
     though they had been locks found by TMP.
     The Resource Definition Update Block is built by Table
     Builder Services as part of the processing of an Install
     or Delete. It is added both to a chain from the Resource
     definition Recovery Anchor Block (RRAB), and from the
     Resource Definition Anchor Block (RDAB).
     The Resource Definition Update Block is deleted when the
     associated RRAB is deleted.
     Consider the following cases :-
     Task 1 deletes an entry for terminal ABCD
     Task 2 must not be allowed to add another entry for ABCD
     until Task 1 has committed its unit of work. We used to
     use TMP to hold a global lock until Task1's syncpoint but
     this means that we are very limited in the number of install
     requests that can be processed. So now we hold a list of
     update requested TCT names in the RDUB which allows us to
     ensure that full concurrency can occur.
     Another case is that if Task 1 adds an entry for
     WXYZ we must show it to Task 1, but not to Task 2 or 3. For
     tasks which dont specify SHOW_UPDATES on ZGTI this
     happens because TCTTEDAP,TCTTEDDP,TCSEDAP or TCSEDDP are on.
     If SHOW_UPDATES(YES) is specified, ZGTI will INQUIRE_LOCK
     find out if this entry is soft-locked by another task and
     if so, it will not be returned to the requestor.
```

```
 LIFETIME =
      Created when the first Table Builder call that causes a
      delete is processed.
      Deleted at end of a UOW.
 STORAGE CLASS =
      Above 16M line.
 LOCATION =
      Chained from the RRAB and the RDAB.
 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 499.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	943	DFHRDUB	
(0)	CHARACTER	8	RDUB_HEADER	Set to >DFHRDUB
(8)	ADDRESS	4	RDUB_FWD_ RDAB_PTR	RDAB chain ptr
(C)	ADDRESS	4	RDUB_BWD_ RDAB_PTR	RDAB back-chain ptr
(10)	ADDRESS	4	RDUB_FWD_ RRAB_PTR	RRAB chain ptr
(14)	ADDRESS	4	RDUB_BWD_ RRAB_PTR	RRAB chain ptr
(18)	ADDRESS	4	RDUB_RRAB	RRAB address
(1C)	FULLWORD	4	RDUB_NUMBER	Number of names + 1
(20)	ADDRESS	4	RDUB_DUMMY_PTR	Always zero
(24)	CHARACTER	3	RDUB_TASKI	Task number
(27)	CHARACTER	4	RDUB_TRANI	Transaction Id
(2B)	CHARACTER	18	RDUB_NAMES (50)	Array of names
(2B)	CHARACTER	13	RDUB_LOCK_NAME	Entry name
(38)	CHARACTER	4	RDUB_LOCK_TABLE	Table quiesced
(3C)	BIT(8)	1	RDUB_FLAGS	Flags
	1111		RDUB_LOCK_TYPE	Entry type
	.... 1...		RDUB_LOCK_ QUIESCE	
				Unquiesce needed?
	.... .1..		RDUB_LOCK_ SHARED	Shared lock

Table 499. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	11		*	Reserved

Constants

Table 500.

Len	Type	value	Name	Description
8	CHARACTER	>DFHRDUB	RDUB_NAME	
4	DECIMAL	50	RDUB_MAX	

RMDM Recovery Manager Domain Management Instance

```
!:refstep.RMDM_Class_Declaration ---------------------- DFHRMDM 2822 -
!
!
! The &dm..Class declaration contains the signatures for the methods
! and the declaration of the instance data. The instance data
! structure is the RM Domain anchor block.
!
!--------------------------------------------------------------------
```

Table 501.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	280	RMDM	
`!:erefstep.RMDM_Restore_Method ----------------------------------- !:refstep.RMDM_Instance_Data ------------------------ DFHRMDM 2870 - ! ! This structure is the RM domain global data. ! !----------------------------------------------------------------`				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	280	INSTANCE_ DATA_BLOCK	
(0)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	RMDM_EYE_ CATCHER	Eyecatcher
(0)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(2)	UNSIGNED Publ	2	RM_EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Publ	12	RM_EYE_STRING	'>DFHRMxxxxxx'
(10)	CHARACTER Prot	8	RMDM_SUBPOOL	Subpool Token
(18)	ADDRESS Prot	4	RMDM_LOCK_TOKEN	Domain Lock Token
(1C)	OBJECT Prot IsA(RMCLM)	144	RMDM_CLASS_ MANAGER	

Table 501. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Class Manager
(1C)	CHARACTER Prot	144	INSTANCE_ DATA_BLOCK	
(1C)	CHARACTER Prot	4	NAME (12)	class name
(4C)	ADDRESS Prot	4	INITIALISER (12)	class initialising proc
(7C)	ADDRESS Prot	4	DATA (12)	class data address
(AC)	UNSIGNED Prot	1	RMDM_CURR_ START_TYPE	
				Current system start type
(AD)	UNSIGNED Prot	1	RMDM_CURR_ START_ALL	
				Current system start all option
(AE)	FIXED Prot IsA(RM_YESNO)	1	RMDM_CLEAR_ LOG_AT_COLD_START	
				Clear the log when cold starting
(AF)	UNSIGNED Prot	1	RMDM_CURR_ START_INIT	
				Initial start
(B0)	CHARACTER Prot	64	RMDM_PERSISTENT_ DATA	
				Persistent Data (stored on catalog)
(B0)	CHAR VARY Prot	17	RMDM_LOCAL_ LU_NAME	
				Local LU Name
(C3)	UNSIGNED Prot	1	RMDM_NEXT_ START_TYPE	
				Next Start Type
(C4)	UNSIGNED Prot	1	RMDM_NEXT_ START_ALL	
				Next Start All 0=unset, rmdm_yes/no
(C5)	UNSIGNED Prot	1	RMDM_STATE	Domain State
(C6)	CHARACTER Prot	8	RMDM_LAST_ COLD_TIME	
				Last time this system was cold started

Table 501. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(CE)	CHARACTER Prot	8	RMDM_LAST_ EMER_TIME	
				Last time this system was emergency started
(D6)	CHARACTER Prot	8	RMDM_LAST_ INIT_TIME	
				! Last time this system was initial started
(DE)	BIT(8) Prot	1	RMDM_FLAGS1	Misc. flags
	1... .... Prot		RMDM_UOW_ INFO_FLAG	
				Restart data held
(DF)	CHARACTER Prot	5	*	padding
(E4)	STRUCTURE Prot IsA(RMDM_COUNTS)	12	RMDM_RESTART_ DATA	
				Restart data
(E4)	SIGNED Publ	4	RMDM_INDOUBT_ UOWS	
				Indoubt UOWs
(E8)	SIGNED Publ	4	RMDM_CFAIL_ UOWS	Commit fail UOWs
(EC)	SIGNED Publ	4	RMDM_BFAIL_ UOWS	Backout fail UOWs
Following structure shared with DFHRMUTL utility. ! rmdm_auto_override used herein.				
(F0)	CHARACTER Prot	32	RMDM_PERSISTENT_ OPTIONS	
(F0)	CHARACTER Prot	8	RMDM_AUTO_ OVERRIDE	
				AUTOASIS | AUTOCOLD | AUTOIN AUTODIAG
(F8)	CHARACTER Prot	8	RMDM_AUTO_ OVERRIDE_TIME	
				STCK when written out
(100)	CHARACTER Prot	8	RMDM_COLD_ COPY_TIME	
				STCK when COLD_COPY
(108)	BIT(8) Prot	1	RMDM_POPT_ FLAGS	

Table 501. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1... .... Prot		RMDM_COLD_ COPIED	
				'1'B =was COLD_COPYed
	.111 1111 Prot		*	padding
(109)	CHARACTER Prot	7	*	! padding
(110)	FIXED Prot IsA(RM_YESNO)	1	RMDM_DIAGNOSTIC_ RUN	
				global flag
(111)	CHARACTER Prot	7	*	reserved
!:erefstep.RMDM_Class_Constants ----------				
SHARED DATA				
Declared Data				
(0)	BIT(8) Publ IsA(LMLM_LOCK_STATUS_TYPE)	1	RMDM_LOCK_STATUS	
	1... .... Publ		HELD	
	.111 1111 Publ		*	
(0)	STRUCTURE Publ	12	RMDM_COUNTS	
(0)	SIGNED Publ	4	RMDM_INDOUBT_ UOWS	Indoubt UOWs
(4)	SIGNED Publ	4	RMDM_CFAIL_UOWS	Commit fail UOWs
(8)	SIGNED Publ	4	RMDM_BFAIL_UOWS	Backout fail UOWs

Constants

Table 502.

Len	Type	value	Name	Description
!:refstep.RMDM_Class_Constants ---------- DFHRMDM 796 - ! ! Declare a constant for the number of classes that the class ! manager can handle. This includes a few spare in addition to those ! currently required. ! ! Identify the classes managed by the class manager and some spares. ! ! Specify the order in which the classes are initialised by the ! class manager. ! !----------				
4	DECIMAL	12	RMCLM_MAX_CLASS	Capacity of the class mgr
4	DECIMAL	9	RMDM_NUM_CLASSES	Number of RM classes

Table 502. (continued)

Len	Type	value	Name	Description
RM Classes identified by constant				
4	DECIMAL	1	RMCD_CLASSID	
4	DECIMAL	2	RMVP_CLASSID	
4	DECIMAL	3	RMRO_CLASSID	
4	DECIMAL	4	RMUW_CLASSID	
4	DECIMAL	5	RMLK_CLASSID	
4	DECIMAL	6	RMSL_CLASSID	
4	DECIMAL	7	RMNM_CLASSID	
4	DECIMAL	8	RMNS_CLASSID	
4	DECIMAL	9	RMST_CLASSID	
Spare class ids				
4	DECIMAL	10	RMDM_CLASSID_SPARE2	
4	DECIMAL	11	RMDM_CLASSID_SPARE3	
4	DECIMAL	12	RMDM_CLASSID_SPARE4	
4	DECIMAL	0	RMDM_LOCK_FREE	
4	DECIMAL	128	RMDM_LOCK_HELD	
lock error codes				
4	CHARACTER	ARMA	RMDM_LOCK_ ERROR_CODE	
4	CHARACTER	ARMB	RMDM_UNLOCK_ ERROR_CODE	
persistent name and persistent types				
8	CHARACTER	DFHRMDM	RMDM_PTYPE	
16	CHARACTER	DFHRMDM_ANCHOR	RMDM_PNAME	
16	CHARACTER	DFHRMDM_RESTART	RMDM_PRESTART_NAME	
16	CHARACTER	DFHRMDM_OPTIONS	RMDM_POPTIONS_NAME	
persistent auto option values ! block added				
8	CHARACTER	AUTODIAG	RMDM_OPT_AUTODIAG	
8	CHARACTER	AUTOASIS	RMDM_OPT_AUTOASIS	
8	CHARACTER	AUTOINIT	RMDM_OPT_AUTOINIT	
8	CHARACTER	AUTOCOLD	RMDM_OPT_AUTOCOLD	
8	CHARACTER	AUTOASIS	RMDM_OPT_AUTODFT	
states				
4	DECIMAL	1	RMDM_PRE_ INITIALISING	
4	DECIMAL	2	RMDM_PRE_INITIALISED	
4	DECIMAL	3	RMDM_INITIALISED	
4	DECIMAL	4	RMDM_QUIESCED	
4	DECIMAL	5	RMDM_TERMINATED	

Table 502. (continued)

Len	Type	value	Name	Description
1	BIT	00000000	LMLM_LOCK_FREE	
1	BIT	10000000	LMLM_LOCK_HELD	

RMID Recovery Manager Identity Instance

```
!:refstep.rmid_class_declaration ---------------------- DFHRMID 63 -
!
!
! The rmid class is the Recovery Manager Identity abstract class.
!
! It may only be used by Recovery Manager.
!
!--------------------------------------------------------------------
```

Table 503.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	24	RMID	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	
(8)	STRUCTURE Prot	8	*	
(8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
!:erefstep.rmid_set_name_method ----------------------------------- !:refstep.rmid_instance_data ------------------------- DFHRMID 123 - ! ! The only piece of instance data is the name of the identity. ! !--				
Declared Data				
(10)	CHARACTER Prot	4	NAME	

RMLK Recovery Manager Link Class Data

```
!:refstep.rmlk_class_declaration_for_dfhpmtab -------- DFHRMLK 1048 -
!
!
! This is the declaration for the rmlk_class_data class.
!
!--------------------------------------------------------------------
!:refstep.RMLK_Class_Data ---------------------------- DFHRMLK 1240 -
!
! The link class data consists of a list of all the links in the
! system and a tokenset.
!
!--------------------------------------------------------------------
```

Table 504.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	2712	RMLK_CLASS_DATA	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	
Declared Data				
(8)	STRUCTURE Prot	2704	CLASS_DATA_BLOCK	
(8)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	EYE_CATCHER	eyecatcher
(8)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(A)	UNSIGNED Publ	2	RM_EYE_OFFSET	offset of eye-catcher in object
(C)	CHARACTER Publ	12	RM_EYE_STRING	'>DFHRMxxxxxx'
(18)	OBJECT Prot IsA(HOP_DCHAIN)	40	ALL_LINKS_CHAIN	Chain of all links in the system
(18)	CHARACTER Priv	4	*	
(20)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(20)	CHARACTER Priv	4	*	
(28)	CHARACTER Prot	8	*	
(28)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(2C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(30)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(30)	CHARACTER Priv	4	*	
(38)	CHARACTER Prot	8	*	
(38)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(3C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(40)	OBJECT Prot IsA(RMTOKSET)	1056	LINK_TOKENS	

Table 504. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.RMTK_Public_Token_Type ---------- !:refstep.RMTK_Instance_Data ---------- DFHRMTK 108 - ! ! The token set records the set of known tokens together with the ! address associated with each known token. ! !----------				
(40)	CHARACTER Prot	1056	INSTANCE_ DATA_BLOCK	
(40)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	EYE_CATCHER	eyecatcher
(40)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(42)	UNSIGNED Publ	2	RM_EYE_ OFFSET	offset of eye-catcher in object
(44)	CHARACTER Publ	12	RM_EYE_ STRING	'>DFHRMxxxxxx'
(50)	UNSIGNED Prot	4	NUMBER_ OF_BLOCKS	
				block count
(54)	UNSIGNED Prot IsA(TOKEN_TYPE)	4	FREE_CHAIN_ HEAD	free chain head
(54)	STRUCTURE Prot IsA(INDEX_TYPE)	2	INDEX	
(54)	UNSIGNED Prot	1	BLOCK	
(55)	UNSIGNED Prot	1	SLOT	
(56)	UNSIGNED Prot IsA(INSTANCE_TYPE)	2	INSTANCE	
(58)	ADDRESS Prot	4	BLOCKS (0-255)	pointers to blocks
(458)	CHARACTER Prot	8	*	
(460)	OBJECT Prot IsA(RMTOKSET)	1056	BROWSE_TOKENS	token sets
(460)	CHARACTER Prot	1056	INSTANCE_ DATA_BLOCK	
(460)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	EYE_CATCHER	eyecatcher
(460)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(462)	UNSIGNED Publ	2	RM_EYE_ OFFSET	offset of eye-catcher in object
(464)	CHARACTER Publ	12	RM_EYE_ STRING	'>DFHRMxxxxxx'

Table 504. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(470)	UNSIGNED Prot	4	NUMBER_ OF_BLOCKS	
				block count
(474)	UNSIGNED Prot IsA(TOKEN_TYPE)	4	FREE_CHAIN_ HEAD	free chain head
(474)	STRUCTURE Prot IsA(INDEX_TYPE)	2	INDEX	
(474)	UNSIGNED Prot	1	BLOCK	
(475)	UNSIGNED Prot	1	SLOT	
(476)	UNSIGNED Prot IsA(INSTANCE_TYPE)	2	INSTANCE	
(478)	ADDRESS Prot	4	BLOCKS (0-255)	pointers to blocks
(878)	CHARACTER Prot	8	*	
(880)	OBJECT Prot IsA(RMOF)	48	LINK_FACTORY	object factory
!:refstep.rmof_instance_data ------------------------- DFHRMOF 491 - ! ! The instance data contains an eye-catcher, a subpool name, and a ! subpool token. The subpool name is used as a remark when ! allocating and freeing storage. It consists of the prefix 'RMOF' ! and a suffix which is the name of the object being managed. ! !----------				
(880)	CHARACTER Prot	41	INSTANCE_ DATA_BLOCK	
				RMOF instance data
(880)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	OF_EYE_ CATCHER	eye-catcher
(880)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(882)	UNSIGNED Publ	2	RM_EYE_ OFFSET	offset of eye-catcher in object
(884)	CHARACTER Publ	12	RM_EYE_ STRING	'>DFHRMxxxxx'
(890)	CHARACTER Prot	8	SUBPOOL_NAME	subpool name
(890)	CHARACTER Prot	4	SUBPOOL_ NAME_PREFIX	
				subpool name prefix
(894)	CHARACTER Prot	4	SUBPOOL_ NAME_SUFFIX	

Table 504. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				subpool name suffix
(898)	CHARACTER Prot	8	SUBPOOL_TOKEN	subpool token
(8A0)	UNSIGNED Prot IsA(RM_YESNO)	1	SUBPOOL_ LOCKED	subpool access will be locked
(8A1)	CHARACTER Prot	8	*	
(8B0)	OBJECT Prot IsA(RMLI)	88	LI	loggable object identity
(8B0)	CHARACTER Priv	4	*	
(8B8)	CHARACTER Prot	8	*	
(8B8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(8BC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
!:erefstep.rmid_set_name_method ------------------------------------ !:refstep.rmid_instance_data ------------------------- DFHRMID 123 - ! ! The only piece of instance data is the name of the identity. ! !--				
(8C0)	CHARACTER Prot	4	NAME	
!:erefstep.rmli_inquire_disjoint_chains_method ---------------------- !:refstep.rmli_instance_data ------------------------- DFHRMLI 264 - ! ! The instance data, in addition to that inherited from the rmid ! class, consists of the address of the start delivery, deliver ! data, end delivery, take keypoint, set chain token, and inquire ! disjoint chains methods of an instance of (a subclass of) the ! loggable object class. ! !--				
(8C8)	CHARACTER Prot	64	INSTANCE_ DATA_BLOCK	
				RMLI instance data.
(8C8)	ADDRESS Prot	4	START_DELIVERY	Start delivery method address.
(8CC)	ADDRESS Prot	4	DELIVER_DATA	Deliver data method address.
(8D0)	ADDRESS Prot	4	END_DELIVERY	End delivery method address.
(8D4)	ADDRESS Prot	4	TAKE_KEYPOINT	Take keypoint method address.
(8D8)	ADDRESS Prot	4	SET_CHAIN_ TOKEN	Set chain token method address.

Table 504. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8DC)	ADDRESS Prot	4	INQUIRE_ DISJOINT_CHAINS	
				Inquire disjoint chains method address.
(8E0)	ADDRESS Prot	4	PRE_KEYPOINT	Start Keypoint method address.
(8E4)	ADDRESS Prot	4	POST_KEYPOINT	Start Keypoint method address.
(8E8)	CHARACTER Prot	32	*	
(908)	CHARACTER Prot	8	LINK_STATISTICS	link-related statistics:
(908)	SIGNED Prot	4	TOTAL_RESYNCS	#resyncs
(90C)	SIGNED Prot	4	TOTAL_HEURISTIC_ MISMATCHES	
				#heuristic mismatches
(910)	OBJECT Prot IsA(RMLK)	304	PROFORMA_LINK	Proforma RMLK object
(910)	CHARACTER Priv	4	*	
!:refstep.rmlk_instance_data ------------------------ DFHRMLK 1151 - ! ! Attributes that appear as in CDURUN as enumerated types are held ! similarly in the object. ! !----------				
(918)	CHARACTER Prot	296	INSTANCE_ DATA_BLOCK	
				RMLK Instance Data
(918)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	EYE_CATCHER	eyecatcher
(918)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(91A)	UNSIGNED Publ	2	RM_EYE_ OFFSET	offset of eye-catcher in object
(91C)	CHARACTER Publ	12	RM_EYE_ STRING	'>DFHRMxxxxxx'
(928)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	CLASS_CHAIN	chain of all RMLKs in the system
(928)	CHARACTER Priv	4	*	
(930)	CHARACTER Prot	8	*	

Table 504. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(930)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(934)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(938)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	LINKSET_CHAIN	chain of RMLKs in the same UOW
(938)	CHARACTER Priv	4	*	
(940)	CHARACTER Prot	8	*	
(940)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(944)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(948)	CHARACTER Prot IsA(RM_TOKEN)	4	LINK_TOKEN	Token of this RMLK
(94C)	ADDRESS Prot	4	UOW_POINTER	Address of RMUW
(950)	ADDRESS Prot	4	CLIENT_ POINTER	Address of RMCI
(954)	ADDRESS Prot	4	UNFORGOTTEN_ LINK_PTR	
				Address of RMLK that is awaiting forget
(958)	ADDRESS Prot	4	CURRENT_ LINK_PTR	
				Address of passed RMLK
(95C)	BIT(32) Prot	4	LINK_FLAGS	
(95C)	BIT(8) Prot	1	*	
	1... .... Prot		OWNED_BY_ LINKSET	
				Not thru syncpoint yet
	.1.. .... Prot		CALL_BACK_ IN_PROGRESS	
				Currently calling client back
	..1. .... Prot		UOW_TERMINATE_ RECOVERY_ NECESSARY	
				Must Terminate_Rec on the UOW

Table 504. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1 .... Prot		INBOUND_ RECOVERY_ IN_PROGRESS	
	.... 1... Prot		OUTBOUND_ RECOVERY_ IN_PROGRESS	
	.... .1.. Prot		TO_BE_CLEAR_ PENDED	
				Must be cleared when convenient
	.... ..1. Prot		HAS_BEEN_ ISSUE_PREPARED	
	....1 Prot		UOW_SURVIVED_ COLD_START	
				!@PKC
(95D)	BIT(8) Prot	1	*	
	1... .... Prot		HAS_BEEN_ DELETED	
	.1.. .... Prot		PRELOGGING_ REQUIRED	
---------- --- volatility does not need logging since volatile links do not get logged. ---------- ----------				
	..1. .... Prot		VOLATILE	
	...1 1111 Prot		*	
(95E)	BIT(16) Prot	2	*	
(960)	SIGNED Prot	4	LINK_STATUS	link status
(964)	STRUCTURE Prot IsA(RMLK_LOGGED_STATE_TYPE)	161	LOGGED_STATE	Data that is logged
(964)	CHARACTER Prot	4	CLIENT_NAME	Client name
(968)	ADDRESS Prot	4	RMC_TOKEN	Clients token
(96C)	CHARACTER Prot IsA(RM_TOKEN)	4	PERSISTENT_ TOKEN	
				Distinguishes this link within the linkset
(970)	SIGNED Prot	4	TIMES_LOGGED	Number of records for this RMLK on the log
(974)	CHARACTER Prot	8	FAILURE_TIME	Time when inaccessible
(97C)	UNSIGNED Prot	1	PRESUMPTION	

Table 504. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(97D)	UNSIGNED Prot	1	COORDINATOR	Other side is coordinator
(97E)	UNSIGNED Prot	1	INITIATOR	Other side is intiator
(97F)	UNSIGNED Prot	1	LINK_ID_ SOURCE	Which side originated the link id
(980)	UNSIGNED Prot	1	REMOTE_ UOW_STATUS	
				Other sides status
(981)	UNSIGNED Prot	1	FORGET	Whether forgotten
(982)	CHARACTER Prot	2	*	
(984)	OBJECT Prot IsA(RMLK_LONG_STRING)	8	HOSTNAME	OTS hostname
(984)	CHARACTER Prot	8	INSTANCE_ DATA_BLOCK	
(984)	SIGNED Prot	4	STR_N	
(988)	ADDRESS Prot	4	STR_P	
(98C)	OBJECT Prot IsA(RMLK_LONG_STRING)	8	IORSTRING	OTS stringified IOR
(98C)	CHARACTER Prot	8	INSTANCE_ DATA_BLOCK	
(98C)	SIGNED Prot	4	STR_N	
(990)	ADDRESS Prot	4	STR_P	
(994)	CHAR VARY Prot	64	LOGNAME	Logname
(9D6)	CHAR VARY Prot IsA(LINK_ID_TYPE)	18	LINK_ID	Link id
(9EA)	CHAR VARY Prot	17	ACCESS_ID	Access id
(9FD)	UNSIGNED Prot	1	NO_RESYNC_ OUTCOME	
				No inbound UOW resolution at resync time
(9FE)	CHARACTER Prot	7	*	
(A05)	UNSIGNED Prot	1	LAST	Preference for Last Agent
(A06)	UNSIGNED Prot	1	PRELOGGING	Request for prelogging
(A07)	UNSIGNED Prot	1	SINGLE_ UPDATER	Supports Single Updater

Table 504. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A08)	UNSIGNED Prot	1	RECOVERY_ STATUS	Recovery necessary
(A09)	UNSIGNED Prot	1	VOTE	
(A0A)	UNSIGNED Prot	1	PASS	RMLK is to be/was passed
(A0B)	UNSIGNED Prot	1	ACCESSIBLE	
(A0C)	UNSIGNED Prot	1	ABEND	Client Abended
(A0D)	UNSIGNED Prot	1	MARK	RMLK marked
(A0E)	UNSIGNED Prot	1	UNSHUNTED	
(A0F)	UNSIGNED Prot	1	RESYNC_ SCHEDULED	
(A10)	UNSIGNED Prot	1	LOCAL_UOW_ STATUS	
(A11)	UNSIGNED Prot	1	NEXT_RECOVERY_ STATUS	
				Recovery Status for passed RMLK
(A12)	UNSIGNED Prot	1	NEXT_SINGLE_ UPDATER	
				Preference for Last Agent for passed RMLK
(A13)	CHARACTER Prot	1	*	
(A14)	SIGNED Prot	4	TIMES_RESTORED	Count of records found on the log
(A18)	CHARACTER Prot	40	*	

Constants

Table 505.

Len	Type	value	Name	Description
4	CHARACTER	RMLK	CLASS_NAME	
4	DECIMAL	0	LINK_RESET	
4	DECIMAL	1	LINK_S_PREPARE	
4	DECIMAL	2	LINK_R_PREPARE	
4	DECIMAL	3	LINK_SELECTED_LAST	
4	DECIMAL	4	LINK_COMMIT	
4	DECIMAL	5	LINK_IN_DOUBT	
4	DECIMAL	6	LINK_S_REQUEST_ COMMIT	

Table 505. (continued)

Len	Type	value	Name	Description
4	DECIMAL	7	LINK_R_REQUEST_ COMMIT	
4	DECIMAL	8	LINK_COMMITTED	
4	DECIMAL	9	LINK_S_COMMITTED	
4	DECIMAL	10	LINK_R_COMMITTED	
4	DECIMAL	11	LINK_R_FORGET	
1	DECIMAL	6	RMLK_MANDATES_LAST	
4	DECIMAL	1	RMLK_ABENDED	
4	DECIMAL	2	RMLK_ROLLBACK_ NOT_SUP	

RMLI Recovery Manager Loggable Object Identity

```
!:refstep.rmli_class_declaration ---------------------- DFHRMLI 69 -
!
!
! The rmli class is the Recovery Manager Loggable Object Identity
! class.
!
! It may only be used by Recovery Manager.
!
!-----------------------------------------------------------------
```

Table 506.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	88	RMLI	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	
(8)	STRUCTURE Prot	8	*	
(8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
!:erefstep.rmid_set_name_method ---------- !:refstep.rmid_instance_data ---------- DFHRMID 123 - ! ! The only piece of instance data is the name of the identity. ! !---------- (10)	CHARACTER Prot	4	NAME	

Table 506. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.rmli_inquire_disjoint_chains_method ---------- !:refstep.rmli_instance_data ---------- DFHRMLI 264 - ! ! The instance data, in addition to that inherited from the rmid ! class, consists of the address of the start delivery, deliver ! data, end delivery, take keypoint, set chain token, and inquire ! disjoint chains methods of an instance of (a subclass of) the ! loggable object class. ! !----------				
Declared Data				
(18)	STRUCTURE Prot	64	INSTANCE_ DATA_BLOCK	
				RMLI instance data.
(18)	ADDRESS Prot	4	START_DELIVERY	Start delivery method address.
(1C)	ADDRESS Prot	4	DELIVER_DATA	Deliver data method address.
(20)	ADDRESS Prot	4	END_DELIVERY	End delivery method address.
(24)	ADDRESS Prot	4	TAKE_KEYPOINT	Take keypoint method address.
(28)	ADDRESS Prot	4	SET_CHAIN_TOKEN	Set chain token method address.
(2C)	ADDRESS Prot	4	INQUIRE_ DISJOINT_CHAINS	
				Inquire disjoint chains method address.
(30)	ADDRESS Prot	4	PRE_KEYPOINT	Start Keypoint method address.
(34)	ADDRESS Prot	4	POST_KEYPOINT	Start Keypoint method address.
(38)	CHARACTER Prot	32	*	reserved for APAR fixes

RMLK Recovery Manager Link Instance

```
!:refstep.rmlk_class ---------------------------------- DFHRMLK 1029 -
!
!
! rmlk is the Recovery Manager Link class.
!
! It may only be used by Recovery Manager. It is used to implement
! the RMLN gate.
!
!----------------------------------------------------------------------
```

Table 507.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	304	RMLK	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	
!:refstep.rmlk_instance_data ------------------------ DFHRMLK 1151 - ! ! Attributes that appear as in CDURUN as enumerated types are held ! similarly in the object. ! !----------				
Declared Data				
(8)	STRUCTURE Prot	296	INSTANCE_ DATA_BLOCK	
				RMLK Instance Data
(8)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	EYE_CATCHER	eyecatcher
(8)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(A)	UNSIGNED Publ	2	RM_EYE_OFFSET	offset of eye-catcher in object
(C)	CHARACTER Publ	12	RM_EYE_STRING	'>DFHRMxxxxxx'
(18)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	CLASS_CHAIN	chain of all RMLKs in the system
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	LINKSET_CHAIN	chain of RMLKs in the same UOW
(28)	CHARACTER Priv	4	*	
(30)	CHARACTER Prot	8	*	
(30)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(34)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	CHARACTER Prot IsA(RM_TOKEN)	4	LINK_TOKEN	Token of this RMLK
(3C)	ADDRESS Prot	4	UOW_POINTER	Address of RMUW
(40)	ADDRESS Prot	4	CLIENT_POINTER	Address of RMCI
(44)	ADDRESS Prot	4	UNFORGOTTEN_ LINK_PTR	
				Address of RMLK that is awaiting forget
(48)	ADDRESS Prot	4	CURRENT_ LINK_PTR	Address of passed RMLK
(4C)	BIT(32) Prot	4	LINK_FLAGS	
(4C)	BIT(8) Prot	1	*	
	1... .... Prot		OWNED_BY_ LINKSET	
				Not thru syncpoint yet
	.1.. .... Prot		CALL_BACK_ IN_PROGRESS	
				Currently calling client back
	..1. .... Prot		UOW_TERMINATE_ RECOVERY_ NECESSARY	
				Must Terminate_Rec on the UOW
	...1 .... Prot		INBOUND_ RECOVERY_ IN_PROGRESS	
	.... 1... Prot		OUTBOUND_ RECOVERY_ IN_PROGRESS	
	.... .1.. Prot		TO_BE_CLEAR_ PENDED	
				Must be cleared when convenient
	.... ..1. Prot		HAS_BEEN_ ISSUE_PREPARED	
	....1 Prot		UOW_SURVIVED_ COLD_START	
				!@PKC
(4D)	BIT(8) Prot	1	*	

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1... .... Prot		HAS_BEEN_ DELETED	
	.1.. .... Prot		PRELOGGING_ REQUIRED	
	---------- --- volatility does not need logging since volatile links do not get logged. ---------- ----------			
	..1. .... Prot		VOLATILE	
	...1 1111 Prot		*	
(4E)	BIT(16) Prot	2	*	
(50)	SIGNED Prot	4	LINK_STATUS	link status
(54)	STRUCTURE Prot IsA(RMLK_LOGGED_STATE_TYPE)	161	LOGGED_STATE	Data that is logged
(54)	CHARACTER Prot	4	CLIENT_NAME	Client name
(58)	ADDRESS Prot	4	RMC_TOKEN	Clients token
(5C)	CHARACTER Prot IsA(RM_TOKEN)	4	PERSISTENT_ TOKEN	Distinguishes this link within the linkset
(60)	SIGNED Prot	4	TIMES_LOGGED	Number of records for this RMLK on the log
(64)	CHARACTER Prot	8	FAILURE_TIME	Time when inaccessible
(6C)	UNSIGNED Prot	1	PRESUMPTION	
(6D)	UNSIGNED Prot	1	COORDINATOR	Other side is coordinator
(6E)	UNSIGNED Prot	1	INITIATOR	Other side is intiator
(6F)	UNSIGNED Prot	1	LINK_ID_SOURCE	Which side originated the link id
(70)	UNSIGNED Prot	1	REMOTE_ UOW_STATUS	
				Other sides status
(71)	UNSIGNED Prot	1	FORGET	Whether forgotten
(72)	CHARACTER Prot	2	*	
(74)	OBJECT Prot IsA(RMLK_LONG_STRING)	8	HOSTNAME	OTS hostname
(74)	CHARACTER Prot	8	INSTANCE_ DATA_BLOCK	

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(74)	SIGNED Prot	4	STR_N	
(78)	ADDRESS Prot	4	STR_P	
(7C)	OBJECT Prot IsA(RMLK_LONG_STRING)	8	IORSTRING	OTS stringified IOR
(7C)	CHARACTER Prot	8	INSTANCE_ DATA_BLOCK	
(7C)	SIGNED Prot	4	STR_N	
(80)	ADDRESS Prot	4	STR_P	
(84)	CHAR VARY Prot	64	LOGNAME	Logname
(C6)	CHAR VARY Prot IsA(LINK_ID_TYPE)	18	LINK_ID	Link id
(DA)	CHAR VARY Prot	17	ACCESS_ID	Access id
(ED)	UNSIGNED Prot	1	NO_RESYNC_ OUTCOME	
				No inbound UOW resolution at resync time
(EE)	CHARACTER Prot	7	*	
(F5)	UNSIGNED Prot	1	LAST	Preference for Last Agent
(F6)	UNSIGNED Prot	1	PRELOGGING	Request for prelogging
(F7)	UNSIGNED Prot	1	SINGLE_UPDATER	Supports Single Updater
(F8)	UNSIGNED Prot	1	RECOVERY_STATUS	Recovery necessary
(F9)	UNSIGNED Prot	1	VOTE	
(FA)	UNSIGNED Prot	1	PASS	RMLK is to be/was passed
(FB)	UNSIGNED Prot	1	ACCESSIBLE	
(FC)	UNSIGNED Prot	1	ABEND	Client Abended
(FD)	UNSIGNED Prot	1	MARK	RMLK marked
(FE)	UNSIGNED Prot	1	UNSHUNTED	
(FF)	UNSIGNED Prot	1	RESYNC_ SCHEDULED	
(100)	UNSIGNED Prot	1	LOCAL_UOW_ STATUS	
(101)	UNSIGNED Prot	1	NEXT_RECOVERY_ STATUS	
				Recovery Status for passed RMLK

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(102)	UNSIGNED Prot	1	NEXT_SINGLE_ UPDATER	
				Preference for Last Agent for passed RMLK
(103)	CHARACTER Prot	1	*	Reserved
(104)	SIGNED Prot	4	TIMES_RESTORED	Count of records found on the log
(108)	CHARACTER Prot	40	*	Reserved
(0)	OBJECT Prot IsA(RMUW)	1560	UOW	
(0)	CHARACTER Priv	4	*	
!:refstep.rmuw_instance_data ------------------------ DFHRMUW 5324 - ! ! The instance data of a RMUW object includes an instance of a ! Poller since the inheritance from Poller is simulated. ! !----------				
(8)	CHARACTER Prot	1548	INSTANCE_ DATA_BLOCK	
				RMUW instance data
(8)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	UOW_EYE_ CATCHER	Eye-catcher
(8)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(A)	UNSIGNED Publ	2	RM_EYE_OFFSET	offset of eye-catcher in object
(C)	CHARACTER Publ	12	RM_EYE_STRING	'>DFHRMxxxxxx'
(18)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	UOW_CHAIN_LINK	Link in global UOW chain
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	CHARACTER Prot IsA(UOW_TOKEN_TYPE)	4	UOW_TOKEN	UOW token
(2C)	UNSIGNED Prot	1	STATUS	UOW status

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2D)	UNSIGNED Prot IsA(RM_YESNO)	1	LINKS_PRESENT	Whether links are left in the UOW
(2E)	UNSIGNED Prot	1	KEYPOINT_COUNT	#of keypoints seen
(2F)	UNSIGNED Prot	1	HEURISTIC_ CAUSE	Cause of heurism
(30)	CHARACTER Prot	3	*	
(33)	STRUCTURE Prot IsA(RMUW_CONTEXT)	31	UOW_CONTEXT	context info !@POC
(33)	STRUCTURE Prot IsA(RMXN_CONTEXT)	20	TRAN_CONTEXT	
(33)	CHARACTER Publ	4	TERMID	Terminal id. of originating transaction
(37)	CHARACTER Publ	8	TERMINAL_ LUNAME	
				Terminal LU name of originating transaction
(3F)	CHARACTER Publ	4	TRANNUM	Transaction number of originating transaction
(43)	CHARACTER Publ	4	TRANID	Transaction id. of originating transaction
(47)	CHARACTER Prot	8	*	
(47)	CHARACTER Prot	8	USERID	Userid of originating transaction
(47)	CHARACTER Prot	8	TRAN_TOKEN	Token for originating transaction
(4F)	CHARACTER Prot	3	OP_ID	Operator id. of originating transaction
(52)	UNSIGNED Prot	1	HEURISM	Whether to take a heuristic decision on an indoubt failure
(53)	UNSIGNED Prot	1	CHOICE	The default direction for a heuristic decision

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	UNSIGNED Prot	4	INDOUBT_ TIMEOUT_INTERVAL	
				Limit of amount of time and indoubt wait will be allowed befor being forced to take a heuristic decision. Zero denotes no time limit.
(58)	BIT(32) Prot	4	FLAGS	Flags.
(58)	BIT(8) Prot	1	*	
	1... .... Prot		FIRST_UOW_ FOR_TRANSACTION	
				First UOW for a transaction.
	.1.. .... Prot		RECONSTRUCTED	UOW was reconstructed during system restart.
	..1. .... Prot		SHUNTED	UOW is shunted.
	...1 .... Prot		HEURISTIC_ DECISION_TAKEN	
				A heuristic decision has been taken.
	.... 1... Prot		FORCE_PURGE_ PROTECTION	
				Protected from force purge.
	.... .1.. Prot		UNSHUNT_ ACTIVE	Unshunt in progress.
	.... ..1. Prot		RESYNCH_ IN_PROGRESS	
				Resynch. in progress.
	....1 Prot		EXISTENCE_ TO_BE_LOGGED	
				UOW existence needs logging.
(59)	BIT(8) Prot	1	*	
	1... .... Prot		EXISTENCE_ LOCKED	
				UOW may not be destroyed yet.

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1.. .... Prot		RESUME_ REQUIRED	
				A transaction is suspended on this UOW.
	..1. .... Prot		UNSHUNT_ DEFERRED	
				Unshunt deferred until later.
	...1 .... Prot		SERIAL_ RECOVERY	
				UOW is being reconstructed during system restart but its indoubt or inflight log records have not yet been reached.
	.... 1... Prot		MOVE_IN_ PROGRESS	
				UOW is being moved on the log.
	.... .1.. Prot		LOCALLY_ COMMITTED	
				local commits done.
	.... ..1. Prot		KEYPOINTED_ FOR_MOVE	
				keypointed in order to move
	....1 Prot		LINKS_FORGOTTEN	
				no links left
(5A)	BIT(8) Prot	1	*	
	1... .... Prot		FIRST_COMMIT_ DONE	
				first attempt at commit completed
	.1.. .... Prot		TIMEOUT_ ACTIVE	Indoubt wait timeout is active for this UOW.
	..1. .... Prot		SURVIVED_ COLD_START	

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				UOW has survived a cold start.
	...1 .... Prot		LOCAL_COMMIT_LOGGED	
				logged the fact that UOW has locally committed.
	.... 1... Prot		CLIENT_STATE_RECOVERED	
				client state has been recovered
	.... .1.. Prot		OTS_TRAN	is an OTS tran
	.... ..1. Prot		SUMMARIZING	
	....1 Prot		*	
(5B)	BIT(8) Prot	1	*	
	1... .... Prot		USERID_FROZEN	userid cannot change
	.111 1111 Prot		*	
(5C)	CHARACTER Prot	4	SYSTEM_LOG_CHAIN_TOKEN	
				System log chain token for this UOW.
(60)	CHARACTER Prot	8	STATE_CHANGE_TIME	
				Time of last change of state
(68)	OBJECT Prot IsA(HOP_DCHAIN)	40	UNSHUNT_Q	Queue of unshunt requests.
(68)	CHARACTER Priv	4	*	
(70)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(70)	CHARACTER Priv	4	*	
(78)	CHARACTER Prot	8	*	
(78)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(7C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(80)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(80)	CHARACTER Priv	4	*	
(88)	CHARACTER Prot	8	*	
(88)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(8C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(90)	UNSIGNED Prot	4	SUSPEND_TOKEN	DS suspend token.
(94)	CHARACTER Prot	4	SUMMARY_ CHAIN_TOKEN	
(98)	OBJECT Prot IsA(RMPO)	32	POLLER	Poller instance.
(98)	CHARACTER Priv	4	*	
!:erefstep.rmpo_terminate_recovery_method ---------- !:refstep.rmpo_instance_data ---------- DFHRMPO 573 - ! ! vote is the result of the poll so far. ! ! coordinator is the address of the coordinator voter or zero if ! there is no coordinator voter. ! ! indoubt determines whether or not we are in the indoubt state. If ! we are indoubt, then there must be a coordinator voter otherwise ! there would be no way of resolving the indoubt. ! ! resynchronisation_in_progress records the resynchronisation state. ! This prevents multiple concurrent attempt to resynchronise and ! also protects us from a forced decision during resynchronisation. ! ! read_only is 'yes' if and only if all the voters polled so far ! have indicated that they are read-only. ! ! continue is 'yes' if there will be a next UOW. Sometimes there ! will be a next UOW even when continue is 'no'. This is due to ! some voter preventing the next UOW from continuing even though the ! application requested it. In such cases, the next UOW is always ! aborted without the application having a chance to do further ! work. ! !----------				
(A0)	CHARACTER Prot	17	INSTANCE_ DATA_BLOCK	
				RMPO instance data
(A0)	ADDRESS Prot	4	COORDINATOR	coodinator voter for this poller
(A4)	UNSIGNED Prot IsA(RMPO_VOTE)	1	VOTE	result of polling so far
(A5)	UNSIGNED Prot IsA(RM_YESNO)	1	INDOUBT	whether or not poller is indoubt

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A6)	UNSIGNED Prot IsA(RM_YESNO)	1	RESYNCHRONISATION_IN_PROGRESS	
				whether or not resynch. is in progress
(A7)	UNSIGNED Prot IsA(RM_YESNO)	1	READ_ONLY	read-only result of polling so far
(A8)	UNSIGNED Prot IsA(RM_YESNO)	1	CONTINUE	continuation result of polling so far
(A9)	CHARACTER Prot	8	*	
(B8)	OBJECT Prot IsA(RMLS)	112	LINKS	Set of links from this UOW to remote Recovery Managers.
(B8)	CHARACTER Priv	4	*	
!:refstep.RMLS_Instance_Data ------------------------- DFHRMLS 275 - ! ! A Link Set object contains a chain of all the Links involved in ! this Unit of Work. ! ! There are embedded Voter and Poller objects and a pointer to the ! Link picked as last-agent. A Link Set knows whether it is awaiting ! forget. ! !----------				
(C0)	CHARACTER Prot	98	INSTANCE_DATA_BLOCK	
(C0)	OBJECT Prot IsA(HOP_DCHAIN)	40	RMLS_LINKS	Chain of link objects
(C0)	CHARACTER Priv	4	*	
(C8)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(C8)	CHARACTER Priv	4	*	
(D0)	CHARACTER Prot	8	*	
(D0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(D4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(D8)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(D8)	CHARACTER Priv	4	*	
(E0)	CHARACTER Prot	8	*	

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(E4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(E8)	ADDRESS Prot	4	RMLS_LAST_ LINK	Pointer to last agent or single updater link
(EC)	OBJECT Prot IsA(RMVO)	4	RMLS_VOTER	Voter Object
(EC)	CHARACTER Priv	4	*	
(F0)	OBJECT Prot IsA(RMPO)	32	RMLS_POLLER	Poller Object
(F0)	CHARACTER Priv	4	*	
(F8)	CHARACTER Prot	17	INSTANCE_ DATA_BLOCK	
				RMPO instance data
(F8)	ADDRESS Prot	4	COORDINATOR	coodinator voter for this poller
(FC)	UNSIGNED Prot IsA(RMPO_VOTE)	1	VOTE	result of polling so far
(FD)	UNSIGNED Prot IsA(RM_YESNO)	1	INDOUBT	whether or not poller is indoubt
(FE)	UNSIGNED Prot IsA(RM_YESNO)	1	RESYNCHRONISATION_ IN_PROGRESS	
				whether or not resynch. is in progress
(FF)	UNSIGNED Prot IsA(RM_YESNO)	1	READ_ONLY	read-only result of polling so far
(100)	UNSIGNED Prot IsA(RM_YESNO)	1	CONTINUE	continuation result of polling so far
(101)	CHARACTER Prot	8	*	
(110)	UNSIGNED Prot IsA(RM_YESNO)	1	RMLS_AWAITING_ FORGET	
				Linkset is merely awaiting forget
(111)	BIT(8) Prot	1	RMLS_FLAGS	
	1... .... Prot		CHAIN_INITIALISED	
				Chain is initialised
	.1.. .... Prot		*	

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1. .... Prot		LINK_COMMIT_ ABENDED	
				A link abended during perform_commit
	...1 .... Prot		LINK_ROLLBACK_ NOT_SUPPORTED	
				A rollback was tried on a link that does not support it.
(112)	CHARACTER Prot	8	RMLS_FAILURE_ TIME	
				Failure time
(11A)	CHARACTER Prot	8	*	
(128)	CHARACTER Prot	141	INLINE_ ACCESS_STRUCTURE	
				Structure of values which may be accessed by inline macro expansions.
(128)	CHARACTER Prot	8	RMUX_LOCAL_ UOW_ID	
(130)	CHARACTER Prot	27	RMUX_REMOTE_ UOW_ID	
(130)	UNSIGNED Prot	1	RMUX_REMOTE_ ID_LENGTH	
(131)	UNSIGNED Prot	1	RMUX_REMOTE_ ID_LU_NAME_LENGTH	
(132)	CHARACTER Prot	25	*	
(14B)	BIT(8) Prot	1	RMUX_FLAGS	
	1... .... Prot		OPTIMAL_ CLIENTS_ONLY	
(14C)	ADDRESS Prot	4	RMUX_WORK_ TOKEN_ARRAY (21)	
(1A0)	CHARACTER Prot	21	RMUX_CLIENT_ STATES	
(1A0)	BIT(8) Prot	1	CLIENT_STATE (21)	
	1... .... Prot		COMMIT_ COMPLETE	
	.111 1111 Prot		*	
(1B5)	CHARACTER Prot	5	*	

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C0)	OBJECT Prot IsA(RMRO)	48	RO_ARRAY (21)	Resource Owner instances.
(1C0)	CHARACTER Priv	4	*	
(1C8)	OBJECT Prot IsA(RMVO)	4	VOTER	
(1C8)	CHARACTER Priv	4	*	

```
!:erefstep.rmro_update_client_procedure -----------------------------
!:refstep.rmro_prepare_procedure ---------------------- DFHRMRO 4002 -
!
! The RMRO instance is prepared by preparing the corresponding
! Resource Owner.
!
!---------------------------------------------------------------------
!:erefstep.rmro_prepare_procedure ------------------------------------
!:refstep.rmro_commit_procedure ---------------------- DFHRMRO 4121 -
!
! The RMRO instance is committed by committing the corresponding
! Resource Owner.
!
!---------------------------------------------------------------------
!:erefstep.rmro_commit_procedure -------------------------------------
!:refstep.rmro_instance_data ------------------------ DFHRMRO 3852 -
!
! The instance data for a Resource Owner object includes its
! identity.
!
! A type is declared for force tokens and a null force token is
! declared.
!
! A log header type is declared the length field of which includes
! the length of the resource id. which is appended to the header
! structure. Whether or not there is a resource id. is indicated by
! the resource id. existence bit. The source field in the
! discriminant is always 'private' for a resource owner log record
! as this class is the source of the log record as far as the RM
! classes are concerned since RM doesn't own or understand the
! format of data which is passed on the APPEND function.
!
! The backout structure is used during backout and backout retry to
! track the progress of backout. If the pointer to this structure
! is null, then either backout has not yet started or else backout
! has completed successfully. The backout structure itself is
! declared internally to the class as the users of the class should
! be insensitive to it.
!
! The commit structure is used for forget processing. If the pointer
! to this structure is null, then there has been no request forget.
! The commit structure itself is declared internally to the class as
! the users of the class should be insensitive to it.
!
!---------------------------------------------------------------------
```

(1D0)	CHARACTER Prot	28	INSTANCE_ DATA_BLOCK	
				RMRO instance.
(1D0)	CHARACTER Prot	4	NAME	Resource Owner client name.

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1D4)	ADDRESS Prot	4	BACKOUT_ STRUCT	Pointer to backout failure structure.
(1D8)	ADDRESS Prot	4	COMMIT_ STRUCT	Pointer to commit failure structure.
(1DC)	ADDRESS Prot	4	CLIENT_ IDENTITY_ADDRESS	
				Resource Owner client identity address.
(1E0)	BIT(8) Prot	1	SYSTEM_ RESTART_STATES	
				State during system restart.
	11.. .... Prot		COMMIT_ STATE	Commit state.
	..11 1... Prot		BACKOUT_ STATE	Backout state.
	.... .11. Prot		REQ_FORGET_ STATE	
				Request forget state.
(1E1)	BIT(8) Prot	1	RO_CLIENT_ FLAGS	
	1... .... Prot		RECORDS_ IGNORED	
				Records ignored
	.111 1111 Prot		*	
(1E2)	CHARACTER Prot	10	*	
(5B0)	CHARACTER Prot	8	TIMER_TOKEN	TI domain indoubt wait timeout token
(5B8)	CHARACTER Prot	84	OTS_DATA	
(5B8)	CHARACTER Prot	4	LS_NAME	logical server name
(5BC)	CHARACTER Prot IsA(UOW_PUBLIC_ID_TYPE)	64	PUBLIC_ID	public_id ReqStream
(5FC)	UNSIGNED Prot	4	FORMAT_ID	
(600)	UNSIGNED Prot	4	BQUAL_LEN	
(604)	ADDRESS Prot	4	TID_STR_P	
(608)	SIGNED Prot	4	TID_STR_L	
(60C)	CHARACTER Prot	8	*	

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	OBJECT Prot IsA(RMCI)	136	CLIENT	
(0)	CHARACTER Priv	4	*	
(8)	CHARACTER Prot	8	*	
(8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
!:erefstep.rmid_set_name_method ---------- !:refstep.rmid_instance_data ---------- DFHRMID 123 - ! ! The only piece of instance data is the name of the identity. ! !----------				
(10)	CHARACTER Prot	4	NAME	
!:erefstep.RMCI_Types ---------- !:refstep.RMCI_Instance_Data ---------- DFHRMCI 135 - ! ! As &ci..class is a subclass of &id..class each &ci..is an &id.. ! ! Each &ci..also records the client type, the domain and gate for ! calls back to the named client. They also have a chain ! representing tasks waiting to call back a client that has not yet ! set its gate. The objects on the waiters chain are contained in ! the automatic storage of the waiting task. ! ! The Send method allows one call to be made to the client before ! the gate is set without suspending the calling task. In this case ! the parameter list being sent to the client is copied and hung off ! the &ci..by rmci_sent_plist_ptr. ! !----------				
(18)	CHARACTER Prot	112	INSTANCE_ DATA_BLOCK	
(18)	OBJECT Prot IsA(RMPN)	24	RMCI_PCHAINNODE	Persistent Chain Node
!:refstep.RMPE_Instance_Data ---------- DFHRMPE 151 - ! ! An instance of this class consists of a persistent name and a ! boolean to indicate whether or not the object has been recovered ! or not. ! !----------				
(18)	CHARACTER Prot	16	INSTANCE_ DATA_BLOCK	
(18)	CHARACTER Prot IsA(RMPE_NAME_TYPE)	8	PERSISTENT_ NAME	
				persistent name
(20)	BIT(8) Prot	1	FLAGS	

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1... .... Prot		RECOVERED	Is the object recovered?
	.111 1111 Prot		*	
(21)	CHARACTER Prot	7	*	
!:refstep.RMPN_Instance_Data ------------------------ DFHRMPE 329 - ! ! Each Persistent Node points to the Persistent Collection it ! belongs to. The Persistent Collection is the Persistent Store for ! the Persistent Node. ! !----------				
(28)	ADDRESS Prot	4	STORE_POINTER	
(30)	UNSIGNED Prot IsA(RM_YESNO)	1	RMCI_REGISTERED	Has the client registered?
(31)	UNSIGNED Prot IsA(RMCLIENT_TYPE)	1	RMCI_TYPE	Client type
(32)	CHARACTER Prot	2	*	
(34)	UNSIGNED Prot	4	RMCI_DOMAIN	Client Domain
(38)	UNSIGNED Prot	4	RMCI_GATE	Client Callback Gate
(3C)	CHARACTER Prot	4	*	
(40)	OBJECT Prot IsA(HOP_DCHAIN)	40	RMCI_WAITERS	Chain of tasks waiting to call the client after the gate has been set
(40)	CHARACTER Priv	4	*	
(48)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(48)	CHARACTER Priv	4	*	
(50)	CHARACTER Prot	8	*	
(50)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(54)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(58)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(58)	CHARACTER Priv	4	*	
(60)	CHARACTER Prot	8	*	

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(60)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(64)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(68)	ADDRESS Prot	4	RMCI_SENT_ PLIST_PTR	
				Pointer to the parameter list to being sent
(6C)	ADDRESS Prot	4	RMCI_RMNS_PTR	Pointer to the set of log- names known to this client
(70)	ADDRESS Prot	4	RMCI_PERSISTENT_ DATA_PTR	
				Pointer to the clients persistent data
(74)	CHARACTER Prot	20	*	
(0)	STRUCTURE Prot IsA(RMCI_PERSISTENT_DATA_TYPE)	66	RMCI_PERSISTENT_ DATA	
(0)	CHAR VARY Prot IsA(RMCI_CLIENT_DATA_TYPE)	64	RMCI_CLIENT_ DATA	
SHARED DATA				
Declared Data				
(0)	CHAR VARY Prot	18	LINK_ID_TYPE	
(0)	STRUCTURE Prot	161	RMLK_LOGGED_ STATE_TYPE	
				RMLK as it appears on the log
(0)	CHARACTER Prot	4	CLIENT_NAME	Client name
(4)	ADDRESS Prot	4	RMC_TOKEN	Clients token
(8)	CHARACTER Prot IsA(RM_TOKEN)	4	PERSISTENT_ TOKEN	Distinguishes this link within the linkset
(C)	SIGNED Prot	4	TIMES_LOGGED	Number of records for this RMLK on the log
(10)	CHARACTER Prot	8	FAILURE_TIME	Time when inaccessible
(18)	UNSIGNED Prot	1	PRESUMPTION	

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(19)	UNSIGNED Prot	1	COORDINATOR	Other side is coordinator
(1A)	UNSIGNED Prot	1	INITIATOR	Other side is intiator
(1B)	UNSIGNED Prot	1	LINK_ID_SOURCE	Which side originated the link id
(1C)	UNSIGNED Prot	1	REMOTE_ UOW_STATUS	Other sides status
(1D)	UNSIGNED Prot	1	FORGET	Whether forgotten
(1E)	CHARACTER Prot	2	*	
(20)	OBJECT Prot IsA(RMLK_LONG_STRING)	8	HOSTNAME	OTS hostname
(20)	CHARACTER Prot	8	INSTANCE_ DATA_BLOCK	
(20)	SIGNED Prot	4	STR_N	
(24)	ADDRESS Prot	4	STR_P	
(28)	OBJECT Prot IsA(RMLK_LONG_STRING)	8	IORSTRING	OTS stringified IOR
(28)	CHARACTER Prot	8	INSTANCE_ DATA_BLOCK	
(28)	SIGNED Prot	4	STR_N	
(2C)	ADDRESS Prot	4	STR_P	
(30)	CHAR VARY Prot	64	LOGNAME	Logname
(72)	CHAR VARY Prot IsA(LINK_ID_TYPE)	18	LINK_ID	Link id
(86)	CHAR VARY Prot	17	ACCESS_ID	Access id
(99)	UNSIGNED Prot	1	NO_RESYNC_ OUTCOME	No inbound UOW resolution at resync time
(9A)	CHARACTER Prot	7	*	
(0)	CHARACTER Publ	161	RMLK_LOGGED_TYPE	

Constants

Table 508.

Len	Type	value	Name	Description
4	CHARACTER	RMLK	CLASS_NAME	
4	DECIMAL	0	LINK_RESET	

Table 508. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1	LINK_S_PREPARE	
4	DECIMAL	2	LINK_R_PREPARE	
4	DECIMAL	3	LINK_SELECTED_LAST	
4	DECIMAL	4	LINK_COMMIT	
4	DECIMAL	5	LINK_IN_DOUBT	
4	DECIMAL	6	LINK_S_REQUEST_ COMMIT	
4	DECIMAL	7	LINK_R_REQUEST_ COMMIT	
4	DECIMAL	8	LINK_COMMITTED	
4	DECIMAL	9	LINK_S_COMMITTED	
4	DECIMAL	10	LINK_R_COMMITTED	
4	DECIMAL	11	LINK_R_FORGET	
1	DECIMAL	6	RMLK_MANDATES_LAST	
4	DECIMAL	1	RMLK_ABENDED	
4	DECIMAL	2	RMLK_ROLLBACK_ NOT_SUP	

RMLS Recovery Manager Link Set Instance

```
!:refstep.DFHRMLSC ----------------------------------- DFHRMLS 207 -
!
!
! This is the class declaration for the Recovery Manager LinkSet
! class
!
!--------------------------------------------------------------------
```

Table 509.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	112	RMLS	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	
!:refstep.RMLS_Instance_Data ------------------------- DFHRMLS 275 - ! ! A Link Set object contains a chain of all the Links involved in ! this Unit of Work. ! ! There are embedded Voter and Poller objects and a pointer to the ! Link picked as last-agent. A Link Set knows whether it is awaiting ! forget. ! !--				
Declared Data				

Table 509. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	STRUCTURE Prot	98	INSTANCE_ DATA_BLOCK	
(8)	OBJECT Prot IsA(HOP_DCHAIN)	40	RMLS_LINKS	Chain of link objects
(8)	CHARACTER Priv	4	*	
(10)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(10)	CHARACTER Priv	4	*	
(18)	CHARACTER Prot	8	*	
(18)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(1C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(20)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(20)	CHARACTER Priv	4	*	
(28)	CHARACTER Prot	8	*	
(28)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(2C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(30)	ADDRESS Prot	4	RMLS_LAST_LINK	Pointer to last agent or single updater link
(34)	OBJECT Prot IsA(RMVO)	4	RMLS_VOTER	Voter Object
(34)	CHARACTER Priv	4	*	
(38)	OBJECT Prot IsA(RMPO)	32	RMLS_POLLER	Poller Object
(38)	CHARACTER Priv	4	*	

Table 509. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.rmpo_terminate_recovery_method ---------- !:refstep.rmpo_instance_data ---------- DFHRMPO 573 - ! ! vote is the result of the poll so far. ! ! coordinator is the address of the coordinator voter or zero if ! there is no coordinator voter. ! ! indoubt determines whether or not we are in the indoubt state. If ! we are indoubt, then there must be a coordinator voter otherwise ! there would be no way of resolving the indoubt. ! ! resynchronisation_in_progress records the resynchronisation state. ! This prevents multiple concurrent attempt to resynchronise and ! also protects us from a forced decision during resynchronisation. ! ! read_only is 'yes' if and only if all the voters polled so far ! have indicated that they are read-only. ! ! continue is 'yes' if there will be a next UOW. Sometimes there ! will be a next UOW even when continue is 'no'. This is due to ! some voter preventing the next UOW from continuing even though the ! application requested it. In such cases, the next UOW is always ! aborted without the application having a chance to do further ! work. ! !----------				
(40)	CHARACTER Prot	17	INSTANCE_ DATA_BLOCK	
				RMPO instance data
(40)	ADDRESS Prot	4	COORDINATOR	coodinator voter for this poller
(44)	UNSIGNED Prot IsA(RMPO_VOTE)	1	VOTE	result of polling so far
(45)	UNSIGNED Prot IsA(RM_YESNO)	1	INDOUBT	whether or not poller is indoubt
(46)	UNSIGNED Prot IsA(RM_YESNO)	1	RESYNCHRONISATION_ IN_PROGRESS	
				whether or not resynch. is in progress
(47)	UNSIGNED Prot IsA(RM_YESNO)	1	READ_ONLY	read-only result of polling so far
(48)	UNSIGNED Prot IsA(RM_YESNO)	1	CONTINUE	continuation result of polling so far
(49)	CHARACTER Prot	8	*	
(58)	FIXED Prot IsA(RM_YESNO)	1	RMLS_AWAITING_ FORGET	
				Linkset is merely awaiting forget
(59)	BIT(8) Prot	1	RMLS_FLAGS	

Table 509. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1... .... Prot		CHAIN_INITIALISED	
				Chain is initialised
	.1.. .... Prot		*	Reserved
	..1. .... Prot		LINK_COMMIT_ABENDED	
				A link abended during perform_commit
	...1 .... Prot		LINK_ROLLBACK_NOT_SUPPORTED	
				A rollback was tried on a link that does not support it.
(5A)	CHARACTER Prot	8	RMLS_FAILURE_TIME	Failure time
(62)	CHARACTER Prot	8	*	Reserved

Constants

Table 510.

Len	Type	value	Name	Description
4	DECIMAL	1	RMLS_ABENDED	
4	DECIMAL	2	RMLS_ROLLBACK_NOT_SUPPORTED	
4	DECIMAL	3	RMLS_LINKS_INVALID	

RMNM Recovery Manager Logname Class Data

```
!:refstep.rmnm_and_rmns_classes_for_dfhpmtab --------- DFHRMNM 1443 -
!
!
! This declares the RMNM_class_data class.
!
!--------------------------------------------------------------------
!:refstep.RMNM_Class_Data_Declaration ----------------- DFHRMNM 690 -
!
! This structure defines the class data for the &nm..class.
!
! The &nm..class manages the local logname. This is persistent data
! so there is a &ps..to store it in and a persistent name for it to
! be known by.
!
!--------------------------------------------------------------------
```

Table 511.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	112	RMNM_CLASS_DATA	

Table 511. (continued)

Offset Hex	Type	Len	Name (dim)	Description
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	106	CLASS_DATA_BLOCK	
(0)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	RMNM_EYE_ CATCHER	eyecatcher
(0)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(2)	UNSIGNED Publ	2	RM_EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Publ	12	RM_EYE_STRING	'>DFHRMxxxxxx'
(10)	CHARACTER Prot	74	RMNM_PERSISTENT_ DATA	
				persistent data
(10)	CHAR VARY Prot	64	RMNM_LOCAL_ LOGNAME	
				the local logname
(52)	CHARACTER Prot	8	RMNM_LOCAL_ APPLID	
				the applid that goes with the log name
(5A)	OBJECT Prot IsA(RMPS)	8	RMNM_PSTORE	persistent store
(5A)	CHARACTER Prot IsA(RMPE_NAME_TYPE)	8	NAME	
(62)	CHARACTER Prot	8	*	reserved

Constants

Table 512.

Len	Type	value	Name	Description
16	CHARACTER	DFHRMNMCLASSDATA	RMNM_CLASS_NAME	

RMNM Recovery Manager Logname Instance

```
!:refstep.RMNM_and_RMNS_Classes ---------------------- DFHRMNM 1421 -
!
!
! This copybook contains both the RMNM Class and RMNS Class
! declarations.
!
!-----------------------------------------------------------------
```

```
!:refstep.RMNM_Class_Declaration ---------------------- DFHRMNM 618 -
!
! The &nm..class inherits from the &dn..class so that instances can
! be collected into &dc.s.
!
! The RMNM Class declaration contains
!
! - the public types used in the interface to the class,
!
! - the instance and class data of the class
!
! - the the signatures of the methods provided by the class and
!
! - the implementations of the internal, inlineable methods.
!
!--------------------------------------------------------------------
```

Table 513.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	168	RMNM	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	
(8)	STRUCTURE Prot	8	*	
(8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
!:erefstep.RMNM_Types ---------- !:refstep.RMNM_Instance_Data ---------- DFHRMNM 663 - ! ! An instance of this class consists of ! ! - a triple of access_id, logname and rmc_data, ! ! - an instance of the Persistent Node class to support persistence. ! !----------				
Declared Data				
(10)	STRUCTURE Prot	152	INSTANCE_ DATA_BLOCK	
(10)	CHARACTER Prot	119	PERSISTENT_DATA	persistent data
(10)	CHAR VARY Prot	17	ACCESS_ID	access id
(23)	CHAR VARY Prot	64	LOGNAME	logname
(65)	CHAR VARY Prot IsA(RMNM_RMC_DATA_TYPE)	32	RMC_DATA	data held on behalf of the RMC
(87)	CHARACTER Prot	1	*	reserved

Table 513. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	OBJECT Prot IsA(RMPN)	24	PCHAINNODE	a node in a persistent chain
!:refstep.RMPE_Instance_Data ------------------------- DFHRMPE 151 - ! ! An instance of this class consists of a persistent name and a ! boolean to indicate whether or not the object has been recovered ! or not. ! !--				
(88)	CHARACTER Prot	16	INSTANCE_ DATA_BLOCK	
(88)	CHARACTER Prot IsA(RMPE_NAME_TYPE)	8	PERSISTENT_ NAME	persistent name
(90)	BIT(8) Prot	1	FLAGS	
	1... .... Prot		RECOVERED	Is the object recovered?
	.111 1111 Prot		*	
(91)	CHARACTER Prot	7	*	
!:refstep.RMPN_Instance_Data ------------------------- DFHRMPE 329 - ! ! Each Persistent Node points to the Persistent Collection it ! belongs to. The Persistent Collection is the Persistent Store for ! the Persistent Node. ! !--				
(98)	ADDRESS Prot	4	STORE_POINTER	
(A0)	CHARACTER Prot	8	*	
!:refstep.RMNM_Types -------------------------------- DFHRMNM 651 - ! ! The Log Names class deals with data as varying length character ! strings. ! ! There is also a public type to describe the storage occupied by a ! flattened version of an instance. ! !--				
SHARED DATA				
Declared Data				
(0)	CHAR VARY Publ	32	RMNM_RMC_ DATA_TYPE	
(0)	CHARACTER Prot	119	RMNM_FLAT_TYPE	

Constants

Table 514.

Len	Type	value	Name	Description
16	CHARACTER	DFHRMNMCLASSDATA	RMNM_CLASS_PNAME	

RMNS Recovery Manager Logname Set Instance

```
!:refstep.rmnm_and_rmns_classes_for_dfhpmtab_2 ------- DFHRMNM 1460 -
!
!
! This declares the Recovery Manager RMNS class.
!
!--------------------------------------------------------------------
!:refstep.RMNS_Class_Declaration --------------------- DFHRMNM 1487 -
!
! The RMNS Class declaration contains
!
! - the instance and class data of the class
!
! - the the signatures of the methods provided by the class and
!
! - the implementations of the internal, inlineable methods.
!
!--------------------------------------------------------------------
```

Table 515.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	72	RMNS	
INSTANCE DATA				
Declared Data				
(0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	DCHAINNODE	
Inherited Data				
(0)	CHARACTER Priv	4	*	
(8)	CHARACTER Prot	8	*	
(8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(10)	OBJECT Prot IsA(HOP_DCHAIN)	40	DCHAIN	
(10)	CHARACTER Priv	4	*	
(18)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	

Table 515. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(28)	CHARACTER Priv	4	*	
(30)	CHARACTER Prot	8	*	
(30)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(34)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(38)	OBJECT Prot IsA(RMPC)	16	PCHAIN	
!:refstep.RMPE_Instance_Data ------------------------- DFHRMPE 151 - ! ! An instance of this class consists of a persistent name and a ! boolean to indicate whether or not the object has been recovered ! or not. ! !----------				
(38)	CHARACTER Prot	16	INSTANCE_ DATA_BLOCK	
(38)	CHARACTER Prot IsA(RMPE_NAME_TYPE)	8	PERSISTENT_ NAME	persistent name
(40)	BIT(8) Prot	1	FLAGS	
	1... .... Prot		RECOVERED	Is the object recovered?
	.111 1111 Prot		*	
(41)	CHARACTER Prot	7	*	
!:refstep.RMNS_Instance_Data ------------------------ DFHRMNM 1510 - ! ! An instance of this class consists of ! ! - a HOP_Dchain collecting the Log Names objects, ! ! - a Persistent Collection collecting the Persistent Node objects ! with each Log Names object ! ! - a HOP_DChainNode to allow the instance to be collected on the ! HOP_DChain of known Log Name Set objects maintained by the ! class. ! !----------				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	16	RMNS_RECORD_ NAME_TYPE	

Table 515. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER Prot IsA(RMPE_NAME_TYPE)	8	RMNS_INSTANCE	
(8)	CHARACTER Prot IsA(RMPE_NAME_TYPE)	8	RMNM_INSTANCE	
!:erefstep.RMNS_Instance_Data ---------- !:refstep.RMNS_Class_Data ---------- DFHRMNM 1532 - ! ! The class data of this class consists of ! ! - an eyecatcher, ! ! - an instance of the Persistent Store class, ! ! - a HOP_DChain to collect known instances of the class. ! !----------				
(0)	STRUCTURE Prot	64	CLASS_DATA	
(0)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	EYE_CATCHER	
(0)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(2)	UNSIGNED Publ	2	RM_EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Publ	12	RM_EYE_STRING	'>DFHRMxxxxxx'
(10)	OBJECT Prot IsA(RMPS)	8	PSTORE	
(10)	CHARACTER Prot IsA(RMPE_NAME_TYPE)	8	NAME	
(18)	OBJECT Prot IsA(HOP_DCHAIN)	40	KNOWN_INSTANCES	
Inherited Data				
(18)	CHARACTER Priv	4	*	
(20)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(20)	CHARACTER Priv	4	*	
(28)	CHARACTER Prot	8	*	
(28)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(2C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	

Table 515. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(30)	CHARACTER Priv	4	*	
(38)	CHARACTER Prot	8	*	
(38)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(3C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	

Constants

Table 516.

Len	Type	value	Name	Description
16	CHARACTER	DFHRMNMCLASSDATA	RMNM_CLASS_PNAME	

RMRO Recovery Manager Resource Owner Instance

```
!:refstep.DFHRMOBC ------------------------------------ DFHRMOB 43 -
!
  Restricted Materials of IBM
!
! All classes in &rm..domain inherit from the &rm..Object Class
! (RMOB). This class is completely virtual and contains no data,
! either class or instance. It merely provides signatures for commom
! methods that all &rm..domain classes may need. As virtual methods,
! it is the responsibility of a concrete class inheriting from RMOB
! to provide implementations of these methods.
!
! Currently there are two such methods. Both are class methods (they
! don't take an object of the class as a parameter).
!
!-------------------------------------------------------------------
!:erefstep.DFHRMOBC ------------------------------------------------
```

Table 517.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	48	RMRO	,rmvo
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	
Declared Data				
(8)	OBJECT Prot IsA(RMVO)	4	VOTER	
(8)	CHARACTER Priv	4	*	

Table 517. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.rmro_update_client_procedure ---------- !:refstep.rmro_prepare_procedure ---------- DFHRMRO 4002 - ! ! The RMRO instance is prepared by preparing the corresponding ! Resource Owner. ! !---------- !:erefstep.rmro_prepare_procedure ---------- !:refstep.rmro_commit_procedure ---------- DFHRMRO 4121 - ! ! The RMRO instance is committed by committing the corresponding ! Resource Owner. ! !---------- !:erefstep.rmro_commit_procedure ---------- !:refstep.rmro_instance_data ---------- DFHRMRO 3852 - ! ! The instance data for a Resource Owner object includes its ! identity. ! ! A type is declared for force tokens and a null force token is ! declared. ! ! A log header type is declared the length field of which includes ! the length of the resource id. which is appended to the header ! structure. Whether or not there is a resource id. is indicated by ! the resource id. existence bit. The source field in the ! discriminant is always 'private' for a resource owner log record ! as this class is the source of the log record as far as the RM ! classes are concerned since RM doesn't own or understand the ! format of data which is passed on the APPEND function. ! ! The backout structure is used during backout and backout retry to ! track the progress of backout. If the pointer to this structure ! is null, then either backout has not yet started or else backout ! has completed successfully. The backout structure itself is ! declared internally to the class as the users of the class should ! be insensitive to it. ! ! The commit structure is used for forget processing. If the pointer ! to this structure is null, then there has been no request forget. ! The commit structure itself is declared internally to the class as ! the users of the class should be insensitive to it. ! !----------				
(10)	STRUCTURE Prot	28	INSTANCE_ DATA_BLOCK	
				RMRO instance.
(10)	CHARACTER Prot	4	NAME	Resource Owner client name.
(14)	ADDRESS Prot	4	BACKOUT_STRUCT	Pointer to backout failure structure.
(18)	ADDRESS Prot	4	COMMIT_STRUCT	Pointer to commit failure structure.
(1C)	ADDRESS Prot	4	CLIENT_ IDENTITY_ADDRESS	

Table 517. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Resource Owner client identity address.
(20)	BIT(8) Prot	1	SYSTEM_ RESTART_STATES	
				State during system restart.
	11.. .... Prot		COMMIT_STATE	Commit state.
	..11 1... Prot		BACKOUT_STATE	Backout state.
	.... .11. Prot		REQ_FORGET_ STATE	Request forget state.
(21)	BIT(8) Prot	1	RO_CLIENT_FLAGS	
	1... .... Prot		RECORDS_ IGNORED	Records ignored
	.111 1111 Prot		*	Reserved
(22)	CHARACTER Prot	10	*	reserved for APAR fixes
SHARED DATA				
Declared Data				
(0)	FIXED Publ	4	RMRO_FORCE_TOKEN	
(0)	FIXED Prot	1	RMRO_LOG_ RECORD_TYPE	
(0)	STRUCTURE Prot	11	RMRO_CD_LOG_HDR	
(0)	STRUCTURE Prot IsA(RMLG_DISCRIMINANT)	7	RMRO_CDLH_ DISCRIMINANT	
(0)	UNSIGNED Publ	2	RMLG_HEADER_ LENGTH	
(2)	CHARACTER Publ IsA(RMLG_SOURCE_TYPE)	1	RMLG_SOURCE	
(3)	CHARACTER Publ	4	RMLG_NAME	
(7)	FIXED Prot IsA(RMRO_LOG_RECORD_TYPE)	1	RMRO_CDLH_TYPE	
(8)	BIT(8) Prot	1	RMRO_CDLH_FLAGS	
	1... .... Prot		RMRO_CDLH_ FORWARD_DATA	
	.1.. .... Prot		RMRO_CDLH_ BACKWARD_DATA	
	..1. .... Prot		RMRO_CDLH_ RESOURCE_ID_X	
	...1 .... Prot		RMRO_CDLH_ FORGET_REQUESTED	

Table 517. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9)	UNSIGNED Prot	2	RMRO_CDLH_ RESOURCE_ ID_LENGTH	
(B)	CHARACTER Prot	0	RMRO_CDLH_ RESOURCE_ID	
(0)	STRUCTURE Prot	8	RMRO_BFAIL_ LOG_HDR	
(0)	STRUCTURE Prot IsA(RMLG_DISCRIMINANT)	7	RMRO_BFAILLH_ DISCRIMINANT	
(0)	UNSIGNED Publ	2	RMLG_HEADER_ LENGTH	
(2)	CHARACTER Publ IsA(RMLG_SOURCE_TYPE)	1	RMLG_SOURCE	
(3)	CHARACTER Publ	4	RMLG_NAME	
(7)	FIXED Prot IsA(RMRO_LOG_RECORD_TYPE)	1	RMRO_BFAILLH_ TYPE	
(0)	STRUCTURE Prot	18	RMRO_BFAIL_ MEMBER_LOG_HDR	
(0)	STRUCTURE Prot IsA(RMLG_DISCRIMINANT)	7	RMRO_BFAILMEMLH_ DISCRIMINANT	
(0)	UNSIGNED Publ	2	RMLG_HEADER_ LENGTH	
(2)	CHARACTER Publ IsA(RMLG_SOURCE_TYPE)	1	RMLG_SOURCE	
(3)	CHARACTER Publ	4	RMLG_NAME	
(7)	FIXED Prot IsA(RMRO_LOG_RECORD_TYPE)	1	RMRO_BFAILMEMLH_ TYPE	
(8)	CHAR VARY Prot	8	RMRO_BFAILMEMLH_ RESOURCE_ID	
(12)	CHARACTER Prot	0	RMRO_BFAILMEMLH_ LOCAL_ACCESS_ID	
(0)	STRUCTURE Prot	10	RMRO_REQ_ FORGET_LOG_HDR	
(0)	STRUCTURE Prot IsA(RMLG_DISCRIMINANT)	7	RMRO_RF_ DISCRIMINANT	
(0)	UNSIGNED Publ	2	RMLG_HEADER_ LENGTH	
(2)	CHARACTER Publ IsA(RMLG_SOURCE_TYPE)	1	RMLG_SOURCE	

Table 517. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	CHARACTER Publ	4	RMLG_NAME	
(7)	FIXED Prot IsA(RMRO_LOG_RECORD_TYPE)	1	RMRO_RF_TYPE	
(8)	UNSIGNED Prot	2	RMRO_RF_ LOCAL_ACCESS_ ID_LEN	
(A)	CHARACTER Prot	0	RMRO_RF_ LOCAL_ACCESS_ID	
(0)	STRUCTURE Prot	8	RMRO_FORGOTTEN_ LOG_HDR	
(0)	STRUCTURE Prot IsA(RMLG_DISCRIMINANT)	7	RMRO_FO_ DISCRIMINANT	
(0)	UNSIGNED Publ	2	RMLG_HEADER_ LENGTH	
(2)	CHARACTER Publ IsA(RMLG_SOURCE_TYPE)	1	RMLG_SOURCE	
(3)	CHARACTER Publ	4	RMLG_NAME	
(7)	UNSIGNED Prot IsA(RMRO_LOG_RECORD_TYPE)	1	RMRO_FO_TYPE	

Constants

Table 518.

Len	Type	value	Name	Description
4	DECIMAL	0	NULL_RMRO_ FORCE_TOKEN	
1	DECIMAL	1	RMRO_TYPE_ CLIENT_DATA	
1	DECIMAL	2	RMRO_TYPE_ BFAIL_BEGIN	
1	DECIMAL	3	RMRO_TYPE_ BFAIL_MEMBER	
1	DECIMAL	4	RMRO_TYPE_BFAIL_END	
1	DECIMAL	5	RMRO_TYPE_REQ_FORGET	
1	DECIMAL	6	RMRO_TYPE_FORGOTTEN	
0	BIT	00	CS_RESET	
0	BIT	01	CS_COMMIT_COMPLETE	
0	BIT	10	CS_BUILDING_TBF	
0	BIT	11	CS_COMMIT_FAILED	
0	BIT	000	BS_RESET	
0	BIT	001	BS_NOT_BACKED_OUT	

Table 518. (continued)

Len	Type	value	Name	Description
0	BIT	010	BS_BACKOUT_ COMPLETE	
0	BIT	011	BS_BACKOUT_FAILED	
0	BIT	100	BS_REBUILDING_ FAILURE	
0	BIT	00	RF_RESET	
0	BIT	01	RF_FORGOTTEN	
0	BIT	10	RF_FORGET_REQUIRED	
!:refstep.rmro_class_data ---------- DFHRMRO 3960 - ! ! The class data consists of the identity object for system logging. ! Its purpose is to allow the delivery method to distinguish records ! which are being delivered from RMSL from those which are being ! delivered from RMUW. In most cases, the content of the records is ! sufficient to make this distinction, but using different ! identities (i.e. with different scope values) for system and UOW ! logging is more general and allows identical log records to be ! logged to RMSL and RMUW without risk of confusion on delivery. ! !----------				
4	CHARACTER	RMRO	RMRO_SYSTEM_ LOG_ID_NAME	
4	CHARACTER		RMRO_SPARE_NAME	

RMSL Recovery Manager System Log Class Data

```
!:refstep.rmsl_class_declaration_for_dfhpmtab --------- DFHRMSL 205 -
!
!
! This declares the Recovery Manager System Log Class Data class.
!
!----------
```

Table 519.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	128	RMSL_CLASS_DATA	
!:refstep.rmsl_class_data ---------- DFHRMSL 5246 - ! ! The class data just contains the single rmsl instance. The name ! 'solitaire' reflects the design pattern which is being used. ! !----------				
INSTANCE DATA				
Declared Data				
(0)	OBJECT Prot IsA(RMSL)	128	SOLITAIRE_ SYSTEM_LOG	
Inherited Data				
(0)	CHARACTER Priv	4	*	
!:erefstep.rmsl_address_class_data_method ----------				

Table 519. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER Prot	117	INSTANCE_ DATA_BLOCK	
				RMSL instance.
(8)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	RMSL_EYE_ CATCHER	Eye-catcher.
(8)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(A)	UNSIGNED Publ	2	RM_EYE_OFFSET	offset of eye-catcher in object
(C)	CHARACTER Publ	12	RM_EYE_STRING	'>DFHRMxxxxxx'
(18)	CHARACTER Prot IsA(RESTART_STATE_TYPE)	4	RESTART_STATE	System restart state of RMSL.
(1C)	UNSIGNED Prot IsA(RM_YESNO)	1	KEYPOINT_ SCHEDULED	
				Whether or not a keypoint is scheduled.
(1D)	UNSIGNED Prot IsA(RM_YESNO)	1	QUIESCE_ IN_PROGRESS	
				Whether or not a system quiesce is in progress.
(1E)	UNSIGNED Prot IsA(RM_YESNO)	1	WARM_KP_ WAITING_ FOR_AKP_END	
				Whether or a warm keypoint is waiting for an activity keypoint to complete before proceeding.
(1F)	CHARACTER Prot IsA(RMSL_CHAIN)	4	KEYPOINT_CHAIN	System log chain token used for a keypoint.
(23)	UNSIGNED Prot IsA(RM_YESNO)	1	CHAIN_CLOSED	Whether or not a chain has been closed.
(24)	CHARACTER Prot	4	*	
(28)	OBJECT Prot IsA(RMCR)	40	SYSTEM_ LOG_REGISTER	
				Register of clients of RMSL.

Table 519. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.RMCR_Lookup_Proc ---------- !:refstep.RMCR_Instance_Data ---------- DFHRMCR 99 - ! ! A Client Register is just a chain of Identitys. ! !----------				
(28)	OBJECT Prot IsA(HOP_DCHAIN)	40	RMCR_CHAIN	
(28)	CHARACTER Priv	4	*	
(30)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(30)	CHARACTER Priv	4	*	
(38)	CHARACTER Prot	8	*	
(38)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(3C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(40)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(40)	CHARACTER Priv	4	*	
(48)	CHARACTER Prot	8	*	
(48)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(4C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(50)	CHARACTER Prot IsA(RMSL_CHAIN)	4	COLD_START_CHAIN	System log chain token used for cold start.
(54)	UNSIGNED Prot IsA(RM_YESNO)	1	IN_COLD_STATE	Currently in cold start log records
(55)	CHARACTER Prot	40	*	

Constants

Table 520.

Len	Type	value	Name	Description
4	CHARACTER	Init	RS_RESET	
4	CHARACTER	Cold	RS_COLD	
4	CHARACTER	DeIP	RS_DELIVERY_IN_PROGRESS	
4	CHARACTER	InKP	RS_KEYPOINT_IN_PROGRESS	

Table 520. (continued)

Len	Type	value	Name	Description
4	CHARACTER	PreK	RS_PRE_KEYPOINT	
4	CHARACTER	Disj	RS_DISJOINT	
4	CHARACTER	KPDe	RS_KEYPOINT_ DELIVERY	
4	CHARACTER	Done	RS_COMPLETE	
4	CHAR HEX	00000000	RMSL_NULL_CHAIN	
4	DECIMAL	1	RMSL_BUFFER_FULL	
4	DECIMAL	2	RMSL_INVALID_ DATA_LENGTH	

RMSL Recovery Manager System Log Instance

```
!:refstep.rmsl_class_declaration ---------------------- DFHRMSL 138 -
!
!
! The rmsl class is the Recovery Manager System Log.
!
! It may only be used by Recovery Manager.
!
!-------------------------------------------------------------------
```

Table 521.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	128	RMSL	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	
!:erefstep.rmsl_address_class_data_method --------------------------				
Declared Data				
(8)	STRUCTURE Prot	117	INSTANCE_ DATA_BLOCK	
				RMSL instance.
(8)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	RMSL_EYE_ CATCHER	Eye-catcher.
(8)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(A)	UNSIGNED Publ	2	RM_EYE_OFFSET	offset of eye-catcher in object
(C)	CHARACTER Publ	12	RM_EYE_STRING	'>DFHRMxxxxxx'
(18)	CHARACTER Prot IsA(RESTART_STATE_TYPE)	4	RESTART_STATE	System restart state of RMSL.

Table 521. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	FIXED Prot IsA(RM_YESNO)	1	KEYPOINT_ SCHEDULED	
				Whether or not a keypoint is scheduled.
(1D)	FIXED Prot IsA(RM_YESNO)	1	QUIESCE_ IN_PROGRESS	
				Whether or not a system quiesce is in progress.
(1E)	FIXED Prot IsA(RM_YESNO)	1	WARM_KP_ WAITING_ FOR_AKP_END	
				Whether or a warm keypoint is waiting for an activity keypoint to complete before proceeding.
(1F)	CHARACTER Prot IsA(RMSL_CHAIN)	4	KEYPOINT_CHAIN	System log chain token used for a keypoint.
(23)	FIXED Prot IsA(RM_YESNO)	1	CHAIN_CLOSED	Whether or not a chain has been closed.
(24)	CHARACTER Prot	4	*	Reserved
(28)	OBJECT Prot IsA(RMCR)	40	SYSTEM_ LOG_REGISTER	
				Register of clients of RMSL.
!:erefstep.RMCR_Lookup_Proc ---------- !:refstep.RMCR_Instance_Data ---------- DFHRMCR 99 - ! ! A Client Register is just a chain of Identitys. ! !----------				
(28)	OBJECT Prot IsA(HOP_DCHAIN)	40	RMCR_CHAIN	
(28)	CHARACTER Priv	4	*	
(30)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(30)	CHARACTER Priv	4	*	
(38)	CHARACTER Prot	8	*	
(38)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	

Table 521. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(40)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(40)	CHARACTER Priv	4	*	
(48)	CHARACTER Prot	8	*	
(48)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(4C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(50)	CHARACTER Prot IsA(RMSL_CHAIN)	4	COLD_START_ CHAIN	System log chain token used for cold start.
(54)	FIXED Prot IsA(RM_YESNO)	1	IN_COLD_STATE	Currently in cold start log records
(55)	CHARACTER Prot	40	*	reserved for APAR fixes
SHARED DATA				
Declared Data				
(0)	CHARACTER Publ	4	RESTART_ STATE_TYPE	
(0)	CHARACTER Publ	4	RMSL_CHAIN	
(0)	STRUCTURE Prot	28	RMSL_LOG_HEADER	
(0)	STRUCTURE Prot IsA(RMLG_DISCRIMINANT)	7	RMSL_LH_ DISCRIMINANT	
(0)	UNSIGNED Publ	2	RMLG_HEADER_ LENGTH	
(2)	CHARACTER Publ IsA(RMLG_SOURCE_TYPE)	1	RMLG_SOURCE	
(3)	CHARACTER Publ	4	RMLG_NAME	
(7)	BIT(8) Prot	1	RMSL_LH_FLAGS	
	1... .... Prot		RMSL_LH_ KEYPOINT	
	.1.. .... Prot		RMSL_LH_ START_OF_KEYPOINT	
	..1. .... Prot		RMSL_LH_ END_OF_KEYPOINT	
	...1 .... Prot		RMSL_LH_ START_OF_ COLD_RECOVERY	

Table 521. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1... Prot		RMSL_LH_ END_OF_ COLD_RECOVERY	
(8)	CHARACTER Prot	4	RMSL_LH_TERMID	
(C)	CHARACTER Prot	8	RMSL_LH_ TERMINAL_LUNAME	
(14)	CHARACTER Prot	4	RMSL_LH_TRANID	
(18)	CHARACTER Prot	4	RMSL_LH_TASKID	
(1C)	CHARACTER Prot	0	RMSL_LH_DATA	

Constants

Table 522.

Len	Type	value	Name	Description
4	CHARACTER	Init	RS_RESET	
4	CHARACTER	Cold	RS_COLD	
4	CHARACTER	DeIP	RS_DELIVERY_ IN_PROGRESS	
4	CHARACTER	InKP	RS_KEYPOINT_ IN_PROGRESS	
4	CHARACTER	PreK	RS_PRE_KEYPOINT	
4	CHARACTER	Disj	RS_DISJOINT	
4	CHARACTER	KPDe	RS_KEYPOINT_ DELIVERY	
4	CHARACTER	Done	RS_COMPLETE	
4	CHAR HEX	00000000	RMSL_NULL_CHAIN	
4	DECIMAL	1	RMSL_BUFFER_FULL	
4	DECIMAL	2	RMSL_INVALID_ DATA_LENGTH	

RMUW Recovery Manager Unit Of Work Class Data

```
!:refstep.rmuw_class_declaration_for_dfhpmtab -------- DFHRMUW 2337 -
!
!
! This is the declaration for the rmuw_class_data class.
!
!----------------------------------------------------------------------
```

Table 523.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	2528	RMUW_CLASS_DATA	

Table 523. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.rmuw_class_data ---------- DFHRMUW 5615 - ! ! The UOW class data consists of some types, the address of a ! pro-forma UOW, a couple of token sets for UOW and UOW browse ! tokens, respectively, a chain of UOWs, a chain of UOW browses, a ! UOW factory, and a register of UOW log clients. ! !----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	2524	CLASS_DATA_BLOCK	RMUW class data
(0)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	UOW_CD_ EYE_CATCHER	
				Eye-catcher
(0)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(2)	UNSIGNED Publ	2	RM_EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Publ	12	RM_EYE_STRING	'>DFHRMxxxxxx'
(10)	ADDRESS Prot	4	PROFORMA_ UOW_POINTER	
				Pro-forma UOW address
(14)	CHARACTER Prot	4	*	Reserved
(18)	OBJECT Prot IsA(HOP_DCHAIN)	40	UOW_CHAIN	Global UOW chain
Inherited Data				
(18)	CHARACTER Priv	4	*	
(20)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(20)	CHARACTER Priv	4	*	
(28)	CHARACTER Prot	8	*	
(28)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(2C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(30)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(30)	CHARACTER Priv	4	*	

Table 523. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	CHARACTER Prot	8	*	
(38)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(3C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(40)	OBJECT Prot IsA(RMOF)	48	UOW_FACTORY	UOW factory
!:refstep.rmof_instance_data ------------------------- DFHRMOF 491 - ! ! The instance data contains an eye-catcher, a subpool name, and a ! subpool token. The subpool name is used as a remark when ! allocating and freeing storage. It consists of the prefix 'RMOF' ! and a suffix which is the name of the object being managed. ! !----------				
(40)	CHARACTER Prot	41	INSTANCE_ DATA_BLOCK	
				RMOF instance data
(40)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	OF_EYE_ CATCHER	eye-catcher
(40)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(42)	UNSIGNED Publ	2	RM_EYE_ OFFSET	offset of eye-catcher in object
(44)	CHARACTER Publ	12	RM_EYE_ STRING	'>DFHRMxxxxxx'
(50)	CHARACTER Prot	8	SUBPOOL_NAME	subpool name
(50)	CHARACTER Prot	4	SUBPOOL_ NAME_PREFIX	
				subpool name prefix
(54)	CHARACTER Prot	4	SUBPOOL_ NAME_SUFFIX	
				subpool name suffix
(58)	CHARACTER Prot	8	SUBPOOL_TOKEN	subpool token
(60)	UNSIGNED Prot IsA(RM_YESNO)	1	SUBPOOL_ LOCKED	subpool access will be locked
(61)	CHARACTER Prot	8	*	
(70)	OBJECT Prot IsA(RMLI)	88	UOW_LOGGABLE_ID	Loggable id. of RMUW with respect to RMSL

Table 523. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(70)	CHARACTER Priv	4	*	
(78)	CHARACTER Prot	8	*	
(78)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(7C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
!:erefstep.rmid_set_name_method ---------- !:refstep.rmid_instance_data ---------- DFHRMID 123 - ! ! The only piece of instance data is the name of the identity. ! !----------				
(80)	CHARACTER Prot	4	NAME	
!:erefstep.rmli_inquire_disjoint_chains_method ---------- !:refstep.rmli_instance_data ---------- DFHRMLI 264 - ! ! The instance data, in addition to that inherited from the rmid ! class, consists of the address of the start delivery, deliver ! data, end delivery, take keypoint, set chain token, and inquire ! disjoint chains methods of an instance of (a subclass of) the ! loggable object class. ! !----------				
(88)	CHARACTER Prot	64	INSTANCE_ DATA_BLOCK	
				RMLI instance data.
(88)	ADDRESS Prot	4	START_DELIVERY	Start delivery method address.
(8C)	ADDRESS Prot	4	DELIVER_DATA	Deliver data method address.
(90)	ADDRESS Prot	4	END_DELIVERY	End delivery method address.
(94)	ADDRESS Prot	4	TAKE_KEYPOINT	Take keypoint method address.
(98)	ADDRESS Prot	4	SET_CHAIN_ TOKEN	Set chain token method address.
(9C)	ADDRESS Prot	4	INQUIRE_ DISJOINT_CHAINS	
				Inquire disjoint chains method address.
(A0)	ADDRESS Prot	4	PRE_KEYPOINT	Start Keypoint method address.
(A4)	ADDRESS Prot	4	POST_KEYPOINT	Start Keypoint method address.
(A8)	CHARACTER Prot	32	*	

Table 523. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C8)	OBJECT Prot IsA(RMCR)	40	UOW_LOG_ REGISTER	Register of clients of the RMUW log
!:erefstep.RMCR_Lookup_Proc ---------- !:refstep.RMCR_Instance_Data ---------- DFHRMCR 99 - ! ! A Client Register is just a chain of Identitys. ! !----------				
(C8)	OBJECT Prot IsA(HOP_DCHAIN)	40	RMCR_CHAIN	
(C8)	CHARACTER Priv	4	*	
(D0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(D0)	CHARACTER Priv	4	*	
(D8)	CHARACTER Prot	8	*	
(D8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(DC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(E0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(E0)	CHARACTER Priv	4	*	
(E8)	CHARACTER Prot	8	*	
(E8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(EC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(F0)	CHARACTER Prot	21	UOW_RO_ SYNCPOINT_ ORDER_ARRAY	
(F0)	UNSIGNED Prot	1	UOW_RO_ SYNCPOINT_ORDER (21)	
				Array defining the order in which RO clients are called in syncpoint
(108)	OBJECT Prot IsA(RMTOKSET)	1056	UOW_TOKEN_SET	Set of UOW tokens

Table 523. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.RMTK_Public_Token_Type ---------- !:refstep.RMTK_Instance_Data ---------- DFHRMTK 108 - ! ! The token set records the set of known tokens together with the ! address associated with each known token. ! !----------				
(108)	CHARACTER Prot	1056	INSTANCE_ DATA_BLOCK	
(108)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	EYE_CATCHER	eyecatcher
(108)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(10A)	UNSIGNED Publ	2	RM_EYE_ OFFSET	offset of eye-catcher in object
(10C)	CHARACTER Publ	12	RM_EYE_ STRING	'>DFHRMxxxxxx'
(118)	UNSIGNED Prot	4	NUMBER_ OF_BLOCKS	
				block count
(11C)	UNSIGNED Prot IsA(TOKEN_TYPE)	4	FREE_CHAIN_ HEAD	free chain head
(11C)	STRUCTURE Prot IsA(INDEX_TYPE)	2	INDEX	
(11C)	UNSIGNED Prot	1	BLOCK	
(11D)	UNSIGNED Prot	1	SLOT	
(11E)	UNSIGNED Prot IsA(INSTANCE_TYPE)	2	INSTANCE	
(120)	ADDRESS Prot	4	BLOCKS (0-255)	pointers to blocks
(520)	CHARACTER Prot	8	*	
(528)	OBJECT Prot IsA(RMTOKSET)	1056	UOW_BROWSE_ TOKEN_SET	
				Set of UOW browse tokens
(528)	CHARACTER Prot	1056	INSTANCE_ DATA_BLOCK	
(528)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	EYE_CATCHER	eyecatcher
(528)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(52A)	UNSIGNED Publ	2	RM_EYE_ OFFSET	offset of eye-catcher in object

Table 523. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(52C)	CHARACTER Publ	12	RM_EYE_ STRING	'>DFHRMxxxxxx'
(538)	UNSIGNED Prot	4	NUMBER_ OF_BLOCKS	
				block count
(53C)	UNSIGNED Prot IsA(TOKEN_TYPE)	4	FREE_CHAIN_ HEAD	free chain head
(53C)	STRUCTURE Prot IsA(INDEX_TYPE)	2	INDEX	
(53C)	UNSIGNED Prot	1	BLOCK	
(53D)	UNSIGNED Prot	1	SLOT	
(53E)	UNSIGNED Prot IsA(INSTANCE_TYPE)	2	INSTANCE	
(540)	ADDRESS Prot	4	BLOCKS (0-255)	pointers to blocks
(940)	CHARACTER Prot	8	*	
(948)	OBJECT Prot IsA(HOP_DCHAIN)	40	UOW_BROWSES	Chain of UOW browses.
(948)	CHARACTER Priv	4	*	
(950)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(950)	CHARACTER Priv	4	*	
(958)	CHARACTER Prot	8	*	
(958)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(95C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(960)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(960)	CHARACTER Priv	4	*	
(968)	CHARACTER Prot	8	*	
(968)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(96C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(970)	CHARACTER Prot	68	UOW_STATISTICS	UOW-related statistics:
(970)	SIGNED Prot	4	TOTAL_SYNC_ FWDS	#forward commits

Table 523. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(974)	SIGNED Prot	4	TOTAL_SYNC_ BWDS	#backward commits
(978)	CHARACTER Prot	8	TOTAL_TIME_ SHUNTED_INDOUBT	
total time UOWs were shunted indoubt				
(980)	SIGNED Prot	4	TOTAL_SHUNTED_ INDOUBT	
				#unshunts of indoubt UOWs
(984)	SIGNED Prot	4	TOTAL_SHUNTED_ RO_FAIL	
				#final unshunts of
backout or commit failed UOWs				
(988)	CHARACTER Prot	8	TOTAL_TIME_ SHUNTED_RO_FAIL	
total time backout or commit failed UOWs were shunted				
The following fields count the number of heuristic decisions due to particular reasons.				
(990)	SIGNED Prot	4	HEURISM_ FORCED_BY_TRANDEF	
				#due to txn defn
(994)	SIGNED Prot	4	HEURISM_ FORCED_BY_TIMEOUT	
				#due to timeout
(998)	SIGNED Prot	4	HEURISM_ FORCED_ BY_OPERATOR	
				#due to operator
(99C)	SIGNED Prot	4	HEURISM_ FORCED_BY_OTHER	
				#due to other reason
The following fields count the number of heuristic decisions forced by a client of the UOW				
(9A0)	SIGNED Prot	4	HEURISM_ FORCED_ BY_CLIENT_TD	
				#due to TD
(9A4)	SIGNED Prot	4	HEURISM_ FORCED_ BY_CLIENT_LU61	
				#due to LU 6.1
(9A8)	SIGNED Prot	4	HEURISM_ FORCED_ BY_CLIENT_MRO	

Table 523. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				#due to MRO
(9AC)	SIGNED Prot	4	HEURISM_ FORCED_ BY_CLIENT_RMI	
				#due to RMI
(9B0)	SIGNED Prot	4	HEURISM_ FORCED_ BY_CLIENT_OTHER	
				#due to other client
(9B4)	CHARACTER Prot	40	*	reserved for APAR fixes
SHARED DATA				
Declared Data				
(0)	CHARACTER Publ IsA(RM_TOKEN)	4	UOW_TOKEN_TYPE	

Constants

Table 524.

Len	Type	value	Name	Description
4	CHAR HEX	00000000	NULL_UOW_TOKEN	
4	CHARACTER	RMUW	UOW_LOGGABLE_ ID_NAME	
4	DECIMAL	301	MNO_FORCE_ PURGE_REJECTED	
4	CHAR HEX	00000000	NULL_UOW_ BROWSE_TOKEN	
1	DECIMAL	1	UNSHUNT_REASON_AVAIL	
1	DECIMAL	2	UNSHUNT_REASON_ INDOUBT_RES	
1	DECIMAL	3	UNSHUNT_REASON_ RESTART	
4	CHAR HEX	00000000	NULL_SYSTEM_ LOG_CHAIN_TOKEN	
4	CHARACTER	STAT	STATUS_LOG_RECORD	
4	CHARACTER	EXIS	EXISTENCE_ LOG_RECORD	
4	CHARACTER	MOVE	KEYPOINT_ MOVE_LOG_RECORD	
4	CHARACTER	COLD	LOCAL_COLD_ LOG_RECORD	
4	DECIMAL	200	MNO_RECON_ INDOUBT_UOWS	

Table 524. (continued)

Len	Type	value	Name	Description
4	DECIMAL	201	MNO_RECON_ POST_COMMIT_UOWS	
4	DECIMAL	202	MNO_RECON_ INFLIGHT_UOWS	
4	DECIMAL	203	MNO_SHUNTED_UOWS	
4	DECIMAL	204	MNO_NO_SHUNTED_UOWS	
4	DECIMAL	205	MNO_SUCCESSFUL_ KEYPOINT	
4	DECIMAL	228	MNO_RESYNC_ INDOUBT_UOWS	
4	DECIMAL	229	MNO_RESYNC_ CFAIL_BFAIL_UOWS	
4	DECIMAL	230	MNO_RESYNC_ INFLIGHT_UOWS	
4	DECIMAL	400	MNO_INCOMPLETE_ UOW_ERROR	
8	CHARACTER	RM0400	DCD_INCOMPLETE_ UOW_ERROR	
4	DECIMAL	1	RMUW_BUFFER_FULL	
4	DECIMAL	2	RMUW_INVALID_ DATA_LENGTH	

RMUW Recovery Manager Unit Of Work Instance

```
!:refstep.rmuw_class_declaration ---------------------- DFHRMUW 2193 -
!
!
! The rmuw class is the Recovery Manager Unit of Work.
!
! It may only be used by Recovery Manager. It is used to implement
! the RMUW gate.
!
! rmuw inherits from rmlo and, via simulated inheritance, from rmpo
! and rmlg.
!
!
!-----------------------------------------------------------------------
```

Table 525.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	1560	RMUW	
INSTANCE DATA				
Inherited Data				
(0)	CHARACTER Priv	4	*	

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.rmuw_instance_data ------------------------ DFHRMUW 5324 - ! ! The instance data of a RMUW object includes an instance of a ! Poller since the inheritance from Poller is simulated. ! !----------				
Declared Data				
(8)	STRUCTURE Prot	1548	INSTANCE_ DATA_BLOCK	
				RMUW instance data
(8)	STRUCTURE Prot IsA(RM_EYE_CATCHER)	16	UOW_EYE_CATCHER	Eye-catcher
(8)	UNSIGNED Publ	2	RM_EYE_LEN	object length
(A)	UNSIGNED Publ	2	RM_EYE_OFFSET	offset of eye-catcher in object
(C)	CHARACTER Publ	12	RM_EYE_STRING	'>DFHRMxxxxxx'
(18)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	UOW_CHAIN_LINK	Link in global UOW chain
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	CHARACTER Prot IsA(UOW_TOKEN_TYPE)	4	UOW_TOKEN	UOW token
(2C)	UNSIGNED Prot	1	STATUS	UOW status
(2D)	FIXED Prot IsA(RM_YESNO)	1	LINKS_PRESENT	Whether links are left in the UOW
(2E)	UNSIGNED Prot	1	KEYPOINT_COUNT	# of keypoints seen
(2F)	UNSIGNED Prot	1	HEURISTIC_CAUSE	Cause of heurism
(30)	CHARACTER Prot	3	*	reserved
(33)	STRUCTURE Prot IsA(RMUW_CONTEXT)	31	UOW_CONTEXT	context info !@POC

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(33)	STRUCTURE Prot IsA(RMXN_CONTEXT)	20	TRAN_CONTEXT	
(33)	CHARACTER Publ	4	TERMID	Terminal id. of originating transaction
(37)	CHARACTER Publ	8	TERMINAL_ LUNAME	Terminal LU name of originating transaction
(3F)	CHARACTER Publ	4	TRANNUM	Transaction number of originating transaction
(43)	CHARACTER Publ	4	TRANID	Transaction id. of originating transaction
(47)	CHARACTER Prot	8	*	
(47)	CHARACTER Prot	8	USERID	Userid of originating transaction
(47)	CHARACTER Prot	8	TRAN_TOKEN	Token for originating transaction
(4F)	CHARACTER Prot	3	OP_ID	Operator id. of originating transaction
(52)	UNSIGNED Prot	1	HEURISM	Whether to take a heuristic decision on an indoubt failure
(53)	UNSIGNED Prot	1	CHOICE	The default direction for a heuristic decision
(54)	UNSIGNED Prot	4	INDOUBT_ TIMEOUT_INTERVAL	
				Limit of amount of time and indoubt wait will be allowed befor being forced to take a heuristic decision. Zero denotes no time limit.
(58)	BIT(32) Prot	4	FLAGS	Flags.
(58)	BIT(8) Prot	1	*	

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1... .... Prot		FIRST_UOW_ FOR_TRANSACTION	
				First UOW for a transaction.
	.1.. .... Prot		RECONSTRUCTED	UOW was reconstructed during system restart.
	..1. .... Prot		SHUNTED	UOW is shunted.
	...1 .... Prot		HEURISTIC_ DECISION_TAKEN	
				A heuristic decision has been taken.
	.... 1... Prot		FORCE_PURGE_ PROTECTION	
				Protected from force purge.
	.... .1.. Prot		UNSHUNT_ ACTIVE	Unshunt in progress.
	.... ..1. Prot		RESYNCH_ IN_PROGRESS	
				Resynch. in progress.
	....1 Prot		EXISTENCE_ TO_BE_LOGGED	
				UOW existence needs logging.
(59)	BIT(8) Prot	1	*	
	1... .... Prot		EXISTENCE_ LOCKED	
				UOW may not be destroyed yet.
	.1.. .... Prot		RESUME_ REQUIRED	A transaction is suspended on this UOW.
	..1. .... Prot		UNSHUNT_ DEFERRED	
				Unshunt deferred until later.

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1 .... Prot		SERIAL_ RECOVERY	UOW is being reconstructed during system restart but its indoubt or inflight log records have not yet been reached.
	.... 1... Prot		MOVE_IN_ PROGRESS	
				UOW is being moved on the log.
	.... .1.. Prot		LOCALLY_ COMMITTED	
				local commits done.
	.... ..1. Prot		KEYPOINTED_ FOR_MOVE	
				keypointed in order to move
	....1 Prot		LINKS_FORGOTTEN	No links left
(5A)	BIT(8) Prot	1	*	
	1... .... Prot		FIRST_COMMIT_ DONE	
				first attempt at commit completed
	.1.. .... Prot		TIMEOUT_ ACTIVE	Indoubt wait timeout is active for this UOW.
	..1. .... Prot		SURVIVED_ COLD_START	
				UOW has survived a cold start.
	...1 .... Prot		LOCAL_COMMIT_ LOGGED	
				logged the fact that UOW has locally comm- itted.
	.... 1... Prot		CLIENT_ STATE_RECOVERED	
				client state has been recovered
	.... .1.. Prot		OTS_TRAN	is an OTS tran
	.... ..1. Prot		SUMMARIZING	

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	....1 Prot		*	reserved
(5B)	BIT(8) Prot	1	*	
	1... .... Prot		USERID_FROZEN	userid cannot change
	.111 1111 Prot		*	reserved
(5C)	CHARACTER Prot	4	SYSTEM_ LOG_CHAIN_TOKEN	
				System log chain token for this UOW.
(60)	CHARACTER Prot	8	STATE_CHANGE_TIME	Time of last change of state
(68)	OBJECT Prot IsA(HOP_DCHAIN)	40	UNSHUNT_Q	Queue of unshunt requests.
(68)	CHARACTER Priv	4	*	
(70)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(70)	CHARACTER Priv	4	*	
(78)	CHARACTER Prot	8	*	
(78)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(7C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(80)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(80)	CHARACTER Priv	4	*	
(88)	CHARACTER Prot	8	*	
(88)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(8C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(90)	UNSIGNED Prot	4	SUSPEND_TOKEN	DS suspend token.
(94)	CHARACTER Prot	4	SUMMARY_ CHAIN_TOKEN	
(98)	OBJECT Prot IsA(RMPO)	32	POLLER	Poller instance.
(98)	CHARACTER Priv	4	*	

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.rmpo_terminate_recovery_method ---------- !:refstep.rmpo_instance_data ---------- DFHRMPO 573 - ! ! vote is the result of the poll so far. ! ! coordinator is the address of the coordinator voter or zero if ! there is no coordinator voter. ! ! indoubt determines whether or not we are in the indoubt state. If ! we are indoubt, then there must be a coordinator voter otherwise ! there would be no way of resolving the indoubt. ! ! resynchronisation_in_progress records the resynchronisation state. ! This prevents multiple concurrent attempt to resynchronise and ! also protects us from a forced decision during resynchronisation. ! ! read_only is 'yes' if and only if all the voters polled so far ! have indicated that they are read-only. ! ! continue is 'yes' if there will be a next UOW. Sometimes there ! will be a next UOW even when continue is 'no'. This is due to ! some voter preventing the next UOW from continuing even though the ! application requested it. In such cases, the next UOW is always ! aborted without the application having a chance to do further ! work. ! !----------				
(A0)	CHARACTER Prot	17	INSTANCE_ DATA_BLOCK	
				RMPO instance data
(A0)	ADDRESS Prot	4	COORDINATOR	coodinator voter for this poller
(A4)	UNSIGNED Prot IsA(RMPO_VOTE)	1	VOTE	result of polling so far
(A5)	UNSIGNED Prot IsA(RM_YESNO)	1	INDOUBT	whether or not poller is indoubt
(A6)	UNSIGNED Prot IsA(RM_YESNO)	1	RESYNCHRONISATION_ IN_PROGRESS	
				whether or not resynch. is in progress
(A7)	UNSIGNED Prot IsA(RM_YESNO)	1	READ_ONLY	read-only result of polling so far
(A8)	UNSIGNED Prot IsA(RM_YESNO)	1	CONTINUE	continuation result of polling so far
(A9)	CHARACTER Prot	8	*	
(B8)	OBJECT Prot IsA(RMLS)	112	LINKS	Set of links from this UOW to remote Recovery Managers.

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B8)	CHARACTER Priv	4	*	
!:refstep.RMLS_Instance_Data ------------------------- DFHRMLS 275 - ! ! A Link Set object contains a chain of all the Links involved in ! this Unit of Work. ! ! There are embedded Voter and Poller objects and a pointer to the ! Link picked as last-agent. A Link Set knows whether it is awaiting ! forget. ! !----------				
(C0)	CHARACTER Prot	98	INSTANCE_ DATA_BLOCK	
(C0)	OBJECT Prot IsA(HOP_DCHAIN)	40	RMLS_LINKS	Chain of link objects
(C0)	CHARACTER Priv	4	*	
(C8)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(C8)	CHARACTER Priv	4	*	
(D0)	CHARACTER Prot	8	*	
(D0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(D4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(D8)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(D8)	CHARACTER Priv	4	*	
(E0)	CHARACTER Prot	8	*	
(E0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(E4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(E8)	ADDRESS Prot	4	RMLS_LAST_ LINK	Pointer to last agent or single updater link
(EC)	OBJECT Prot IsA(RMVO)	4	RMLS_VOTER	Voter Object
(EC)	CHARACTER Priv	4	*	
(F0)	OBJECT Prot IsA(RMPO)	32	RMLS_POLLER	Poller Object
(F0)	CHARACTER Priv	4	*	

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F8)	CHARACTER Prot	17	INSTANCE_ DATA_BLOCK	
				RMPO instance data
(F8)	ADDRESS Prot	4	COORDINATOR	coodinator voter for this poller
(FC)	UNSIGNED Prot IsA(RMPO_VOTE)	1	VOTE	result of polling so far
(FD)	UNSIGNED Prot IsA(RM_YESNO)	1	INDOUBT	whether or not poller is indoubt
(FE)	UNSIGNED Prot IsA(RM_YESNO)	1	RESYNCHRONISATION_ IN_PROGRESS	
				whether or not resynch. is in progress
(FF)	UNSIGNED Prot IsA(RM_YESNO)	1	READ_ONLY	read-only result of polling so far
(100)	UNSIGNED Prot IsA(RM_YESNO)	1	CONTINUE	continuation result of polling so far
(101)	CHARACTER Prot	8	*	
(110)	UNSIGNED Prot IsA(RM_YESNO)	1	RMLS_AWAITING_ FORGET	
				Linkset is merely awaiting forget
(111)	BIT(8) Prot	1	RMLS_FLAGS	
	1... .... Prot		CHAIN_INITIALISED	
				Chain is initialised
	.1.. .... Prot		*	
	..1. .... Prot		LINK_COMMIT_ ABENDED	
				A link abended during perform_commit
	...1 .... Prot		LINK_ROLLBACK_ NOT_SUPPORTED	
				A rollback was tried on a link that does not support it.
(112)	CHARACTER Prot	8	RMLS_FAILURE_ TIME	
				Failure time
(11A)	CHARACTER Prot	8	*	

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(128)	CHARACTER Prot	141	INLINE_ ACCESS_STRUCTURE	
				Structure of values which may be accessed by inline macro expansions.
(128)	CHARACTER Prot	8	RMUX_LOCAL_ UOW_ID	
(130)	CHARACTER Prot	27	RMUX_REMOTE_ UOW_ID	
(130)	UNSIGNED Prot	1	RMUX_REMOTE_ ID_LENGTH	
(131)	UNSIGNED Prot	1	RMUX_REMOTE_ ID_LU_NAME_LENGTH	
(132)	CHARACTER Prot	25	*	
(14B)	BIT(8) Prot	1	RMUX_FLAGS	
	1... .... Prot		OPTIMAL_ CLIENTS_ONLY	
(14C)	ADDRESS Prot	4	RMUX_WORK_ TOKEN_ARRAY (21)	
(1A0)	CHARACTER Prot	21	RMUX_CLIENT_ STATES	
(1A0)	BIT(8) Prot	1	CLIENT_STATE (21)	
	1... .... Prot		COMMIT_ COMPLETE	
	.111 1111 Prot		*	
(1B5)	CHARACTER Prot	5	*	reserved.
(1C0)	OBJECT Prot IsA(RMRO)	48	RO_ARRAY (21)	Resource Owner instances.
(1C0)	CHARACTER Priv	4	*	
(1C8)	OBJECT Prot IsA(RMVO)	4	VOTER	
(1C8)	CHARACTER Priv	4	*	

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.rmro_update_client_procedure ---------- !:refstep.rmro_prepare_procedure ---------- DFHRMRO 4002 - ! ! The RMRO instance is prepared by preparing the corresponding ! Resource Owner. ! !---------- !:erefstep.rmro_prepare_procedure ---------- !:refstep.rmro_commit_procedure ---------- DFHRMRO 4121 - ! ! The RMRO instance is committed by committing the corresponding ! Resource Owner. ! !---------- !:erefstep.rmro_commit_procedure ---------- !:refstep.rmro_instance_data ---------- DFHRMRO 3852 - ! ! The instance data for a Resource Owner object includes its ! identity. ! ! A type is declared for force tokens and a null force token is ! declared. ! ! A log header type is declared the length field of which includes ! the length of the resource id. which is appended to the header ! structure. Whether or not there is a resource id. is indicated by ! the resource id. existence bit. The source field in the ! discriminant is always 'private' for a resource owner log record ! as this class is the source of the log record as far as the RM ! classes are concerned since RM doesn't own or understand the ! format of data which is passed on the APPEND function. ! ! The backout structure is used during backout and backout retry to ! track the progress of backout. If the pointer to this structure ! is null, then either backout has not yet started or else backout ! has completed successfully. The backout structure itself is ! declared internally to the class as the users of the class should ! be insensitive to it. ! ! The commit structure is used for forget processing. If the pointer ! to this structure is null, then there has been no request forget. ! The commit structure itself is declared internally to the class as ! the users of the class should be insensitive to it. ! !----------				
(1D0)	CHARACTER Prot	28	INSTANCE_ DATA_BLOCK	
				RMRO instance.
(1D0)	CHARACTER Prot	4	NAME	Resource Owner client name.
(1D4)	ADDRESS Prot	4	BACKOUT_ STRUCT	Pointer to backout failure structure.
(1D8)	ADDRESS Prot	4	COMMIT_STRUCT	Pointer to commit failure structure.
(1DC)	ADDRESS Prot	4	CLIENT_ IDENTITY_ADDRESS	

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Resource Owner client identity address.
(1E0)	BIT(8) Prot	1	SYSTEM_ RESTART_STATES	
				State during system restart.
	11.. .... Prot		COMMIT_STATE	Commit state.
	..11 1... Prot		BACKOUT_ STATE	Backout state.
	.... .11. Prot		REQ_FORGET_ STATE	
				Request forget state.
(1E1)	BIT(8) Prot	1	RO_CLIENT_ FLAGS	
	1... .... Prot		RECORDS_ IGNORED	
				Records ignored
	.111 1111 Prot		*	
(1E2)	CHARACTER Prot	10	*	
(5B0)	CHARACTER Prot	8	TIMER_TOKEN	TI domain indoubt wait timeout token
(5B8)	CHARACTER Prot	84	OTS_DATA	
(5B8)	CHARACTER Prot	4	LS_NAME	logical server name
(5BC)	CHARACTER Prot IsA(UOW_PUBLIC_ID_TYPE)	64	PUBLIC_ID	public_id ReqStream
(5FC)	UNSIGNED Prot	4	FORMAT_ID	
(600)	UNSIGNED Prot	4	BQUAL_LEN	
(604)	ADDRESS Prot	4	TID_STR_P	
(608)	SIGNED Prot	4	TID_STR_L	
(60C)	CHARACTER Prot	8	*	reserved for APAR fixes
SHARED DATA				
Declared Data				
(0)	CHARACTER Prot	64	UOW_PUBLIC_ ID_TYPE	
(0)	CHARACTER Publ IsA(RM_TOKEN)	4	UOW_BROWSE_ TOKEN_TYPE	

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE Prot	57	UOW_BROWSE_ELEMENT	
(0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	UOW_BROWSE_CHAIN_LINK	
Inherited Data				
(0)	CHARACTER Priv	4	*	
(8)	CHARACTER Prot	8	*	
(8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(10)	CHARACTER Prot IsA(UOW_BROWSE_TOKEN_TYPE)	4	UOW_BROWSE_TOKEN	
(18)	STRUCTURE Prot IsA(ITERATOR)	24	UOW_BROWSE_ITERATOR	
(18)	OBJECT Publ IsA(HOP_DCHAINNODE)	16	ITERNODE	
(18)	CHARACTER Priv	4	*	
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(24)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(28)	ADDRESS Publ IsA(HOP_DCHAINNODE@)	4	CURRNODE	
(2C)	ADDRESS Publ IsA(HOP_DCHAIN@)	4	CHAIN_PTR	
(30)	CHARACTER Prot	4	UOW_BROWSE_OWNER	
(34)	FIXED Prot IsA(RM_YESNO)	1	UOW_BROWSE_ENDED	
(35)	CHARACTER Prot	2	UOW_BROWSE_FILTER	
(35)	FIXED Prot IsA(RM_YESNO)	1	UOW_BROWSE_SHUNTED	
(36)	FIXED Prot IsA(RM_YESNO)	1	UOW_BROWSE_NOT_SHUNTED	
(37)	FIXED Prot IsA(RM_YESNO)	1	UOW_BROWSE_WORK_TOKEN	
(38)	UNSIGNED Prot	1	UOW_BROWSE_CLIENT_NAME	

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	FIXED Publ	1	UNSHUNT_REASON	
The following request type contains a union of three different kinds of request: avail, indoubt resolution, and system restart requests. The union is empty except for avail requests.				
(0)	STRUCTURE Publ	72	UNSHUNT_REQUEST	
(0)	OBJECT Publ IsA(HOP_DCHAINNODE)	16	CHAIN_LINK	
(0)	CHARACTER Priv	4	*	
(8)	CHARACTER Prot	8	*	
(8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(10)	FIXED Publ IsA(UNSHUNT_REASON)	1	UREASON	
(11)	CHARACTER Publ	3	*	
(14)	CHARACTER Publ	52	*	
(14)	CHARACTER Publ	52	AVAIL	
(14)	UNSIGNED Publ	1	CLIENT_NAME	
(15)	FIXED Publ IsA(RM_YESNO)	1	REMOVE	
(16)	CHAR VARY Publ	45	LOCAL_ACCESS_ID	
(45)	FIXED Publ IsA(RM_YESNO)	1	GENERIC_LAI	
(46)	CHARACTER Publ	2	*	
---------- W A R N I N G The following declarations define the shape of parts of the RM log records. Careless changes would lead to the need to initial start CICS systems because the 'old' log records would be a different shape. ----------				
(0)	STRUCTURE Prot	17	RMUW_LOG_HEADER	
(0)	STRUCTURE Prot IsA(RMLG_DISCRIMINANT)	7	RMUW_LH_DISCRIMINANT	
(0)	UNSIGNED Publ	2	RMLG_HEADER_LENGTH	

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER Publ IsA(RMLG_SOURCE_TYPE)	1	RMLG_SOURCE	
(3)	CHARACTER Publ	4	RMLG_NAME	
(7)	CHARACTER Prot	8	RMUW_LH_ LOCAL_UOW_ID	
(F)	UNSIGNED Prot	1	RMUW_LH_ UOW_STATUS	
(10)	BIT(8) Prot	1	RMUW_LH_FLAGS	
	1... .... Prot		RMUW_LH_ HEURISM	
	.1.. .... Prot		RMUW_LH_ CHOICE_FORWARD	
	..1. .... Prot		RMUW_LH_ CONTEXT_PRESENT	
	...1 .... Prot		RMUW_LH_ CLIENT_ STATE_PRESENT	
	.... 1... Prot		RMUW_LH_ OTS_DATA_PRESENT	
	.... .1.. Prot		RMUW_LH_ SUMMARY_RECORD	
	.... ..1. Prot		RMUW_LH_ SUMMARY_COMPLETE	
	....1 Prot		*	
(11)	CHARACTER Prot	0	RMUW_LH_DATA	
(0)	STRUCTURE Prot	9	RMUW_LOG_STATUS	
(0)	CHARACTER Prot	8	RMUW_LS_TIME	
(8)	UNSIGNED Prot	1	RMUW_LS_ HEURISTIC_CAUSE	
(0)	STRUCTURE Prot	31	RMUW_CONTEXT	
(0)	CHARACTER Prot IsA(RMXN_CONTEXT)	20	TRAN_CONTEXT	
(0)	CHARACTER Publ	4	TERMID	Terminal id. of originating transaction
(4)	CHARACTER Publ	8	TERMINAL_ LUNAME	Terminal LU name of originating transaction

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	CHARACTER Publ	4	TRANNUM	Transaction number of originating transaction
(10)	CHARACTER Publ	4	TRANID	Transaction id. of originating transaction
(14)	CHARACTER Prot	8	*	
(14)	CHARACTER Prot	8	USERID	Userid of originating transaction
(14)	CHARACTER Prot	8	TRAN_TOKEN	Token for originating transaction
(1C)	CHARACTER Prot	3	OP_ID	Operator id. of originating transaction
(0)	STRUCTURE Prot	67	RMUW_LOG_CONTEXT	
(0)	STRUCTURE Prot IsA(RMUW_CONTEXT)	31	RMUW_LC_ UOW_CONTEXT	
(0)	STRUCTURE Prot IsA(RMXN_CONTEXT)	20	TRAN_CONTEXT	
(0)	CHARACTER Publ	4	TERMID	Terminal id. of originating transaction
(4)	CHARACTER Publ	8	TERMINAL_ LUNAME	Terminal LU name of originating transaction
(C)	CHARACTER Publ	4	TRANNUM	Transaction number of originating transaction
(10)	CHARACTER Publ	4	TRANID	Transaction id. of originating transaction
(14)	CHARACTER Prot	8	*	
(14)	CHARACTER Prot	8	USERID	Userid of originating transaction
(14)	CHARACTER Prot	8	TRAN_TOKEN	Token for originating transaction

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	CHARACTER Prot	3	OP_ID	Operator id. of originating transaction
(1F)	CHARACTER Prot	27	RMUW_LC_ REMOTE_UOW_ID	
(3A)	CHARACTER Prot	8	RMUW_LC_TIME	
(42)	BIT(8) Prot	1	RMUW_LC_FLAGS	
	1... .... Prot		RMUW_LC_ FIRST_UOW_FOR_TXN	
(0)	STRUCTURE Prot	22	RMUW_LOG_ CLIENT_STATE	
(0)	UNSIGNED Prot	1	RMUW_CS_COUNT	
(1)	CHARACTER Prot	21	RMUW_CS_STATES	
(0)	STRUCTURE Prot	80	RMUW_LOG_ OTS_DATA	
(0)	CHARACTER Prot	4	RMUW_OTS_ LOGICAL_SERVER	
(4)	UNSIGNED Prot	4	RMUW_OTS_ FORMAT_ID	
(8)	UNSIGNED Prot	4	RMUW_OTS_ BQUAL_LEN	
(C)	CHARACTER Prot IsA(UOW_PUBLIC_ID_TYPE)	64	RMUW_OTS_ PUBLIC_ID	
(4C)	SIGNED Prot	4	RMUW_OTS_ TID_LEN	
(50)	CHARACTER Prot	0	RMUW_OTS_ TID_STR	

Constants

Table 526.

Len	Type	value	Name	Description
4	CHAR HEX	00000000	NULL_UOW_ BROWSE_TOKEN	
1	DECIMAL	1	UNSHUNT_REASON_AVAIL	
1	DECIMAL	2	UNSHUNT_REASON_ INDOUBT_RES	
1	DECIMAL	3	UNSHUNT_REASON_ RESTART	
4	CHAR HEX	00000000	NULL_SYSTEM_ LOG_CHAIN_TOKEN	
4	CHARACTER	STAT	STATUS_LOG_RECORD	

Table 526. (continued)

Len	Type	value	Name	Description
4	CHARACTER	EXIS	EXISTENCE_ LOG_RECORD	
4	CHARACTER	MOVE	KEYPOINT_ MOVE_LOG_RECORD	
4	CHARACTER	COLD	LOCAL_COLD_ LOG_RECORD	
4	DECIMAL	200	MNO_RECON_ INDOUBT_UOWS	
4	DECIMAL	201	MNO_RECON_ POST_COMMIT_UOWS	
4	DECIMAL	202	MNO_RECON_ INFLIGHT_UOWS	
4	DECIMAL	203	MNO_SHUNTED_UOWS	
4	DECIMAL	204	MNO_NO_SHUNTED_UOWS	
4	DECIMAL	205	MNO_SUCCESSFUL_ KEYPOINT	
4	DECIMAL	228	MNO_RESYNC_ INDOUBT_UOWS	
4	DECIMAL	229	MNO_RESYNC_ CFAIL_BFAIL_UOWS	
4	DECIMAL	230	MNO_RESYNC_ INFLIGHT_UOWS	
4	DECIMAL	400	MNO_INCOMPLETE_ UOW_ERROR	
8	CHARACTER	RM0400	DCD_INCOMPLETE_ UOW_ERROR	
4	DECIMAL	1	RMUW_BUFFER_FULL	
4	DECIMAL	2	RMUW_INVALID_ DATA_LENGTH	
4	CHAR HEX	00000000	NULL_UOW_TOKEN	
4	CHARACTER	RMUW	UOW_LOGGABLE_ ID_NAME	
4	DECIMAL	301	MNO_FORCE_ PURGE_REJECTED	

RRAB Resource Definition Recovery definitions

```
CONTROL BLOCK NAME = DFHRRAB
DESCRIPTIVE NAME  = CICS Resource definition Recovery Anchor

Restricted Materials of IBM

FUNCTION =
     DFHRRAB describes the DSECT for the Resource definition
     Recovery Anchor Block. This block serves as an anchor
     for the set of Resource Recovery Anchor Blocks with Names
     (RABNs) and also two action-lists containing Resource
     Definition Action Lists (RDALs). These action-lists
     and RABNs describe the work undertaken during an Install
```

```
        process for communication resources (terminals,
        typeterms, connections and sessions). It also contains a
        flag which indicates whether Terminal Object Resolution
        needs to be driven at the end of the UOW. There is only
        one RRAB for each UOW, fresh requests reuse an existing
        RRAB.
        The RRAB also points to a list of Resource definition
        update blocks which list the definitions that have been
        locked during this UOW. This list is checked before an
        add to ensure that we are not attempting to add a defn
        which another UOW is attempting to delete.
        The Resource definition Recovery Anchor Block is built by
        Table Builder Services as part of the processing of an
        Install (or Delete) request. It is also built by Terminal
        Object Resolution during Install or Delete Requests. It is
        used as the Recovery Manager Client token for 'APRD'.
        The Resource definition Recovery Anchor Block is deleted
        when all the action-lists and RABN chain are empty the TOR
        flag is reset, the RDUB chain is empty, eith by TBS, TOR or
        DFHAPRD. At the same time Recovery Manager token is reset
        to zero.
   LIFETIME =
        Created when the first Table Builder or Terminal Object
        Resolution request that is recoverable is processed, or a
        lock is obtained.
        Deleted at end of transaction.
   STORAGE CLASS =
        Above 16M line.
   LOCATION =
        Issuing an INQUIRE_WORK_TOKEN to the recovery manager
        with Client Name 'APRD' returns the address of the
        Resource Recovery Anchor Block.
  ------------------------------------------------------------------
  ------------------------------------------------------------------
!:refstep.rrab ---------------------------------------- DFHRRAB 139 -
!
!
! This is the definition of the RRAB
!
!------------------------------------------------------------------
```

Table 527.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	41	DFHRRAB	
(0)	CHARACTER	8	RRAB_HDR	set to >DFHRRAB
(8)	ADDRESS	4	RRAB_CURRENT_ ACTION_LIST	
				ptr to non-atom current actions
(C)	ADDRESS	4	RRAB_CURRENT_ ACTION_LIST_END	
				ptr to end non-atom current actions
(10)	ADDRESS	4	RRAB_NAMED_LIST	ptr to rabn chain
(14)	ADDRESS	4	RRAB_CURRENT_ RABN	ptr to current rabn
(18)	ADDRESS	4	RRAB_DELAYED_ ACTION_LIST	

Table 527. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				ptr to non-atom actions for sync
(1C)	ADDRESS	4	RRAB_DELAYED_ ACTION_LIST_END	
				ptr to end non-atom actions for sync
(20)	ADDRESS	4	RRAB_RDUB	ptr to RDUBs
(24)	ADDRESS	4	RRAB_LAST_RDUB	ptr to RDUBs end
(28)	BIT(8)	1	RRAB_BITS	RAB flags
	1...		RRAB_TOR	1 means TOR interest
	.1..		RRAB_OPEN	1 means RAB active for TBS
	..1.		RRAB_FORGET	1 means RAB active for restart
	...1 1111		*	Reserved

```
!:erefstep.rrab ------------------------------------------------------
   CONTROL BLOCK NAME = DFHRABN
   DESCRIPTIVE NAME  = CICS Resource Recovery Atom Block Name

   Restricted Materials of IBM

   SOURCE = DFHRRAB DESIGN part of DFHAPRDR DESIGN
   FUNCTION =
        DFHRABN describes the DSECT for the Resource Recovery
        Atom Block Name. This block serves as an anchor for an
        action-list. It defines the set of actions that are
        performed for a named 'atom' of resource recovery for
        either a Pipe-Line or a Connection definition. It retains
        a flag that describes the back-out of the atom in case
        further actions for that atom arrive, so that they can
        be prevented.
        The Resource Recovery Atom Block Name is built by Table
        Builder Services as part of the processing of an Install
        request. It is added to a chain from the Resource
        definition Recovery Anchor Block (RRAB), and pointed to as
        the active RABN.
        The Resource Recovery Anchor Block is deleted when an
        END_ATOMS call is made or the UOW ends. The action-list
        is transfered to the delayed-action-list on the RRAB.
   LIFETIME =
        Created when the first Table Builder or Terminal Object
        Resolution request that is recoverable for an atom is
        processed.
        Deleted at end of a UOW.
   STORAGE CLASS =
        Above 16M line.
   LOCATION =
        Chained from the RRAB.
   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 528.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	DFHRABN	
(0)	CHARACTER	8	RABN_HEADER	Set to >DFHRABN
(8)	ADDRESS	4	RABN_FWD_PTR	RABN chain ptr
(C)	CHARACTER	9	RABN_ATOM_ID	Name of atom
(15)	BIT(8)	1	RABN_BITS	Flag bit for RABN
	1...		RABN_BACKED_OUT	1 means backout atom
	.111 1111		*	Reserved
(16)	BIT(16)	2	*	Reserved
(18)	ADDRESS	4	RABN_ACTION_LIST	ptr to action list
(1C)	ADDRESS	4	RABN_ACTION_LIST_END	
				ptr to end action

Constants

Table 529.

Len	Type	value	Name	Description
8	CHARACTER	>DFHRRAB	RRAB_NAME	
8	CHARACTER	>DFHRABN	RABN_NAME	

RXAS RX Domain Authorised Services Instance

Table 530.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	464	RXAS	

Table 530. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.rxas_instance_data ------------------------- DFHRXAS 665 - ! ! The instance data comprises: ! ! - An eyecatcher ! ! - Address and length of dynamic storage. This is provided so that ! the dynamic storage can be displayed in a dump. ! ! - An error handler ! ! - A storage manager ! ! - A resource manager ! ! - A collection of units of recovery ! ! - The user's key ! !--				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	460	INSTANCE_DATA	
(0)	CHARACTER Prot	24	EYECATCHER	
(18)	CHARACTER Prot	8	DYNAMIC_STORAGE	
(18)	ADDRESS Prot	4	DS_PTR	
(1C)	SIGNED Prot	4	DS_LEN	
(20)	OBJECT Prot IsA(RXEH)	32	ERROR_HANDLER	
!:refstep.rxeh_instance_data ------------------------- DFHRXEH 156 - ! ! The instance data contains: ! ! - An eyecatcher ! ! - A response ! ! - A reason code ! ! - The RRS/MVS request associated with the response and reason ! ! - The RRS/MVS return code ! ! The instance data is public, since many classes may desire to ! access the data directly. ! !--				
(20)	CHARACTER Publ	28	INSTANCE_DATA	
(20)	CHARACTER Priv	8	EYECATCHER	
(28)	SIGNED Publ	4	RESPONSE	

Table 530. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	SIGNED Publ	4	REASON	
(30)	CHARACTER Publ	8	RRS_REQUEST	
(38)	SIGNED Publ	4	RRS_RESPONSE	
(40)	OBJECT Prot IsA(RXSM2)	64	STORAGE_MANAGER	
Inherited Data				
(40)	CHARACTER Priv	4	*	
!:refstep.rxsm2_instance_data ------------------------ DFHRXSM 479 - ! ! The instance data contains: ! ! - An eyecatcher ! ! - A reference to an error handler ! The &bblx..variables. These are objects of the types ! instantiated previously: ! ! - A storage interface object used by the extension manager ! ! - An extension storage manager object used by the storage manager ! ! - The storage manager itself. ! !----------				
(48)	CHARACTER Prot	52	INSTANCE_ DATA_BLOCK	
(48)	ADDRESS Prot	4	EH_PTR	
(4C)	CHARACTER Prot	8	EYECATCHER	
(54)	CHARACTER Prot	4	*	
? XTM_SIF: VAR (OBJECT extension_storage_interface)				
? BPQSIF BBLX_KEY(BB_SET_UP_4)				
? BPQSIF BBLX_KEY(BB_SET_UP_ADT_2)				
? BPQSIF BBLX_KEY(BB_SET_UP_ADT_3)				
(58)	CHARACTER Prot	28	XTM_SIF	
? XTN_MGR: VAR (ACCESS extension_manager) FOR(extension_storage_i nterface VAR xtm_sif)				
? BPQSBT1 BBLX_KEY(BB_SET_UP_4)				
? BPQSBT1 BBLX_KEY(BB_SET_UP_ADT_2)				
? BPQSBT1 BBLX_KEY(BB_SET_UP_ADT_3)				
(74)	ADDRESS Prot	4	XTN_MGR	
? STG_MGR: VAR (ACCESS dynamic_stg_mgr) FOR(Extension_Manager VAR xtn_mgr)				
? BPQDSP1 BBLX_KEY(BB_SET_UP_4)				

Table 530. (continued)

Offset Hex	Type	Len	Name (dim)	Description
? BPQDSP1 BBLX_KEY(BB_SET_UP_ADT_2)				
? BPQDSP1 BBLX_KEY(BB_SET_UP_ADT_3)				
(78)	ADDRESS Prot	4	STG_MGR	
(80)	OBJECT Prot IsA(RXRM)	272	RESOURCE_ MANAGER	

```
!:refstep.rxrm_instance_data ------------------------- DFHRXRM 209 -
!
! The instance data contains:
!
! - An eye catcher
!
! - A pointer to an error handler
!
! - The applid
!
! - The resource manager name
!
! - The resource manager token
!
! - The resource manager global data
!
! - A pointer to an error handler
!
! - The address of the generic registration services exit
!
! - The address of the generic resource manager exit
!
! - The exit manager name.
!
! - Three arrays of exit information
!
! - The exit number
!
! - The exit entry point
!
! - The exit type
!
! - Status flags indicating
!
! - Whether the exits have been set
!
! - Whether the exit manager is available
!
! - An ecb to be posted by resource manager exits
!
! - The RRS/MVS logname
!
! - A pointer to the RX domain's anchor
!
!-----------------------------------------------------------------------
```

(80)	CHARACTER Prot	272	INSTANCE_DATA	
(80)	CHARACTER Prot	8	EYECATCHER	
(88)	ADDRESS Prot	4	EH_PTR	
(8C)	CHARACTER Prot	8	APPLID	

Table 530. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(94)	CHARACTER Prot	32	RMNAME	
(B4)	CHARACTER Prot	16	TOKEN	
(C4)	STRUCTURE Prot IsA(RXRM_GLOBAL_DATA)	16	GLOBAL_DATA	
(C4)	ADDRESS Prot	4	RXRM_ADDRESS	
(C8)	ADDRESS Prot	4	*	
(CC)	ADDRESS Prot	4	*	
(D0)	ADDRESS Prot	4	*	
(D4)	SIGNED Prot	4	RG_EXIT	
(D8)	SIGNED Prot	4	RM_EXIT	
(DC)	CHARACTER Prot	16	EXIT_MANAGER_ NAME	
(EC)	CHARACTER Prot	4	*	
(F0)	OBJECT Prot IsA(RXEC2)	16	ECB	

```
!:refstep.rxec2_instance_data ------------------------ DFHRXEC 514 -
!
! The instance data contains:
!
! - An eyecatcher
!
! - A reference to an ECB
!
! - The key of the ECB
!
!-------------------------------------------------------------------
```

(F0)	CHARACTER Prot	16	INSTANCE_ DATA	
(F0)	CHARACTER Prot	8	EYECATCHER	
(F8)	ADDRESS Prot	4	ECB_PTR	
(FC)	ADDRESS Prot	4	ECB_KEY	
(100)	OBJECT Prot IsA(RXLG)	76	LOGNAME	

```
!:refstep.rxlg_instance_data ------------------------- DFHRXLG 101 -
!
  Restricted Materials of IBM
!
! The instance data contains:
!
! - An eyecatcher
!
! - A length
!
! - A name of up to 64 characters
!
!-------------------------------------------------------------------
```

Table 530. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(100)	CHARACTER Prot	76	INSTANCE_ DATA	
(100)	CHARACTER Prot	8	EYECATCHER	
(108)	SIGNED Prot	4	LEN	
(10C)	CHARACTER Prot	64	NAME	
(14C)	CHARACTER Prot	60	EXITS	
(14C)	SIGNED Prot	4	NUMBER (5)	
(160)	SIGNED Prot	4	ENTRY_POINT (5)	
(174)	SIGNED Prot	4	TYPE (5)	
(188)	UNSIGNED Prot	1	EXITS_SET	
(189)	UNSIGNED Prot	1	EXIT_MANAGER_ AVAILABLE	
(18A)	CHARACTER Prot	2	*	
(18C)	ADDRESS Prot	4	RXDM_PTR	
(190)	OBJECT Prot IsA(RXUC)	56	UR_COLLECTION	
!:refstep.rxuc_instance_data ------------------------ DFHRXUR 3502 - ! ! The instance data contains: ! ! - An eyecatcher ! ! - A HOP_DChain ! ! - A pointer to an error handler object. ! ! - A pointer to a storage manager object. ! !--				
(190)	CHARACTER Prot	56	INSTANCE_DATA	
(190)	CHARACTER Prot	8	EYECATCHER	
(198)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
(198)	CHARACTER Priv	4	*	
(1A0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(1A0)	CHARACTER Priv	4	*	
(1A8)	CHARACTER Prot	8	*	

Table 530. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1A8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(1AC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(1B0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(1B0)	CHARACTER Priv	4	*	
(1B8)	CHARACTER Prot	8	*	
(1B8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(1BC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(1C0)	ADDRESS Prot	4	EH_PTR	
(1C4)	ADDRESS Prot	4	SM_PTR	
(1C8)	ADDRESS Prot	4	USERS_KEY	

Constants

Table 531.

Len	Type	value	Name	Description
? BPQSBT1 BBLX_KEY(BB_SET_UP_0)				
4	DECIMAL	0	NUL_CON@BPQSBT1	

RXDM RX Domain Management Instance

```
!:erefstep.rxdm_collaborators ----------------------------------------
```

Table 532.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	384	RXDM	
!:refstep.rxdm_instance_data ------------------------- DFHRXDM 275 - ! ! This structure is the global data for the RX Domain, ie the RX ! Domain anchor block. ! !--				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	378	INSTANCE_DATA	
(0)	CHARACTER Prot	24	RXDM_EYE_ CATCHER	eyecatcher
(18)	ADDRESS Prot	4	AUTH_STG_PTR	ptr to key0 anchor

Table 532. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	CHARACTER Prot	8	APPLID	CICS applid
(24)	CHARACTER Prot	8	*	Reserved
(2C)	ADDRESS Prot	4	LOCK_TOKEN	Domain lock token
(30)	BIT(8) Prot	1	*	Reserved
(31)	UNSIGNED Prot	1	RRMS_REQUIRED	RRMS SIT setting
(32)	UNSIGNED Prot	1	RRS_DATA_LOST	RRS data lost
(33)	CHARACTER Prot	1	*	Reserved
(34)	OBJECT Prot IsA(RXLG)	76	RRS_LOGNAME	Logname instance
!:refstep.rxlg_instance_data ------------------------- DFHRXLG 101 - ! Restricted Materials of IBM ! ! The instance data contains: ! ! - An eyecatcher ! ! - A length ! ! - A name of up to 64 characters ! !--				
(34)	CHARACTER Prot	76	INSTANCE_DATA	
(34)	CHARACTER Prot	8	EYECATCHER	
(3C)	SIGNED Prot	4	LEN	
(40)	CHARACTER Prot	64	NAME	
(80)	OBJECT Prot IsA(RXSM1)	24	STORAGE_MANAGER	SM manager instance
Inherited Data				
(80)	CHARACTER Priv	4	*	
!:refstep.rxsm1_instance_data ------------------------ DFHRXSM 167 - ! ! The instance data contains: ! ! - An eyecatcher ! ! - The subpool token ! !--				
(88)	CHARACTER Prot	16	INSTANCE_DATA	

Table 532. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	CHARACTER Prot	8	EYECATCHER	
(90)	CHARACTER Prot	8	SUBPOOL_TOKEN	
(98)	OBJECT Prot IsA(RXSV)	16	RXDM_SVC	SVC instance
!:refstep.rxsv_instance_data ------------------------- DFHRXSV 109 - ! ! The instance data contains: ! ! - An eyecatcher ! ! - The SVC instruction, comprising the opcode, and the SVC number ! !--				
(98)	CHARACTER Prot	10	INSTANCE_DATA	
(98)	CHARACTER Prot	8	EYECATCHER	
(A0)	CHARACTER Prot	2	SVC_INSTRUCTION	
(A0)	UNSIGNED Prot	1	OPCODE	
(A1)	UNSIGNED Prot	1	NUMBER	
(A8)	OBJECT Prot IsA(RXEC1)	48	NOTIFICATION_ECB	notify ECB instance
(A8)	CHARACTER Priv	4	*	
!:refstep.rxec1_instance_data ------------------------ DFHRXEC 162 - ! Restricted Materials of IBM ! ! The instance data contains: ! ! - An eyecatcher ! ! - An ECB ! !--				
(B0)	CHARACTER Prot	36	INSTANCE_DATA	
(B0)	CHARACTER Prot	8	EYECATCHER	
(B8)	CHARACTER Prot	8	RESOURCE_TYPE	
(C0)	CHARACTER Prot	16	RESOURCE_NAME	
(D0)	BIT(32) Prot	4	ECB	
(D0)	BIT(8) Prot	1	*	
	1... .... Prot		*	
	.1.. .... Prot		POSTED	

Table 532. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..11 1111 Prot		*	
(D8)	OBJECT Prot IsA(RXEC1)	48	RESYNC_ECB	Resync ECB instance
(D8)	CHARACTER Priv	4	*	
(E0)	CHARACTER Prot	36	INSTANCE_DATA	
(E0)	CHARACTER Prot	8	EYECATCHER	
(E8)	CHARACTER Prot	8	RESOURCE_TYPE	
(F0)	CHARACTER Prot	16	RESOURCE_NAME	
(100)	BIT(32) Prot	4	ECB	
(100)	BIT(8) Prot	1	*	
	1... .... Prot		*	
	.1.. .... Prot		POSTED	
	..11 1111 Prot		*	
(108)	OBJECT Prot IsA(RXUC)	56	UR_COLLECTION	Active RXURs
!:refstep.rxuc_instance_data ------------------------ DFHRXUR 3502 - ! ! The instance data contains: ! ! - An eyecatcher ! ! - A HOP_DChain ! ! - A pointer to an error handler object. ! ! - A pointer to a storage manager object. ! !--				
(108)	CHARACTER Prot	56	INSTANCE_DATA	
(108)	CHARACTER Prot	8	EYECATCHER	
(110)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
(110)	CHARACTER Priv	4	*	
(118)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(118)	CHARACTER Priv	4	*	
(120)	CHARACTER Prot	8	*	
(120)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	

Table 532. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(124)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(128)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(128)	CHARACTER Priv	4	*	
(130)	CHARACTER Prot	8	*	
(130)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(134)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(138)	ADDRESS Prot	4	EH_PTR	
(13C)	ADDRESS Prot	4	SM_PTR	
(140)	OBJECT Prot IsA(RXUC)	56	RESYNC_ COLLECTION	Resync RXURs
(140)	CHARACTER Prot	56	INSTANCE_DATA	
(140)	CHARACTER Prot	8	EYECATCHER	
(148)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
(148)	CHARACTER Priv	4	*	
(150)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(150)	CHARACTER Priv	4	*	
(158)	CHARACTER Prot	8	*	
(158)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(15C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(160)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(160)	CHARACTER Priv	4	*	
(168)	CHARACTER Prot	8	*	
(168)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(16C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(170)	ADDRESS Prot	4	EH_PTR	
(174)	ADDRESS Prot	4	SM_PTR	

Table 532. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(178)	UNSIGNED Prot	1	EXIT_MGR_STATE	Exit manager state
(179)	FIXED Prot IsA(RESTART_STATE_TYPE)	1	RESTART_STATE	RRS restart state
SHARED DATA				
Declared Data				
(0)	FIXED Prot	1	RESTART_ STATE_TYPE	

Constants

Table 533.

Len	Type	value	Name	Description
1	DECIMAL	0	RX_NO	
1	DECIMAL	1	RX_YES	
4	DECIMAL	1	RX_TERMINAL	
4	DECIMAL	0	RX_XLN_MATCH	
4	DECIMAL	1	RX_XLN_MISMATCH	
4	DECIMAL	2	RX_XLN_INITIAL_START	
1	DECIMAL	0	RESYNC_UNRESOLVED	
1	DECIMAL	1	RESYNC_COMMIT	
1	DECIMAL	2	RESYNC_BACKOUT	
1	DECIMAL	3	RESYNC_COLD	
1	DECIMAL	5	RESYNC_HEURISTIC_ COMMIT	
1	DECIMAL	6	RESYNC_HEURISTIC_ BACKOUT	
1	DECIMAL	7	RESYNC_HEURISTIC_ MIXED	
0	BIT	0	FALSE	
0	BIT	1	TRUE	
!:refstep.message_and_dump_constants ---------- DFHRXCON 115 - ! Restricted Materials of IBM ! ! Message and Dump Constants ! !----------				
2	CHARACTER	RX	COMPID	
4	DECIMAL	1	MNO_ABEND	
8	CHARACTER	RX0001	DCD_ABEND	
4	DECIMAL	2	MNO_SEVERE_ERROR	
8	CHARACTER	RX0002	DCD_SEVERE_ERROR	

Table 533. (continued)

Len	Type	value	Name	Description
8	CHARACTER	RX0102	DCD_INITIALISATION_ FAILED	
4	DECIMAL	100	MNO_INITIALISATION_ STARTED	
4	DECIMAL	101	MNO_INITIALISATION_ ENDED	
4	DECIMAL	102	MNO_INITIALISATION_ FAILED	
4	DECIMAL	103	MNO_UNEXPECTED_ RRS_ERROR	
4	DECIMAL	104	MNO_EXIT_ MANAGER_AVAILABLE	
4	DECIMAL	105	MNO_EXIT_ MANAGER_UNAVAILABLE	
4	DECIMAL	106	MNO_RESTART_STARTED	
4	DECIMAL	107	MNO_RESTART_ENDED	
4	DECIMAL	108	MNO_LOGNAME_MISMATCH	
4	DECIMAL	109	MNO_INVALID_ PASS_TOKEN	
4	DECIMAL	110	MNO_WRONG_SYSTEM	
4	DECIMAL	111	MNO_RRS_LOST_DATA	
!:erefstep.message_and_dump_constants ------------------------------ !:refstep.trace_point_ids --------------------------- DFHRXCON 143 - ! ! Trace Point Id's ! ! All of the trace points within RX domain are declared here. Refer ! to DFHRXTRI for further details about a particular trace point. ! !-- ==! ! DFHRXDM trace points ('0101'x to '01FF'x) ! ! ==!				
2	NUMB HEX	0101	TID_RXDM_ENTRY	
2	NUMB HEX	0102	TID_RXDM_EXIT	
2	NUMB HEX	0103	TID_RXDM_ INVALID_FORMAT	
2	NUMB HEX	0104	TID_RXDM_ INVALID_FUNCTION	
2	NUMB HEX	0105	TID_RXDM_ NO_STORAGE_FOR_ ANCHOR	
2	NUMB HEX	0106	TID_RXDM_ INQUIRE_ERROR	
2	NUMB HEX	0107	TID_RXDM_ INQUIRE_LOGNAME_ ERROR	

Table 533. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	0108	TID_RXDM_ SET_LOGNAME_	ERROR
2	NUMB HEX	0109	TID_RXDM_ COMPARE_LOGN	AMES_ ERROR
2	NUMB HEX	010A	TID_START_ NOTIFICATION_	TASK
2	NUMB HEX	010B	TID_END_NOTIF	ICATION_ TASK
2	NUMB HEX	010C	TID_START_ RESYNC_TASK	
2	NUMB HEX	010D	TID_END_RESYN	C_TASK
2	NUMB HEX	010E	TID_START_ RESTART_TASK	
2	NUMB HEX	010F	TID_END_RESTA	RT_TASK
2	NUMB HEX	0110	TID_START_ RRS_FAILURE_TA	SK
2	NUMB HEX	0111	TID_END_RRS_ FAILURE_TASK	
2	NUMB HEX	0112	TID_BEGIN_ RESOLVE_UNMA	TCHED
2	NUMB HEX	0113	TID_END_RESOL	VE_ UNMATCHED
2	NUMB HEX	0114	TID_RXUR_INIT_	RESYNC
2	NUMB HEX	0115	TID_RXUR_ ENTER_RESYNC	
2	NUMB HEX	0116	TID_RXUR_EXIT_	RESYNC
``` ==========! ! SVC trace points ('0201'x to '02FF'x) ! ! Note that, because code in the SVC can't issue trace requests, ! these trace points are actually used in the modules that ! invoke the SVC ! ! ==========! ```				
2	NUMB HEX	0201	TID_RXDM_PRE_	SVC
2	NUMB HEX	0202	TID_RXDM_POST	_SVC
2	NUMB HEX	0203	TID_RXDM_ SVC_EXCEPTION	
2	NUMB HEX	0211	TID_RXUW_PRE_	SVC
2	NUMB HEX	0212	TID_RXUW_POST	_SVC
2	NUMB HEX	0213	TID_RXUW_ SVC_EXCEPTION	

Table 533. (continued)

Len	Type	value	Name	Description
==========! ! Exit event trace points ('0301'x to '03FF'x) ! ! Note that, because exit code can't issue trace requests, ! these trace points are actually used in the modules that ! responds to the exit ! ! ==========!				
2	NUMB HEX	0301	TID_RXDM_NOTIFY	
2	NUMB HEX	0302	TID_RXDM_RESYNC	
==========! ! DFHRXUW trace points ('0401'x to '04FF'x) ! ! ==========!				
2	NUMB HEX	0401	TID_RXUW_ENTRY	
2	NUMB HEX	0402	TID_RXUW_EXIT	
2	NUMB HEX	0403	TID_RXUW_ INVALID_FORMAT	
2	NUMB HEX	0404	TID_RXUW_ INVALID_FUNCTION	
2	NUMB HEX	0405	TID_RXUW_ UR_ADD_ERROR	
2	NUMB HEX	0406	TID_RXUW_RRS_ERROR	
2	NUMB HEX	0407	TID_RXUW_ WRONG_PASS_TOKEN	
2	NUMB HEX	0408	TID_RXUW_ EXPRESS_INTEREST_ ERROR	
2	NUMB HEX	0409	TID_RXUW_ ADD_LINK_ERROR	
2	NUMB HEX	040A	TID_USERID_ INCONSISTENT	
2	NUMB HEX	040B	TID_TRANID_ INCONSISTENT	
2	NUMB HEX	040C	TID_INVALID_ CLIENT_ADDRESS	
2	NUMB HEX	040D	TID_RRMS_NOT_OPEN	
2	NUMB HEX	040E	TID_RXUW_SET_UOWID	
==========! ! Resource Manager Exit trace points ('0501'x to '05FF'x) ! ! N.B. GTF only! ! ! ==========!				
2	NUMB HEX	0501	TID_RXEX_ RM_EXIT_ENTRY	

Table 533. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	0502	TID_RXEX_ RM_EXIT_RETURN	
==========! ! Registration Services Exit trace points ('0601'x to '06FF'x) ! ! N.B. GTF only! ! ! ==========!				
2	NUMB HEX	0601	TID_RXEX_ RG_EXIT_ENTRY	
2	NUMB HEX	0602	TID_RXEX_ RG_EXIT_RETURN	
==========! ! RRS call trace points ('0701'x to '07FF'x) ! ! N.B. GTF only! ! ! ==========!				
2	NUMB HEX	0701	TID_RXRM_RRS_CALL	
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	
4	DECIMAL	8	NODE_OFFSET	
0	BIT	0000	NOT_EXPRESSED	
0	BIT	0001	EXPRESSED	
0	BIT	0001	UOW_EXECUTE	
0	BIT	0010	UOW_SHUNTED	
0	BIT	0100	UOW_BACKOUT	
0	BIT	0001	SMODE_RESET	
0	BIT	0010	SMODE_IN_FLIGHT	
0	BIT	0100	SMODE_IN_SYNCPOINT	
0	BIT	1000	SMODE_IN_RESYNC	
The values are encoded to correspond to the RRS/MVS exit numbers				
0	BIT	0000	SP_INIT_NONE	= 0
0	BIT	0010	SP_INIT_PREPARE_ EXIT	= 2
0	BIT	0101	SP_INIT_BACKOUT_ EXIT	= 5
0	BIT	1001	SP_INIT_ONLY_ AGENT_EXIT	
				= 9
0	BIT	1111	SP_INIT_RRS_ FAILURE	= F

Table 533. (continued)

Len	Type	value	Name	Description
!:refstep.rxur_state_result ------------------------- DFHRXUR 444 - ! ! When we have been driven for prepare by RRS/MVS, we will vote ! and await the decision. That decision is indicated by result : ! ! undecided ! The initial state - we do not have a decision ! commit ! RRS/MVS has told us to commit ! backout ! RRS/MVS has told us to backout ! failed ! RRS/MVS failed before it could give us a decision. Because we ! use presumed abort protocol, this is treated as a backout ! decision. ! !----------				
0	BIT	0000	RESULT_UNDECIDED	
0	BIT	0001	RESULT_COMMIT	
0	BIT	0010	RESULT_BACKOUT	
0	BIT	0100	RESULT_FAILED	
4	DECIMAL	0	EXIT_MGR_ STATE_UNKNOWN	
4	DECIMAL	1	EXIT_MGR_UNAVAILABLE	
4	DECIMAL	2	EXIT_MGR_AVAILABLE	
1	DECIMAL	0	NOT_RESTARTED	
1	DECIMAL	1	RESTART_IN_PROGRESS	
1	DECIMAL	2	RESTARTED_WARM	
1	DECIMAL	3	RESTARTED_COLD	
1	DECIMAL	4	RESTART_FAILED	

RXUR1 RX Domain Unit of Recovery CICS key state

Table 534.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	232	RXUR1	
!:refstep.rxur_instance_data ------------------------- DFHRXUR 176 - ! Restricted Materials of IBM ! ! The instance data contains: ! ! - An eyecatcher ! ! - A HOP_DChainNode ! !----------				
INSTANCE DATA				
Inherited Data				

Table 534. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE Prot	24	INSTANCE_DATA	
(0)	CHARACTER Prot	8	EYECATCHER	
(8)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	CHAIN_ELEMENT	
(8)	CHARACTER Priv	4	*	
(10)	CHARACTER Prot	8	*	
(10)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(14)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	

Table 534. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.rxur1_instance_data ------------------------ DFHRXUR 329 - ! ! The instance data contains: ! ! - Two ECBs: ! ! - A global ECB that is posted when an exit is driven for a UR ! that has been shunted, and is waited on by the global resync ! task. ! ! - A local ECB that is posted when an exit is driven for a UR ! that is not shunted, and is waited on by a user task. ! ! - A series of fields indicating the state of the UR. To prevent ! problems resulting from concurrent updating of these fields, ! they are confined to a single word in storage where they can be ! manipulated using Compare and Swap. ! ! - A reference to a URIX object in key 0 storage. ! ! - The network UOW id ! ! - The link id by which this UR is known to the CICS recovery ! manager ! ! - The RRS/MVS Unit of Recovery ID ! ! - The CICS Recovery Manager Link token ! ! The UR state consists of the following: ! ! ur_interest ! Indicates if the UR is in the window between expression of ! interest and deletion of interest. ! uow_mode ! Indicates if the UR is progressing through the normal sequence ! of execution culminating with a syncpoint, or that the sequence ! has been broken by CICS forcing backout or the UR, or by the UR ! being shunted. The uow_mode indicates the action to be taken in ! the resource manager exits. ! sp_init_exit ! Indicates which RRS/MVS exit initiated syncpoint. It can also ! indicate that RRS/MVS has failed. ! ! This state may be updated concurrently by the CICS QR TCB and an ! RRS/MVS exit running under an SRB. Updates are therfore made ! atomic using Compare and Swap. ! !----------				
Declared Data				
(18)	STRUCTURE Prot	208	INSTANCE_DATA	
(18)	CHARACTER Prot	16	CONTEXT_TOKEN	UOR context token
(28)	CHARACTER Prot	16	URID	id of UOR
(38)	ADDRESS Prot	4	URIX	ptr to URIX in key 0 stg

Table 534. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	ADDRESS Prot	4	GLOBAL_ECB_PTR	ecb for when UR is shunted
(40)	OBJECT Prot IsA(RXEC1)	48	LOCAL_ECB	resource recovery exit's ECB
(40)	CHARACTER Priv	4	*	
!:refstep.rxec1_instance_data ------------------------ DFHRXEC 162 - ! Restricted Materials of IBM ! ! The instance data contains: ! ! - An eyecatcher ! ! - An ECB ! !----------				
(48)	CHARACTER Prot	36	INSTANCE_DATA	
(48)	CHARACTER Prot	8	EYECATCHER	
(50)	CHARACTER Prot	8	RESOURCE_TYPE	
(58)	CHARACTER Prot	16	RESOURCE_NAME	
(68)	BIT(32) Prot	4	ECB	
(68)	BIT(8) Prot	1	*	
	1... .... Prot		*	
	.1.. .... Prot		POSTED	
	..11 1111 Prot		*	
(70)	BIT(32) Prot	4	CRITICAL_STATE	UOR state
	1111 .... Prot		UR_INTEREST	
	.... 1111 Prot		UOW_MODE	
(71)	1111 .... Prot		SMODE	
	.... 1111 Prot		SP_INIT_EXIT	
(72)	1111 .... Prot		RESULT	
	.... 1111 Prot		*	
(73)	BIT(8) Prot	1	*	
(74)	UNSIGNED Prot	1	EXIT_TRACE	Trace setting
(75)	CHARACTER Prot	3	*	
(78)	CHARACTER Prot	48	RE_STATE	
(78)	CHARACTER Prot	27	UOWID	network uowid

Table 534. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(93)	CHAR VARY Prot	18	*	
(A7)	CHARACTER Prot	1	*	
(A8)	CHARACTER Prot	12	RD_STATE	
(A8)	UNSIGNED Prot	4	LINK_TOKEN	CICS RM link token
(AC)	CHARACTER Prot	8	*	
(B4)	CHARACTER Prot	38	CLIENT_STATE	
(B4)	ADDRESS Prot	4	CLIENT_ADDRESS	Client TCTTE address
(B8)	SIGNED Prot	4	CLIENT_LENGTH	
(BC)	SIGNED Prot	4	CLIENT_TYPE	
(C0)	CHARACTER Prot	1	*	
(C1)	CHARACTER Prot	3	*	
(C4)	CHARACTER Prot	16	CONSISTENCY_ DATA	
(C4)	CHARACTER Prot	4	*	
(C8)	CHARACTER Prot	8	USERID	Userid
(D0)	CHARACTER Prot	4	TRANSACTION	Transaction id
(D4)	CHARACTER Prot	4	*	
(D8)	UNSIGNED Prot	1	BACKOUT_ REQUIRED	
(D9)	UNSIGNED Prot	1	SERVER_READY	Server task state
(DA)	CHARACTER Prot	2	RESYNC_STATUS	resync status of UOR
(DA)	UNSIGNED Prot	1	LOCAL	
(DB)	UNSIGNED Prot	1	REMOTE	
(DC)	SIGNED Prot	4	LAST_EXIT	Last exit driven for UOR
(E0)	UNSIGNED Prot	4	TIMEOUT	Timeout value for RRS decision
(E4)	CHARACTER Prot	4	TRANSACTION_ NUMBER	
				Tran number for UOR

Constants

Table 535.

Len	Type	value	Name	Description
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	
4	DECIMAL	8	NODE_OFFSET	
0	BIT	0000	NOT_EXPRESSED	
0	BIT	0001	EXPRESSED	
0	BIT	0001	UOW_EXECUTE	
0	BIT	0010	UOW_SHUNTED	
0	BIT	0100	UOW_BACKOUT	
0	BIT	0001	SMODE_RESET	
0	BIT	0010	SMODE_IN_FLIGHT	
0	BIT	0100	SMODE_IN_SYNCPOINT	
0	BIT	1000	SMODE_IN_RESYNC	
The values are encoded to correspond to the RRS/MVS exit numbers				
0	BIT	0000	SP_INIT_NONE	= 0
0	BIT	0010	SP_INIT_PREPARE_EXIT	= 2
0	BIT	0101	SP_INIT_BACKOUT_EXIT	= 5
0	BIT	1001	SP_INIT_ONLY_AGENT_EXIT	
				= 9
0	BIT	1111	SP_INIT_RRS_FAILURE	= F
!:refstep.rxur_state_result ---------- DFHRXUR 444 - ! ! When we have been driven for prepare by RRS/MVS, we will vote ! and await the decision. That decision is indicated by result : ! ! undecided ! The initial state - we do not have a decision ! commit ! RRS/MVS has told us to commit ! backout ! RRS/MVS has told us to backout ! failed ! RRS/MVS failed before it could give us a decision. Because we ! use presumed abort protocol, this is treated as a backout ! decision. ! !----------				
0	BIT	0000	RESULT_UNDECIDED	
0	BIT	0001	RESULT_COMMIT	
0	BIT	0010	RESULT_BACKOUT	
0	BIT	0100	RESULT_FAILED	

RXUR2 RX Domain Unit of Recovery Key0 state

Table 536.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	64	RXUR2	
!:refstep.rxur_instance_data ------------------------- DFHRXUR 176 - ! Restricted Materials of IBM ! ! The instance data contains: ! ! - An eyecatcher ! ! - A HOP_DChainNode ! !----------				
INSTANCE DATA				
Inherited Data				
(0)	STRUCTURE Prot	24	INSTANCE_DATA	
(0)	CHARACTER Prot	8	EYECATCHER	
(8)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	CHAIN_ELEMENT	
(8)	CHARACTER Priv	4	*	
(10)	CHARACTER Prot	8	*	
(10)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(14)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
!:refstep.rxur2_instance_data ----------------------- DFHRXUR 2231 - ! ! The instance data contains: ! ! - A unit of recovery interest token ! ! - The address of a unit of recovery object in CICS storage. ! ! - The key of the unit of recovery object in CICS storage. ! !----------				
Declared Data				
(18)	STRUCTURE Prot	36	INSTANCE_DATA	
(18)	CHARACTER Prot	16	URI_TOKEN	UOR interest token
(28)	CHARACTER Prot	16	NP_DATA	
(28)	ADDRESS Prot	4	SELF_PTR	

Table 536. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	ADDRESS Prot	4	RXUR_PTR	Address of RXUR in CICS stg
(30)	ADDRESS Prot	4	*	
(34)	ADDRESS Prot	4	*	
(38)	ADDRESS Prot	4	RXUR_KEY	Key of RXUR in CICS stg

Constants

Table 537.

Len	Type	value	Name	Description
? BPQSBT1 BBLX_KEY(BB_SET_UP_0)				
4	DECIMAL	0	NUL_CON@BPQSBT1	
4	DECIMAL	1	RX_OK	
4	DECIMAL	2	RX_EXCEPTION	
4	DECIMAL	3	RX_DISASTER	
4	DECIMAL	6	RX_PURGED	
4	DECIMAL	0	RX_NO_REASON	
4	DECIMAL	1	RX_INIT_ERROR	
4	DECIMAL	2	RX_ALLOCATE_ERROR	
4	DECIMAL	3	RX_FREE_ERROR	
4	DECIMAL	4	RX_INSUFFICIENT_ STORAGE	
4	DECIMAL	5	RX_ALREADY_ REGISTERED	
4	DECIMAL	6	RX_NO_MORE_INTERESTS	
4	DECIMAL	7	RX_WRONG_PASS_TOKEN	
4	DECIMAL	8	RX_BACKOUT	
4	DECIMAL	9	RX_SVC_ERROR	
4	DECIMAL	10	RX_NOT_SUPPORTED	
4	DECIMAL	11	RX_NOT_AVAILABLE	
4	DECIMAL	12	RX_FESTAE_FAILED	
4	DECIMAL	13	RX_NOT_AUTHORISED	
4	DECIMAL	14	RX_GETMAIN_FAILED	
4	DECIMAL	15	RX_NOT_INITIALISED	
4	DECIMAL	16	RX_INVALID_FUNCTION	
4	DECIMAL	17	RX_NOT_REGISTERED	
4	DECIMAL	18	RX_CLOSED	
4	DECIMAL	19	RX_SYNCPOINT	

Table 537. (continued)

Len	Type	value	Name	Description
4	DECIMAL	20	RX_TASK_CANCELLED	
4	DECIMAL	21	RX_TIMEOUT	
4	DECIMAL	22	RX_AFTER_IN_PREPARE	
4	DECIMAL	23	RX_NOT_FOUND	
4	DECIMAL	24	RX_ALREADY_SET	
4	DECIMAL	25	RX_RRS_RESTARTED	
4	DECIMAL	26	RX_LINK_ACTIVE	
4	DECIMAL	27	RX_RESTART_ WRONG_SYSTEM	
4	DECIMAL	28	RX_RACE	
4	DECIMAL	29	RX_HARDENED_ DATA_LOST	
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	
4	DECIMAL	8	NODE_OFFSET	
0	BIT	0000	NOT_EXPRESSED	
0	BIT	0001	EXPRESSED	
0	BIT	0001	UOW_EXECUTE	
0	BIT	0010	UOW_SHUNTED	
0	BIT	0100	UOW_BACKOUT	
0	BIT	0001	SMODE_RESET	
0	BIT	0010	SMODE_IN_FLIGHT	
0	BIT	0100	SMODE_IN_SYNCPOINT	
0	BIT	1000	SMODE_IN_RESYNC	
The values are encoded to correspond to the RRS/MVS exit numbers				
0	BIT	0000	SP_INIT_NONE	= 0
0	BIT	0010	SP_INIT_PREPARE_ EXIT	= 2
0	BIT	0101	SP_INIT_BACKOUT_ EXIT	= 5
0	BIT	1001	SP_INIT_ONLY_ AGENT_EXIT	
				= 9
0	BIT	1111	SP_INIT_RRS_ FAILURE	= F

Table 537. (continued)

Len	Type	value	Name	Description
!:refstep.rxur_state_result ---------- DFHRXUR 444 - ! ! When we have been driven for prepare by RRS/MVS, we will vote ! and await the decision. That decision is indicated by result : ! ! undecided ! The initial state - we do not have a decision ! commit ! RRS/MVS has told us to commit ! backout ! RRS/MVS has told us to backout ! failed ! RRS/MVS failed before it could give us a decision. Because we ! use presumed abort protocol, this is treated as a backout ! decision. ! !----------				
0	BIT	0000	RESULT_UNDECIDED	
0	BIT	0001	RESULT_COMMIT	
0	BIT	0010	RESULT_BACKOUT	
0	BIT	0100	RESULT_FAILED	

RXUC RX Domain Collection of RXUR Instances

Table 538.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	56	RXUC	
!:refstep.rxuc_instance_data ---------- DFHRXUR 3502 - ! ! The instance data contains: ! ! - An eyecatcher ! ! - A HOP_DChain ! ! - A pointer to an error handler object. ! ! - A pointer to a storage manager object. ! !----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	56	INSTANCE_DATA	
(0)	CHARACTER Prot	8	EYECATCHER	
(8)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
Inherited Data				
(8)	CHARACTER Priv	4	*	

Table 538. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(10)	CHARACTER Priv	4	*	
(18)	CHARACTER Prot	8	*	
(18)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(1C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(20)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(20)	CHARACTER Priv	4	*	
(28)	CHARACTER Prot	8	*	
(28)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(2C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(30)	ADDRESS Prot	4	EH_PTR	
(34)	ADDRESS Prot	4	SM_PTR	

Constants

Table 539.

Len	Type	value	Name	Description
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	

RZDM RequestStreams Domain Management

```
!:refstep.rzdm_class_declaration ---------------------- DFHRZDM 928 -
!
!
! The "rzdm" class declaration contains the signatures for the
! methods and the declaration of the instance data.
!
!-----------------------------------------------------------------------
```

Table 540.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	1024	RZDM	

Table 540. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.rzdm_constants ---------- !:refstep.rzdm_instance_data ---------- DFHRZDM 958 - ! ! This structure is the global data for the Domain. ! !----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Publ	1024	INSTANCE_ DATA_BLOCK	
(0)	STRUCTURE Publ IsA(EYE_CATCHER_TYPE)	16	RZDM_EYE_ CATCHER	Eyecatcher
(0)	UNSIGNED Publ	2	EYE_LEN	object length
(2)	UNSIGNED Publ	2	EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Publ	12	EYE_STRING	'>DFHddxxxxxx'
(10)	UNSIGNED Publ	1	RZDM_STATE	State
(11)	BIT(8) Publ	1	RZDM_FLAGS	
	1... .... Publ		RZDM_LUNAME_ SET	Is luname known?
	.111 1111 Publ		*	Reserved
(12)	CHARACTER Publ	2	*	Reserved
(14)	CHARACTER Publ	8	RZDM_SUBPOOL	Subpool Token
(1C)	ADDRESS Publ	4	RZDM_LOCK_TOKEN	Domain Lock Token
(20)	OBJECT Publ IsA(RMCLM)	144	RZDM_CLASS_ MANAGER	
				Class Manager
(20)	CHARACTER Prot	144	INSTANCE_ DATA_BLOCK	
(20)	CHARACTER Prot	4	NAME (12)	class name
(50)	ADDRESS Prot	4	INITIALISER (12)	class initialising proc
(80)	ADDRESS Prot	4	DATA (12)	class data address
(B0)	OBJECT Publ IsA(RZ_PUBLIC_ID)	64	RZDM_BASIC_ PUBLIC_ID	
				public id proforma

Table 540. (continued)

Offset Hex	Type	Len	Name (dim)	Description
rzpi instance data				
(B0)	CHARACTER Prot	64	PUBID	not less than ext_len bytes
(B0)	UNSIGNED Prot	1	PI_PILEN	length ext publicid
(B1)	CHARACTER Prot	18	PI_SOURCE	source lu
(B1)	UNSIGNED Prot	1	PI_SLULEN	noninclusive luname len
(B2)	CHARACTER Prot	17	PI_SLUNAME	luname
(C3)	CHARACTER Prot	18	PI_TARGET	target lu
(C3)	UNSIGNED Prot	1	PI_TLULEN	noninclusive luname len
(C4)	CHARACTER Prot	17	PI_TLUNAME	luname
(D5)	CHARACTER Prot	3	*	
(D8)	CHARACTER Prot	16	PI_SHIFT	
(D8)	CHARACTER Prot	8	PI_USERID	creation userid
(E0)	CHARACTER Prot	6	PI_STCLK	creation time-stamp
(E6)	UNSIGNED Prot	2	PI_SEQ	sequencing
(F0)	CHARACTER Publ	4	RZDM_LOCAL_ SYSID	system ident
Order of initialisation				
SHARED DATA				
Declared Data				
(0)	FIXED Prot IsA(RMCLM_CLASS_ID)	4	RZDM_CLASS_ INIT_ORDER (6)	
!:erefstep.rzdm_classes_management ---------- domain lock status type				
(0)	BIT(8) Publ IsA(LMLM_LOCK_STATUS_TYPE)	1	RZDM_LOCK_STATUS	
	1... .... Publ		HELD	
	.111 1111 Publ		*	

Constants

Table 541.

Len	Type	value	Name	Description
!:refstep.rzdm_constants ------------------------------ DFHRZDM 116 - ! ! These types and constants are for the "rzdm" class. ! !-- !:refstep.rzdm_classes_management --------------------- DFHRZDM 145 - ! ! Declare a constant for the number of classes that the class ! manager can handle. This includes a few spare in addition to those ! currently required. ! ! Identify the classes managed by the class manager and some spares. ! ! Specify the order in which the classes are initialised by the ! class manager. ! !--				
4	DECIMAL	12	RMCLM_MAX_CLASS	Capacity of the Class Mgr
RZ Classes identified by constant				
4	DECIMAL	1	RZVP_CLASSID	
4	DECIMAL	2	RZRS_CLASSID	
4	DECIMAL	3	RZTR_CLASSID	
4	DECIMAL	4	RSRG_CLASSID	
4	DECIMAL	5	RSNR_CLASSID	
4	DECIMAL	6	RZRT_CLASSID	
Number of RZ classes				
4	DECIMAL	6	RZDM_NUM_CLASSES	
4	DECIMAL	0	RZDM_LOCK_FREE	
4	DECIMAL	128	RZDM_LOCK_HELD	
domain lock error codes				
4	CHARACTER	ARZA	RZDM_LOCK_ ERROR_CODE	
4	CHARACTER	ARZB	RZDM_UNLOCK_ ERROR_CODE	
persistent name and persistent type				
16	CHARACTER	DFHRZDM_ANCHOR	RZDM_PNAME	
8	CHARACTER	DFHRZDM	RZDM_PTYPE	
domain states				
4	DECIMAL	1	RZDM_INITIALISING	
4	DECIMAL	2	RZDM_INITIALISED	
4	DECIMAL	3	RZDM_QUIESCING	
4	DECIMAL	4	RZDM_QUIESCED	
4	DECIMAL	5	RZDM_TERMINATING	
4	DECIMAL	6	RZDM_TERMINATED	
4	DECIMAL	1	RMCLM_OK	

Table 541. (continued)

Len	Type	value	Name	Description
1	BIT	00000000	LMLM_LOCK_FREE	
1	BIT	10000000	LMLM_LOCK_HELD	

RZRQS RZ RequestStream

```
!:refstep.rzrs_reqstream_class ----------------------- DFHRZRS 233 -
!
! The "RZ" domain "rz_reqstream" class has its own types, instance
! data and public methods. There are also private methods for
! internal method use. There is at least one class method used
! during "RZ" domain intialisation.
!
!--------------------------------------------------------------------
```

Table 542.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	1976	RZ_REQSTREAM	
!:erefstep.rzrs_types_and_constants ---------- !:refstep.rzrs_instance_data ------------------------ DFHRZRS 333 - ! ! A rz_reqstream consists of: ! ! - some tracking information for dumps and traces (time-stamps and ! eye-catchers), ! ! - transaction properties associated with the &rs..(r_tranid, ! r_userid), ! ! - public identifier of this &rs..(if any) (r_public_id), ! ! - chain fields for class use (class_node) and uow use (uow_node), ! ! - server data set on create (rqs_server_block), ! ! - outgoing transport (tr_out) (will become a map), and ! ! - incoming transport (tr_in). ! ! - temp buffer for input (r_inbuf_ptr, r_inbuf_len). When allocated ! this is non-null. ! ! - pos of request in buffer (r_rptr, r_rlen). ! ! - suspend token and count (r_sustok, r_suscnt), for allowing ! multiple resumes without penalty. ! !----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	1976	RZ_REQSTREAM_ INSTANCE_DATA	
(0)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	EYE_CATCHER	
(0)	UNSIGNED Prot	2	EYE_LEN	object length

Table 542. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxxx'
(10)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	CLASS_NODE	class chain
`Inherited Data`				
(10)	CHARACTER Priv	4	*	
(18)	CHARACTER Prot	8	*	
(18)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(1C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(20)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	UOW_NODE	uow chain
(20)	CHARACTER Priv	4	*	
(28)	CHARACTER Prot	8	*	
(28)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(2C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(30)	CHARACTER Prot	8	R_TIME_STAMP	
(38)	OBJECT Prot IsA(RZ_PUBLIC_ID)	64	R_PUBLIC_ID	
`rzpi instance data`				
(38)	CHARACTER Prot	64	PUBID	not less than ext_len bytes
(38)	UNSIGNED Prot	1	PI_PILEN	length ext publicid
(39)	CHARACTER Prot	18	PI_SOURCE	source lu
(39)	UNSIGNED Prot	1	PI_SLULEN	noninclusive luname len
(3A)	CHARACTER Prot	17	PI_SLUNAME	luname
(4B)	CHARACTER Prot	18	PI_TARGET	target lu
(4B)	UNSIGNED Prot	1	PI_TLULEN	noninclusive luname len
(4C)	CHARACTER Prot	17	PI_TLUNAME	luname

Table 542. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5D)	CHARACTER Prot	3	*	
(60)	CHARACTER Prot	16	PI_SHIFT	
(60)	CHARACTER Prot	8	PI_USERID	creation userid
(68)	CHARACTER Prot	6	PI_STCLK	creation time-stamp
(6E)	UNSIGNED Prot	2	PI_SEQ	sequencing
(78)	CHARACTER Prot IsA(RU_TOKEN)	4	R_TOKEN	in rzrs tokset
(7C)	CHARACTER Prot	4	R_TRANID	
(80)	CHARACTER Prot	8	R_USERID	
(88)	SIGNED Prot	4	TR_IN_CIDNM	correlation id count
(8C)	ADDRESS Prot	4	TR_OUT_PTR	to rztr object
(90)	OBJECT Prot IsA(HOP_DCHAIN)	40	TR_IN	inbound transports
(90)	CHARACTER Priv	4	*	
(98)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(98)	CHARACTER Priv	4	*	
(A0)	CHARACTER Prot	8	*	
(A0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(A4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(A8)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(A8)	CHARACTER Priv	4	*	
(B0)	CHARACTER Prot	8	*	
(B0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(B4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(B8)	ADDRESS Prot	4	TR_CURR_PTR	to active in rztr
(BC)	ADDRESS Prot	4	TR_COUT_PTR	to active out rztr

Table 542. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C0)	STRUCTURE Prot IsA(RZ_ETOKEN)	8	R_NTOK	rsrg notify_token
(C0)	CHARACTER Prot IsA(RU_TOKEN)	4	TOKEN	
(C4)	SIGNED Prot	4	IDENTITY	
(C8)	UNSIGNED Prot	4	R_PENDING_NUM	of notification requests
(CC)	ADDRESS Prot	4	R_SUSTOK	local suspend token
(D0)	UNSIGNED Prot	4	R_SUSCNT	local suspend count
(D4)	ADDRESS Prot	4	R_TRGTOK	trigger suspend token
(D8)	UNSIGNED Prot	4	R_TRGCNT	trigger suspend count
(DC)	BIT(8) Prot	1	R_FLAGS	
	1... .... Prot		R_CL_CHND	is in the class chain
	.1.. .... Prot		R_SD_READ	server data read
	..1. .... Prot		R_WL_READ	wlm data read
	...1 .... Prot		R_RQ_SEEN	seen request hdr
	.... 1... Prot		R_RQ_READ	request data read
	.... .1.. Prot		R_TRIGGERED	trigger primed
	.... ..1. Prot		R_ACTIVE	listening for triggers
	....1 Prot		R_UOW_CHND	is in a uow chain
(DD)	BIT(8) Prot	1	R_FLAGS2	
	1... .... Prot		R_JN_READ	join data read
	.1.. .... Prot		R_JN_SEND	join data is to be sent
	..1. .... Prot		R_JN_PROG	join program is to be used
	...1 .... Prot		R_RP_SEEN	reply header read
	.... 1... Prot		R_DB_READ	debug data read
	.... .1.. Prot		R_PG_READ	prog header_read
	.... ..1. Prot		R_PG_PROG	target prog to be used
	....1 Prot		*	(pad)

Table 542. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(DE)	CHARACTER Prot	2	*	(pad)
(E0)	SIGNED Prot	4	R_SDATA_LEN	server data
(E4)	CHARACTER Prot	48	R_SDATA	
(114)	STRUCTURE Prot IsA(RZRT_ROUTING_DATA_TYPE)	1520	R_WLMDATA	
(114)	CHARACTER Publ	1520	*	
(114)	STRUCTURE Publ IsA(EYE_CATCHER_TYPE)	16	RDATA_EYECATCHER	
(114)	UNSIGNED Publ	2	EYE_LEN	object length
(116)	UNSIGNED Publ	2	EYE_OFFSET	offset of eye-catcher in object
(118)	CHARACTER Publ	12	EYE_STRING	'>DFHddxxxxxx'
(124)	UNSIGNED Publ	1	RUN_LOCAL	
(125)	UNSIGNED Publ	1	ROUTING_ ACTIVE	
(126)	UNSIGNED Publ	1	USES_CHANNEL	
(127)	CHARACTER Publ	1	*	
(128)	STRUCTURE Publ IsA(RZRT_DYPDS_COMMAREA_TYPE)	1316	DFHDYPDS	
(128)	CHARACTER Prot IsA(RZRT_ROUTING_FUNCTION_TYPE)	1	*	
(129)	CHARACTER Prot	2	*	
(12B)	CHARACTER Prot	1	*	
(12C)	CHARACTER Prot IsA(RZRT_RE_CODE_TYPE)	1	*	
(12D)	CHARACTER Prot	1	*	
(12E)	CHARACTER Prot	1	*	
(12F)	CHARACTER Prot	1	*	
(130)	SIGNED Prot	4	*	

Table 542. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(134)	CHARACTER Prot	4	*	
(138)	SIGNED Prot	2	*	
(13A)	CHARACTER Prot IsA(RZRT_REQUEST_CODE_TYPE)	1	*	
(13B)	CHARACTER Prot	1	*	
(13C)	CHARACTER Prot	8	*	
(144)	SIGNED Prot	4	*	
(148)	CHARACTER Prot	8	*	
(148)	ADDRESS Prot	4	*	
(14C)	SIGNED Prot	4	*	
(150)	CHARACTER Prot	1	*	
(151)	CHARACTER Prot	1	*	
(152)	SIGNED Prot	2	*	
(154)	CHARACTER Prot	8	*	
(15C)	CHARACTER Prot	8	*	
(164)	CHARACTER Prot	1	*	
(165)	CHARACTER Prot	1	*	
(166)	CHARACTER Prot	2	*	
(168)	UNSIGNED Prot	4	*	
(16C)	UNSIGNED Prot	4	*	
(170)	CHARACTER Prot	4	*	
(174)	CHARACTER Prot	1	*	
(175)	CHARACTER Prot	1	*	
(176)	CHARACTER Prot	2	*	
(178)	CHARACTER Prot	8	*	
(178)	ADDRESS Prot	4	*	
(17C)	SIGNED Prot	4	*	
(180)	ADDRESS Prot	4	*	

Table 542. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(184)	CHARACTER Prot	168	*	
(184)	CHARACTER Prot	168	*	
(22C)	CHARACTER Prot	8	*	
(234)	CHARACTER Prot	8	*	
(23C)	CHARACTER Prot	1024	*	
(63C)	CHARACTER Prot	16	*	
(704)	OBJECT Prot IsA(RZ_PUBLIC_ID)	64	R_OT_PUB_ID	other rqs public id
(704)	CHARACTER Prot	64	PUBID	not less than ext_len bytes
(704)	UNSIGNED Prot	1	PI_PILEN	length ext publicid
(705)	CHARACTER Prot	18	PI_SOURCE	source lu
(705)	UNSIGNED Prot	1	PI_SLULEN	noninclusive luname len
(706)	CHARACTER Prot	17	PI_SLUNAME	luname
(717)	CHARACTER Prot	18	PI_TARGET	target lu
(717)	UNSIGNED Prot	1	PI_TLULEN	noninclusive luname len
(718)	CHARACTER Prot	17	PI_TLUNAME	luname
(729)	CHARACTER Prot	3	*	
(72C)	CHARACTER Prot	16	PI_SHIFT	
(72C)	CHARACTER Prot	8	PI_USERID	creation userid
(734)	CHARACTER Prot	6	PI_STCLK	creation time-stamp
(73A)	UNSIGNED Prot	2	PI_SEQ	sequencing
(744)	SIGNED Prot	4	R_TIMEOUT	
(748)	SIGNED Prot	4	R_RQDATA_LEN	size of last request
(74C)	SIGNED Prot	4	R_RPDATA_LEN	size of last reply
(750)	SIGNED Prot	4	R_DDATA_LEN	debug data
(754)	ADDRESS Prot	4	R_DDATA_PTR	

Table 542. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(758)	OBJECT Prot IsA(HOP_DCHAIN)	40	R_SAVE_REQ_C	partial request chain
(758)	CHARACTER Priv	4	*	
(760)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(760)	CHARACTER Priv	4	*	
(768)	CHARACTER Prot	8	*	
(768)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(76C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(770)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(770)	CHARACTER Priv	4	*	
(778)	CHARACTER Prot	8	*	
(778)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(77C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(780)	OBJECT Prot IsA(HOP_DCHAIN)	40	R_SAVE_REP_C	partial reply chain
(780)	CHARACTER Priv	4	*	
(788)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(788)	CHARACTER Priv	4	*	
(790)	CHARACTER Prot	8	*	
(790)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(794)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(798)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(798)	CHARACTER Priv	4	*	
(7A0)	CHARACTER Prot	8	*	
(7A0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	

Table 542. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7A4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(7A8)	SIGNED Prot	4	R_SAVE_REQ_N	partial request len
(7AC)	SIGNED Prot	4	R_SAVE_REP_N	partial reply len
(7B0)	CHARACTER Prot	8	R_TARGET_PROG	overide xn target prog
!:refstep.rzrs_types_and_constants ---------- DFHRZRS 261 - ! ! There are some private and public types and constants. ! !---------- private				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	1168	RZRS_CLASS_DATA	
(0)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	CLASS_EYE_ CATCHER	
(0)	UNSIGNED Prot	2	EYE_LEN	object length
(2)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxxx'
(10)	OBJECT Prot IsA(RZOF)	40	OBJECT_FACTORY	
!:refstep.rzof_instance_data ---------- DFHRZOF 200 - ! ! The object factory instance data contains an eye-catcher, a ! subpool name, and a subpool token. The subpool name is used as a ! remark when allocating and freeing storage. It consists of the ! prefix ! "RZOF" and a suffix which is the name of the object being managed. ! !----------				
(10)	CHARACTER Prot	40	INSTANCE_ DATA_BLOCK	
				RZOF instance data
(10)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	OF_EYE_ CATCHER	eye-catcher
(10)	UNSIGNED Prot	2	EYE_LEN	object length
(12)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(14)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxxx'

Table 542. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	CHARACTER Prot	8	SUBPOOL_NAME	subpool name
(20)	CHARACTER Prot	4	SUBPOOL_ NAME_PREFIX	
				subpool name prefix
(24)	CHARACTER Prot	4	SUBPOOL_ NAME_SUFFIX	
				subpool name suffix
(28)	CHARACTER Prot	8	SUBPOOL_TOKEN	subpool token
(30)	CHARACTER Prot	8	*	
(38)	OBJECT Prot IsA(RUTOKSET)	1064	TOKEN_DATA	all requeststreams
!:refstep.RUTK_Instance_Data ------------------------- DFHRUTK 165 - ! ! The token set records the set of known tokens together with the ! address associated with each known token. ! !----------				
(38)	CHARACTER Prot	1060	INSTANCE_ DATA_BLOCK	
(38)	CHARACTER Prot	12	EYE_CATCHER	eyecatcher
(44)	UNSIGNED Prot	4	NUMBER_ OF_BLOCKS	
				block count
(48)	UNSIGNED Prot IsA(TOKEN_TYPE)	4	FREE_CHAIN_ HEAD	free chain head
(48)	STRUCTURE Prot IsA(INDEX_TYPE)	2	AN_INDEX	
(48)	UNSIGNED Prot	1	BLOCK	
(49)	UNSIGNED Prot	1	SLOT	
(4A)	UNSIGNED Prot IsA(INSTANCE_TYPE)	2	INSTANCE	
(4C)	ADDRESS Prot	4	BLOCKS (0-255)	pointers to blocks
(44C)	CHARACTER Prot	8	SUBPOOL_TOKEN	block subpool
(454)	CHARACTER Prot	8	*	
(460)	CHARACTER Prot	8	LOCK_DATA	
(460)	ADDRESS Prot	4	LOCK_TOKEN	

Table 542. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(464)	BIT(8) Prot IsA(LMLM_LOCK_STATUS_TYPE)	1	LOCK_STATUS	
	1... .... Prot		HELD	
	.111 1111 Prot		*	
(465)	CHARACTER Prot	3	*	
(468)	OBJECT Prot IsA(HOP_DCHAIN)	40	OBJ_CHAIN	
Inherited Data				
(468)	CHARACTER Priv	4	*	
(470)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(470)	CHARACTER Priv	4	*	
(478)	CHARACTER Prot	8	*	
(478)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(47C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(480)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(480)	CHARACTER Priv	4	*	
(488)	CHARACTER Prot	8	*	
(488)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(48C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(0)	STRUCTURE Prot	8	RQS_PREFIX	not public (MEM7)
(0)	CHARACTER Prot IsA(RQS_DISCRIMINANT)	4	DIS	
(4)	SIGNED Prot	4	LEN	
(0)	STRUCTURE Prot	68	RQS_JOIN_DATA	
(0)	OBJECT Prot IsA(RZ_PUBLIC_ID)	64	PID	
(0)	CHARACTER Prot	64	PUBID	not less than ext_len bytes
(0)	UNSIGNED Prot	1	PI_PILEN	length ext publicid

Table 542. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	CHARACTER Prot	18	PI_SOURCE	source lu
(1)	UNSIGNED Prot	1	PI_SLULEN	noninclusive luname len
(2)	CHARACTER Prot	17	PI_SLUNAME	luname
(13)	CHARACTER Prot	18	PI_TARGET	target lu
(13)	UNSIGNED Prot	1	PI_TLULEN	noninclusive luname len
(14)	CHARACTER Prot	17	PI_TLUNAME	luname
(25)	CHARACTER Prot	3	*	
(28)	CHARACTER Prot	16	PI_SHIFT	
(28)	CHARACTER Prot	8	PI_USERID	creation userid
(30)	CHARACTER Prot	6	PI_STCLK	creation time-stamp
(36)	UNSIGNED Prot	2	PI_SEQ	sequencing
(40)	UNSIGNED Prot	1	USE_PROG	
(41)	CHARACTER Prot	3	*	
(0)	STRUCTURE Prot	24	RQS_SAVED_ITEM	
(0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	RSI_CHAIN_NODE	
(0)	CHARACTER Priv	4	*	
(8)	CHARACTER Prot	8	*	
(8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(10)	ADDRESS Prot	4	RSI_DATA_P	
(14)	SIGNED Prot	4	RSI_DATA_N	
(0)	CHARACTER Publ	4	RQS_DISCRIMINANT	

Constants

Table 543.

Len	Type	value	Name	Description
!:refstep.rzdm_constants ----------------------------- DFHRZDM 116 - ! ! These types and constants are for the "rzdm" class. ! !-- !:refstep.rzdm_classes_management -------------------- DFHRZDM 145 - ! ! Declare a constant for the number of classes that the class ! manager can handle. This includes a few spare in addition to those ! currently required. ! ! Identify the classes managed by the class manager and some spares. ! ! Specify the order in which the classes are initialised by the ! class manager. ! !--				
4	DECIMAL	12	RMCLM_MAX_CLASS	Capacity of the Class Mgr
RZ Classes identified by constant				
4	DECIMAL	1	RZVP_CLASSID	
4	DECIMAL	2	RZRS_CLASSID	
4	DECIMAL	3	RZTR_CLASSID	
4	DECIMAL	4	RSRG_CLASSID	
4	DECIMAL	5	RSNR_CLASSID	
4	DECIMAL	6	RZRT_CLASSID	
Number of RZ classes				
4	DECIMAL	6	RZDM_NUM_CLASSES	
4	DECIMAL	0	RZDM_LOCK_FREE	
4	DECIMAL	128	RZDM_LOCK_HELD	
domain lock error codes				
4	CHARACTER	ARZA	RZDM_LOCK_ ERROR_CODE	
4	CHARACTER	ARZB	RZDM_UNLOCK_ ERROR_CODE	
persistent name and persistent type				
16	CHARACTER	DFHRZDM_ANCHOR	RZDM_PNAME	
8	CHARACTER	DFHRZDM	RZDM_PTYPE	
domain states				
4	DECIMAL	1	RZDM_INITIALISING	
4	DECIMAL	2	RZDM_INITIALISED	
4	DECIMAL	3	RZDM_QUIESCING	
4	DECIMAL	4	RZDM_QUIESCED	
4	DECIMAL	5	RZDM_TERMINATING	
4	DECIMAL	6	RZDM_TERMINATED	
4	DECIMAL	1	RMCLM_OK	

Table 543. (continued)

Len	Type	value	Name	Description
1	BIT	00000000	LMLM_LOCK_FREE	
1	BIT	10000000	LMLM_LOCK_HELD	
14	CHARACTER	>DFHRZVPClass	EYE_CATCHER	
2	DECIMAL	4	AC_BIN_MINSIZE	ARM correlator min size!@LJA
2	DECIMAL	512	AC_BIN_MAXSIZE	ARM correlator max size!@LJA
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	
4	DECIMAL	1	LI_OK	
4	DECIMAL	2	LI_EXCEPTION	
4	DECIMAL	3	LI_DISASTER	
4	DECIMAL	6	LI_PURGED	
4	DECIMAL	0	LI_NO_REASON	
4	DECIMAL	1	LI_REGISTRATION_ REJECTED	
4	DECIMAL	2	LI_NOTIFY_ TOKEN_UNKNOWN	
4	DECIMAL	3	LI_SERVER_ TOKEN_UNKNOWN	
4	DECIMAL	4	LI_LISTEN_ NOT_OUTSTANDING	
4	DECIMAL	5	LI_NOTIFY_ TOKEN_IN_USE	
4	DECIMAL	6	LI_SERVER_ TOKEN_IN_USE	
4	DECIMAL	7	LI_NOTIFY_ TOKEN_MISUSED	
4	DECIMAL	8	LI_CLIENT_ NOT_REGISTERED	
4	DECIMAL	9	LI_NOTIFY_ CALLBACK_FAILED	
4	DECIMAL	10	LI_NOTIFY_ IMMEADIATELY	
4	DECIMAL	11	LI_SERVER_ RESOURCE_CLOSED	
4	DECIMAL	0	LI_NOTIFY	
4	DECIMAL	1	LI_CLOSED	
4	DECIMAL	2	LI_ABEND	
4	DECIMAL	3	LI_TIMEOUT	
1	DECIMAL	0	LI_NO	
1	DECIMAL	1	LI_YES	
8	CHAR HEX	0000000000000000	NULL_TIMER_TOK	

Table 543. (continued)

Len	Type	value	Name	Description
!:erefstep.rsnr_class_declaration_file ----------				
4	CHARACTER	ARZE	LIRG_LOCK_ ERROR_CODE	
4	CHARACTER	ARZF	LIRG_UNLOCK_ ERROR_CODE	
4	CHARACTER	ARZI	RSRG_LOCK_ ERROR_CODE	
4	CHARACTER	ARZJ	RSRG_UNLOCK_ ERROR_CODE	
4	CHARACTER	ARZC	RZTR_LOCK_ ERROR_CODE	
4	CHARACTER	ARZD	RZTR_UNLOCK_ ERROR_CODE	
4	CHARACTER	TCtl	RZ_TC	
4	CHARACTER	InSt	RZ_INSTORE	
4	CHARACTER	Sock	RZ_SOCKET	
4	CHARACTER	Unk	RZ_UNKNOWN_ TRANSPORT	
4	DECIMAL	1	RZ_SOCK_CALLBACK_ GATE	
1	CHARACTER	U	RZTRS_UNATTACHED	
1	CHARACTER	O	RZTRS_OUTBOUND	
1	CHARACTER	S	RZTRS_SENDING	
1	CHARACTER	R	RZTRS_RECEIVING	
1	CHARACTER	I	RZTRS_INBOUND	
4	CHARACTER	T=--	RZTX_TR_UNSET	
4	CHARACTER	T=MR	RZTX_TR_MRO	
4	CHARACTER	T=IS	RZTX_TR_INS	
public				
4	CHARACTER	ARSA	RZRS_LOCK_ ERROR_CODE	
4	CHARACTER	ARSB	RZRS_UNLOCK_ ERROR_CODE	
to indicate no userid passed when optional:				
8	CHARACTER		RZD_NO_USERID	
4	CHARACTER		RQD_REQUEST	
4	CHARACTER		RQD_SERVER_DATA	
4	CHARACTER		RQD_WLM_DATA	
4	CHARACTER		RQD_JOIN_DATA	
4	CHARACTER		RQD_REPLY	
4	CHARACTER		RQD_TARGET_PUBID	
4	CHARACTER		RQD_DEBUG_DATA	

Table 543. (continued)

Len	Type	value	Name	Description
4	CHARACTER		RQD_TARGET_PROG	
method reason codes				
4	DECIMAL	101	RQS_TOKEN_UNKNOWN	
4	DECIMAL	102	RQS_XM_INIT_ AUTH_FAILURE	
4	DECIMAL	103	RQS_BUF_SMALL	
4	DECIMAL	104	RQS_SERVER_ DATA_TOO_LARGE	
4	DECIMAL	105	RQS_TRANSPORT_ FAILURE	
4	DECIMAL	106	RQS_MIN_NOT_ AVAILABLE	
4	DECIMAL	107	RQS_INVALID_ CORRELATION_ID	
4	DECIMAL	108	RQS_LISTEN_ NOT_OUTSTANDING	
4	DECIMAL	109	RQS_UNFINISHED_ REQUEST	
4	DECIMAL	110	RQS_JOINING_SELF	
4	DECIMAL	111	RQS_SERVICE_ NOT_AVAILABLE	
4	DECIMAL	112	RQS_INVALID_USERID	
4	DECIMAL	113	RQS_DEBUG_ DATA_TOO_LARGE	

RZRQS RZ RequestStream

```
!:refstep.rzrs_reqstream_class ----------------------- DFHRZRS 233 -
!
! The "RZ" domain "rz_reqstream" class has its own types, instance
! data and public methods. There are also private methods for
! internal method use. There is at least one class method used
! during "RZ" domain intialisation.
!
!-------------------------------------------------------------------
```

Table 544.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	1976	RZ_REQSTREAM	

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.rzrs_types_and_constants ---------- !:refstep.rzrs_instance_data ---------- DFHRZRS 333 - ! ! A rz_reqstream consists of: ! ! - some tracking information for dumps and traces (time-stamps and ! eye-catchers), ! ! - transaction properties associated with the &rs..(r_tranid, ! r_userid), ! ! - public identifier of this &rs..(if any) (r_public_id), ! ! - chain fields for class use (class_node) and uow use (uow_node), ! ! - server data set on create (rqs_server_block), ! ! - outgoing transport (tr_out) (will become a map), and ! ! - incoming transport (tr_in). ! ! - temp buffer for input (r_inbuf_ptr, r_inbuf_len). When allocated ! this is non-null. ! ! - pos of request in buffer (r_rptr, r_rlen). ! ! - suspend token and count (r_sustok, r_suscnt), for allowing ! multiple resumes without penalty. ! !----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	1976	RZ_REQSTREAM_ INSTANCE_DATA	
(0)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	EYE_CATCHER	
(0)	UNSIGNED Prot	2	EYE_LEN	object length
(2)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxxx'
(10)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	CLASS_NODE	class chain
Inherited Data				
(10)	CHARACTER Priv	4	*	
(18)	CHARACTER Prot	8	*	
(18)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(1C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	UOW_NODE	uow chain
(20)	CHARACTER Priv	4	*	
(28)	CHARACTER Prot	8	*	
(28)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(2C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(30)	CHARACTER Prot	8	R_TIME_STAMP	
(38)	OBJECT Prot IsA(RZ_PUBLIC_ID)	64	R_PUBLIC_ID	
rzpi instance data				
(38)	CHARACTER Prot	64	PUBID	not less than ext_len bytes
(38)	UNSIGNED Prot	1	PI_PILEN	length ext publicid
(39)	CHARACTER Prot	18	PI_SOURCE	source lu
(39)	UNSIGNED Prot	1	PI_SLULEN	noninclusive luname len
(3A)	CHARACTER Prot	17	PI_SLUNAME	luname
(4B)	CHARACTER Prot	18	PI_TARGET	target lu
(4B)	UNSIGNED Prot	1	PI_TLULEN	noninclusive luname len
(4C)	CHARACTER Prot	17	PI_TLUNAME	luname
(5D)	CHARACTER Prot	3	*	
(60)	CHARACTER Prot	16	PI_SHIFT	
(60)	CHARACTER Prot	8	PI_USERID	creation userid
(68)	CHARACTER Prot	6	PI_STCLK	creation time-stamp
(6E)	UNSIGNED Prot	2	PI_SEQ	sequencing
(78)	CHARACTER Prot IsA(RU_TOKEN)	4	R_TOKEN	in rzrs tokset
(7C)	CHARACTER Prot	4	R_TRANID	
(80)	CHARACTER Prot	8	R_USERID	

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	SIGNED Prot	4	TR_IN_CIDNM	correlation id count
(8C)	ADDRESS Prot	4	TR_OUT_PTR	to rztr object
(90)	OBJECT Prot IsA(HOP_DCHAIN)	40	TR_IN	inbound transports
(90)	CHARACTER Priv	4	*	
(98)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(98)	CHARACTER Priv	4	*	
(A0)	CHARACTER Prot	8	*	
(A0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(A4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(A8)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(A8)	CHARACTER Priv	4	*	
(B0)	CHARACTER Prot	8	*	
(B0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(B4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(B8)	ADDRESS Prot	4	TR_CURR_PTR	to active in rztr
(BC)	ADDRESS Prot	4	TR_COUT_PTR	to active out rztr
(C0)	STRUCTURE Prot IsA(RZ_ETOKEN)	8	R_NTOK	rsrg notify_token
(C0)	CHARACTER Prot IsA(RU_TOKEN)	4	TOKEN	
(C4)	SIGNED Prot	4	IDENTITY	
(C8)	UNSIGNED Prot	4	R_PENDING_NUM	of notification requests
(CC)	ADDRESS Prot	4	R_SUSTOK	local suspend token
(D0)	UNSIGNED Prot	4	R_SUSCNT	local suspend count
(D4)	ADDRESS Prot	4	R_TRGTOK	trigger suspend token
(D8)	UNSIGNED Prot	4	R_TRGCNT	trigger suspend count

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(DC)	BIT(8) Prot	1	R_FLAGS	
	1... .... Prot		R_CL_CHND	is in the class chain
	.1.. .... Prot		R_SD_READ	server data read
	..1. .... Prot		R_WL_READ	wlm data read
	...1 .... Prot		R_RQ_SEEN	seen request hdr
	.... 1... Prot		R_RQ_READ	request data read
	.... .1.. Prot		R_TRIGGERED	trigger primed
	.... ..1. Prot		R_ACTIVE	listening for triggers
	....1 Prot		R_UOW_CHND	is in a uow chain
(DD)	BIT(8) Prot	1	R_FLAGS2	
	1... .... Prot		R_JN_READ	join data read
	.1.. .... Prot		R_JN_SEND	join data is to be sent
	..1. .... Prot		R_JN_PROG	join program is to be used
	...1 .... Prot		R_RP_SEEN	reply header read
	.... 1... Prot		R_DB_READ	debug data read
	.... .1.. Prot		R_PG_READ	prog header_read
	.... ..1. Prot		R_PG_PROG	target prog to be used
	....1 Prot		*	(pad)
(DE)	CHARACTER Prot	2	*	(pad)
(E0)	SIGNED Prot	4	R_SDATA_LEN	server data
(E4)	CHARACTER Prot	48	R_SDATA	
(114)	STRUCTURE Prot IsA(RZRT_ROUTING_DATA_TYPE)	1520	R_WLMDATA	
(114)	CHARACTER Publ	1520	*	
(114)	STRUCTURE Publ IsA(EYE_CATCHER_TYPE)	16	RDATA_EYECATCHER	
(114)	UNSIGNED Publ	2	EYE_LEN	object length
(116)	UNSIGNED Publ	2	EYE_OFFSET	offset of eye-catcher in object

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(118)	CHARACTER Publ	12	EYE_STRING	'>DFHddxxxxxx'
(124)	UNSIGNED Publ	1	RUN_LOCAL	
(125)	UNSIGNED Publ	1	ROUTING_ ACTIVE	
(126)	UNSIGNED Publ	1	USES_CHANNEL	
(127)	CHARACTER Publ	1	*	
(128)	STRUCTURE Publ IsA(RZRT_DYPDS_COMMAREA_TYPE)	1316	DFHDYPDS	
(128)	CHARACTER Prot IsA(RZRT_ROUTING_FUNCTION_TYPE)	1	*	
(129)	CHARACTER Prot	2	*	
(12B)	CHARACTER Prot	1	*	
(12C)	CHARACTER Prot IsA(RZRT_RE_CODE_TYPE)	1	*	
(12D)	CHARACTER Prot	1	*	
(12E)	CHARACTER Prot	1	*	
(12F)	CHARACTER Prot	1	*	
(130)	SIGNED Prot	4	*	
(134)	CHARACTER Prot	4	*	
(138)	SIGNED Prot	2	*	
(13A)	CHARACTER Prot IsA(RZRT_REQUEST_CODE_TYPE)	1	*	
(13B)	CHARACTER Prot	1	*	
(13C)	CHARACTER Prot	8	*	
(144)	SIGNED Prot	4	*	
(148)	CHARACTER Prot	8	*	
(148)	ADDRESS Prot	4	*	
(14C)	SIGNED Prot	4	*	
(150)	CHARACTER Prot	1	*	

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(151)	CHARACTER Prot	1	*	
(152)	SIGNED Prot	2	*	
(154)	CHARACTER Prot	8	*	
(15C)	CHARACTER Prot	8	*	
(164)	CHARACTER Prot	1	*	
(165)	CHARACTER Prot	1	*	
(166)	CHARACTER Prot	2	*	
(168)	UNSIGNED Prot	4	*	
(16C)	UNSIGNED Prot	4	*	
(170)	CHARACTER Prot	4	*	
(174)	CHARACTER Prot	1	*	
(175)	CHARACTER Prot	1	*	
(176)	CHARACTER Prot	2	*	
(178)	CHARACTER Prot	8	*	
(178)	ADDRESS Prot	4	*	
(17C)	SIGNED Prot	4	*	
(180)	ADDRESS Prot	4	*	
(184)	CHARACTER Prot	168	*	
(184)	CHARACTER Prot	168	*	
(22C)	CHARACTER Prot	8	*	
(234)	CHARACTER Prot	8	*	
(23C)	CHARACTER Prot	1024	*	
(63C)	CHARACTER Prot	16	*	
(704)	OBJECT Prot IsA(RZ_PUBLIC_ID)	64	R_OT_PUB_ID	other rqs public id
(704)	CHARACTER Prot	64	PUBID	not less than ext_len bytes
(704)	UNSIGNED Prot	1	PI_PILEN	length ext publicid

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(705)	CHARACTER Prot	18	PI_SOURCE	source lu
(705)	UNSIGNED Prot	1	PI_SLULEN	noninclusive luname len
(706)	CHARACTER Prot	17	PI_SLUNAME	luname
(717)	CHARACTER Prot	18	PI_TARGET	target lu
(717)	UNSIGNED Prot	1	PI_TLULEN	noninclusive luname len
(718)	CHARACTER Prot	17	PI_TLUNAME	luname
(729)	CHARACTER Prot	3	*	
(72C)	CHARACTER Prot	16	PI_SHIFT	
(72C)	CHARACTER Prot	8	PI_USERID	creation userid
(734)	CHARACTER Prot	6	PI_STCLK	creation time-stamp
(73A)	UNSIGNED Prot	2	PI_SEQ	sequencing
(744)	SIGNED Prot	4	R_TIMEOUT	
(748)	SIGNED Prot	4	R_RQDATA_LEN	size of last request
(74C)	SIGNED Prot	4	R_RPDATA_LEN	size of last reply
(750)	SIGNED Prot	4	R_DDATA_LEN	debug data
(754)	ADDRESS Prot	4	R_DDATA_PTR	
(758)	OBJECT Prot IsA(HOP_DCHAIN)	40	R_SAVE_REQ_C	partial request chain
(758)	CHARACTER Priv	4	*	
(760)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(760)	CHARACTER Priv	4	*	
(768)	CHARACTER Prot	8	*	
(768)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(76C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(770)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(770)	CHARACTER Priv	4	*	

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(778)	CHARACTER Prot	8	*	
(778)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(77C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(780)	OBJECT Prot IsA(HOP_DCHAIN)	40	R_SAVE_REP_C	partial reply chain
(780)	CHARACTER Priv	4	*	
(788)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(788)	CHARACTER Priv	4	*	
(790)	CHARACTER Prot	8	*	
(790)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(794)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(798)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(798)	CHARACTER Priv	4	*	
(7A0)	CHARACTER Prot	8	*	
(7A0)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(7A4)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(7A8)	SIGNED Prot	4	R_SAVE_REQ_N	partial request len
(7AC)	SIGNED Prot	4	R_SAVE_REP_N	partial reply len
(7B0)	CHARACTER Prot	8	R_TARGET_PROG	overide xn target prog
!:refstep.rzrs_types_and_constants -------------------- DFHRZRS 261 - ! ! There are some private and public types and constants. ! !-- private				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	1168	RZRS_CLASS_DATA	
(0)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	CLASS_EYE_CATCHER	

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	UNSIGNED Prot	2	EYE_LEN	object length
(2)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxxx'
(10)	OBJECT Prot IsA(RZOF)	40	OBJECT_FACTORY	
!:refstep.rzof_instance_data ------------------------- DFHRZOF 200 - ! ! The object factory instance data contains an eye-catcher, a ! subpool name, and a subpool token. The subpool name is used as a ! remark when allocating and freeing storage. It consists of the ! prefix ! "RZOF" and a suffix which is the name of the object being managed. ! !----------				
(10)	CHARACTER Prot	40	INSTANCE_ DATA_BLOCK	
				RZOF instance data
(10)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	OF_EYE_ CATCHER	eye-catcher
(10)	UNSIGNED Prot	2	EYE_LEN	object length
(12)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(14)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxxx'
(20)	CHARACTER Prot	8	SUBPOOL_NAME	subpool name
(20)	CHARACTER Prot	4	SUBPOOL_ NAME_PREFIX	
				subpool name prefix
(24)	CHARACTER Prot	4	SUBPOOL_ NAME_SUFFIX	
				subpool name suffix
(28)	CHARACTER Prot	8	SUBPOOL_TOKEN	subpool token
(30)	CHARACTER Prot	8	*	
(38)	OBJECT Prot IsA(RUTOKSET)	1064	TOKEN_DATA	all requeststreams

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.RUTK_Instance_Data ------------------------- DFHRUTK 165 - ! ! The token set records the set of known tokens together with the ! address associated with each known token. ! !----------				
(38)	CHARACTER Prot	1060	INSTANCE_ DATA_BLOCK	
(38)	CHARACTER Prot	12	EYE_CATCHER	eyecatcher
(44)	UNSIGNED Prot	4	NUMBER_ OF_BLOCKS	
				block count
(48)	UNSIGNED Prot IsA(TOKEN_TYPE)	4	FREE_CHAIN_ HEAD	free chain head
(48)	STRUCTURE Prot IsA(INDEX_TYPE)	2	AN_INDEX	
(48)	UNSIGNED Prot	1	BLOCK	
(49)	UNSIGNED Prot	1	SLOT	
(4A)	UNSIGNED Prot IsA(INSTANCE_TYPE)	2	INSTANCE	
(4C)	ADDRESS Prot	4	BLOCKS (0-255)	pointers to blocks
(44C)	CHARACTER Prot	8	SUBPOOL_TOKEN	block subpool
(454)	CHARACTER Prot	8	*	
(460)	CHARACTER Prot	8	LOCK_DATA	
(460)	ADDRESS Prot	4	LOCK_TOKEN	
(464)	BIT(8) Prot IsA(LMLM_LOCK_STATUS_TYPE)	1	LOCK_STATUS	
	1... .... Prot		HELD	
	.111 1111 Prot		*	
(465)	CHARACTER Prot	3	*	
(468)	OBJECT Prot IsA(HOP_DCHAIN)	40	OBJ_CHAIN	
Inherited Data				
(468)	CHARACTER Priv	4	*	
(470)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(470)	CHARACTER Priv	4	*	

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(478)	CHARACTER Prot	8	*	
(478)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(47C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(480)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(480)	CHARACTER Priv	4	*	
(488)	CHARACTER Prot	8	*	
(488)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(48C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(0)	STRUCTURE Prot	8	RQS_PREFIX	not public (MEM7)
(0)	CHARACTER Prot IsA(RQS_DISCRIMINANT)	4	DIS	
(4)	SIGNED Prot	4	LEN	
(0)	STRUCTURE Prot	68	RQS_JOIN_DATA	
(0)	OBJECT Prot IsA(RZ_PUBLIC_ID)	64	PID	
(0)	CHARACTER Prot	64	PUBID	not less than ext_len bytes
(0)	UNSIGNED Prot	1	PI_PILEN	length ext publicid
(1)	CHARACTER Prot	18	PI_SOURCE	source lu
(1)	UNSIGNED Prot	1	PI_SLULEN	noninclusive luname len
(2)	CHARACTER Prot	17	PI_SLUNAME	luname
(13)	CHARACTER Prot	18	PI_TARGET	target lu
(13)	UNSIGNED Prot	1	PI_TLULEN	noninclusive luname len
(14)	CHARACTER Prot	17	PI_TLUNAME	luname
(25)	CHARACTER Prot	3	*	
(28)	CHARACTER Prot	16	PI_SHIFT	

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	CHARACTER Prot	8	PI_USERID	creation userid
(30)	CHARACTER Prot	6	PI_STCLK	creation time-stamp
(36)	UNSIGNED Prot	2	PI_SEQ	sequencing
(40)	UNSIGNED Prot	1	USE_PROG	
(41)	CHARACTER Prot	3	*	
(0)	STRUCTURE Prot	24	RQS_SAVED_ITEM	
(0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	RSI_CHAIN_NODE	
(0)	CHARACTER Priv	4	*	
(8)	CHARACTER Prot	8	*	
(8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(10)	ADDRESS Prot	4	RSI_DATA_P	
(14)	SIGNED Prot	4	RSI_DATA_N	
(0)	CHARACTER Publ	4	RQS_DISCRIMINANT	

Constants

Table 545.

Len	Type	value	Name	Description
!:refstep.rzdm_constants ------------------------------ DFHRZDM 116 - ! ! These types and constants are for the "rzdm" class. ! !-- !:refstep.rzdm_classes_management ---------------------- DFHRZDM 145 - ! ! Declare a constant for the number of classes that the class ! manager can handle. This includes a few spare in addition to those ! currently required. ! ! Identify the classes managed by the class manager and some spares. ! ! Specify the order in which the classes are initialised by the ! class manager. ! !--				
4	DECIMAL	12	RMCLM_MAX_CLASS	Capacity of the Class Mgr
RZ Classes identified by constant				
4	DECIMAL	1	RZVP_CLASSID	

Table 545. (continued)

Len	Type	value	Name	Description
4	DECIMAL	2	RZRS_CLASSID	
4	DECIMAL	3	RZTR_CLASSID	
4	DECIMAL	4	RSRG_CLASSID	
4	DECIMAL	5	RSNR_CLASSID	
4	DECIMAL	6	RZRT_CLASSID	
Number of RZ classes				
4	DECIMAL	6	RZDM_NUM_CLASSES	
4	DECIMAL	0	RZDM_LOCK_FREE	
4	DECIMAL	128	RZDM_LOCK_HELD	
domain lock error codes				
4	CHARACTER	ARZA	RZDM_LOCK_ ERROR_CODE	
4	CHARACTER	ARZB	RZDM_UNLOCK_ ERROR_CODE	
persistent name and persistent type				
16	CHARACTER	DFHRZDM_ANCHOR	RZDM_PNAME	
8	CHARACTER	DFHRZDM	RZDM_PTYPE	
domain states				
4	DECIMAL	1	RZDM_INITIALISING	
4	DECIMAL	2	RZDM_INITIALISED	
4	DECIMAL	3	RZDM_QUIESCING	
4	DECIMAL	4	RZDM_QUIESCED	
4	DECIMAL	5	RZDM_TERMINATING	
4	DECIMAL	6	RZDM_TERMINATED	
4	DECIMAL	1	RMCLM_OK	
1	BIT	00000000	LMLM_LOCK_FREE	
1	BIT	10000000	LMLM_LOCK_HELD	
14	CHARACTER	>DFHRZVPClass	EYE_CATCHER	
2	DECIMAL	4	AC_BIN_MINSIZE	ARM correlator min size!@LJA
2	DECIMAL	512	AC_BIN_MAXSIZE	ARM correlator max size!@LJA
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	
4	DECIMAL	1	LI_OK	
4	DECIMAL	2	LI_EXCEPTION	
4	DECIMAL	3	LI_DISASTER	
4	DECIMAL	6	LI_PURGED	
4	DECIMAL	0	LI_NO_REASON	

Table 545. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1	LI_REGISTRATION_ REJECTED	
4	DECIMAL	2	LI_NOTIFY_ TOKEN_UNKNOWN	
4	DECIMAL	3	LI_SERVER_ TOKEN_UNKNOWN	
4	DECIMAL	4	LI_LISTEN_ NOT_OUTSTANDING	
4	DECIMAL	5	LI_NOTIFY_ TOKEN_IN_USE	
4	DECIMAL	6	LI_SERVER_ TOKEN_IN_USE	
4	DECIMAL	7	LI_NOTIFY_ TOKEN_MISUSED	
4	DECIMAL	8	LI_CLIENT_ NOT_REGISTERED	
4	DECIMAL	9	LI_NOTIFY_ CALLBACK_FAILED	
4	DECIMAL	10	LI_NOTIFY_ IMMEADIATELY	
4	DECIMAL	11	LI_SERVER_ RESOURCE_CLOSED	
4	DECIMAL	0	LI_NOTIFY	
4	DECIMAL	1	LI_CLOSED	
4	DECIMAL	2	LI_ABEND	
4	DECIMAL	3	LI_TIMEOUT	
1	DECIMAL	0	LI_NO	
1	DECIMAL	1	LI_YES	
8	CHAR HEX	0000000000000000	NULL_TIMER_TOK	
!:erefstep.rsnr_class_declaration_file ----------				
4	CHARACTER	ARZE	LIRG_LOCK_ ERROR_CODE	
4	CHARACTER	ARZF	LIRG_UNLOCK_ ERROR_CODE	
4	CHARACTER	ARZI	RSRG_LOCK_ ERROR_CODE	
4	CHARACTER	ARZJ	RSRG_UNLOCK_ ERROR_CODE	
4	CHARACTER	ARZC	RZTR_LOCK_ ERROR_CODE	
4	CHARACTER	ARZD	RZTR_UNLOCK_ ERROR_CODE	
4	CHARACTER	TCtl	RZ_TC	
4	CHARACTER	InSt	RZ_INSTORE	

Table 545. (continued)

Len	Type	value	Name	Description
4	CHARACTER	Sock	RZ_SOCKET	
4	CHARACTER	Unk	RZ_UNKNOWN_ TRANSPORT	
4	DECIMAL	1	RZ_SOCK_CALLBACK_ GATE	
1	CHARACTER	U	RZTRS_UNATTACHED	
1	CHARACTER	O	RZTRS_OUTBOUND	
1	CHARACTER	S	RZTRS_SENDING	
1	CHARACTER	R	RZTRS_RECEIVING	
1	CHARACTER	I	RZTRS_INBOUND	
4	CHARACTER	T=--	RZTX_TR_UNSET	
4	CHARACTER	T=MR	RZTX_TR_MRO	
4	CHARACTER	T=IS	RZTX_TR_INS	
public				
4	CHARACTER	ARSA	RZRS_LOCK_ ERROR_CODE	
4	CHARACTER	ARSB	RZRS_UNLOCK_ ERROR_CODE	
to indicate no userid passed when optional:				
8	CHARACTER		RZD_NO_USERID	
4	CHARACTER		RQD_REQUEST	
4	CHARACTER		RQD_SERVER_DATA	
4	CHARACTER		RQD_WLM_DATA	
4	CHARACTER		RQD_JOIN_DATA	
4	CHARACTER		RQD_REPLY	
4	CHARACTER		RQD_TARGET_PUBID	
4	CHARACTER		RQD_DEBUG_DATA	
4	CHARACTER		RQD_TARGET_PROG	
method reason codes				
4	DECIMAL	101	RQS_TOKEN_UNKNOWN	
4	DECIMAL	102	RQS_XM_INIT_ AUTH_FAILURE	
4	DECIMAL	103	RQS_BUF_SMALL	
4	DECIMAL	104	RQS_SERVER_ DATA_TOO_LARGE	
4	DECIMAL	105	RQS_TRANSPORT_ FAILURE	
4	DECIMAL	106	RQS_MIN_NOT_ AVAILABLE	
4	DECIMAL	107	RQS_INVALID_ CORRELATION_ID	

Table 545. (continued)

Len	Type	value	Name	Description
4	DECIMAL	108	RQS_LISTEN_ NOT_OUTSTANDING	
4	DECIMAL	109	RQS_UNFINISHED_ REQUEST	
4	DECIMAL	110	RQS_JOINING_SELF	
4	DECIMAL	111	RQS_SERVICE_ NOT_AVAILABLE	
4	DECIMAL	112	RQS_INVALID_USERID	
4	DECIMAL	113	RQS_DEBUG_ DATA_TOO_LARGE	

RZTR RZ Transport

```
!:erefstep.rztr_collaborators ----------------------------------------
```

Table 546.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	104	RZTR	
!:refstep.rztr_instance_data ------------------------- DFHRZTR 320 - ! ! The instance data contains: ! ! - An eyecatcher ! ! - HOP Chain data, used to maintain an instance chain for the ! rz_reqstream class (chain_node). ! ! - A type discriminator which determines the subclass (ttype). ! ! - A status field indicating the state of the communication medium ! (t_status). ! ! - Flags indicating listen and notification status (tr_flags). ! ! - Data specific to the actual transport type. ! !--				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	104	INSTANCE_ DATA_BLOCK	
(0)	CHARACTER Prot	12	EYECATCHER	
(C)	CHARACTER Prot IsA(RZ_TRANSPORT)	4	TTYPE	type of transport
(10)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	CHAIN_NODE	in reqstream
Inherited Data				
(10)	CHARACTER Priv	4	*	

Table 546. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER Prot	8	*	
(18)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(1C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(20)	ADDRESS Prot	4	T_OWN_PTR	reqstream object
(24)	SIGNED Prot	4	TRCID	correlation id
(28)	BIT(8) Prot	1	TR_FLAGS	
	1... .... Prot		T_ACTIVE	listening
	.1.. .... Prot		T_TRIGGERED	somat's up
	..1. .... Prot		T_ACCEPTHEADS	takes headers
	...1 1111 Prot		*	
(29)	CHARACTER Prot IsA(RZTR_STATUS)	1	T_STATUS	status of transport
(2A)	CHARACTER Prot	2	*	
(2C)	SIGNED Prot	4	T_NOTSTAT	when triggered
(30)	CHARACTER Prot	56	SUBCLASS_STATE	
(30)	STRUCTURE Prot IsA(RZTC_INSTANCE_BLOCK)	20	RZTC_STATE	
(30)	CHARACTER Publ	4	TC_SYSID	
(34)	CHARACTER Publ	4	TC_TRANID	
(38)	CHARACTER Publ	8	TC_USERID	
(40)	ADDRESS Publ	4	TC_TOKEN	
(30)	CHARACTER Prot	4	RZSK_STATE	
(30)	CHARACTER Prot IsA(RU_TOKEN)	4	SOCKET_TOKEN	
(30)	STRUCTURE Prot IsA(RZIS_INSTANCE_BLOCK)	56	RZIS_STATE	
(30)	CHARACTER Publ	4	IS_SYSID	
(34)	CHARACTER Publ	4	IS_TRANID	
(38)	CHARACTER Publ	8	IS_USERID	

Table 546. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	ADDRESS Publ	4	IS_OTRPTR	paired IS transport
(44)	ADDRESS Publ	4	IS_RCVPTR	
(48)	SIGNED Publ	4	IS_RCVLEN	
(4C)	ADDRESS Publ	4	IS_RCV_PRUEI	to input ruei start
(50)	ADDRESS Publ	4	IS_RCV_CRUEI	to current ruei (for adds)
(54)	UNSIGNED Publ	4	IS_RCV_CRNUM	last element number
(58)	UNSIGNED Publ	4	IS_RCV_ROFF	read offset into ruei
NOTE: This word is used in a compare and swap in refstep rzis_buffer_sends. Ensure that refstep is kept in step with any chnage made to is_send_flags.				
(5C)	UNSIGNED Publ	4	IS_SEND_FLAGS	
(5C)	BIT(8) Publ	1	IS_FLAG_BYTE	
	1... .... Publ		IS_SEND_ LAST	last piece transferred
	.1.. .... Publ		IS_READY	has bind been done
	..1. .... Publ		IS_BUFFING	are we buffering sends
	...1 1111 Publ		*	
(5D)	CHARACTER Publ	3	*	
(60)	ADDRESS Publ	4	IS_PEND_HD	head of pending chain
(64)	ADDRESS Publ	4	IS_PEND_TL	tail of pending chain
SHARED DATA				
Declared Data				
(0)	CHARACTER Publ	4	RZ_TRANSPORT	
(0)	CHARACTER Publ	1	RZTR_STATUS	
rz_tr_ generic reason codes are defined in DFHRZCON, and are used by rzis, rztc and rzsk.				
(0)	STRUCTURE Prot	56	RZTR_CLASS_DATA	
(0)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	CLASS_EYE_ CATCHER	
(0)	UNSIGNED Prot	2	EYE_LEN	object length

Table 546. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(4)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxxx'
(10)	OBJECT Prot IsA(RZOF)	40	OBJECT_FACTORY	
!:refstep.rzof_instance_data ------------------------- DFHRZOF 200 - ! ! The object factory instance data contains an eye-catcher, a ! subpool name, and a subpool token. The subpool name is used as a ! remark when allocating and freeing storage. It consists of the ! prefix ! "RZOF" and a suffix which is the name of the object being managed. ! !----------				
(10)	CHARACTER Prot	40	INSTANCE_ DATA_BLOCK	
				RZOF instance data
(10)	STRUCTURE Prot IsA(EYE_CATCHER_TYPE)	16	OF_EYE_ CATCHER	eye-catcher
(10)	UNSIGNED Prot	2	EYE_LEN	object length
(12)	UNSIGNED Prot	2	EYE_OFFSET	offset of eye-catcher in object
(14)	CHARACTER Prot	12	EYE_STRING	'>DFHddxxxxxx'
(20)	CHARACTER Prot	8	SUBPOOL_NAME	subpool name
(20)	CHARACTER Prot	4	SUBPOOL_ NAME_PREFIX	
				subpool name prefix
(24)	CHARACTER Prot	4	SUBPOOL_ NAME_SUFFIX	
				subpool name suffix
(28)	CHARACTER Prot	8	SUBPOOL_TOKEN	subpool token
(30)	CHARACTER Prot	8	*	

Constants

Table 547.

Len	Type	value	Name	Description
1	BIT	00000000	LMLM_LOCK_FREE	

Table 547. (continued)

Len	Type	value	Name	Description
1	BIT	10000000	LMLM_LOCK_HELD	
2	DECIMAL	4	AC_BIN_MINSIZE	ARM correlator min size!@LJA
2	DECIMAL	512	AC_BIN_MAXSIZE	ARM correlator max size!@LJA
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	
4	DECIMAL	1	LI_OK	
4	DECIMAL	2	LI_EXCEPTION	
4	DECIMAL	3	LI_DISASTER	
4	DECIMAL	6	LI_PURGED	
4	DECIMAL	0	LI_NO_REASON	
4	DECIMAL	1	LI_REGISTRATION_ REJECTED	
4	DECIMAL	2	LI_NOTIFY_ TOKEN_UNKNOWN	
4	DECIMAL	3	LI_SERVER_ TOKEN_UNKNOWN	
4	DECIMAL	4	LI_LISTEN_ NOT_OUTSTANDING	
4	DECIMAL	5	LI_NOTIFY_ TOKEN_IN_USE	
4	DECIMAL	6	LI_SERVER_ TOKEN_IN_USE	
4	DECIMAL	7	LI_NOTIFY_ TOKEN_MISUSED	
4	DECIMAL	8	LI_CLIENT_ NOT_REGISTERED	
4	DECIMAL	9	LI_NOTIFY_ CALLBACK_FAILED	
4	DECIMAL	10	LI_NOTIFY_ IMMEADIATELY	
4	DECIMAL	11	LI_SERVER_ RESOURCE_CLOSED	
4	DECIMAL	0	LI_NOTIFY	
4	DECIMAL	1	LI_CLOSED	
4	DECIMAL	2	LI_ABEND	
4	DECIMAL	3	LI_TIMEOUT	
1	DECIMAL	0	LI_NO	
1	DECIMAL	1	LI_YES	
8	CHAR HEX	0000000000000000	NULL_TIMER_TOK	
!:erefstep.rsnr_class_declaration_file ----------				

Table 547. (continued)

Len	Type	value	Name	Description
4	CHARACTER	ARZE	LIRG_LOCK_ ERROR_CODE	
4	CHARACTER	ARZF	LIRG_UNLOCK_ ERROR_CODE	
4	CHARACTER	ARZI	RSRG_LOCK_ ERROR_CODE	
4	CHARACTER	ARZJ	RSRG_UNLOCK_ ERROR_CODE	
!:refstep.rzdm_constants ----------------------------- DFHRZDM 116 - ! ! These types and constants are for the "rzdm" class. ! !-- !:refstep.rzdm_classes_management --------------------- DFHRZDM 145 - ! ! Declare a constant for the number of classes that the class ! manager can handle. This includes a few spare in addition to those ! currently required. ! ! Identify the classes managed by the class manager and some spares. ! ! Specify the order in which the classes are initialised by the ! class manager. ! !--				
4	DECIMAL	12	RMCLM_MAX_CLASS	Capacity of the Class Mgr
RZ Classes identified by constant				
4	DECIMAL	1	RZVP_CLASSID	
4	DECIMAL	2	RZRS_CLASSID	
4	DECIMAL	3	RZTR_CLASSID	
4	DECIMAL	4	RSRG_CLASSID	
4	DECIMAL	5	RSNR_CLASSID	
4	DECIMAL	6	RZRT_CLASSID	
Number of RZ classes				
4	DECIMAL	6	RZDM_NUM_CLASSES	
4	DECIMAL	0	RZDM_LOCK_FREE	
4	DECIMAL	128	RZDM_LOCK_HELD	
domain lock error codes				
4	CHARACTER	ARZA	RZDM_LOCK_ ERROR_CODE	
4	CHARACTER	ARZB	RZDM_UNLOCK_ ERROR_CODE	
persistent name and persistent type				
16	CHARACTER	DFHRZDM_ANCHOR	RZDM_PNAME	
8	CHARACTER	DFHRZDM	RZDM_PTYPE	
domain states				

Table 547. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1	RZDM_INITIALISING	
4	DECIMAL	2	RZDM_INITIALISED	
4	DECIMAL	3	RZDM_QUIESCING	
4	DECIMAL	4	RZDM_QUIESCED	
4	DECIMAL	5	RZDM_TERMINATING	
4	DECIMAL	6	RZDM_TERMINATED	
4	DECIMAL	1	RMCLM_OK	
14	CHARACTER	>DFHRZVPClass	EYE_CATCHER	
4	CHARACTER	T=--	RZTX_TR_UNSET	
4	CHARACTER	T=MR	RZTX_TR_MRO	
4	CHARACTER	T=IS	RZTX_TR_INS	
public				
4	CHARACTER	ARSA	RZRS_LOCK_ ERROR_CODE	
4	CHARACTER	ARSB	RZRS_UNLOCK_ ERROR_CODE	
to indicate no userid passed when optional:				
8	CHARACTER		RZD_NO_USERID	
4	CHARACTER		RQD_REQUEST	
4	CHARACTER		RQD_SERVER_DATA	
4	CHARACTER		RQD_WLM_DATA	
4	CHARACTER		RQD_JOIN_DATA	
4	CHARACTER		RQD_REPLY	
4	CHARACTER		RQD_TARGET_PUBID	
4	CHARACTER		RQD_DEBUG_DATA	
4	CHARACTER		RQD_TARGET_PROG	
method reason codes				
4	DECIMAL	101	RQS_TOKEN_UNKNOWN	
4	DECIMAL	102	RQS_XM_INIT_ AUTH_FAILURE	
4	DECIMAL	103	RQS_BUF_SMALL	
4	DECIMAL	104	RQS_SERVER_ DATA_TOO_LARGE	
4	DECIMAL	105	RQS_TRANSPORT_ FAILURE	
4	DECIMAL	106	RQS_MIN_NOT_ AVAILABLE	
4	DECIMAL	107	RQS_INVALID_ CORRELATION_ID	
4	DECIMAL	108	RQS_LISTEN_ NOT_OUTSTANDING	

Table 547. (continued)

Len	Type	value	Name	Description
4	DECIMAL	109	RQS_UNFINISHED_ REQUEST	
4	DECIMAL	110	RQS_JOINING_SELF	
4	DECIMAL	111	RQS_SERVICE_ NOT_AVAILABLE	
4	DECIMAL	112	RQS_INVALID_USERID	
4	DECIMAL	113	RQS_DEBUG_ DATA_TOO_LARGE	
4	CHARACTER	ARZC	RZTR_LOCK_ ERROR_CODE	
4	CHARACTER	ARZD	RZTR_UNLOCK_ ERROR_CODE	
4	CHARACTER	TCtl	RZ_TC	
4	CHARACTER	InSt	RZ_INSTORE	
4	CHARACTER	Sock	RZ_SOCKET	
4	CHARACTER	Unk	RZ_UNKNOWN_ TRANSPORT	
4	DECIMAL	1	RZ_SOCK_CALLBACK_ GATE	
1	CHARACTER	U	RZTRS_UNATTACHED	
1	CHARACTER	O	RZTRS_OUTBOUND	
1	CHARACTER	S	RZTRS_SENDING	
1	CHARACTER	R	RZTRS_RECEIVING	
1	CHARACTER	I	RZTRS_INBOUND	

SHRTC SH request routing class

```
!:refstep.shrt_types -------------------------------- DFHSHRTP 213 -
!
! The following defines the various types used by this class.
!
!--------------------------------------------------------------------
!:refstep.shrt_routing_data_type --------------------- DFHSHRTP 226 -
!
! Routing data is a public type which is passed on most of the calls
! to &shrt.class. IT MUST BE KEPT IN STEP WITH THE DFHDYPDS
! COMMAREA
!
! Since PQ81378 shipped, this structure is of a fixed size (1520
! bytes) and is complicated to extend. The declaration is such that
! there is some space for the DFHDYPDS structure to grow, but
! eventually that might run out and result in a compilation error.
!
! ("0CSP": Checked consistent with changes for "RZ" 16Feb2000.)
!
!--------------------------------------------------------------------
```

Constants

Table 548.

Len	Type	value	Name	Description
4	DECIMAL	1520	SHRT_FIXED_LENGTH	
1	CHARACTER	0	ROUTE_SELECT	
1	CHARACTER	1	ROUTE_ERROR	
1	CHARACTER	2	ROUTE_TERMINATE	
1	CHARACTER	3	ROUTE_NOTIFY	
1	CHARACTER	4	ROUTE_ABEND	
1	CHARACTER	5	ROUTE_INITIATE	
1	CHARACTER	6	ROUTE_COMPLETE	
2	DECIMAL	10	DFHDYPDS_ CURRENT_VERSION	
1	CHARACTER	0	SH_SYSID_NOT_FOUND	
1	CHARACTER	1	SH_SYSID_ OUT_SERVICE	
1	CHARACTER	2	SH_NO_SESSIONS	
1	CHARACTER	3	SH_ALLOCATE_ REJECTED	
1	CHARACTER	4	SH_QUEUE_PURGED	
1	CHARACTER	5	SH_FUNC_NOT_ SUPPORTED	
1	CHARACTER	6	SH_LENGERR	
1	CHARACTER	7	SH_PGMIDERR	
1	CHARACTER	8	SH_INVREQ	
1	CHARACTER	9	SH_NOTAUTH	
1	CHARACTER	A	SH_TERMERR	
1	CHARACTER	B	SH_ROLLEDBACK	
1	CHARACTER	C	SH_TRANSIDERR	
1	CHARACTER	D	SH_IOERR	
1	CHARACTER	E	SH_USERIDERR	
1	CHARACTER	F	SH_RESUNAVAIL	
1	CHARACTER	0	TRADITIONAL_ ROUTING	
1	CHARACTER	1	NOTIFY_REQUEST	
1	CHARACTER	2	START_NO_ DATA_REQUEST	
1	CHARACTER	3	START_WITH_ DATA_REQUEST	
1	CHARACTER	4	DPL_REQUEST	
1	CHARACTER	5	CBTS_REQUEST	
1	CHARACTER	6	NON_TERM_ START_REQUEST	
1	CHARACTER	8	LINK3270_REQUEST	

Table 548. (continued)

Len	Type	value	Name	Description
1	CHARACTER	9	DPL_WITH_CHANNEL	aka TYPELIIF
1	CHARACTER	A	TERMINAL_ START_CHANNEL	
				aka TYPESTTI
1	CHARACTER	B	NON_TERM_ START_CHANNEL	
				aka TYPESTNI
!:erefstep.shrt_class_data_type ---------- !:erefstep.shrt_types ----------				
12	CHARACTER	>DFHSHRTRDAT	RDATA_EYECATCHER_ STRING	
8	CHARACTER		UCMASK	

SJVMS SJ JVMSet related data *OXA

Table 549.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	128	SJVMS	
!:refstep.sjvms_prefix ------------------------------ DFHSJCON 519 - ! ! ! Block header ! !----------				
(0)	CHARACTER	16	SJVMS_PREFIX	
(0)	HALFWORD	2	SJVMS_LENGTH	length of sjvms
(2)	CHARACTER	14	SJVMS_PREFIX_ TEXT	
!:erefstep.sjvms_prefix ---------- !:refstep.sjvms_state ------------------------------ DFHSJCON 527 - ! ! State information for JVM set ! !----------				
(10)	CHARACTER	8	SJVMS_START_ ABSTIME	
				Started time as ABSTIME
(18)	CHARACTER	8	SJVMS_SIZE	Shared memory size
(18)	UNSIGNED	4	SJVMS_SIZE_HI	
(1C)	UNSIGNED	4	SJVMS_SIZE_LO	
(20)	CHARACTER	8	SJVMS_USED	Used shared memory
(20)	UNSIGNED	4	SJVMS_USED_HI	
(24)	UNSIGNED	4	SJVMS_USED_LO	

Table 549. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	CHARACTER	40	SJVMS_DEP_ JVMS_DCHAIN	
				Dependent JVM TCB Space for hop_dchain@PQM
(50)	ADDRESS	4	SJVMS_JVMSET_ TOKEN	JVM set token (from JVM)
(54)	UNSIGNED	4	SJVMS_TERMINATE_ ECB	
				Terminate ECB
(58)	ADDRESS	4	SJVMS_WAITERS	First waiter for JVM set
(5C)	ADDRESS	4	SJVMS_MASTER_ JVM_LPATH	
				Master JVM LIBPATH
(60)	ADDRESS	4	SJVMS_MASTER_ JAVA_HOME	
				Master JAVA_HOME
(64)	CHARACTER	9	SJVMS_PROFILE	Null terminated name
(6D)	UNSIGNED	1	SJVMS_TERMINATE	0 = none 1 = phaseout 2 = purge 3 = forcepurge
(6E)	UNSIGNED	1	SJVMS_TR_FLAG	Trace setting 0 = Off 1 = Level 1 or more
(6F)	BIT(8)	1	SJVMS_FLAGS	various flags
	1...		SJVMS_CONTINUOUS	Master REUSE=YES
	.111 1111		*	Reserved
(70)	HALFWORD	2	SJVMS_RECOVERY_ COUNT	
				No. of recoveries permitted
(72)	CHARACTER	9	SJVMS_APPLID	Applid
(7B)	CHARACTER	5	*	Reserved
!:erefstep.sjvms_state ----------				
(80)	CHARACTER	0	SJVMS_END	

SJTCB SJ open TCB related data *OWC

Table 550.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1328	SJTCB	
!:refstep.sjtcb_prefix ------------------------------ DFHSJCON 401 - ! ! ! Block header ! !--				
(0)	CHARACTER	16	SJTCB_PREFIX	
(0)	HALFWORD	2	SJTCB_LENGTH	length of sjtcb
(2)	CHARACTER	14	SJTCB_PREFIX_ TEXT	
!:erefstep.sjtcb_prefix -- !:refstep.sjtcb_state ------------------------------- DFHSJCON 409 - ! ! SJTCB state information ! !--				
(10)	UNSIGNED	1	SJTCB_FLAGS_1	
	1...		SJTCB_PHASING_ OUT	1=JVM is phasing out
	.1..		SJTCB_RECYCLE_ REQD	1=JVM must be recycled
	..1.		SJTCB_PURGE_ REQD	1=Purge task
	...1		SJTCB_FORCE_ REQD	1=Forcepurge task
	.... 1...		SJTCB_FETCHING_ URM	1=URM being fetched
	.... .1..		SJTCB_CALLING_ URM	1=URM in control
	.... ..1.		SJTCB_SYSTEM_ EXIT	1=System.exit() issued
	1		SJTCB_DEBUG	1=Debug
(11)	UNSIGNED	1	SJTCB_FLAGS_2	
	1...		SJTCB_LE_ESTAE	1=LE ESTAE in control
	.1..		SJTCB_JNI	1=In JNI code
	..1.		SJTCB_CONTINUOUS	0=REUSE=NO or 1=REUSE=YES
	...1		SJTCB_CALLED_ URM	1=URM was called
	.... 1...		SJTCB_STDOUT_ GENERATE	1=-generate stdout
	.... .1..		SJTCB_STDERR_ GENERATE	1=-generate stderr

Table 550. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		SJTCB_CLASSCACHE	1=Class cache JVM
	1		SJTCB_FREE_ ATTEMPTED	1=free TCB tried
(12)	UNSIGNED	1	SJTCB_FLAGS_3	
	1...		SJTCB_LE_ HEAPSTATS	1=Collect LE stats
	.1..		SJTCB_FIRST_JVM	1=First JVM to run
	..1.		SJTCB_SCC_ MGMNT_JVM	1=Cache manager JVM
	...1		SJTCB_EXPIRE_ CACHES	1=Destroy expired shared caches
	 1111		*	Reserved
(13)	UNSIGNED	1	SJTCB_EXEC_KEY	CICS or USER
(14)	BIT(32)	4	SJTCB_TRACE_ FLAGS	From SJ stack
(14)	BIT(8)	1	SJTCB_TRACE_ FLAGS_1	
				First byte
	1...		SJTCB_TRACE_ LEVEL_1	
				SJ level 1
	.1..		SJTCB_TRACE_ LEVEL_2	
				SJ level 2
	..11 1111		*	SJ levels 3-8
(15)	BIT(8)	1	SJTCB_TRACE_ FLAGS_2	
				Second byte (9-16)
(16)	BIT(8)	1	SJTCB_TRACE_ FLAGS_3	
				Third byte (17-24)
(17)	BIT(8)	1	SJTCB_TRACE_ FLAGS_4	
				Fourth byte
	1111		*	SJ level 25-28
	.... 1...		SJTCB_TRACE_ LEVEL_29	
				SJ level 29
	.... .1..		SJTCB_TRACE_ LEVEL_30	

Table 550. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				SJ level 30
	.... ..1.		SJTCB_TRACE_ LEVEL_31	
				SJ level 31
	1		SJTCB_TRACE_ LEVEL_32	
				SJ level 32
(18)	ADDRESS	4	SJTCB_TRACE_ OPTIONS (4)	
				JVM Trace options
(28)	CHARACTER	8	SJTCB_DS_ TCB_TOKEN	associated DS TCB
(30)	CHARACTER	4	SJTCB_TRANID	current tranid
(34)	CHARACTER	4	SJTCB_CURRENT_TASK	current taskno. from XM
(38)	CHARACTER	4	SJTCB_LAST_TASK	prev taskno. from XM
(3C)	CHARACTER	8	SJTCB_JVM_ STARTED	JVM start time
(44)	CHARACTER	8	SJTCB_JVM_ALLOC	JVM allocation time
(4C)	FULLWORD	4	SJTCB_CREATED_ STDIN	
(50)	ADDRESS	4	SJTCB_PIPI_ SERVICES	PIPI services vector
(54)	ADDRESS	4	SJTCB_PIPI_TOKEN	
(58)	FULLWORD	4	SJTCB_COUNT_ PIPI_INI	
(5C)	FULLWORD	4	SJTCB_COUNT_ LOADEXE	
(60)	FULLWORD	4	SJTCB_COUNT_ CALLMAIN	
(64)	FULLWORD	4	SJTCB_LEHEAP_ INITIAL	initial size
(68)	FULLWORD	4	SJTCB_LEHEAP_ SIZE	present size
(6C)	FULLWORD	4	SJTCB_LEHEAP_ LAST	rolled from NOW
(70)	FULLWORD	4	SJTCB_LEHEAP_NOW	most recently
(74)	UNSIGNED	4	SJTCB_HEAP_ UTILISATION	% JVM heap used
(78)	ADDRESS	4	SJTCB_JNIJVM_P	a C JavaVM *
(7C)	ADDRESS	4	SJTCB_JNIENV_P	a C JNIenv *
(80)	ADDRESS	4	SJTCB_JVMEXT_P	a C JVMExt *

Table 550. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)	ADDRESS	4	SJTCB_STRING_ CLASS	string class reference
(88)	ADDRESS	4	SJTCB_WRAPPER_ CLASS	wrapper class reference
(8C)	ADDRESS	4	SJTCB_WRAPPER_ ENTRY_MID	WrapperEntry mid.
(90)	ADDRESS	4	SJTCB_WRAPPER_ GC_MID	wrapper gc method id.
(94)	ADDRESS	4	SJTCB_INFILE_ NAME	a stdin name
(98)	ADDRESS	4	SJTCB_OUTFILE_ NAME	a stdout name
(9C)	ADDRESS	4	SJTCB_ERRFILE_ NAME	a stderr name
(A0)	ADDRESS	4	SJTCB_HOME_ DIR_NAME	a home dir name
(A4)	ADDRESS	4	SJTCB_INFILE	a stdin file
(A8)	ADDRESS	4	SJTCB_OUTFILE	a stdout file
(AC)	ADDRESS	4	SJTCB_ERRFILE	a stderr file
(B0)	ADDRESS	4	SJTCB_APDOM_ FLAGS	a AP domain flags
(B4)	CHARACTER	8	SJTCB_PROGRAM_ NAME	program name
(BC)	CHARACTER	8	SJTCB_PROFILE_ NAME	profile name
(C4)	ADDRESS	4	SJTCB_CLASS_NAME	pointer to class name
(C8)	CHARACTER	256	SJTCB_CLASS_ NAME_STRING	class name
(1C8)	CHARACTER	288	SJTCB_PIPI_ VECTOR	name for PIPI vector
(1C8)	FULLWORD	4	SJTCB_PIPI_ COUNT	no. of words to come
(1CC)	ADDRESS	4	SJTCB_PIPI_ USERWORD	user word
(1D0)	ADDRESS	4	SJTCB_PIPI_ AWORKAREA	address of workarea
(1D4)	ADDRESS	4	SJTCB_PIPI_LOAD	address of load
(1D8)	ADDRESS	4	SJTCB_PIPI_ DELETE	address of delete
(1DC)	ADDRESS	4	SJTCB_PIPI_ GETSTORE	address of getstore
(1E0)	ADDRESS	4	SJTCB_PIPI_ FREESTORE	address of freestore
(1E4)	CHARACTER	260	SJTCB_PIPI_ WORKAREA	work area for PIPI

Table 550. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1E4)	ADDRESS	4	SJTCB_PIPI_ WORKAREA_LEN	Work area length
(1E8)	CHARACTER	256	*	Work area
(2E8)	CHARACTER	9	SJTCB_APPLID	Null terminated
(2F1)	CHARACTER	3	*	Reserved
(2F4)	ADDRESS	4	SJTCB_PTE_P	Profile table entry
(2F8)	ADDRESS	4	SJTCB_PTE_PTR	Profile stats area
(2FC)	UNSIGNED	4	SJTCB_JVMHEAP_ NOW	Current used
(300)	ADDRESS	4	SJTCB_JVMSET_PTR	Ptr to sjvms for master
(304)	UNSIGNED	4	SJTCB_HISTORY_ INDEX	History List Index
(308)	CHARACTER	8	SJTCB_HL_PREFIX	History List prefix
(310)	CHARACTER	16	SJTCB_HISTORY_ LIST (32)	History List History List Element
(310)	CHARACTER	4	SJTCB_HLE_ TASK_NUM	- Task Number
(314)	CHARACTER	4	SJTCB_HLE_ TRANID	- Transaction ID
(318)	CHARACTER	8	SJTCB_HLE_ PROG_NAME	- Program Name
(510)	UNSIGNED	4	SJTCB_GC_ THRESHOLD	gc trigger
(514)	UNSIGNED	4	SJTCB_JVM_ WAIT_ECB	For gc to wait on
(518)	UNSIGNED	4	SJTCB_JVM_PID	JVM process ID
(51C)	CHARACTER	8	SJTCB_GC_ TRAN_TOKEN	GC xaction token
(51C)	ADDRESS	4	SJTCB_GC_ TRAN_TOKEN_P	transaction_token_p
(520)	UNSIGNED	4	SJTCB_GC_ TRAN_TOKEN_N	transaction_token_n
(524)	CHARACTER	6	SJTCB_JAVA_ VERSION	Java Version string
(52A)	HALFWORD	2	SJTCB_CACHE_ GENERATION	Cache generation no.
!:erefstep.sjtcb_state ----------				
(530)	CHARACTER	0	SJTCB_END	

SJPTE SJ Profile Table Entry

Table 551.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	408	SJPTE	Profile Table entry
(0)	CHARACTER	16	SJPTE_PREFIX	===> eyecatcher <===@LCA
(0)	HALFWORD	2	SJPTE_LENGTH	length of sjpte
(2)	CHARACTER	14	SJPTE_PREFIX_ TEXT	>DFHSJPTE
(10)	CHARACTER	8	SJPTE_PROFILE_ NAME	JVMPROFILE value
(18)	BIT(8)	1	SJPTE_FLAGS1	Various flags
	1...		SJPTE_CLASSCACHE_ YES	
				Classcache user
	.1..		SJPTE_CONTINUOUS	Continuous mode
	..11 1111		*	Reserved
(19)	CHARACTER	3	*	Reserved
(1C)	FULLWORD	4	SJPTE_PROFILE_ PATH_LEN	
				Length of path name
(20)	CHARACTER	256	SJPTE_PROFILE_ PATH	Full path name
(120)	ADDRESS	4	SJPTE_CHAIN_PTR	Chain to next
(124)	CHARACTER	56	SJPTE_CICS_ KEY_AREA	
(15C)	CHARACTER	56	SJPTE_USER_ KEY_AREA	
(194)	CHARACTER	4	*	Reserved
(198)	CHARACTER	0	SJPTE_END	

Table 552.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	SJPTE_STATS	Stats area of PTE
(0)	BIT(8)	1	SJPTE_STATS_ FLAGS1	Various flags
	1...		SJPTE_CICS_KEY	CICS or USER key
	.111 1111		*	Reserved
(1)	CHARACTER	3	*	Reserved
(4)	UNSIGNED	4	SJPTE_REQUEST_ COUNT	
				Total no. of reqs

Table 552. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	UNSIGNED	4	SJPTE_CURRENT_ USE_COUNT	
(C)	UNSIGNED	4	SJPTE_PEAK_ USE_COUNT	
(10)	UNSIGNED	4	SJPTE_NEW_ JVM_COUNT	
(14)	UNSIGNED	4	SJPTE_MISMATCH_ STEALER	
(18)	UNSIGNED	4	SJPTE_MISMATCH_ VICTIM	
(1C)	UNSIGNED	4	SJPTE_LE_ HEAP_HWM	
(20)	UNSIGNED	4	SJPTE_JVM_ HEAP_HWM	
(24)	UNSIGNED	4	SJPTE_DESTROYED_ DUE_TO_SOS	
(28)	UNSIGNED	4	SJPTE_GC_COUNT	
(2C)	CHARACTER	8	SJPTE_XMX_VALUE	
(34)	CHARACTER	4	*	Reserved
(38)	CHARACTER	0	SJPTE_STATS_END	

SMDCC Storage Manager Anchor Block

```
SMA - SM Anchor block
This block contains the global storage for the SM domain.
```

Table 553.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	912	SMA	
(0)	CHARACTER	16	SMA_PREFIX	
(0)	HALFWORD	2	SMA_LENGTH	
(2)	CHARACTER	1	SMA_ARROW	
(3)	CHARACTER	3	SMA_DFH	
(6)	CHARACTER	2	SMA_DOMID	
(8)	CHARACTER	8	SMA_BLOCK_NAME	
(10)	ADDRESS	4	SMA_SCQFREEHEAD	-> first free SCQ
(14)	ADDRESS	4	SMA_SCAFREEHEAD	-> first free SCA
(18)	CHARACTER	8	*	header for task SCA chain
(18)	ADDRESS	4	SMA_SCA_ TASK_FIRST	
				-> first task SCA
(1C)	ADDRESS	4	SMA_SCA_ TASK_LAST	-> last task SCA

Table 553. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	CHARACTER	8	*	header for domain SCA chain
(20)	ADDRESS	4	SMA_SCA_ DOMAIN_FIRST	
				-> first domain SCA
(24)	ADDRESS	4	SMA_SCA_ DOMAIN_LAST	
				-> last domain SCA
(28)	FULLWORD	4	SMA_SCANUM	current SCA number
(2C)	FULLWORD	4	SMA_SPIDNUM	current spid number
(30)	ADDRESS	4	SMA_SMXFREEHEAD	SMX freechain
(34)	CHARACTER	8	*	allocated SMX chain
(34)	ADDRESS	4	SMA_SMX_FIRST	-> first allocated SMX
(38)	ADDRESS	4	SMA_SMX_LAST	-> last allocated SMX
(3C)	ADDRESS	4	SMA_SMLOCK	SM lock token
(40)	BIT(8)	1	SMA_FLAGS	flags
	1...		SMA_SMSY_ RESUMED	='1'B, system task resumed
	.1..		SMA_STORAGE_ RECOVERY	
	..1.		SMA_STORAGE_ PROTECT_REQ	
	...1		SMA_STORAGE_ PROTECT	
	.... 1...		SMA_REENTRANT_ PROGRAM_PROTECT	
	.... .1..		SMA_TRANSACTION_ ISOLATION_REQ	
	.... ..1.		SMA_LOC_ EXPLICIT	
	1		SMA_NOTIFIED_ DSAS_NOT_ CONSTRAINED	
(41)	UNSIGNED	1	SMA_SM_STATE	SM domain state
(42)	BIT(8)	1	SMA_FLAGS2	
	1...		SMA_SOS_BELOW	='1'b, SOS below 16MB
	.1..		SMA_SOS_ABOVE	='1'b, SOS above 16MB

Table 553. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		SMA_SOS_ ABOVEBAR	='1'b, SOS above 2GB
	...1		SMA_ATB_ CUSHION_RELEASED	
				='1'b cushion storage being used
	 1111		*	reserved
(43)	BIT(8)	1	SMA_DSAS_FIXED	Fixed DSAs
	1...		SMA_CDSA_FIXED	CDSA fixed
	.1..		SMA_UDSA_FIXED	UDSA fixed
	..1.		SMA_SDSA_FIXED	SDSA fixed
	...1		SMA_RDSA_FIXED	RDSA fixed
	.... 1...		SMA_ECDSA_FIXED	ECDSA fixed
	.... .1..		SMA_EUDSA_FIXED	EUDSA fixed
	.... ..1.		SMA_ESDSA_FIXED	ESDSA fixed
	1		SMA_ERDSA_FIXED	ERDSA fixed
(44)	ADDRESS	4	SMA_SCABLOCKHEAD	Head of SCA block chain
(48)	ADDRESS	4	SMA_SCQBLOCKHEAD	Head of SCQ block chain
(4C)	ADDRESS	4	SMA_SMXBLOCKHEAD	Head of SMX block chain
(50)	ADDRESS	4	SMA_MCAP	-> macro-compat anchor
(54)	ADDRESS	4	SMA_SQEBLOCKHEAD	-> SQE block head
(58)	ADDRESS	4	SMA_SQEFREEHEAD	-> SQE free chain head
(5C)	FULLWORD	4	SMA_SYSTEM_ TASK_RUNS	
(60)	FULLWORD	4	SMA_SYSTEM_ TASK_NOTIFIES	
(64)	ADDRESS	4	SMA_SYSTEM_ SUSPEND_TOKEN	
(68)	CHARACTER	8	SMA_LAST_ RESET_TIME	
				time of last Stats reset
(70)	ADDRESS	4	SMA_SMVAP	-> smv anchor
(74)	FULLWORD	4	SMA_SQE_COUNT	Number of SQEs
(78)	FULLWORD	4	SMA_SMX_COUNT	Number of SMXs
(7C)	CHARACTER	8	*	
(7C)	ADDRESS	4	SMA_PPA_FIRST	-> first PPA

Table 553. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(80)	ADDRESS	4	SMA_PPA_LAST	-> last PPA
(84)	ADDRESS	4	SMA_PPA_ BELOW_HEAD	-> first below 16MB PPA
(88)	ADDRESS	4	SMA_PPA_ ABOVE_HEAD	-> first above 16MB PPA
Following array holds values for each of the DSAs.				
(8C)	CHARACTER	16	* (8)	
(8C)	ADDRESS	4	SMA_PPAP	-> PPA
(90)	FULLWORD	4	SMA_PRIMARY_ EXTENT_SIZE	
				primary extent size
(94)	FULLWORD	4	*	reserved
(98)	FULLWORD	4	*	reserved
(10C)	FULLWORD	4	SMA_SUSPENDED	total suspended reqsts
(110)	ADDRESS	4	SMA_SATP	-> storage access table
(114)	ADDRESS	4	SMA_STATS_ BUFFER_PTR	
				Stats buffer address
(118)	FULLWORD	4	SMA_DSA_LIMIT	DSALIMIT value
(11C)	FULLWORD	4	SMA_EDSA_LIMIT	EDSALIMIT value
(120)	CHARACTER	8	SMA_SQEHEAD	
(120)	ADDRESS	4	SMA_SQE_FIRST	-> first SQE
(124)	ADDRESS	4	SMA_SQE_LAST	-> last SQE
(128)	ADDRESS	4	SMA_DXHP	-> DXH
(12C)	UNSIGNED	4	SMA_DSA_ CURRENT_SIZE	
				current total DSA storage
(130)	UNSIGNED	4	SMA_EDSA_ CURRENT_SIZE	
				current total EDSA storge
(134)	ADDRESS	4	SMA_CTNFREEHEAD	-> first free CTN
(138)	FULLWORD	4	SMA_DSA_ NON_EMPTY	non-empty DSA extent stg
(13C)	FULLWORD	4	SMA_EDSA_ NON_EMPTY	non-empty EDSA extent stg
(140)	FULLWORD	4	*	reserved
Subspace Manager related fields.				

Table 553. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(144)	ADDRESS	4	SMA_SUABLOCK_HEAD	-> SUA blocks
(148)	ADDRESS	4	SMA_SUA_FREE_HEAD	-> SUA free chain
(14C)	CHARACTER	8	* (0-3)	Array of SUA pool chains
(14C)	ADDRESS	4	SMA_SUA_ POOL_FIRST	
				-> first SUA
(150)	ADDRESS	4	SMA_SUA_ POOL_LAST	-> last SUA
(16C)	CHARACTER	8	*	SUA allocated chain
(16C)	ADDRESS	4	SMA_SUA_ ALLOC_FIRST	
				-> first SUA
(170)	ADDRESS	4	SMA_SUA_ ALLOC_LAST	
				-> last SUA
(174)	CHARACTER	8	*	SUA steal chain
(174)	ADDRESS	4	SMA_SUA_ STEAL_FIRST	
				-> first SUA
(178)	ADDRESS	4	SMA_SUA_ STEAL_LAST	
				-> last SUA
(17C)	ADDRESS	4	SMA_COMMON_ SUA_ADDRESS	
				-> common SUA
(180)	UNSIGNED	2	SMA_SUA_ FREE_COUNT	SUA free count
(182)	UNSIGNED	2	SMA_SUA_ ALL_POOLS_COUNT	
				SUA count for all pools
(184)	CHARACTER	4	* (0-3)	
(184)	UNSIGNED	2	SMA_SUA_ POOL_COUNT	
				SUA pool count
(186)	UNSIGNED	2	SMA_SUA_ POOL_MIN	LWM of pool for interval
(194)	UNSIGNED	2	SMA_SUA_ ALLOCATED_COUNT	
				SUA allocated count

Table 553. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(196)	UNSIGNED	2	SMA_DECAYING_ HI_SUA_ ALLOCATED_COUNT	
				decaying HWM of no. sbsps allocd to tasks
(198)	UNSIGNED	4	SMA_ALET_LIMIT	Maximum number of ALETs
(19C)	UNSIGNED	4	SMA_ALET_COUNT	Number of ALETs in use
Do not alter the structure below without altering DFHSMSRI.				
(1A0)	CHARACTER	8	SMA_ISOLATION_ STRUC	
				Isolation token structure
(1A0)	BIT(8)	1	SMA_ISOLATION_ FLAGS	
	1...		SMA_TRANSACTION_ ISOLATION	
				='1' TRANISO active
	.111 1111		*	Reserved
(1A1)	CHARACTER	3	*	Reserved
(1A4)	ADDRESS	4	SMA_QR_TCB	QR TCB ptr
(1A8)	CHARACTER	40	*	Statistics related fields
(1A8)	FULLWORD	4	SMA_COMMON_ SS_CUMULATIVE_ USERS	
				Cummmulative number of common subspace users.
(1AC)	FULLWORD	4	SMA_COMMON_ SS_CURRENT_USERS	
				Current number of common subspace users.
(1B0)	FULLWORD	4	SMA_COMMON_ SS_HWM_OF_USERS	
				High water mark of common subspace users
(1B4)	FULLWORD	4	SMA_UNIQUE_ SS_CUMULATIVE_ USERS	

Table 553. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Cummulative number of unique subspace users.
(1B8)	FULLWORD	4	SMA_UNIQUE_ SS_CURRENT_USERS	
				Current number of unique subspace users.
(1BC)	FULLWORD	4	SMA_UNIQUE_ SS_HWM_OF_USERS	
				High water mark of unique subspace users.
(1C0)	FULLWORD	4	SMA_CUMULATIVE_ ALET_STEALS	
				Cummulative number of ALETs stolen.
(1C4)	FULLWORD	4	SMA_ACTIVE_ TASK_ALET_STEALS	
				Number of ALETs stolen from active tasks.
(1C8)	FULLWORD	4	SMA_NUMBER_ OF_SS_CREATES	
				Number of IARSUBSP create calls.
(1CC)	FULLWORD	4	SMA_NUMBER_ OF_SS_DELETES	
				Number of IARSUBSP delete calls.
(1D0)	UNSIGNED	4	SMA_DSA_ LIMIT_STORAGE	
				actual DSALIMIT storage
(1D4)	UNSIGNED	4	SMA_EDSA_ LIMIT_STORAGE	
				actual EDSALIMIT storage
(1D8)	UNSIGNED	4	SMA_HWM_DSA_SIZE	hwm total dsa storage
(1DC)	UNSIGNED	4	SMA_HWM_ EDSA_SIZE	hwm total edsa storage

Table 553. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1E0)	CHARACTER	8	SMA_LAST_ TUNING_TIME	
				time self-tuning subpool stats were last updated
(1E8)	CHARACTER	8	SMA_SUBPOOL_ CHANGE_STCK	
				time last subpool ch
2 , DELETED BY APAR @0CD				
(1F0)	BIT(32)	4	SMA_SMSY_ECB	
(1F4)	CHARACTER	4	*	reserved
64-bit Storage Manager related fields.				
(1F8)	BIT(64)	8	SMA_GSCQFREEHEAD	HEAD first free GSCQ
(200)	BIT(64)	8	SMA_GSCAFREEHEAD	HEAD first free GSCA
(208)	CHARACTER	16	*	task GSCA chain header
(208)	BIT(64)	8	SMA_GSCA_ TASK_FIRST	
				-> first task GSCA
(210)	BIT(64)	8	SMA_GSCA_ TASK_LAST	
				-> last task GSCA
(218)	CHARACTER	16	*	domain GSCA chain header
(218)	BIT(64)	8	SMA_GSCA_ DOMAIN_FIRST	
				-> first domain GSCA
(220)	BIT(64)	8	SMA_GSCA_ DOMAIN_LAST	
				-> last domain GSCA
(228)	BIT(64)	8	SMA_GSCABLOCKHEAD	HEAD GSCA block chain
(230)	BIT(64)	8	SMA_GSCQBLOCKHEAD	HEAD GSCQ block chain
(238)	BIT(64)	8	SMA_GSQEBLOCKHEAD	HEAD GSQE block head
(240)	BIT(64)	8	SMA_GSQEFREEHEAD	HEAD GSQE free chain head

Table 553. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(248)	FULLWORD	4	SMA_GSQE_COUNT	Number of GSQEs
(24C)	FULLWORD	4	SMA_PROCESS_SEQ	Every time process_suspend _queue executes it will incremented this value
(250)	CHARACTER	16	*	
(250)	BIT(64)	8	SMA_GPPA_FIRST	-> first GPPA
(258)	BIT(64)	8	SMA_GPPA_LAST	-> last GPPA
(260)	CHARACTER	24	* (9-12)	
(260)	BIT(64)	8	SMA_GPPAP	-> GPPA
(268)	BIT(64)	8	SMA_GDSA_ PRIMARY_ EXTENT_SIZE	
				primary extent size
(270)	FULLWORD	4	*	reserved
(274)	FULLWORD	4	*	reserved
(2C0)	BIT(64)	8	SMA_GDSA_LIMIT	GDSALIMIT value (bytes)
(2C8)	CHARACTER	16	SMA_GSQEHEAD	
(2C8)	BIT(64)	8	SMA_GSQE_FIRST	-> first GSQE
(2D0)	BIT(64)	8	SMA_GSQE_LAST	-> last GSQE
(2D8)	BIT(64)	8	SMA_GDSA_ GETSTOR_SIZE	
				Number of megs requested by IARV64 GETSTOR
(2E0)	BIT(64)	8	SMA_GCTNFREEHEAD	-> first free GCTN
(2E8)	BIT(64)	8	SMA_GDSA_ACTIVE	Current CICS megs addressable (unguarded)
(2F0)	BIT(64)	8	SMA_AS_ACTIVE	Current AddressSpace megs addressable (unguarded)
(2F8)	BIT(64)	8	SMA_HWM_ GDSA_ACTIVE	
				hwm gdsa_active megs

Table 553. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(300)	BIT(64)	8	SMA_MEMLIMIT	MEMLIMIT value (MB)
(308)	UNSIGNED	1	SMA_MEMLIMIT_SOURCE	
				MEMLIMIT source
(309)	CHARACTER	7	*	reserved
(310)	BIT(64)	8	SMA_GCA	SMGCA address
(318)	BIT(64)	8	SMA_GCA_OBJSIZE	SMGCA object (GETSTOR) size (requested megs)
(320)	BIT(64)	8	SMA_GCA_P	Ptr to gca structure
(328)	BIT(64)	8	SMA_GCA_ACTSIZE	number of active gca megs
(330)	CHARACTER	16	SMA_TCBTOKEN	JOBSTEP TCBTOKEN
(340)	BIT(64)	8	SMA_GDSA_SOSLIMIT	GDSA SOS limit (MB)
(348)	BIT(64)	8	SMA_GSAEBLOCKHEAD	head of GSAE block chain
(350)	BIT(64)	8	SMA_GSAEFREEHEAD	first free GSAE
(358)	CHARACTER	16	SMA_GSAEHEADQ	Queue of GSAE describing all ATB storage allocated (replaces the SAT
(358)	BIT(64)	8	SMA_GSAE_FIRST	-> first GSAE
(360)	BIT(64)	8	SMA_GSAE_LAST	-> last GSAE
(368)	BIT(64)	8	SMA_ATB_LAST_NOTIFY_FREE_MEGS	
				The free meg size from last reporting
(370)	BIT(64)	8	SMA_ATB_NOTIFY_THRESHOLD	
				Threshhold to trigger further action
(378)	BIT(64)	8	SMA_ATB_CUSHION_RELEASES	
				count of the number of times allocated in the 10%

Table 553. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(380)	BIT(64)	8	SMA_ATB_ CUSHIONLIMIT	
				SOS start with 90% this 5% is the cushion
(388)	BIT(64)	8	SMA_HWM_ AS_ACTIVE	hwm for sam_as_active (MB)@LLA
(390)	CHARACTER	0	*	

```
Array of headers for SUA pool chains.
```

Table 554.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	SMA_SUA_ ARRAY_POOLHEAD (0-3)	
(0)	CHARACTER	8	SMA_SUA_POOLHEAD	

```
  PPA - Page Pool control Area
  There is a PPA for each DSA (ie there are 8). The PPAs are
  chained from the SMA. In addition there is an array in the SMA
  which allows each PPA to be addressed directly.
  Each SCA contains the address of the PPA from which that subpool
is allocated.
  Other blocks chained from the PPA are:
PPA_  NEXT - address of next PPA.
PPA_  PREV - address of previous PPA.
PPA_  PPX_FIRST - address of the first PPX for this DSA.
PPA_  PPX_LAST - address of the last PPX for this DSA.
```

Table 555.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	224	PPA	
(0)	CHARACTER	24	PPA_PREFIX	
(0)	HALFWORD	2	PPA_LENGTH	
(2)	CHARACTER	1	PPA_ARROW	
(3)	CHARACTER	3	PPA_DFH	
(6)	CHARACTER	2	PPA_DOMID	
(8)	CHARACTER	8	PPA_BLOCK_NAME	
(10)	CHARACTER	8	PPA_DSA_NAME	DSA name
(18)	CHARACTER	200	*	
(18)	ADDRESS	4	PPA_NEXT	-> next PPA
(1C)	ADDRESS	4	PPA_PREV	-> previous PPA
(20)	CHARACTER	8	*	
(20)	ADDRESS	4	PPA_PPX_FIRST	-> first PPX
(24)	ADDRESS	4	PPA_PPX_LAST	-> last PPX

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	FULLWORD	4	PPA_PAGESIZE	pagesize
(2C)	FULLWORD	4	PPA_PAGEROUND	pagesize rounding value
(30)	FULLWORD	4	PPA_PRIMARY_ EXTENT_SIZE	
				size of primary extent
(34)	FULLWORD	4	PPA_EXTENT_ MULTIPLE	
				extent multiple value
(38)	FULLWORD	4	PPA_EXTENT_ ROUND	extent rounding value
(3C)	FULLWORD	4	PPA_BOUNDARY	boundary for extents
(40)	FULLWORD	4	PPA_FREE_BYTES	number of free bytes
(44)	FULLWORD	4	PPA_CUSHION_ SIZE	size of cushion
(48)	FULLWORD	4	PPA_LAST_ NOTIFY_FREE_BYTES	
				bytes free last notify
(4C)	FULLWORD	4	PPA_LWM_ FREE_BYTES	
				low water mark free bytes
(50)	FULLWORD	4	PPA_LARGEST_ FREE_AREA	
				size of largest free area
(54)	FULLWORD	4	PPA_SUSPENDS	number of suspends
(58)	FULLWORD	4	PPA_SUSPENDED	number of tasks suspended
(5C)	FULLWORD	4	PPA_HWM_ SUSPENDED	hwm tasks suspended
(60)	FULLWORD	4	PPA_RESUMED	number resumed
(64)	FULLWORD	4	PPA_REQUESTS_ PURGED	
				number purged
(68)	BIT(8)	1	PPA_FLAGS	
	1...		PPA_SOS	='1'B, currently sos
	.1..		PPA_CUSHION_ RELEASED	

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				='1'B, cushion released
	..1.		PPA_ANY	='1'B, DSA is > 16MB
	...1 1111		*	reserved
(69)	UNSIGNED	1	PPA_ACCESS	CICS/USER/ READ_ONLY
(6A)	UNSIGNED	1	PPA_INDEX	CDSA, UDSA etc.
(6B)	UNSIGNED	1	*	reserved
(6C)	FULLWORD	4	PPA_DOMAIN_ GETMAINS	
				getmains for domain subpools already deleted
(70)	FULLWORD	4	PPA_DOMAIN_ FREEMAINS	
				freemains for domain subpools already deleted
(74)	FULLWORD	4	PPA_TASK_ GETMAINS	getmains for task subpools already deleted
(78)	FULLWORD	4	PPA_TASK_ FREEMAINS	
				freemains for task subpools already deleted
(7C)	FULLWORD	4	PPA_TASK_ HWM_PG_STG	
				HWM for total system task subpool page storage
(80)	FULLWORD	4	PPA_TASK_ CUR_PG_STG	
				Current total system task subpool page storage
(84)	FULLWORD	4	PPA_ADD_ SUBPOOLS	add_subpool requests
(88)	FULLWORD	4	PPA_DELETE_ SUBPOOLS	
				delete_subpool requests
(8C)	FULLWORD	4	PPA_GETMAINS_ NOSTG	

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				getmains returning nostg
(90)	FULLWORD	4	PPA_CUSHION_ RELEASES	
				times cushion released
(94)	FULLWORD	4	PPA_TIMES_ WENT_SOS	
				times went SOS
(98)	CHARACTER	8	PPA_TIME_AT_SOS	total time at SOS
(A0)	FULLWORD	4	PPA_HWM_ FREE_BYTES	
				high water mark free bytes
(A4)	FULLWORD	4	PPA_STORAGE_ VIOLATIONS	
				number of stg violations
(A8)	CHARACTER	8	PPA_TIME_ WENT_SOS	time last went SOS
(B0)	FULLWORD	4	PPA_NOTIFY_ THRESHOLD	
				threshold for notifies
(B4)	FULLWORD	4	PPA_SIZE	total size
(B8)	ADDRESS	4	PPA_FREEHEAD	free storage header
(BC)	FULLWORD	4	PPA_HWM_SIZE	HWM total size
(C0)	FULLWORD	4	PPA_LWM_SIZE	LWM total size
(C4)	FULLWORD	4	PPA_EXTENTS	number of extents
(C8)	FULLWORD	4	PPA_EXTENTS_ ADDED	extents added
(CC)	FULLWORD	4	PPA_EXTENTS_ RELEASED	
				extents released
(D0)	FULLWORD	4	PPA_REQUESTED_ CUSHION_SIZE	
				cushion size, passed on ADD_DSA call
(D4)	FULLWORD	4	PPA_PAGESIZE_ SHIFT	
				shift value for pagesize
(D8)	FULLWORD	4	*	reserved

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(DC)	FULLWORD	4	*	reserved
(E0)	CHARACTER	0	*	

```
PPX - Page Pool extent control area.
```

Table 556.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	80	PPX	
(0)	CHARACTER	32	PPX_PREFIX	
(0)	HALFWORD	2	PPX_LENGTH	
(2)	CHARACTER	1	PPX_ARROW	
(3)	CHARACTER	3	PPX_DFH	
(6)	CHARACTER	2	PPX_DOMID	
(8)	CHARACTER	8	PPX_BLOCK_NAME	
(10)	CHARACTER	8	PPX_DSA_NAME	DSA name
(18)	ADDRESS	4	PPX_NEXT	-> next PPX
(1C)	ADDRESS	4	PPX_PREV	-> previous PPX
(20)	CHARACTER	48	*	
(20)	FULLWORD	4	PPX_EXTENT_SIZE	size of extent
(24)	ADDRESS	4	PPX_EXTENT_ START	-> start of extent
(28)	ADDRESS	4	PPX_EXTENT_END	-> last byte of extent
(2C)	ADDRESS	4	PPX_SAEP	-> first SAE for extent
(30)	BIT(8)	1	PPX_FLAGS	
	1...		PPX_PRIMARY	='1'B, primary extent
	.111 1111		*	reserved
(31)	CHARACTER	3	*	reserved
(34)	ADDRESS	4	PPX_PAMP	-> start of PAM
(38)	FULLWORD	4	PPX_PAM_BYTES	length of PAM
(3C)	ADDRESS	4	PPX_PPAP	-> PPA
(40)	FULLWORD	4	PPX_FREE_BYTES	free bytes in this extent
(44)	FULLWORD	4	*	reserved
(48)	FULLWORD	4	*	reserved
(4C)	FULLWORD	4	*	reserved
(50)	CHARACTER	0	*	
(50)	CHARACTER	0	PPX_PAM_START	page allocation map start

```
SAT - Storage access table.
Note also that this declaration must be kept in step with the
corresponding declartion in DFHSMSRI.
```

Table 557.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16928	SAT	
(0)	CHARACTER	16	SAT_PREFIX	eyecatcher
(0)	HALFWORD	2	SAT_LENGTH	
(2)	CHARACTER	1	SAT_ARROW	
(3)	CHARACTER	3	SAT_DFH	
(6)	CHARACTER	2	SAT_DOMID	
(8)	CHARACTER	8	SAT_BLOCK_NAME	
(10)	ADDRESS	4	SAT_BELOWP	-> below vector
(14)	FULLWORD	4	SAT_BELOW_SHIFT	shift for below vector
(18)	ADDRESS	4	SAT_ABOVEP	-> above vector
(1C)	FULLWORD	4	SAT_ABOVE_SHIFT	shift for above vector
(20)	CHARACTER	8	SAT_BELOW (64)	
(220)	CHARACTER	8	SAT_ABOVE (2048)	
(4220)	CHARACTER	0	*	

```
  SAE - Storage access table entry.
Note that sae_ access and sae_ dsa_name overlay sae_extent_end.
Whenever sae_  extent is used, the second halfword must be set to
zero.
  Note also that this declaration must be kept in step with the
  corresponding declartion in DFHSMSRI.
```

Table 558.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	SAE	
(0)	ADDRESS	4	SAE_PPXP	-> PPX
(4)	ADDRESS	4	SAE_EXTENT_END	-> (end of extent)+1
(4)	CHARACTER	2	*	
(6)	UNSIGNED	1	SAE_ACCESS	access value
(7)	UNSIGNED	1	SAE_DSA_NAME	DSA name

```
CTN - Cartesian Tree Node.
There is a CTN for each node in the cartesian tree structure
which is used to manage free storage for a DSA.
```

Table 559.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	CTN	

Table 559. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	ADDRESS	4	CTN_LEFT	-> left son/daughter
(4)	ADDRESS	4	CTN_RIGHT	-> right son/daughter
(8)	ADDRESS	4	CTN_ADDR	address of storage area
(C)	UNSIGNED	4	CTN_LEN	length of storage area
(10)	ADDRESS	4	CTN_PPXP	-> PPX for extent
(14)	ADDRESS	4	*	reserved

```
SMX - Transaction Storage Area.
There is an SMX for each task in the system, excluding true
system tasks ie tasks with no TCA.
Data associated with the task is saved in the SMX, such as the
task lifetime subpool SCA pointers, taskdatakey etc..
The SMXs are chained from the SMA.
```

Table 560.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	68	SMX	
(0)	CHARACTER	12	SMX_PREFIX	
(0)	CHARACTER	4	SMX_EYECATCHER	Eyecatcher
(4)	ADDRESS	4	SMX_NEXT	-> Next SMX
(8)	ADDRESS	4	SMX_PREV	-> Previous SMX
```========== Do NOT alter the offset of SMX_SUBSPACE_TOKEN, SMX_SUBSPACE_TASK or SMX_SUBSPACE_ACTIVE without altering DFHSMSRI. ==========```				
(C)	ADDRESS	4	SMX_SUBSPACE_TOKEN	-> SUA, subspace area
(10)	BIT(8)	1	SMX_FLAGS	Flags
	1...		SMX_CLEAR_STG	='1'B, clear storage on freemaining
	.1..		SMX_FREEZE_STG	='1'B, do not freemain until task end
	..1.		SMX_REMOTE_TRAN	='1'B, task executes remotely
	...1		SMX_ISOLATE	='1'B, task to be isolated from other tasks
	.... 1...		SMX_CICS_DATAKEY	='1'B, task datakey cics
	.... .1..		SMX_TASKDATALOC_ANY	

Table 560. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				='1'B, task dataloc any
	.... ..1.		SMX_SUBSPACE_TASK	='1'B, task eligible to execute in a subspace
	1		SMX_SUBSPACE_ACTIVE	
				='1'B, task is currently executing in a subspace
(11)	CHARACTER	3	*	Reserved
(14)	CHARACTER	4	SMX_TRANSACTION_NUMBER	
				Transaction number in packed decimal format
(18)	CHARACTER	8	SMX_TRANSACTION_TOKEN	
				Transaction token
Table of task lifetime subpool SCA pointers.				
(20)	CHARACTER	16	SMX_SUBPOOL_TOKEN_TABLE	
(20)	ADDRESS	4	SMX_CICS24_P	-> CICS24 SCA
(24)	ADDRESS	4	SMX_CICS31_P	-> CICS31 SCA
(28)	ADDRESS	4	SMX_USER24_P	-> USER24 SCA
(2C)	ADDRESS	4	SMX_USER31_P	-> USER31 SCA
Table of task lifetime subpool GSCA pointers.				
(30)	CHARACTER	16	SMX_SUBPOOL64_TOKEN_TABLE	
(30)	BIT(64)	8	SMX_CICS64_P	-> CICS64 GSCA
(38)	BIT(64)	8	SMX_USER64_P	-> USER64 GSCA
(40)	CHARACTER	4	*	Reserved
(44)	CHARACTER	0	*	

```
  SCA - Subpool Control Area.
  There is a SCA for each active subpool. Active SCAs are chained
  from the SM anchor block. There is also a chain of free SCAs
  chained from the SM anchor block.
  Other blocks chained from the SCA are:
SCA_  ELEMHEAD - head of the element chain.
SCA_  FREEHEAD - head of the free storage chain.
SCA_  PPAP - address of PPA for this subpool.
```

Table 561.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	180	SCA	
(0)	CHARACTER	16	SCA_PREFIX	
(0)	CHARACTER	8	SCA_NAME	subpool name
(8)	ADDRESS	4	SCA_NEXT	-> next SCA
(C)	ADDRESS	4	SCA_PREV	-> prev SCA
(10)	CHARACTER	64	*	
The following fields are grouped together as they are referenced by the in-line macro getmain/free macro DFHSMGFI. >>>> The offsets of these fields must not be changed without changing DFHSMGFI also <<<<.				
(10)	BIT(8)	1	SCA_FLAGS	flags
	1...		SCA_QUICKCELL	='1'B, use quickcell
	.1..		SCA_INLINE	='1'B, inline code poss
	..1.		SCA_ANY	='1'B, location(any), ='0'B, location(below)
	...1		SCA_RESET_ STATS	='1'B, stats to be reset
	.... 1...		SCA_STORAGE_ CHECK	
				='1'B, storage violation checking for this subpool
	.... .1..		SCA_CLEAR_STG	='1'B, clear storage on freemaining
	.... ..1.		SCA_FREEZE_STG	='1'B, do not freemain storage until task end
	1		SCA_SELF_ TUNING	='1'B, self-tuning initial-free area
(11)	UNSIGNED	1	SCA_ACCESS	access of DSA in which subpool is allocated
(12)	UNSIGNED	1	SCA_DSA_INDEX	CDSA, UDSA etc.
(13)	CHARACTER	1	*	reserved
(14)	FULLWORD	4	*	reserved
(18)	FULLWORD	4	SCA_FIXEDLEN	fixed length value
(1C)	ADDRESS	4	SCA_FIRST_QPH	-> first QPH
(20)	ADDRESS	4	SCA_LAST_QPH	-> last QPH

Table 561. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	ADDRESS	4	SCA_FIRST_ FREE_QPH	
				-> first free QPH
(28)	FULLWORD	4	*	reserved
(2C)	HALFWORD	2	SCA_MAX_ FREE_CELLS_LESS1	
				maximum free cells (less 1).
(2E)	HALFWORD	2	SCA_MIN_ FREE_CELLS	
				minimum free cells
(30)	FULLWORD	4	SCA_GETMAINS	number of getmains
(34)	ADDRESS	4	SCA_LOCK_TOKEN	subpool lock token
(38)	FULLWORD	4	SCA_FREEMAINS	number of freemains
(3C)	FULLWORD	4	*	reserved
(40)	FULLWORD	4	*	reserved
The following fields are updated by the SM system task for those subpools which have self-tuning initial-free areas.				
(44)	FULLWORD	4	SCA_TUNING_ INTERVALS	
				self-tuning intervals
(48)	FULLWORD	4	SCA_TUNING_ AVERAGE	
				tuning average
(4C)	FULLWORD	4	*	reserved
(50)	CHARACTER	100	*	
(50)	CHARACTER	16	SCA_ELEMHEAD	elem chain head
(60)	CHARACTER	16	SCA_FREEHEAD	free chain head
(70)	FULLWORD	4	SCA_NUM	second half of token
(74)	ADDRESS	4	SCA_PPAP	-> Page Pool control Area
(78)	CHARACTER	8	SCA_IFAHEAD	
(78)	ADDRESS	4	SCA_IFA_FIRST	-> first ifa
(7C)	ADDRESS	4	SCA_IFA_LAST	-> last ifa
(80)	FULLWORD	4	SCA_INITFREE_ LEN1	primary ifa size
(84)	FULLWORD	4	SCA_OWNER	owning domain index
(88)	BIT(32)	4	SCA_BDYROUND	boundary mask

Table 561. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8C)	HALFWORD	2	SCA_BOUNDARY	boundary
(8E)	CHARACTER	1	*	reserved
(8F)	UNSIGNED	1	SCA_USAGE	usage
(90)	UNSIGNED	1	SCA_ELEMCHAIN	elemchain option
(91)	UNSIGNED	1	SCA_ELEMTYPE	element type
(92)	UNSIGNED	2	SCA_SPID	subpool id
(94)	FULLWORD	4	SCA_INITFREE_ LEN2	secondary ifa size
(98)	FULLWORD	4	SCA_PAGE_ STORAGE	page storage
(9C)	FULLWORD	4	SCA_ELEMENT_ STORAGE	
				element storage (vble only)
(A0)	FULLWORD	4	SCA_NUMELEMS_ LAST_RESET	
				number of elements at last statistics reset time
(A4)	FULLWORD	4	SCA_HWM_ PAGE_STORG	
				Subpool HWM page stg
(A8)	ADDRESS	4	SCA_SMXP	-> SMX
(AC)	ADDRESS	4	SCA_SUBSPACE_ TOKEN	
				-> SUA
(B0)	FULLWORD	4	*	reserved
(B4)	CHARACTER	0	*	

```
IFA - initial-free area descriptor.
```

Table 562.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	IFA	
(0)	ADDRESS	4	IFA_NEXT	-> next ifa
(4)	ADDRESS	4	IFA_PREV	-> previous ifa
(8)	ADDRESS	4	IFA_START	-> area start
(C)	ADDRESS	4	IFA_END	-> area end (last byte+1)
(10)	FULLWORD	4	IFA_LENGTH	length of area
(14)	FULLWORD	4	*	reserved
(18)	CHARACTER	0	*	

```
SPC - subpool catalog record.
```

Table 563.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	SPC	
(0)	FULLWORD	4	SPC_TUNING_ INTERVALS	
				no. of tuning intervals
(4)	FULLWORD	4	*	reserved
(8)	BIT(64)	8	SPC_TUNING_ AVERAGE_ATB	
(8)	FULLWORD	4	*	reserved
(C)	FULLWORD	4	SPC_TUNING_ AVERAGE	
				tuning average

```
SUA - Subspace area.
```

Table 564.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	SUA	
(0)	CHARACTER	20	SUA_PREFIX	
(0)	CHARACTER	4	SUA_EYECATCHER	Eyecatcher
(4)	CHARACTER	8	SUA_POOL_ OR_ALLOC_CHAIN	
				Pool or alloc chain ptrs
(4)	ADDRESS	4	SUA_NEXT	-> next SUA
(8)	ADDRESS	4	SUA_PREV	-> previous SUA
(C)	ADDRESS	4	SUA_STEAL_NEXT	-> next SUA on the steal chain
(10)	ADDRESS	4	SUA_STEAL_PREV	-> previous SUA on the steal chain
```========== Do NOT change the offsets of SUA_QR_ALET or SUA_OPEN_ALET without altering DFHSMSRI. ==========```				
(14)	UNSIGNED	4	SUA_QR_ALET	Suspace ALET (QR TCB)
(18)	UNSIGNED	4	SUA_OPEN_ALET	Suspace ALET (open TCBS)
(1C)	CHARACTER	8	SUA_STOKEN	Subspace STOKEN
(24)	CHARACTER	8	SUA_SUBSPACE_ NAME	MVS assigned name
(2C)	ADDRESS	4	SUA_TASK_TOKEN	-> SMX

Table 564. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	UNSIGNED	4	SUA_POOL_INDEX	Index for pool chains
(34)	BIT(8)	1	SUA_FLAGS	
	1...		SUA_ALLOCATED_TO_TASK	
				'1' SUA on the allocated chain
	.111 1111		*	Reserved
(35)	CHARACTER	3	*	Reserved
(38)	CHARACTER	0	*	

```
SCB - SCA/SCQ/SQE block header.
```

Table 565.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	SCB	
(0)	CHARACTER	32	SCB_PREFIX	
(0)	HALFWORD	2	SCB_LENGTH	
(2)	CHARACTER	1	SCB_ARROW	
(3)	CHARACTER	3	SCB_DFH	
(6)	CHARACTER	2	SCB_DOMID	
(8)	CHARACTER	8	SCB_BLOCK_NAME	
(10)	ADDRESS	4	SCB_NEXT	-> next SCB
(14)	ADDRESS	4	*	reserved
(18)	ADDRESS	4	*	reserved
(1C)	ADDRESS	4	*	reserved
(20)	CHARACTER	0	*	

```
QPH - Quickcell page header block.
Note that offsets must remain the same as within the inline
getmain/freemain macro DFHSMGFI.
```

Table 566.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	QPH	
(0)	CHARACTER	32	QPH_PREFIX	
(0)	HALFWORD	2	QPH_LENGTH	
(2)	CHARACTER	1	QPH_ARROW	
(3)	CHARACTER	3	QPH_DFH	
(6)	CHARACTER	2	QPH_DOMID	
(8)	CHARACTER	8	QPH_BLOCK_NAME	
(10)	CHARACTER	8	QPH_NAME	subpool name
(18)	ADDRESS	4	QPH_NEXT	-> next QPH

Table 566. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	ADDRESS	4	QPH_PREV	-> previous QPH
(20)	CHARACTER	16	*	
(20)	ADDRESS	4	QPH_NEXT_FREE	-> next QPH on free chain
(24)	ADDRESS	4	QPH_FIRST_ FREE_CELL	
				-> first free cell
(28)	HALFWORD	2	QPH_NUMBER_ FREE_CELLS	
				current free cells
(2A)	CHARACTER	2	QPH_FLAGS	
(2A)	BIT(8)	1	*	
	1...		QPH_DONT_ FREE_PAGE	
				='1'b, don't free page when empty
	.1..		QPH_ON_ FREE_CHAIN	
				='1'B, page is on free chain
	..11 1111		*	reserved
(2B)	BIT(8)	1	*	reserved
(2C)	ADDRESS	4	QPH_SCAP	-> SCA owning subpool
(30)	CHARACTER	0	*	

```
QPF - quickcell page free element.
```

Table 567.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	QPF	
(0)	ADDRESS	4	QPF_SCAP	free element check field
(4)	ADDRESS	4	QPF_NEXT	-> next quickcell element

```
SCQ - quickcell element (for SCE and SCF descriptors)
```

Table 568.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	SCQ	
(0)	ADDRESS	4	SCQ_NEXT	-> next quickcell element

```
SCE - element descriptor
```

Table 569.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	SCE	
(0)	CHARACTER	16	SCE_PREFIX	
(0)	ADDRESS	4	SCE_NEXT	-> next element descriptor
(4)	ADDRESS	4	SCE_PREV	-> prev element descriptor
(8)	ADDRESS	4	SCE_ADDR	-> element storage
(C)	FULLWORD	4	SCE_LEN	element length
(10)	CHARACTER	8	*	
(10)	ADDRESS	4	SCE_PPXP	-> PPX
(14)	ADDRESS	4	*	reserved
(18)	CHARACTER	0	*	

```
SCF - free storage descriptor.
```

Table 570.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	SCF	
(0)	CHARACTER	16	SCF_PREFIX	
(0)	ADDRESS	4	SCF_NEXT	-> next SCF
(4)	ADDRESS	4	SCF_PREV	-> previous SCF
(8)	ADDRESS	4	SCF_ADDR	-> free storage block
(C)	FULLWORD	4	SCF_LEN	free storage length
(10)	CHARACTER	8	*	
(10)	ADDRESS	4	SCF_PPXP	-> PPX
(14)	ADDRESS	4	*	reserved
(18)	CHARACTER	0	*	

```
SQE - suspend queue element.
```

Table 571.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	SQE	
(0)	ADDRESS	4	SQE_NEXT	-> next SQE
(4)	ADDRESS	4	SQE_PREV	-> previous SQE
(8)	ADDRESS	4	SQE_SCAP	-> SCA
(C)	FULLWORD	4	SQE_BYTES_ REQUESTED	
				requested bytes
(10)	ADDRESS	4	SQE_SUSPEND_ TOKEN	DS suspend token

Table 571. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	ADDRESS	4	SQE_TASK_TOKEN	KE task token
(18)	CHARACTER	8	SQE_SUSPEND_ START	time suspend issued
(20)	ADDRESS	4	*	Reserved
(24)	CHARACTER	4	SQE_TRANSACTION_ NUMBER	
(28)	BIT(8)	1	SQE_FLAGS	
	1...		SQE_DELETED	logically deleted
	.111 1111		*	reserved
(29)	CHARACTER	3	*	reserved
(2C)	FULLWORD	4	*	reserved
(30)	FULLWORD	4	*	reserved
(34)	CHARACTER	0	*	

```
DXH - DSA extent list header.
Note: DXH/DXE declarations must be kept in step with those in
      DFHSMAFI.
```

Table 572.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	328	DXH	
(0)	CHARACTER	16	DXH_PREFIX	
(0)	HALFWORD	2	DXH_LENGTH	
(2)	CHARACTER	1	DXH_ARROW	
(3)	CHARACTER	3	DXH_DFH	
(6)	CHARACTER	2	DXH_DOMID	
(8)	CHARACTER	8	DXH_BLOCK_NAME	
(10)	CHARACTER	16	*	
(10)	BIT(8)	1	DXH_FLAGS	
	1...		DXH_STORAGE_ PROTECT	
	.1..		DXH_REENTRANT_ PROGRAM_PROTECT	
	..1.		DXH_TRANSACTION_ ISOLATION	
	...1		DXH_LOC_ EXPLICIT	
	 1111		*	
(11)	CHARACTER	3	*	
(14)	ADDRESS	4	DXH_FREE_HEAD	
(18)	FULLWORD	4	DXH_EXTENT_ MULTIPLE_BELOW	

Table 572. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	FULLWORD	4	DXH_EXTENT_ MULTIPLE_ABOVE	
(20)	CHARACTER	120	*	
(20)	CHARACTER	40	DXH_BELOW_ GETMAIN_HEAD	
(48)	CHARACTER	40	DXH_BELOW_ EXTENT_HEAD	
(70)	CHARACTER	40	DXH_BELOW_ LD_CHECK_HEAD	
(98)	CHARACTER	120	*	
(98)	CHARACTER	40	DXH_ABOVE_ GETMAIN_HEAD	
(C0)	CHARACTER	40	DXH_ABOVE_ EXTENT_HEAD	
(E8)	CHARACTER	40	DXH_ABOVE_ LD_CHECK_HEAD	
(110)	CHARACTER	56	*	
(110)	ADDRESS	4	DXH_TRACEP	
(114)	ADDRESS	4	DXH_VGETSP	
(118)	UNSIGNED	4	DXH_GET_ DSALIM_REQUESTS	
(11C)	UNSIGNED	4	DXH_GET_ DSALIM_ REQUESTS_NOSTG	
(120)	UNSIGNED	4	DXH_ALLOCATE_ DSA_EXTENT_ REQUESTS	
(124)	UNSIGNED	4	DXH_EXTENT_ GETMAINS	
(128)	UNSIGNED	4	DXH_EXTENT_ GETMAINS_EXPLICIT	
(12C)	UNSIGNED	4	DXH_EXTENT_ GETMAINS_SINGLE	
(130)	UNSIGNED	4	DXH_EXTENT_ GETMAINS_VTYPE	
(134)	UNSIGNED	4	DXH_EXTENT_ GETMAINS_NOSTG	
(138)	FULLWORD	4	*	reserved
(13C)	FULLWORD	4	*	reserved
(140)	FULLWORD	4	*	reserved
(144)	FULLWORD	4	*	reserved
(148)	CHARACTER	0	*	

```
DXG - DSA extent getmain descriptor.
Note: Next/prev pointers in must be at the same offset as in DXE.
```

Table 573.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	DXG	
(0)	ADDRESS	4	DXG_NEXT	-> next DXG
(4)	ADDRESS	4	DXG_PREV	-> previous DXG
(8)	ADDRESS	4	DXG_ADDR	address of getmained area
(C)	ADDRESS	4	DXG_LEN	length of getmained area
(10)	UNSIGNED	1	DXG_MVS_SUBPOOL	MVS subpool of extent
(11)	UNSIGNED	1	DXG_MVS_KEY	MVS storage key of extent
(12)	CHARACTER	2	*	reserved
(14)	FULLWORD	4	*	reserved

```
DXE - DSA extent list element.
Notes:
1. DXH/DXE declarations must be kept in step with those in
   DFHSMAFI.
2. Next/prev pointers in must be at the same offset as in DXG.
```

Table 574.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	DXE	
(0)	ADDRESS	4	DXE_NEXT	-> next DXE
(4)	ADDRESS	4	DXE_PREV	-> previous DXE
(8)	ADDRESS	4	DXE_LD_ CHECK_NEXT	-> next LD check DXE
(C)	ADDRESS	4	DXE_LD_ CHECK_PREV	-> previous LD check DXE
(10)	ADDRESS	4	DXE_EXTENT_START	-> start of extent
(14)	ADDRESS	4	DXE_EXTENT_END	-> end of extent
(18)	ADDRESS	4	DXE_DXGP	-> "owning" DXG
(1C)	ADDRESS	4	DXE_PPXP	-> PPX for extent
(20)	BIT(8)	1	DXE_FLAGS	flags
	1...		DXE_IDENTIFIED	='1'b, extent identify'd
	.111 1111		*	reserved
(21)	UNSIGNED	1	DXE_DSA_NAME	DSA index of extent
(22)	CHARACTER	2	*	reserved
(24)	FULLWORD	4	*	reserved

```
TRT - Trace Table header (dxh_tracep) and generic entry
Notes:
  Both DFHSMSVC and DFHS2PP will be adding entries in this
```

```
    table tracing the execution of verious MVS macros.
    details of the trace entries will be described in the
    module that create it.
  Trace declarations
```

Table 575.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	TRACE_TABLE	
(0)	HALFWORD	2	TRT_LEN	
(2)	CHARACTER	14	TRT_EYE	
(10)	ADDRESS	4	TRT_STARTP	
(14)	ADDRESS	4	TRT_ENDP	
(18)	ADDRESS	4	TRT_CURRP	
(1C)	FULLWORD	4	*	

```
Trace entry data structures.
Each MVS macro is traced. For each macro there is an input trace
entry, denoted by 'IN', and an output trace entry, denoted by
'OUT'. Trace entries do not exceed 32 bytes those macros that
have more than 32 bytes of trace data have a trace entry
extension, denoted by 'EXT'.
Not to exceed 32 bytes in length!
```

Table 576.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	TRACE_ENTRY	
(0)	CHARACTER	4	TRACE_NAME	
(4)	CHARACTER	4	TRACE_TYPE	
(8)	CHARACTER	16	TRACE_PARMS	
(18)	CHARACTER	8	TRACE_TIME	Time stamp

```
Catalog record.
```

Table 577.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	CAT	
(0)	BIT(32)	4	CAT_FLAGS	
(0)	BIT(8)	1	*	
	1...		CAT_STORAGE_ PROTECT_REQ	
				stgprot reqd
	.1..		CAT_TRAN_ ISOLATION_REQ	
				traniso reqd
	..11 1111		*	reserved
(1)	BIT(24)	3	*	reserved
(4)	CHARACTER	8	*	
(4)	UNSIGNED	4	CAT_DSA_LIMIT	

Table 577. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	UNSIGNED	4	CAT_EDSA_LIMIT	
(C)	CHARACTER	0	*	

```
SMA browse dsect
```

Table 578.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	SMABD	
(0)	HALFWORD	2	SMABD_INDEX	DSA index
(2)	HALFWORD	2	SMABD_GDSA_INDEX	GDSA index
(4)	ADDRESS	4	SMABD_SCA_PTR	SCA address
(8)	BIT(64)	8	SMABD_GSCA_PTR	GSCA address
(10)	CHARACTER	8	SMABD_NAME	Subpool name
(18)	CHARACTER	8	SMABD_GSCA_NAME	GSCA subpool name
(20)	CHARACTER	8	SMABD_START_TIME	Time of browse start
(28)	CHARACTER	8	SMABD_GSCA_START_TIME	
				Time of browse start

```
GCA - Above Bar Control area
This control block is used to manage control storage used for
managing the above the bar storage. Instead of getmaining this
storage we will just carve pieces from this storage.
```

Table 579.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	GCA	
(0)	CHARACTER	16	GCA_PREFIX	
(0)	CHARACTER	8	GCA_BLOCK_NAME	Eyecatcher
(8)	UNSIGNED	4	GCA_LENGTH	Length of this gca area
(C)	CHARACTER	4	*	Unused
(10)	BIT(64)	8	GCA_FREESTG_ADDR	Address of free storage segment
(18)	BIT(64)	8	GCA_FREESTG_LEN	Length of free storage
(20)	BIT(64)	8	GCA_GUARDED_START	ADDR of the guarded segment
(28)	BIT(64)	8	GCA_GUARDED_SIZE	Number of megs available for ungarding

Table 579. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	BIT(64)	8	GCA_SECONDARY_Q	Returned storage not part of main gca_freestg_addr
(38)	CHARACTER	0	*	

```
  GPPA - Page Pool control Area
  There is a GPPA for each GDSA (ie there are 4). The GPPAs are
  chained from the SMA. In addition there is an array in the SMA
  which allows each GPPA to be addressed directly.
  Each GSCA contains the address of the GPPA from which that subpool
is allocated.
  Other blocks chained from the GPPA are:
GPPA_  NEXT - address of next GPPA.
GPPA_  PREV - address of previous GPPA.
GPPA_  GPPX_FIRST - address of the first GPPX for this GDSA.
GPPA_  GPPX_LAST - address of the last GPPX for this GDSA.
```

Table 580.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	308	GPPA	
(0)	CHARACTER	24	GPPA_PREFIX	
(0)	HALFWORD	2	GPPA_LENGTH	
(2)	CHARACTER	1	GPPA_ARROW	
(3)	CHARACTER	3	GPPA_DFH	
(6)	CHARACTER	2	GPPA_DOMID	
(8)	CHARACTER	8	GPPA_BLOCK_NAME	
(10)	CHARACTER	8	GPPA_GDSA_NAME	GDSA name
(18)	CHARACTER	284	*	
(18)	BIT(64)	8	GPPA_NEXT	-> next GPPA
(20)	BIT(64)	8	GPPA_PREV	-> previous GPPA
(28)	CHARACTER	16	*	
(28)	BIT(64)	8	GPPA_GPPX_ FIRST	-> first GPPX
(30)	BIT(64)	8	GPPA_GPPX_LAST	-> last GPPX
(38)	BIT(64)	8	GPPA_PAGESIZE	pagesize (MB) !
(40)	BIT(64)	8	GPPA_PAGEROUND	pagesize rounding value !@L4C
(48)	BIT(64)	8	GPPA_PRIMARY_ EXTENT_SIZE	
				size primary extent(MB) !@L4C
(50)	BIT(64)	8	GPPA_EXTENT_ MULTIPLE	
				extent multiple value(MB)!@L4C

Table 580. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	BIT(64)	8	GPPA_EXTENT_ ROUND	extent rounding value !@L4C
(60)	BIT(64)	8	GPPA_BOUNDARY	not used (gpl)
(68)	BIT(64)	8	GPPA_GETSTOR_ SIZE	Total size of storage !@L4C assigned to this gppa(MB)
(70)	BIT(64)	8	GPPA_ACTIVE_ SIZE	Current size of active !@L4C (unguarded) storage(MB)
(78)	BIT(64)	8	GPPA_HWM_ ACTIVE_SIZE	
				High water mark of active!@L4C storage(MB)
(80)	CHARACTER	8	*	unused !@L4C
(88)	BIT(64)	8	GPPA_LAST_ NOTIFY_FREE_BYTES	
				not used (gpl) !@L4C
(90)	CHARACTER	8	*	unused !@L4C
(98)	FULLWORD	4	GPPA_SUSPENDS	number of suspends
(9C)	FULLWORD	4	GPPA_SUSPENDED	number of tasks suspended
(A0)	FULLWORD	4	GPPA_HWM_ SUSPENDED	
				hwm tasks suspended
(A4)	FULLWORD	4	GPPA_RESUMED	number resumed
(A8)	FULLWORD	4	GPPA_REQUESTS_ PURGED	
				number purged
(AC)	BIT(8)	1	GPPA_FLAGS	
	1...		GPPA_SOS	='1'B, currently sos
	.111 1111		*	reserved
(AD)	UNSIGNED	1	GPPA_ACCESS	CICS/USER/ READ_ONLY
(AE)	UNSIGNED	1	GPPA_INDEX	CDSA, UDSA etc.
(AF)	UNSIGNED	1	*	reserved
(B0)	FULLWORD	4	GPPA_DOMAIN_ GETMAINS	

Table 580. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				getmains for domain subpools already deleted
(B4)	FULLWORD	4	GPPA_DOMAIN_ FREEMAINS	
				freemains for domain subpools already deleted
(B8)	FULLWORD	4	GPPA_TASK_ GETMAINS	
				getmains for task subpools already deleted
(BC)	FULLWORD	4	GPPA_TASK_ FREEMAINS	
				freemains for task subpools already deleted
(C0)	FULLWORD	4	GPPA_TASK_ HWM_PG_STG	
				HWM for total system task subpool page storage
(C4)	FULLWORD	4	GPPA_TASK_ CUR_PG_STG	
				Current total system task subpool page storage
(C8)	FULLWORD	4	GPPA_ADD_ SUBPOOLS	add_subpool requests
(CC)	FULLWORD	4	GPPA_DELETE_ SUBPOOLS	
				delete_subpool requests
(D0)	FULLWORD	4	GPPA_GETMAINS_ NOSTG	
				getmains returning nostg
(D4)	FULLWORD	4	GPPA_CUSHION_ RELEASES	
				not used (gpl) !@L4C
(D8)	FULLWORD	4	GPPA_TIMES_ WENT_SOS	
				times went SOS

Table 580. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(DC)	CHARACTER	8	GPPA_TIME_ AT_SOS	total time at SOS
(E4)	CHARACTER	4	*	reserved
(E8)	CHARACTER	8	*	unused !@L4C
(F0)	FULLWORD	4	GPPA_STORAGE_ VIOLATIONS	
				number of stg violations
(F4)	CHARACTER	8	GPPA_TIME_ WENT_SOS	
				time last went SOS
(FC)	FULLWORD	4	GPPA_NOTIFY_ THRESHOLD	
				not used !@L4C
(100)	BIT(64)	8	GPPA_FREEHEAD	free storage header
(108)	BIT(64)	8	GPPA_LWM_SIZE	not used (gpl) !
(110)	FULLWORD	4	GPPA_EXTENTS	number of extents
(114)	CHARACTER	8	*	unused !@L4C
(11C)	FULLWORD	4	GPPA_PROCESS_ SEQ	Every time process_suspend_ runs, this value is compared to sma_process_seq will be used to determine if gppa_min_ megs_to_expand needs to be re-established.
(120)	BIT(64)	8	GPPA_MIN_ MEGS_TO_EXPAND	
				Minimum amount of storage needed for a subpool expansion.
(128)	FULLWORD	4	GPPA_PAGESIZE_ SHIFT	
				shift value for pagesize
(12C)	FULLWORD	4	*	reserved
(130)	FULLWORD	4	*	reserved
(134)	CHARACTER	0	*	

```
GPPX - Page Pool extent control area.
```

Table 581.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	120	GPPX	
(0)	CHARACTER	40	GPPX_PREFIX	
(0)	HALFWORD	2	GPPX_LENGTH	
(2)	CHARACTER	1	GPPX_ARROW	
(3)	CHARACTER	3	GPPX_DFH	
(6)	CHARACTER	2	GPPX_DOMID	
(8)	CHARACTER	8	GPPX_BLOCK_NAME	
(10)	CHARACTER	8	GPPX_GDSA_NAME	GDSA name
(18)	BIT(64)	8	GPPX_NEXT	-> next GPPX
(20)	BIT(64)	8	GPPX_PREV	-> previous GPPX
(28)	CHARACTER	80	*	
(28)	BIT(64)	8	GPPX_EXTENT_SIZE	size of extent (megs) !@L4C
(30)	BIT(64)	8	GPPX_EXTENT_START	-> start of extent
(38)	BIT(64)	8	GPPX_EXTENT_END	-> last byte of extent
(40)	CHARACTER	4	*	reserved
(44)	BIT(8)	1	GPPX_FLAGS	
	1...		GPPX_PRIMARY	='1'B, primary extent
	.111 1111		*	reserved
(45)	CHARACTER	3	*	reserved
(48)	BIT(64)	8	GPPX_PAMP	-> start of PAM
(50)	BIT(64)	8	GPPX_PAM_BYTES	length of PAM !
(58)	BIT(64)	8	GPPX_GPPAP	-> GPPA
(60)	BIT(64)	8	GPPX_FREE_MEGS	free megs in this extent !@L4C
(68)	CHARACTER	16	*	unused
(78)	CHARACTER	0	GPPX_PAM_START	page allocation map start

```
   Definition of ATB Page Allocation table entry
THIS ENTRY "MUST" BE A LENGTH OF A POWER OF 2 !!!!!
```

Table 582.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	GPAM_ENTRY	
(0)	BIT(8)	1	GPAM_FLAGS	Flags
	1...		GPAM_LAST_GUARD	Last meg of this page guarded
	.111 1111		*	unused

Table 582. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	BIT(8)	1	*	unused
(2)	BIT(16)	2	GPAM_SPID	subpool ID

```
GSAE - ATB Storage Allocation Element
All storage above the bar is allocated when demanded. Since the
address range is endless, a queue of storage descriptors will
employed as an alternative to the traditional SAT. This queue
will be arranged in address ascending order.
```

Table 583.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	GSAE	
(0)	BIT(64)	8	GSAE_NEXT	address of the next gsae
(8)	BIT(64)	8	GSAE_PREV	address of the previous gsae
(10)	BIT(64)	8	GSAE_STARTP	address of the 1st byte
(18)	BIT(64)	8	GSAE_ENDP	address of the last byte
(20)	BIT(64)	8	GSAE_GPPXP	address of the gppx established when the storage allocated
(28)	CHARACTER	8	*	
(28)	UNSIGNED	1	GSAE_ACCESS	access value
(29)	UNSIGNED	1	GSAE_GDSA_NAME	GDSA name
(2A)	CHARACTER	6	*	reserved
(30)	CHARACTER	0	*	

```
GCTN - Cartesian Tree Node.
There is a GCTN for each node in the cartesian tree structure
which is used to manage free storage for a GDSA.
```

Table 584.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	GCTN	
(0)	BIT(64)	8	GCTN_LEFT	-> left son/daughter
(8)	BIT(64)	8	GCTN_RIGHT	-> right son/daughter
(10)	BIT(64)	8	GCTN_ADDR	address of storage area
(18)	BIT(64)	8	GCTN_LEN	length of storage area !@L4C
(20)	BIT(64)	8	GCTN_GPPXP	-> GPPX for extent
(28)	CHARACTER	24	*	reserved

```
GSCA - Subpool Control Area.
There is a GSCA for each active subpool. Active SCAs are chained
from the SM anchor block. There is also a chain of free SCAs
chained from the SM anchor block.
Other blocks chained from the GSCA are:
GSCA_ELEMHEAD - head of the element chain.
GSCA_FREEHEAD - head of the free storage chain.
GSCA_GPPAP - address of GPPA for this subpool.
```

Table 585.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	276	GSCA	
(0)	CHARACTER	24	GSCA_PREFIX	
(0)	CHARACTER	8	GSCA_NAME	subpool name
(8)	BIT(64)	8	GSCA_NEXT	-> next GSCA
(10)	BIT(64)	8	GSCA_PREV	-> prev GSCA
(18)	CHARACTER	80	*	
The following fields are grouped together as they are referenced by the in-line macro getmain/free macro DFHSMGFI. >>>> The offsets of these fields must not be changed without changing DFHSMGFI also <<<<.				
(18)	BIT(8)	1	GSCA_FLAGS	flags
	1...		GSCA_QUICKCELL	='1'B, use quickcell
	.1..		GSCA_INLINE	='1'B, inline code poss
	..1.		GSCA_SHARED	='1'B, location(shared) ='0'B, location(private)
	...1		GSCA_RESET_STATS	='1'B, stats to be reset
	.... 1...		GSCA_STORAGE_CHECK	='1'B, storage violation checking for this subpool
	.... .1..		GSCA_CLEAR_STG	='1'B, clear storage on freemaining
	.... ..1.		GSCA_FREEZE_STG	='1'B, do not freemain storage until task end
	1		GSCA_SELF_TUNING	='1'B, self-tuning initial-free area
(19)	UNSIGNED	1	GSCA_ACCESS	access of GDSA in which subpool is allocated
(1A)	UNSIGNED	1	GSCA_GDSA_INDEX	GDSA, UDSA etc.

Table 585. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1B)	CHARACTER	1	*	reserved
(1C)	FULLWORD	4	*	reserved
(20)	BIT(64)	8	GSCA_FIXEDLEN	fixed length value
(28)	BIT(64)	8	GSCA_FIRST_GQPH	-> first GQPH
(30)	BIT(64)	8	GSCA_LAST_GQPH	-> last GQPH
(38)	BIT(64)	8	GSCA_FIRST_ FREE_GQPH	
				-> first free GQPH
(40)	FULLWORD	4	GSCA_MAX_ FREE_CELLS_LESS1	
				maximum free cells (less 1)
(44)	FULLWORD	4	GSCA_MIN_ FREE_CELLS	
				minimum free cells
(48)	BIT(64)	8	GSCA_LARGEST_ FREE	freemains will update this value when freeing storage back to the subpools
(50)	FULLWORD	4	GSCA_GETMAINS	number of getmains
(54)	ADDRESS	4	GSCA_LOCK_TOKEN	subpool lock token
(58)	FULLWORD	4	GSCA_FREEMAINS	number of freemains
The following fields are updated by the SM system task for those subpools which have self-tuning initial-free areas.				
(5C)	FULLWORD	4	GSCA_TUNING_ INTERVALS	
				self-tuning intervals
(60)	BIT(64)	8	GSCA_TUNING_ AVERAGE	
				tuning average
(68)	CHARACTER	172	*	
(68)	CHARACTER	32	GSCA_ELEMHEAD	elem chain head
(88)	CHARACTER	32	GSCA_FREEHEAD	free chain head
(A8)	FULLWORD	4	GSCA_NUM	second half of token
(AC)	CHARACTER	4	*	reserved

Table 585. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	BIT(64)	8	GSCA_GPPAP	-> Page Pool control Area
(B8)	CHARACTER	16	GSCA_GIFAHEAD	
(B8)	BIT(64)	8	GSCA_GIFA_ FIRST	-> first GIFA
(C0)	BIT(64)	8	GSCA_GIFA_LAST	-> last GIFA
(C8)	BIT(64)	8	GSCA_INITFREE_ LEN1	
				primary GIFA size
(D0)	FULLWORD	4	GSCA_OWNER	owning domain index
(D4)	CHARACTER	7	*	reserved
(DB)	UNSIGNED	1	GSCA_USAGE	usage
(DC)	UNSIGNED	1	GSCA_ELEMCHAIN	elemchain option
(DD)	UNSIGNED	1	GSCA_ELEMTYPE	element type
(DE)	UNSIGNED	2	GSCA_SPID	subpool id
(E0)	BIT(64)	8	GSCA_HOLD_LEN	As we learn the usage of subpool this value is the max len we will retain for this subpool - see max_gsca_hold
(E8)	BIT(64)	8	GSCA_PAGE_ STORAGE	page storage
(F0)	BIT(64)	8	GSCA_ELEMENT_ STORAGE	
				element storage (vble only)
(F8)	FULLWORD	4	GSCA_NUMELEMS_ LAST_RESET	
				number of elements at last statistics reset time
(FC)	CHARACTER	4	*	reserved
(100)	BIT(64)	8	GSCA_HWM_ PAGE_STORG	
				Subpool HWM page stg
(108)	ADDRESS	4	GSCA_SMXP	-> SMX
(10C)	ADDRESS	4	GSCA_SUBSPACE_ TOKEN	
				-> SUA
(110)	FULLWORD	4	*	reserved

Table 585. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(114)	CHARACTER	0	*	

```
GIFA - initial-free area descriptor.
```

Table 586.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	GIFA	
(0)	BIT(64)	8	GIFA_NEXT	-> next GIFA
(8)	BIT(64)	8	GIFA_PREV	-> previous GIFA
(10)	BIT(64)	8	GIFA_START	-> area start
(18)	BIT(64)	8	GIFA_LENGTH	length of area
(20)	CHARACTER	32	*	
(20)	BIT(64)	8	GIFA_GPPXP	-> GPPX
(28)	BIT(64)	8	GIFA_END	-> area end (last byte+1)
(30)	CHARACTER	16	*	reserved
(40)	CHARACTER	0	*	

```
GSCB - GCTN/GSAE/GSCA/GSCQ/GSQE block header.
```

Table 587.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	GSCB	
(0)	CHARACTER	32	GSCB_PREFIX	
(0)	HALFWORD	2	GSCB_LENGTH	
(2)	CHARACTER	1	GSCB_ARROW	
(3)	CHARACTER	3	GSCB_DFH	
(6)	CHARACTER	2	GSCB_DOMID	
(8)	CHARACTER	8	GSCB_BLOCK_NAME	
(10)	BIT(64)	8	GSCB_NEXT	-> next GSCB
(18)	ADDRESS	4	*	reserved
(1C)	ADDRESS	4	*	reserved
(20)	CHARACTER	0	*	

```
GQPH - Quickcell page header block.
Note that offsets must remain the same as within the inline
getmain/freemain macro DFHS2GFI.
```

Table 588.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	72	GQPH	
(0)	CHARACTER	40	GQPH_PREFIX	
(0)	HALFWORD	2	GQPH_LENGTH	

Table 588. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER	1	GQPH_ARROW	
(3)	CHARACTER	3	GQPH_DFH	
(6)	CHARACTER	2	GQPH_DOMID	
(8)	CHARACTER	8	GQPH_BLOCK_NAME	
(10)	CHARACTER	8	GQPH_NAME	subpool name
(18)	BIT(64)	8	GQPH_NEXT	-> next GQPH
(20)	BIT(64)	8	GQPH_PREV	-> previous GQPH
(28)	CHARACTER	32	*	
(28)	BIT(64)	8	GQPH_NEXT_FREE	-> next GQPH on free chain
(30)	BIT(64)	8	GQPH_FIRST_ FREE_CELL	
				-> first free cell
(38)	FULLWORD	4	GQPH_NUMBER_ FREE_CELLS	
				current free cells
(3C)	CHARACTER	4	GQPH_FLAGS	
(3C)	BIT(8)	1	*	
	1...		GQPH_DONT_ FREE_PAGE	
				='1'b, don't free page when empty
	.1..		GQPH_ON_ FREE_CHAIN	
				='1'B, page is on free chain
	..11 1111		*	reserved
(3D)	BIT(24)	3	*	reserved
(40)	BIT(64)	8	GQPH_GSCAP	-> GSCA owning subpool
(48)	CHARACTER	0	*	

GQPF - quickcell page free element.

Table 589.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	GQPF	
(0)	BIT(64)	8	GQPF_GSCAP	free element check field
(8)	BIT(64)	8	GQPF_NEXT	-> next quickcell element

GSCQ - quickcell element (for GSCE and GSCF descriptors)

Table 590.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	GSCQ	
(0)	BIT(64)	8	GSCQ_NEXT	-> next quickcell element

```
GSCE - element descriptor
```

Table 591.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	GSCE	
(0)	CHARACTER	32	GSCE_PREFIX	
(0)	BIT(64)	8	GSCE_NEXT	-> next element descriptor
(8)	BIT(64)	8	GSCE_PREV	-> prev element descriptor
(10)	BIT(64)	8	GSCE_ADDR	-> element storage
(18)	BIT(64)	8	GSCE_LEN	element length
(20)	CHARACTER	32	*	
(20)	BIT(64)	8	GSCE_GPPXP	-> GPPX
(28)	CHARACTER	24	*	reserved
(40)	CHARACTER	0	*	

```
GSCF - free storage descriptor.
```

Table 592.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	GSCF	
(0)	CHARACTER	32	GSCF_PREFIX	
(0)	BIT(64)	8	GSCF_NEXT	-> next GSCF
(8)	BIT(64)	8	GSCF_PREV	-> previous GSCF
(10)	BIT(64)	8	GSCF_ADDR	-> free storage block
(18)	BIT(64)	8	GSCF_LEN	free storage length
(20)	CHARACTER	32	*	
(20)	BIT(64)	8	GSCF_GPPXP	-> GPPX
(28)	CHARACTER	24	*	reserved
(40)	CHARACTER	0	*	

```
GSQE - suspend queue element.
```

Table 593.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	GSQE	

Table 593. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	BIT(64)	8	GSQE_NEXT	-> next GSQE
(8)	BIT(64)	8	GSQE_PREV	-> previous GSQE
(10)	BIT(64)	8	GSQE_GSCAP	-> GSCA
(18)	BIT(64)	8	GSQE_BYTES_ REQUESTED	
				requested bytes
(20)	BIT(64)	8	GSQE_MEGS_ TO_EXPAND	
				subpool expansion size
(28)	ADDRESS	4	GSQE_SUSPEND_ TOKEN	DS suspend token
(2C)	ADDRESS	4	GSQE_TASK_TOKEN	KE task token
(30)	CHARACTER	8	GSQE_SUSPEND_ START	time suspend issued
(38)	CHARACTER	4	GSQE_TRANSACTION_ NUMBER	
(3C)	BIT(8)	1	GSQE_FLAGS	
	1...		GSQE_DELETED	logically deleted
	.111 1111		*	reserved
(3D)	CHARACTER	3	*	reserved
(40)	CHARACTER	0	*	

Constants

Table 594.

Len	Type	value	Name	Description
4	CHARACTER	>SMX	SMX_NAME	Eyecatcher
8	CHARACTER	SMSUBPOL	SPC_TYPE	
Subpool name in SCA header block.				
8	CHARACTER	(HEADER)	SCA_HEAD_NAME	
8	CHARACTER	(FREE)	SCA_FREE_NAME	
4	CHARACTER	>SUA	SUA_NAME	Eyecatcher
Block names for above.				
8	CHARACTER	DXEBLOCK	DXEBLOCK_NAME	
8	CHARACTER	SATBLOCK	SATBLOCK_NAME	
8	CHARACTER	SCABLOCK	SCABLOCK_NAME	
8	CHARACTER	SCQBLOCK	SCQBLOCK_NAME	
8	CHARACTER	SQEBLOCK	SQEBLOCK_NAME	
8	CHARACTER	SMXBLOCK	SMXBLOCK_NAME	
8	CHARACTER	SUABLOCK	SUABLOCK_NAME	

Table 594. (continued)

Len	Type	value	Name	Description
14	CHARACTER	>DFHSMSVCTRACE	TRT_EYE_CATCHER	
8	CHARACTER	SMDOMAIN	CAT_TYPE	
8	CHARACTER	SMSTATE	CAT_NAME	
Miscellaneous constants.				
1	CHARACTER	>	ARROW	
4	DECIMAL	8	BDY8	
4	DECIMAL	16	BDY16	
4	HEX	FFFFFFF0	BDY16ROUND	
4	DECIMAL	32	BDY32	
4	HEX	FFFFFFE0	BDY32ROUND	
4	DECIMAL	4096	BDY4096	
4	HEX	FFFFF000	BDY4096ROUND	
4	DECIMAL	255	SYSTEM_TASK_PRIORITY	
8	CHARACTER	SMSYSTEM	SYSTEM_TASK_ SUSPEND_NAME	
4	DECIMAL	300	SYSTEM_TASK_ SUSPEND_INTERVAL	
4	DECIMAL	60	SYSTEM_TASK_ SUSPEND_INTERVAL_ ATB	
4	DECIMAL	2	SYSTEM_TASK_ SUSPEND_INTERVAL_ SOS	
4	DECIMAL	16777216	MB16	
8	CHARACTER	SMLOCK	SMLOCK_NAME	
4	HEX	7FFFFFFF	SCF_NULL	
8	HEX	FFFFFFFFFFFFFFFF	SCF_NULL	
4	DECIMAL	16384	BYTES_FOR_ ABENDING_TASKS	
4	DECIMAL	100	MXT_ADJUSTMENT	
4	DECIMAL	128	STORAGE_VIOLATION_ DATA_LEN	
Pre-allocated subpool id's.				
4	DECIMAL	0	SPID_FREE	free page/segment
4	DECIMAL	1	SPID_TASK_CICS24	CICS24 spid
4	DECIMAL	2	SPID_TASK_USER24	USER24 spid
4	DECIMAL	3	SPID_TASK_CICS31	CICS31 spid
4	DECIMAL	4	SPID_TASK_USER31	USER31 spid
4	DECIMAL	5	SPID_TASK_CICS64	CICS31 spid
4	DECIMAL	6	SPID_TASK_USER64	USER31 spid

Table 594. (continued)

Len	Type	value	Name	Description
4	DECIMAL	7	SPID_DOMAIN_FIRST	First domain spid
Prefixes for task subpool names.				
1	CHARACTER	M	PREF_TASK_CICS	24
1	CHARACTER	B	PREF_TASK_USER	24
1	CHARACTER	C	PREF_TASK_CICS	31
1	CHARACTER	U	PREF_TASK_USER	31
1	CHARACTER	G	PREF_TASK_CICS	64
1	CHARACTER	H	PREF_TASK_USER	64
Trace point id's.				
2	HEX	0101	TID_SMDM_ENTRY	
2	HEX	0102	TID_SMDM_EXIT	
2	HEX	0103	TID_SMDM_RECOVERY	
2	HEX	0104	TID_SMDM_NOSTG_SMA	
2	HEX	0109	TID_SMDM_ NOSTG_SCAB	
2	HEX	010A	TID_SMDM_ NOSTG_SCQB	
2	HEX	010C	TID_SMDM_ STCK_ERROR	
2	HEX	010D	TID_SMDM_ NOSTG_STAB	
2	HEX	010E	TID_SMDM_ NOSTG_SMXB	
2	HEX	010F	TID_SMDM_ INVALID_FORMAT	
2	HEX	0110	TID_SMDM_ INVALID_FUNCTION	
2	HEX	0111	TID_SMDM_ NOSTG_REQ_DSALIM	
2	HEX	0112	TID_SMDM_ NOSTG_REQ_EDSALIM	
2	HEX	0113	TID_SMDM_ NOSTG_DFT_DSALIM	
2	HEX	0114	TID_SMDM_ NOSTG_DFT_EDSALIM	
2	HEX	0115	TID_SMDM_ SVC_CALL_FAIL	
2	HEX	0116	TID_SMDM_NOSTG_DSA	
2	HEX	0117	TID_SMDM_ NOSTG_GSCAB	
2	HEX	0118	TID_SMDM_ NOSTG_GSCQB	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	0119	TID_SMDM_ NOSTG_GDSA	
2	HEX	0120	TID_SMDM_ NOSTG_REQ_GDSALIM	
2	HEX	0121	TID_SMDM_ NOSTG_DFT_GDSALIM	
2	HEX	0201	TID_SMAD_ENTRY	
2	HEX	0202	TID_SMAD_EXIT	
2	HEX	0203	TID_SMAD_RECOVERY	
2	HEX	0204	TID_SMAD_ INVALID_FORMAT	
2	HEX	0205	TID_SMAD_ INVALID_FUNCTION	
2	HEX	0206	TID_SMAD_ NO_MVS_STORAGE	
2	HEX	0207	TID_SMAD_ SUBPOOL_NOT_EMPTY	
2	HEX	0208	TID_SMAD_ INVALID_SUBPOOL_ TOKEN	
2	HEX	0209	TID_SMAD_REPOS	
2	HEX	020A	TID_SMAD_ BR_NOSTORE	
2	HEX	0F01	TID_SMAR_ENTRY	
2	HEX	0F02	TID_SMAR_EXIT	
2	HEX	0F03	TID_SMAR_RECOVERY	
2	HEX	0F04	TID_SMAR_ INVALID_FORMAT	
2	HEX	0F05	TID_SMAR_ INVALID_FUNCTION	
2	HEX	0F06	TID_SMAR_ SET_TRAN_TOKEN_ FAIL	
2	HEX	0F07	TID_SMAR_ INQ_TRAN_FAIL	
2	HEX	0F08	TID_SMAR_ INQ_TRAN_TOKEN_ FAIL	
2	HEX	0F09	TID_SMAR_ NO_MVS_STORAGE_ SCA	
2	HEX	0F0A	TID_SMAR_ NO_MVS_STORAGE_ SCQ	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	0F0B	TID_SMAR_ NO_MVS_STORAGE_ SMX	
2	HEX	0F0C	TID_SMAR_ STGCHK_FAILURE	
2	HEX	0F0D	TID_SMAR_ FREEMAIN_ELEM	
2	HEX	0F0E	TID_SMAR_ STG_VIOL_PCT_INC_ FAIL	
2	HEX	0F0F	TID_SMAR_ STG_VIOL_TCT_INC_ FAIL	
2	HEX	0301	TID_SMGF_ENTRY	
2	HEX	0302	TID_SMGF_EXIT	
2	HEX	0303	TID_SMGF_RECOVERY	
2	HEX	0304	TID_SMGF_ INVALID_FUNCTION	
2	HEX	0305	TID_SMGF_ INVALID_ADDRESS	
2	HEX	0306	TID_SMGF_ NO_MVS_STORAGE	
2	HEX	030A	TID_SMGF_ INSUFFICIENT_STORAGE	
2	HEX	030B	TID_SMGF_ STGCHK_FAILURE	
2	HEX	030C	TID_SMGF_ INVALID_INITIAL_ IMAGE	
2	HEX	030D	TID_SMGF_ QCELL_GETMAIN_ INV_QPF	
2	HEX	030E	TID_SMGF_ QCELL_FREEMAIN_ INV_QPH	
2	HEX	030F	TID_SMGF_ QCELL_ALREADY_ FREE	
2	HEX	0310	TID_SMGF_ QCELL_INV_FREE_ CHAIN	
2	HEX	0311	TID_SMGF_ GETMAIN_INV_STG_ CLASS	
2	HEX	0312	TID_SMGF_ FREEMAIN_INV_STG_ CLASS	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	0313	TID_SMGF_ GETMAIN_NO_TRAN_ ENV	
2	HEX	0314	TID_SMGF_ FREEMAIN_NO_TRAN_ ENV	
2	HEX	0315	TID_SMGF_ INV_ADDR_STG_CLASS	
The following 3 trace pts are reserved for APAR PN24591.				
2	HEX	0316	TID_SMGF_ PAGES_NOT_OWNED	
2	HEX	0317	TID_SMGF_ NEXT_SCF_OVERLAY	
2	HEX	0318	TID_SMGF_ PREV_SCF_OVERLAY	
2	HEX	0319	TID_SMGF_ STG_VIOL_PCT_INC_ FAIL	
2	HEX	031A	TID_SMGF_ STG_VIOL_TCT_INC_ FAIL	
2	HEX	031B	TID_SMGF_ NO_MVS_STORAGE_ SQE	
2	HEX	031C	TID_SMGF_ STG_FREEZE	
2	HEX	031D	TID_SMGF_ QCELL_SCAP_FOUND	
2	HEX	031E	TID_SMGF_ SUBPOOL_LOCK_FAILED	
2	HEX	031F	TID_SMGF_ SUBPOOL_UNLOCK_ FAILED	
2	HEX	0320	TID_SMGF_ INVALID_GETMAINLENGTH	
2	HEX	0401	TID_SMSR_ENTRY	
2	HEX	0402	TID_SMSR_EXIT	
2	HEX	0403	TID_SMSR_RECOVERY	
2	HEX	0404	TID_SMSR_ INVALID_FORMAT	
2	HEX	0405	TID_SMSR_ INVALID_FUNCTION	
2	HEX	0406	TID_SMSR_ LOCK_ERROR	
2	HEX	0407	TID_SMSR_ UNLOCK_ERROR	
2	HEX	0601	TID_SMMCI_ENTRY	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	0602	TID_SMMCI_EXIT	
2	HEX	0603	TID_SMMCI_RECOVERY	
2	HEX	0801	TID_SMSY_ENTRY	
2	HEX	0802	TID_SMSY_EXIT	
2	HEX	0803	TID_SMSY_RECOVERY	
2	HEX	0804	TID_SMSY_ INVALID_FORMAT	
2	HEX	0805	TID_SMSY_ INVALID_FUNCTION	
2	HEX	0808	TID_SMSY_ BEFORE_SUSPEND	
2	HEX	0809	TID_SMSY_ AFTER_RESUME	
2	HEX	080A	TID_SMSY_SOS	
2	HEX	080B	TID_SMSY_NOT_SOS	
2	HEX	080C	TID_SMSY_ INVALID_STATE	
2	HEX	080D	TID_SMSY_SOS_ATB	
2	HEX	080E	TID_SMSY_ NOT_SOS_ATB	
2	HEX	0901	TID_SMCK_ENTRY	
2	HEX	0902	TID_SMCK_EXIT	
2	HEX	0903	TID_SMCK_RECOVERY	
2	HEX	0904	TID_SMCK_ INVALID_FORMAT	
2	HEX	0905	TID_SMCK_ INVALID_FUNCTION	
2	HEX	0906	TID_SMCK_ LOCK_ERROR	
2	HEX	0907	TID_SMCK_ UNLOCK_ERROR	
2	HEX	090A	TID_SMCK_SAACHK_TP	
2	HEX	0910	TID_SMCK_ SAA_NOT_BDY8	
2	HEX	0911	TID_SMCK_ SAA_NOT_IN_DSA	
2	HEX	0912	TID_SMCK_ SAA_INV_SUBPOOL_ ID	
2	HEX	0913	TID_SMCK_ SAA_LENGTH_ZERO	
2	HEX	0914	TID_SMCK_ SAA_LENGTH_NOT_ MULT8	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	0915	TID_SMCK_ DUP_SAA_NOT_IN_ DSA	
2	HEX	0916	TID_SMCK_ SAA_LENGTH_INVALID	
2	HEX	0917	TID_SMCK_ SAA_CLASS_INVALID	
2	HEX	0930	TID_SMCK_ SAA_RECOVERED	
2	HEX	0931	TID_SMCK_ TCTTE_RECOVERED	
2	HEX	0932	TID_SMCK_ ZONE_CHECK_FAILED	
2	HEX	0933	TID_SMCK_ TIOA_CHAIN_LOOP	
2	HEX	0934	TID_SMCK_ ZONES_RECOVERED	
2	HEX	0935	TID_SMCK_ STG_VIOL_PCT_INC_ FAIL	
2	HEX	0936	TID_SMCK_ STG_VIOL_TCT_INC_ FAIL	
2	HEX	0937	TID_SMCK_ SWITCH_TO_QR_FAIL	
2	HEX	0938	TID_SMCK_ SWITCH_FROM_QR_ FAIL	
2	HEX	0A01	TID_SMST_ENTRY	
2	HEX	0A02	TID_SMST_EXIT	
2	HEX	0A03	TID_SMST_RECOVERY	
2	HEX	0A04	TID_SMST_ INVALID_FORMAT	
2	HEX	0A05	TID_SMST_ INVALID_FUNCTION	
2	HEX	0A06	TID_SMST_ INVALID_PARAMETERS	
2	HEX	0A07	TID_SMST_ LOCK_ERROR	
2	HEX	0A08	TID_SMST_ UNLOCK_ERROR	
2	HEX	0A09	TID_SMST_ INVALID_BUFFER	
2	HEX	0C01	TID_SMMG_ENTRY	
2	HEX	0C02	TID_SMMG_EXIT	
2	HEX	0C03	TID_SMMG_RECOVERY	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	0C04	TID_SMMG_ NO_TCTTE_ADDRESS	
2	HEX	0C05	TID_SMMG_ INV_STORAGE_CLASS	
2	HEX	0C06	TID_SMMG_ CICS24_INV_GET_ LENGTH	
2	HEX	0C08	TID_SMMG_ SHRC24_INV_GET_ LENGTH	
2	HEX	0C09	TID_SMMG_ TP_INV_GET_LENGTH	
2	HEX	0C0A	TID_SMMG_ NO_MVS_STORAGE	
2	HEX	0C0B	TID_SMMG_ USER24_INV_GET_ LENGTH	
2	HEX	0C0C	TID_SMMG_ INSUFFICIENT_STORAGE	
2	HEX	0C0E	TID_SMMG_ USER31_INV_GET_ LENGTH	
2	HEX	0C11	TID_SMMG_ SHRU24_INV_GET_ LENGTH	
2	HEX	0C12	TID_SMMG_ SHRU31_INV_GET_ LENGTH	
2	HEX	0C13	TID_SMMG_ INVALID_FUNCTION	
2	HEX	0C14	TID_SMMG_ CICS31_INV_GET_ LENGTH	
2	HEX	0C15	TID_SMMG_ SHRC31_INV_GET_ LENGTH	
2	HEX	0C16	TID_SMMG_ TASK_INV_GET_LENGTH	
2	HEX	0C17	TID_SMMG_ TASK24_INV_GET_ LENGTH	
2	HEX	0C18	TID_SMMG_ CICS24_SAA_INV_ GET_LEN	
2	HEX	0C19	TID_SMMG_ SHRC24_SAA_INV_ GET_LEN	
2	HEX	0C1A	TID_SMMG_ NO_TRAN_ENV	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	0D01	TID_SMMF_ENTRY	
2	HEX	0D02	TID_SMMF_EXIT	
2	HEX	0D03	TID_SMMF_RECOVERY	
2	HEX	0D05	TID_SMMF_ SAACHK_F_TP	
2	HEX	0D06	TID_SMMF_ ADDR_NOT_BDY8	
2	HEX	0D07	TID_SMMF_ ADDR_OUTSIDE_DSA	
2	HEX	0D08	TID_SMMF_ ADDR_IN_FREE_PAGE	
2	HEX	0D09	TID_SMMF_ NO_TCTTE_ADDRESS	
2	HEX	0D0A	TID_SMMF_ TP_ADDR_NOT_FOUND	
2	HEX	0D0C	TID_SMMF_ INVALID_ADDRESS	
2	HEX	0D0D	TID_SMMF_ NO_MVS_STORAGE	
2	HEX	0D10	TID_SMMF_ INVALID_FUNCTION	
2	HEX	0D11	TID_SMMF_ STGCHK_FAILURE	
2	HEX	0D12	TID_SMMF_ INVALID_EXEC_KEY	
The following 3 trace pts are reserved for APAR PN24591.				
2	HEX	0D13	TID_SMMF_ PAGES_NOT_OWNED	
2	HEX	0D14	TID_SMMF_ NEXT_SCF_OVERLAY	
2	HEX	0D15	TID_SMMF_ PREV_SCF_OVERLAY	
2	HEX	0D16	TID_SMMF_ STG_VIOL_PCT_INC_ FAIL	
2	HEX	0D17	TID_SMMF_ STG_VIOL_TCT_INC_ FAIL	
2	HEX	0D18	TID_SMMF_ NO_TRAN_ENV	
2	HEX	0D19	TID_SMMF_ STG_FREEZE	
2	HEX	0E01	TID_SMMC2_ENTRY	
2	HEX	0E02	TID_SMMC2_EXIT	
2	HEX	0E03	TID_SMMC2_RECOVERY	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	0E04	TID_SMMC2_ INVALID_FUNCTION	
2	HEX	0E05	TID_SMMC2_ FREEMAIN_ELEM	
2	HEX	0E06	TID_SMMC2_ SAACHK_F_ALL_TP	
2	HEX	0E08	TID_SMMC2_ NO_MVS_STORAGE	
2	HEX	0E0A	TID_SMMC2_ INVALID_ADDRESS	
2	HEX	0E0B	TID_SMMC2_ STGCHK_FAILURE	
The following 3 trace pts are reserved for APAR PN24591.				
2	HEX	0E0D	TID_SMMC2_ PAGES_NOT_OWNED	
2	HEX	0E0E	TID_SMMC2_ NEXT_SCF_OVERLAY	
2	HEX	0E0F	TID_SMMC2_ PREV_SCF_OVERLAY	
2	HEX	0E10	TID_SMMC2_ STG_VIOL_PCT_INC_ FAIL	
2	HEX	0E11	TID_SMMC2_ STG_VIOL_TCT_INC_ FAIL	
2	HEX	0E12	TID_SMMC2_ NO_TRAN_ENV	
2	HEX	1001	TID_SMSQ_ENTRY	
2	HEX	1002	TID_SMSQ_EXIT	
2	HEX	1003	TID_SMSQ_RECOVERY	
2	HEX	1004	TID_SMSQ_ INVALID_FORMAT	
2	HEX	1005	TID_SMSQ_ INVALID_FUNCTION	
2	HEX	1006	TID_SMSQ_ DSSR_INQUIRE_SUSPEND	
2	HEX	1007	TID_SMSQ_ BEFORE_SUSPEND	
2	HEX	1008	TID_SMSQ_ AFTER_SUSPEND	
2	HEX	1009	TID_SMSQ_ NO_MVS_STORAGE_ SQE	
2	HEX	1101	TID_SMPP_ENTRY	
2	HEX	1102	TID_SMPP_EXIT	
2	HEX	1103	TID_SMPP_RECOVERY	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	1104	TID_SMPP_ INVALID_FORMAT	
2	HEX	1105	TID_SMPP_ INVALID_FUNCTION	
2	HEX	1106	TID_SMPP_NOSTG_PPA	
2	HEX	1107	TID_SMPP_NOSTG_PPX	
2	HEX	1109	TID_SMPP_NOSTG_SAT	
2	HEX	110D	TID_SMPP_NOSTG_CTN	
2	HEX	110E	TID_SMPP_ DELETING_EMPTY_ EXTENT	
2	HEX	110F	TID_SMPP_ BEFORE_SVC_CALL	
2	HEX	1110	TID_SMPP_ AFTER_SVC_CALL	
2	HEX	1111	TID_SMPP_ FREE_DSA_LIMIT_ FAILED	
2	HEX	1112	TID_SMPP_ SVC_CALL_FAIL	
2	HEX	1113	TID_SMPP_ ALLOCATE_EXTENT_ FAILED	
2	HEX	1201	TID_SMPQ_ENTRY	
2	HEX	1202	TID_SMPQ_EXIT	
2	HEX	1203	TID_SMPQ_RECOVERY	
2	HEX	1204	TID_SMPQ_ INVALID_FORMAT	
2	HEX	1205	TID_SMPQ_ INVALID_FUNCTION	
2	HEX	1206	TID_SMPQ_ INSUFFICIENT_STORAGE	
2	HEX	1207	TID_SMPQ_ INVALID_ADDRESS	
2	HEX	1208	TID_SMPQ_NOSTG_CTN	
2	HEX	1209	TID_SMPQ_ BEFORE_SVC_CALL	
2	HEX	120A	TID_SMPQ_ AFTER_SVC_CALL	
2	HEX	120B	TID_SMPQ_ SVC_CALL_FAIL	
2	HEX	1301	TID_SMVP_ GETMAIN_ENTRY	
2	HEX	1302	TID_SMVP_ GETMAIN_EXIT	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	1303	TID_SMVP_ FREEMAIN_ENTRY	
2	HEX	1304	TID_SMVP_ FREEMAIN_EXIT	
2	HEX	1305	TID_SMVP_ BEFORE_WAIT	
2	HEX	1306	TID_SMVP_ WAIT_COMPLETE	
2	HEX	1307	TID_SMVP_ABEND	
2	HEX	1401	TID_SMVN_ENTRY	
2	HEX	1402	TID_SMVN_EXIT	
2	HEX	1403	TID_SMVN_RECOVERY	
2	HEX	1404	TID_SMVN_ INVALID_FORMAT	
2	HEX	1405	TID_SMVN_ INVALID_FUNCTION	
2	HEX	1408	TID_SMVN_ BEFORE_WAIT	
2	HEX	1409	TID_SMVN_ AFTER_POST	
2	HEX	140A	TID_SMVN_ MVS_STG_CONSTRAINED	
2	HEX	140B	TID_SMVN_ NOT_MVS_STG_CONSTRAINED	
2	HEX	140C	TID_SMVN_ MVS_STG_SOS	
2	HEX	140D	TID_SMVN_ NOT_MVS_STG_SOS	
2	HEX	3001	TID_SMSU_ENTRY	
2	HEX	3002	TID_SMSU_EXIT	
2	HEX	3003	TID_SMSU_RECOVERY	
2	HEX	3004	TID_SMSU_ INVALID_FUNCTION	
2	HEX	3005	TID_SMSU_ CHANGE_MODE_FAIL1	
2	HEX	3006	TID_SMSU_ SUA_MVS_GETMAIN_ FAIL	
2	HEX	3007	TID_SMSU_ ALESERV_ADD_FAIL_ ALLOC	
2	HEX	3008	TID_SMSU_ WRONG_TCB_FOR_ ALLOCATE	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	3009	TID_SMSU_ CREATE_SUBSPACE_ ENTRY	
2	HEX	300A	TID_SMSU_ CREATE_SUBSPACE_ EXIT	
2	HEX	300B	TID_SMSU_ IARSUBSP_CREATE_ FAIL	
2	HEX	300C	TID_SMSU_ WRONG_TCB_FOR_ DELETE	
2	HEX	300D	TID_SMSU_ DELETE_SUBSPACE_ ENTRY	
2	HEX	300E	TID_SMSU_ DELETE_SUBSPACE_ EXIT	
2	HEX	300F	TID_SMSU_ IARSUBSP_DELETE_ FAIL	
2	HEX	3010	TID_SMSU_ BAD_PAGE_MULTIPLE	
2	HEX	3011	TID_SMSU_ IARSUBSP_ASSIGN_ FAIL	
2	HEX	3012	TID_SMSU_ BAD_ELEM_ALIGN	
2	HEX	3013	TID_SMSU_ INVALID_INPUT_ SPACE	
2	HEX	3014	TID_SMSU_ ALESERV_ADD_FAIL_ STEAL	
2	HEX	3016	TID_SMSU_ ALESERV_DELETE_ FAIL	
2	HEX	3018	TID_SMSU_ ALET_STEAL	
2	HEX	3019	TID_SMSU_ IARSUBSP_UNASSIGN_ FAIL	
2	HEX	301B	TID_SMSU_ INVALID_FORMAT	
2	HEX	301C	TID_SMSU_ ASSIGN_ENTRY	
2	HEX	301D	TID_SMSU_ ASSIGN_EXIT	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	301E	TID_SMSU_ UNASSIGN_ENTRY	
2	HEX	301F	TID_SMSU_ UNASSIGN_EXIT	
2	HEX	3020	TID_SMSU_ CHANGE_MODE_FAIL2	
2	HEX	3021	TID_SMSU_ WRONG_TCB_FOR_ RELEASE	
2	HEX	3022	TID_SMSU_ ASSIGN_FAIL_ABEND	
2	HEX	3023	TID_SMSU_ UNASSIGN_FAIL_ ABEND	
2	HEX	3024	TID_SMSU_TEST	
2	HEX	3025	TID_SMSU_ NO_ALET_TO_STEAL	
2	HEX	3026	TID_SMSU_ SVC_CALL_FAIL	
2	HEX	3027	TID_SMSU_ MULT_UNASSIGN_ ENTRY	
2	HEX	3028	TID_SMSU_ FREE_SUBSP_TCBS_ FAIL	
SMSCP point id's are AP domain's.				
2	HEX	F101	TID_SMSCP_ENTRY	
2	HEX	F102	TID_SMSCP_EXIT	
2	HEX	F104	TID_SMSCP_ INVALID_REQUEST	
Minimum, maximum and default DSALIMIT values				
4	DECIMAL	2097152	MIN_DSA_LIMIT	
4	DECIMAL	16777216	MAX_DSA_LIMIT	
4	DECIMAL	5242880	DEFAULT_DSA_LIMIT	
Minimum, maximum and default EDSALIMIT values				
4	DECIMAL	10485760	MIN_EDSA_LIMIT	
4	DECIMAL	2146435072	MAX_EDSA_LIMIT	2G-1M
4	DECIMAL	31457280	DEFAULT_EDSA_LIMIT	
Minimum, maximum and default GDSALIMIT values				
8	HEX	0000000080000000	MIN_GDSA_LIMIT	
8	HEX	0001000000000000	MAX_GDSA_LIMIT	
8	HEX	0000000080000000	DEFAULT_GDSA_LIMIT	
8	HEX	00000FFFFFFF0000	MEMLIMIT_NOLIMIT	

Table 594. (continued)

Len	Type	value	Name	Description
Multiple for DSA extents (to be kept in step with dsa_extent_shift and edsa_extent_shift below).				
4	DECIMAL	262144	DSA_MULTIPLE	
4	DECIMAL	1048576	EDSA_MULTIPLE	
4	DECIMAL	2147483648	GDSA_MULTIPLE	
Shift values for use with SAT (to be kept in step with dsa_multiple and edsa_multiple above).				
4	DECIMAL	18	DSA_EXTENT_SHIFT	
4	DECIMAL	20	EDSA_EXTENT_SHIFT	
4	DECIMAL	31	GDSA_EXTENT_SHIFT	
Standard message numbers and system dumpcode values.				
4	DECIMAL	1	MNO_ABEND	
8	CHARACTER	SM0001	DCD_ABEND	
4	DECIMAL	2	MNO_SEVERE_ERROR	
8	CHARACTER	SM0002	DCD_SEVERE_ERROR	
4	DECIMAL	3	MNO_NO_STORAGE	
8	CHARACTER	SM0003	DCD_NO_STORAGE	
4	DECIMAL	4	MNO_LOOP	
8	CHARACTER	SM0004	DCD_LOOP	
4	DECIMAL	5	MNO_STCK_ERROR	
8	CHARACTER	SM0005	DCD_STCK_ERROR	
4	DECIMAL	6	MNO_NO_MVS_STORAGE	
8	CHARACTER	SM0006	DCD_NO_MVS_STORAGE	
Non-standard message numbers and system dumpcode values.				
4	DECIMAL	102	MNO_STORAGE_ VIOLATION	
8	CHARACTER	SM0102	DCD_STORAGE_ VIOLATION	
4	DECIMAL	103	MNO_FAQE_ERROR	
8	CHARACTER	SM0103	DCD_FAQE_ERROR	
4	DECIMAL	113	MNO_NO_STOR_PROT	
4	DECIMAL	114	MNO_STOR_PROT_REQ	
4	DECIMAL	115	MNO_STOR_PROT	
4	DECIMAL	120	MNO_RENTPGM	
4	DECIMAL	122	MNO_DSA_LIMIT	
4	DECIMAL	123	MNO_EDSA_LIMIT	
4	DECIMAL	124	MNO_TRAN_ISO_REQ	
4	DECIMAL	125	MNO_TRAN_ISO	
4	DECIMAL	126	MNO_NO_TRAN_ISO	

Table 594. (continued)

Len	Type	value	Name	Description
4	DECIMAL	127	MNO_NOSTG_REQ_DSALIM	
4	DECIMAL	128	MNO_NOSTG_ REQ_EDSALIM	
4	DECIMAL	129	MNO_NOSTG_DFT_DSALIM	
4	DECIMAL	130	MNO_NOSTG_ DFT_EDSALIM	
4	DECIMAL	131	MNO_SOS_BELOW	
4	DECIMAL	132	MNO_NOT_SOS_BELOW	
4	DECIMAL	133	MNO_SOS_ABOVE	
4	DECIMAL	134	MNO_NOT_SOS_ABOVE	
4	DECIMAL	135	MNO_NOSTG_DSA	
4	DECIMAL	136	MNO_DSA_SIZE	
4	DECIMAL	137	MNO_MVS_STG_ CONSTRAINED	
4	DECIMAL	138	MNO_NOT_MVS_ STG_CONSTRAINED	
4	DECIMAL	139	MNO_MVS_STG_SOS	
4	DECIMAL	140	MNO_NOT_MVS_STG_SOS	
4	DECIMAL	601	MNO_MEMLIMIT_SIZE	
4	DECIMAL	602	MNO_MEMLIMIT_ NOSTG_MINIMUM	
4	DECIMAL	603	MNO_MEMLIMIT_ NOSTG_RECOMMENDED	
4	DECIMAL	606	MNO_ABOVEBAR_SOS	
4	DECIMAL	607	MNO_ABOVEBAR_NOT_SOS	
Component id.				
2	CHARACTER	SM	COMPID	
SM domain states.				
4	DECIMAL	1	PRE_INITIALISING	
4	DECIMAL	2	PRE_INITIALISED	
4	DECIMAL	3	INITIALISING	
4	DECIMAL	4	INITIALISED	
4	DECIMAL	5	QUIESCING	
4	DECIMAL	6	QUIESCED	
4	DECIMAL	7	TERMINATED	
Constants for Statistics				
4	DECIMAL	8192	STATS_BUFFER_SIZE	SMF buffer
Pagesize.				
4	DECIMAL	4096	PAGESIZE	
4	HEX	FFFFF000	PAGEROUND	

Table 594. (continued)

Len	Type	value	Name	Description
Segmentsize.				
4	DECIMAL	1048576	SEGMENTSIZE	
4	HEX	FFF00000	SEGMENTROUND	
The minimum fixed length value must be the size of QPF.				
4	DECIMAL	8	MIN_FIXED_LENGTH	
Sizes of quickcell blocks.				
4	DECIMAL	4096	CTNBLOCK_SIZE	size of CTN block
4	DECIMAL	4096	DXEBLOCK_SIZE	size of DXE block
4	DECIMAL	4096	SATBLOCK_SIZE	size of SAT block
4	DECIMAL	4096	SCABLOCK_SIZE	size of SCA block
4	DECIMAL	4096	SCQBLOCK_SIZE	size of SCQ block
4	DECIMAL	4096	SMXBLOCK_SIZE	size of SMX block
4	DECIMAL	4096	SQEBLOCK_SIZE	size of SQE block
4	DECIMAL	4096	SUABLOCK_SIZE	size of SUA block
Index values for DSAs (used for indexing arrays in SMA and CAT). Note that these must be consistent with the values used for the DSA_NAME parameter in the various domain call parameter lists.				
4	DECIMAL	1	CDSA	
4	DECIMAL	2	UDSA	
4	DECIMAL	3	SDSA	
4	DECIMAL	4	RDSA	
4	DECIMAL	5	ECDSA	
4	DECIMAL	6	EUDSA	
4	DECIMAL	7	ESDSA	
4	DECIMAL	8	ERDSA	
4	DECIMAL	8	MAXDSA	
4	DECIMAL	9	GCDSA	
4	DECIMAL	10	GUDSA	
4	DECIMAL	11	GSCDSA	
4	DECIMAL	12	GSUDSA	
4	DECIMAL	4	MAXGDSA	
DSA names.				
8	CHARACTER	CDSA	CDSA_NAME	
8	CHARACTER	UDSA	UDSA_NAME	

Table 594. (continued)

Len	Type	value	Name	Description
8	CHARACTER	SDSA	SDSA_NAME	
8	CHARACTER	RDSA	RDSA_NAME	
8	CHARACTER	ECDSA	ECDSA_NAME	
8	CHARACTER	EUDSA	EUDSA_NAME	
8	CHARACTER	ESDSA	ESDSA_NAME	
8	CHARACTER	ERDSA	ERDSA_NAME	
8	CHARACTER	GCDSA	GCDSA_NAME	
8	CHARACTER	GUDSA	GUDSA_NAME	
8	CHARACTER	GSCDSA	GSCDSA_NAME	
8	CHARACTER	GSUDSA	GSUDSA_NAME	
Access values.				
4	DECIMAL	0	ACCESS_INVALID	
4	DECIMAL	1	ACCESS_CICS	
4	DECIMAL	2	ACCESS_USER	
4	DECIMAL	3	ACCESS_READ_ONLY	
Constants for self-tuning initial-free areas.				
4	DECIMAL	600	TUNING_INTERVAL	10 minutes
4	DECIMAL	604800	WEIGHTED_ AVERAGE_PERIOD	
				1 week
4	DECIMAL	1008	MAX_TUNING_INTERVALS	
4	DECIMAL	4096	MIN_PRIMARY_SIZE	
4	DECIMAL	8192	MIN_SECONDARY_SIZE	
4	DECIMAL	65536	MAX_SECONDARY_BELOW	
4	DECIMAL	1048576	MAX_SECONDARY_ABOVE	
4	DECIMAL	67108864	MAX_GSCA_HOLD	This is the maximum size of storage we will hold for a subpool even if it is completely freed
Maxpool is the upper bound of the array of pool chains whose dimension is 0:maxpool. Maxpool is calculated as (2 to the power n)-1 where n is the number of open TCB types that can inherit a subspace. n is defined by the dispatcher as num_subspace_open_types. (2 to the power of n) is defined by the dispatcher as combo_subspace_open_types.				
4	DECIMAL	3	MAXPOOL	
Total number of types of open TCB.				
1	DECIMAL	7	NUM_OPEN_TYPES	SEE ABOVE COMMENT !!

Table 594. (continued)

Len	Type	value	Name	Description
Number of types of open TCB which can inherit subspaces (ie DSIT_INHERIT_YES).				
1	DECIMAL	2	NUM_SUBSPACE_OPEN_TYPES	
Number of combinations of types of open TCB which can inherit subspaces (ie DSIT_INHERIT_YES). This number is 2 to the power NUM_SUBSPACE_OPEN_TYPES.				
4	DECIMAL	4	COMBO_SUBSPACE_OPEN_TYPES	
8	CHARACTER	GCABLOCK	GCA_NAME	Eyecatcher
Subpool name in GSCA header block.				
8	CHARACTER	(HEADER)	GSCA_HEAD_NAME	
8	CHARACTER	(FREE)	GSCA_FREE_NAME	
Block names for above.				
8	CHARACTER	GSCABLOK	GSCABLOCK_NAME	
8	CHARACTER	GSCQBLOK	GSCQBLOCK_NAME	
8	CHARACTER	GSQEBLOK	GSQEBLOCK_NAME	
8	CHARACTER	GSAEBLOK	GSAEBLOCK_NAME	
8	CHARACTER	GCTNBLOK	GCTNBLOCK_NAME	
Sizes of quickcell blocks.				
4	DECIMAL	4096	GSAEBLOCK_SIZE	Size of GSAE block
4	DECIMAL	4096	GCTNBLOCK_SIZE	Size of GCTN block
4	DECIMAL	4096	GSCABLOCK_SIZE	Size of GSCA block
4	DECIMAL	4096	GSCQBLOCK_SIZE	Size of GSCQ block
4	DECIMAL	4096	GSQEBLOCK_SIZE	Size of GSQE block
Trace point id's.				
2	HEX	4001	TID_S2AD_ENTRY	
2	HEX	4002	TID_S2AD_EXIT	
2	HEX	4003	TID_S2AD_RECOVERY	
2	HEX	4004	TID_S2AD_INVALID_FORMAT	
2	HEX	4005	TID_S2AD_INVALID_FUNCTION	
2	HEX	4006	TID_S2AD_NO_MVS_STORAGE	
2	HEX	4007	TID_S2AD_SUBPOOL_NOT_EMPTY	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	4008	TID_S2AD_ INVALID_SUBPOOL_ TOKEN	
2	HEX	4009	TID_S2AD_REPOS	
2	HEX	400A	TID_S2AD_ BR_NOSTORE	
2	HEX	4201	TID_S2GF_ENTRY	
2	HEX	4202	TID_S2GF_EXIT	
2	HEX	4203	TID_S2GF_RECOVERY	
2	HEX	4204	TID_S2GF_ INVALID_FUNCTION	
2	HEX	4205	TID_S2GF_ INVALID_ADDRESS	
2	HEX	4206	TID_S2GF_ NO_MVS_STORAGE	
2	HEX	420A	TID_S2GF_ INSUFFICIENT_STORAGE	
2	HEX	420B	TID_S2GF_ STGCHK_FAILURE	
2	HEX	420C	TID_S2GF_ INVALID_INITIAL_ IMAGE	
2	HEX	4211	TID_S2GF_ GETMAIN_INV_STG_ CLASS	
2	HEX	4212	TID_S2GF_ FREEMAIN_INV_STG_ CLASS	
2	HEX	4213	TID_S2GF_ GETMAIN_NO_TRAN_ ENV	
2	HEX	4214	TID_S2GF_ FREEMAIN_NO_TRAN_ ENV	
2	HEX	4215	TID_S2GF_ INV_ADDR_STG_CLASS	
2	HEX	4216	TID_S2GF_ PAGES_NOT_OWNED	
2	HEX	4219	TID_S2GF_ STG_VIOL_PCT_INC_ FAIL	
2	HEX	421A	TID_S2GF_ STG_VIOL_TCT_INC_ FAIL	
2	HEX	421B	TID_S2GF_ NO_MVS_STORAGE_ GSQE	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	421C	TID_S2GF_ STG_FREEZE	
2	HEX	421E	TID_S2GF_ SUBPOOL_LOCK_FAILED	
2	HEX	421F	TID_S2GF_ SUBPOOL_UNLOCK_ FAILED	
2	HEX	4220	TID_S2GF_ INVALID_GETMAINLENGTH	
2	HEX	4301	TID_S2PP_ENTRY	
2	HEX	4302	TID_S2PP_EXIT	
2	HEX	4303	TID_S2PP_RECOVERY	
2	HEX	4304	TID_S2PP_ INVALID_FORMAT	
2	HEX	4305	TID_S2PP_ INVALID_FUNCTION	
2	HEX	4306	TID_S2PP_ INVALID_ADDRESS	
2	HEX	4307	TID_S2PP_ NOSTG_GPPA	
2	HEX	4308	TID_S2PP_ NOSTG_GPPX	
2	HEX	4309	TID_S2PP_NOSTG_GCA	
2	HEX	430B	TID_S2PP_ NOSTG_GSAE	
2	HEX	430C	TID_S2PP_ NOSTG_GCTN	
2	HEX	430D	TID_S2PP_ INSUFFICIENT_STORAGE	
2	HEX	430F	TID_S2PP_ BEFORE_SVC_CALL	
2	HEX	4310	TID_S2PP_ AFTER_SVC_CALL	
2	HEX	4312	TID_S2PP_ SVC_CALL_FAIL	
2	HEX	4501	TID_S2SQ_ENTRY	
2	HEX	4502	TID_S2SQ_EXIT	
2	HEX	4503	TID_S2SQ_RECOVERY	
2	HEX	4504	TID_S2SQ_ INVALID_FORMAT	
2	HEX	4505	TID_S2SQ_ INVALID_FUNCTION	
2	HEX	4506	TID_S2SQ_ DSSR_INQUIRE_SUSPEND	
2	HEX	4507	TID_S2SQ_ BEFORE_SUSPEND	

Table 594. (continued)

Len	Type	value	Name	Description
2	HEX	4508	TID_S2SQ_ AFTER_SUSPEND	
2	HEX	4509	TID_S2SQ_ NO_MVS_STORAGE_ GSQE	
2	HEX	4601	TID_S2SR_ENTRY	
2	HEX	4602	TID_S2SR_EXIT	
2	HEX	4603	TID_S2SR_RECOVERY	
2	HEX	4605	TID_S2SR_ INVALID_FUNCTION	
2	HEX	4606	TID_S2SR_ LOCK_ERROR	
2	HEX	4607	TID_S2SR_ UNLOCK_ERROR	
Non-standard message numbers and system dumpcode values.				
4	DECIMAL	601	MNO_MEMLIMIT_INFO	
4	DECIMAL	602	MNO_NO_STG_ FOR_MIN_MEMOBJ	
4	DECIMAL	603	MNO_NO_STG_ FOR_2G_MEMOBJ	

SMMCC SM Macro-Compatability Anchor Block

SM domain Macro Compatibility Anchor block.

Table 595.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	168	MCA	
(0)	CHARACTER	16	MCA_PREFIX	
(0)	UNSIGNED	2	MCA_LENGTH	
(2)	CHARACTER	1	MCA_ARROW	
(3)	CHARACTER	3	MCA_DFH	
(6)	CHARACTER	2	MCA_DOMID	
(8)	CHARACTER	8	MCA_BLOCK_NAME	
(10)	CHARACTER	8	*	reserved
(18)	CHARACTER	96	MCA_SUBPOOLS	macro subpool tokens/ids
SMSHRC24 subpool (SHARED_CIC24).				
(18)	CHARACTER	12	*	
(18)	CHARACTER	8	MCA_SHRC24_ SPTOKEN	
(18)	ADDRESS	4	MCA_SHRC24_ SPTOKEN_P	
(1C)	FULLWORD	4	*	

Table 595. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	UNSIGNED	2	MCA_SHRC24_SPID	
(22)	CHARACTER	2	*	
SMSHRU24 subpool (SHARED_USER24).				
(24)	CHARACTER	12	*	
(24)	CHARACTER	8	MCA_SHRU24_SPTOKEN	
(24)	ADDRESS	4	MCA_SHRU24_SPTOKEN_P	
(28)	FULLWORD	4	*	
(2C)	UNSIGNED	2	MCA_SHRU24_SPID	
(2E)	CHARACTER	2	*	
SMSHRC31 subpool (SHARED_CIC31).				
(30)	CHARACTER	12	*	
(30)	CHARACTER	8	MCA_SHRC31_SPTOKEN	
(30)	ADDRESS	4	MCA_SHRC31_SPTOKEN_P	
(34)	FULLWORD	4	*	
(38)	UNSIGNED	2	MCA_SHRC31_SPID	
(3A)	CHARACTER	2	*	
SMSHRU31 subpool (SHARED_USER31).				
(3C)	CHARACTER	12	*	
(3C)	CHARACTER	8	MCA_SHRU31_SPTOKEN	
(3C)	ADDRESS	4	MCA_SHRU31_SPTOKEN_P	
(40)	FULLWORD	4	*	
(44)	UNSIGNED	2	MCA_SHRU31_SPID	
(46)	CHARACTER	2	*	
SMSHARED subpool (SHARED_CIC24_SAA).				
(48)	CHARACTER	12	*	
(48)	CHARACTER	8	MCA_SHARED_SPTOKEN	
(48)	ADDRESS	4	MCA_SHARED_SPTOKEN_P	
(4C)	FULLWORD	4	*	
(50)	UNSIGNED	2	MCA_SHARED_SPID	
(52)	CHARACTER	2	*	

Table 595. (continued)

Offset Hex	Type	Len	Name (dim)	Description
SMCONTROL subpool.				
(54)	CHARACTER	12	*	
(54)	CHARACTER	8	MCA_CONTROL_ SPTOKEN	
(54)	ADDRESS	4	MCA_CONTROL_ SPTOKEN_P	
(58)	FULLWORD	4	*	
(5C)	UNSIGNED	2	MCA_CONTROL_ SPID	
(5E)	CHARACTER	2	*	
SMTP24 subpool.				
(60)	CHARACTER	12	*	
(60)	CHARACTER	8	MCA_TP24_ SPTOKEN	
(60)	ADDRESS	4	MCA_TP24_ SPTOKEN_P	
(64)	FULLWORD	4	*	
(68)	UNSIGNED	2	MCA_TP24_SPID	
(6A)	CHARACTER	2	*	
SMTP subpool.				
(6C)	CHARACTER	12	*	
(6C)	CHARACTER	8	MCA_TP_SPTOKEN	
(6C)	ADDRESS	4	MCA_TP_ SPTOKEN_P	
(70)	FULLWORD	4	*	
(74)	UNSIGNED	2	MCA_TP_SPID	
(76)	CHARACTER	2	*	
Flags.				
(78)	CHARACTER	4	*	
(78)	BIT(8)	1	*	
	1...		MCA_SMMC_ ACTIVE	INITIALISE function completed
	.111 1111		*	reserved
(79)	BIT(24)	3	*	reserved
(7C)	FULLWORD	4	*	reserved
(80)	FULLWORD	4	*	reserved
(84)	FULLWORD	4	*	reserved
(88)	FULLWORD	4	*	reserved
(8C)	FULLWORD	4	*	reserved
(90)	FULLWORD	4	*	reserved

Table 595. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(94)	FULLWORD	4	*	reserved
(98)	FULLWORD	4	*	reserved
(9C)	FULLWORD	4	*	reserved
(A0)	FULLWORD	4	*	reserved
(A4)	FULLWORD	4	*	reserved
(A8)	CHARACTER	0	*	

```
SHARED/CONTROL subpool SAA.
```

Table 596.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	SHR	
(0)	CHARACTER	4	SHR_SAA	
(0)	CHARACTER	1	SHR_CLASS	
(1)	CHARACTER	1	SHR_INITIMG	
(2)	UNSIGNED	2	SHR_LENGTH	
(4)	CHARACTER	*	SHR_DATA	

```
User storage SAA.
Note that the address field points to the TCA.
```

Table 597.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	USR	
(0)	CHARACTER	8	USR_SAA	
(0)	CHARACTER	1	USR_CLASS	
(1)	CHARACTER	1	USR_INITIMG	
(2)	UNSIGNED	2	USR_LENGTH	
(4)	ADDRESS	4	USR_TCAP	
(8)	CHARACTER	*	USR_DATA	

```
TP storage SAA.
```

Table 598.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	13	TPE	
(0)	CHARACTER	8	TPE_SAA	
(0)	CHARACTER	1	TPE_CLASS	
(1)	CHARACTER	1	TPE_INITIMG	
(2)	UNSIGNED	2	TPE_LENGTH	
(4)	ADDRESS	4	TPE_NEXT	
(8)	CHARACTER	0	TPE_LIOA_ DATA_START	

Table 598. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	5	TPE_TIOA_PREFIX	
(D)	CHARACTER	0	TPE_TIOA_ DATA_START	

Constants

Table 599.

Len	Type	value	Name	Description
Names for macro-compatibility subpools.				
8	CHARACTER	SMSHARED	SPNAME_SHARED	
8	CHARACTER	SMSHRC24	SPNAME_SHRC24	
8	CHARACTER	SMSHRU24	SPNAME_SHRU24	
8	CHARACTER	SMSHRC31	SPNAME_SHRC31	
8	CHARACTER	SMSHRU31	SPNAME_SHRU31	
8	CHARACTER	SMCONTRL	SPNAME_CONTROL	
8	CHARACTER	SMTP24	SPNAME_TP24	
8	CHARACTER	SMTP	SPNAME_TP	
Miscellaneous constants.				
4	DECIMAL	65520	MAX_SHARED_ CICS24_SAA_LENGTH	
4	DECIMAL	65515	MAX_TIOA_LENGTH	
4	DECIMAL	65520	MAX_LIOA_LENGTH	
4	DECIMAL	65520	MAX_CICS24_ SAA_LENGTH	
1	HEX	80	GETFLAG	
1	HEX	7F	GETFLAG_OFF	
Following is used by storage recovery when an SAA has been found to be invalid.				
1	DECIMAL	0	INVALID_CLASS	
1	HEX	0A	TCACLASS	

SMVCC SM MVS STORAGE MANAGER Anchor Block

```
SM domain MVS Storage Management Anchor block.
------------------------------------------------------------------------
T U N I N G F I E L D S
  The following fields can be changed after CICS initialisation
  to influence the behaviour of the MMSC mechanism:
      smva_timeout_interval - fullword wait timeout (secs)
           (default=60 secs) - can be changed at any time
                             - (takes effect on next wait)
      smva_storage_threshold_size - fullword threshold size
           (default=40M) - can be changed at any time
                             - (takes effect on next rqst)
      smva_storage_cushion_size - fullword max cushion size
           (default=20M) - takes effect on next rqst...
```

```
                                        ..when cushion not yet built,
                                        or is breached
 ------------------------------------------------------------------
```

Table 600.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	140	SMVA	
(0)	CHARACTER	16	SMVA_PREFIX	
(0)	UNSIGNED	2	SMVA_LENGTH	
(2)	CHARACTER	1	SMVA_ARROW	
(3)	CHARACTER	3	SMVA_DFH	
(6)	CHARACTER	2	SMVA_DOMID	
(8)	CHARACTER	8	SMVA_BLOCK_NAME	
(10)	ADDRESS	4	SMVA_AUTO_CHAIN	addr of automatic for DFHSMVP
(14)	CHARACTER	16	SMVA_ENTRY_ POINTS	
(14)	ADDRESS	4	SMVA_DFHSMVP_EP	addr of DFHSMVP's entry point
(18)	ADDRESS	4	*	reserved
(1C)	ADDRESS	4	*	reserved
(20)	ADDRESS	4	*	reserved
(24)	ADDRESS	4	SMVA_WAITING_ CHAIN	addr of waiters for MVS storage
(28)	CHARACTER	24	SMVA_STATUS	storage status
(28)	CHARACTER	8	SMVA_CUSHION	
(28)	CHARACTER	8	SMVA_CUSHION_ CDS	dword used for CDS
(28)	ADDRESS	4	SMVA_CUSHION_ ADDRESS	
				cushion start
6 smva_cushion_breached bit(1), FORCED TO CHEAT				
(2C)	FULLWORD	4	SMVA_CUSHION_ REMAINING	
				curr size cush
(30)	CHARACTER	8	SMVA_THRESHOLD	
(30)	CHARACTER	8	SMVA_THRESHOLD_ CDS	
				dword used for CDS
(30)	UNSIGNED	4	SMVA_THRESHOLD_ FLAGS	
				below threshold
6 smva_threshold_breached bit(1), !CHEAT AGAIN				
(34)	FULLWORD	4	SMVA_THRESHOLD_ REMAINING	

Table 600. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				MVS stg left
(38)	CHARACTER	8	SMVA_WAITERS	waiter count etc.
(38)	FULLWORD	4	SMVA_WAITER_ COUNT	
				# storage waiters
(3C)	FULLWORD	4	SMVA_WAITER_ HWM	hwm stg waiters
(40)	FULLWORD	4	SMVA_TIMEOUT_ INTERVAL	
				timeout intvl (secs)
(44)	CHARACTER	4	SMVA_NOTIFY_ECB	ecb for notify
(48)	FULLWORD	4	SMVA_STORAGE_ THRESHOLD_SIZE	
				threshold size
(4C)	FULLWORD	4	SMVA_STORAGE_ CUSHION_SIZE	
				max cushion size
(50)	ADDRESS	4	SMVA_AUTO_ STORAGE	storage for automatic blocks
(54)	ADDRESS	4	SMVA_WAIT_ STORAGE	storage for wait elements
(58)	FULLWORD	4	SMVA_TIMES_ WENT_SOS	
				count of cushion breaches
(5C)	CHARACTER	8	SMVA_TIME_ WENT_SOS	time cushion breach occurred
(64)	CHARACTER	8	SMVA_TIME_AT_SOS	total time cushion breached
(6C)	FULLWORD	4	SMVA_SYSTEM_ TASK_RUNS	
				number of times notify task has run
(70)	FULLWORD	4	SMVA_REGION_SIZE	MVS region size
(74)	FULLWORD	4	SMVA_TIMES_ STORAGE_ FROM_CUSHION	
				number of times storage taken from cushion
(78)	CHARACTER	8	SMVA_TIME_ IN_WAIT	total time in wait for MVS storage

Table 600. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(80)	FULLWORD	4	SMVA_WAIT_ REQUESTS_COUNT	
				number of requests causing wait
(84)	CHARACTER	8	*	reserved

```
SM domain MVS Storage Management Automatic block
```

Table 601.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	5288	SMVP_AUTO	
(0)	CHARACTER	16	SMVPA_PREFIX	
(0)	UNSIGNED	2	SMVPA_LENGTH	
(2)	CHARACTER	1	SMVPA_ARROW	
(3)	CHARACTER	3	SMVPA_DFH	
(6)	CHARACTER	2	SMVPA_DOMID	
(8)	CHARACTER	8	SMVPA_BLOCK_ NAME	
(10)	ADDRESS	4	SMVPA_FWD_CHAIN	fwd chain of auto blks
(14)	CHARACTER	72	SMVPA_SAVEAREA	supplied to DFHSMVP
(14)	ADDRESS	4	SMVPA_SAVEWORDS (18)	save area contents
(5C)	ADDRESS	4	SMVPA_CALLER_ PLIST	DFHSMVPI caller's plist
(60)	UNSIGNED	1	SMVPA_CALLER_KEY	DFHSMVPI caller's key
(61)	UNSIGNED	1	SMVPA_FUNCTION_ TYPE	
				requested function
(62)	CHARACTER	2	*	reserved
(64)	ADDRESS	4	SMVPA_VSML_ WORKAREAP	
				VSMLIST work area ptr
(68)	ADDRESS	4	SMVPA_SMVA_ ADDRESS	our anchor block
(6C)	CHARACTER	60	*	reserved
(A8)	CHARACTER	1024	SMVPA_AUTO_ STORAGE	
dfhsmvp's automatic storage ! AUTODATA in DFHSMVP must not be ! greater than this value !				

Table 601. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4A8)	CHARACTER	4096	SMVPA_VSML_ WORKAREA	
				VSMLIST work area

```
SM domain MVS Storage Management Wait Element
```

Table 602.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	SMVW	
(0)	CHARACTER	16	SMVW_PREFIX	
(0)	UNSIGNED	2	SMVW_LENGTH	
(2)	CHARACTER	1	SMVW_ARROW	
(3)	CHARACTER	3	SMVW_DFH	
(6)	CHARACTER	2	SMVW_DOMID	
(8)	CHARACTER	8	SMVW_BLOCK_NAME	
(10)	ADDRESS	4	SMVW_FWD_CHAIN	chain of smvws
(14)	ADDRESS	4	SMVW_OWNING_ SMVPA	owner (zero if none)
(18)	CHARACTER	4	SMVW_ECB	wait for storage
(1C)	CHARACTER	36	*	spare space

Constants

Table 603.

Len	Type	value	Name	Description
SM domain MVS Storage Management invocation Function codes (values of smvpa_function_type)				
4	DECIMAL	1	SMVP_GETMAIN_TYPE	
4	DECIMAL	2	SMVP_FREEMAIN_TYPE	
4	DECIMAL	3	SMVP_INQ_ STORAGE_TYPE	
SM domain MVS Storage Management invocation Return Codes				
4	DECIMAL	1	SMVRC_NOAUTO	
SM domain MVS Storage Management control constants				
4	DECIMAL	100	NUM_SMVPAS	
4	DECIMAL	20971520	SMV_STORAGE_ CUSHION_SIZE	
4	DECIMAL	41943040	SMV_STORAGE_ THRESHOLD_SIZE	
4	DECIMAL	60	SMV_WAIT_TIMEOUT	wait timeout in secs

SOA Sockets Anchor block

```
!:refstep.so_anchor_block_and_constants --------------- DFHSOAN 361 -
!
!
! This anchor block contains the global storage for the SO domain.
!
! It defines the domain state information, variables and constants
! required by the SO gates and other external programs such as
! DFHSOTRI, the domain trace interpretation routine.
!
!--------------------------------------------------------------------
```

Table 604.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1568	SOA	
(0)	CHARACTER	16	SOA_PREFIX	eyecatcher
(0)	HALFWORD	2	SOA_LENGTH	total length of soa
(2)	CHARACTER	1	SOA_ARROW	>
(3)	CHARACTER	3	SOA_DFH	DFH
(6)	CHARACTER	2	SOA_DOMID	SO
(8)	CHARACTER	8	SOA_BLOCK_NAME	ANCHOR
(10)	UNSIGNED	1	SOA_SO_STATE	SO domain state initialized, quiesced or terminated
(11)	UNSIGNED	1	SOA_LISTENER_ STATE	SO Listener state
(12)	CHARACTER	1	SOA_FLAGS1	
	1...		SOA_TCPIP_ REQUIRED	
				TCPIP support requested
	.1..		SOA_COLD_START	CICS cold started
	..1.		SOA_IIOPLISTENER	IIOPLISTENER=YES
	...1		SOA_CONFDATA	CONFDATA=HIDETC
(13)	CHARACTER	1	SOA_FLAGS2	SSL flags
	1...		SOA_SSL_ REQUESTED	SSL requested
	.1..		SOA_SSL_ AVAILABLE	SSL available
	..1.		SOA_SSL_ SYSPLEX_CACHE	
				Use sysplex cache
	...1 11..		*	Reserved
	.... ..1.		SOA_STRONG_ ENCRYPTION	
				ENCRYPTION=STRONG

Table 604. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		SOA_MEDIUM_ ENCRYPTION	
				ENCRYPTION=MEDIUM
(14)	CHARACTER	1	SOA_FLAGS3	
	1...		SOA_XRSINDI_ ACTIVE	
				XRSINDI exit active
	.1..		SOA_NAMESERVER_ ERR	
				Nameservice unavailable
	..1.		SOA_SELECT_WAIT	Listener in select
(15)	UNSIGNED	1	*	Reserved
(16)	UNSIGNED	1	*	Reserved
(17)	UNSIGNED	1	*	Reserved
(18)	ADDRESS	4	SOA_ENCLAVE_ ENQ_TOKEN	
				Serialization
(1C)	ADDRESS	4	SOA_LOCK_TOKEN	SO domain lock token
(20)	ADDRESS	4	SOA_SO_ MODENAME_TOKEN	
				SO TCB Modename token
(24)	ADDRESS	4	SOA_TCPIPSERVICE_ LOCK_TOKEN	
(28)	ADDRESS	4	SOA_TCBPOOL_ LOCK_TOKEN	
				S8 TCB pool lock
(2C)	ADDRESS	4	SOA_SL_ MODENAME_TOKEN	
				SL TCB Modename token
(30)	ADDRESS	4	SOA_SOIS_ CEEPIPI_TOKEN	
				CEEPIPI token
(34)	ADDRESS	4	SOA_SOIS_ CEEPIPI_LOCK	
				Enclave lock token
(38)	STRUCTURE IsA(ETOKEN)	8	SOA_SO_STOKEN	Subspace Token

Table 604. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	ADDRESS	4	P	
(3C)	FULLWORD	4	N	
(40)	STRUCTURE IsA(ETOKEN)	8	SOA_GENERAL_ SPTOKEN	
				SOGENRL subpool token
(40)	ADDRESS	4	P	
(44)	FULLWORD	4	N	
(48)	STRUCTURE IsA(ETOKEN)	8	SOA_GENER24_ SPTOKEN	
				SOGEN24 subpool
(48)	ADDRESS	4	P	
(4C)	FULLWORD	4	N	
(50)	STRUCTURE IsA(ETOKEN)	8	SOA_LTE_SPTOKEN	SOLTE subpool token
(50)	ADDRESS	4	P	
(54)	FULLWORD	4	N	
(58)	STRUCTURE IsA(ETOKEN)	8	SOA_STE_SPTOKEN	SOSTE subpool token
(58)	ADDRESS	4	P	
(5C)	FULLWORD	4	N	
(60)	STRUCTURE IsA(ETOKEN)	8	SOA_SO_TCB_TOKEN	TCB token for SOCKETS
(60)	ADDRESS	4	P	
(64)	FULLWORD	4	N	
(68)	STRUCTURE IsA(ETOKEN)	8	SOA_SL_TCB_TOKEN	TCB token for LISTENER
(68)	ADDRESS	4	P	
(6C)	FULLWORD	4	N	
(70)	ADDRESS	4	SOA_DFHSOSE_ ENTRY	Address of DFHSOSE
(74)	ADDRESS	4	SOA_CEEPIPI_ ENTRY	Address of CEEPIPI
(78)	ADDRESS	4	SOA_DFHSOLX_ ENTRY	Address of DFHSOLX
(7C)	ADDRESS	4	SOA_SESSIONID_ DIRECTORY	
				SSL sessionid
(80)	CHARACTER	72	SOA_GSK	GSK interface data
(80)	CHARACTER	48	SOA_KEYRING_ NAME	Keyring name

Table 604. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	FULLWORD	4	SOA_SSLV2_ TIMEOUT	V2 timeout (secs)
(B4)	FULLWORD	4	SOA_SSLV3_ TIMEOUT	V3 timeout (secs)
(B8)	CHARACTER	1	SOA_DFHSOSE_ SUFFIX	
				Security suffix
(B9)	CHARACTER	1	*	Reserved
(BA)	HALFWORD	2	SOA_MAX_ SSL_TCBS	Number of S8 tcbs
(BC)	ADDRESS	4	*	Reserved
(C0)	ADDRESS	4	SOA_ENVIRONMENT_ TOKEN	
				System SSL handle
(C4)	FULLWORD	4	SOA_STDIN_FD	STDIN file descr
(C8)	CHARACTER	96	SOA_CIPHER_SPECS	
(C8)	CHARACTER	32	SOA_SSLV2_ CIPHERS	SSL V2 ciphers
(E8)	CHARACTER	64	SOA_SSLV3_ CIPHERS	SSL V3 ciphers
(128)	CHARACTER	8	SOA_DUMMY_DDNAME	Dummy stdin file
(130)	ADDRESS	4	SOA_TCPIPSERVICE_ CLASSP	
				tcpipservice chain
(134)	CHARACTER	76	SOA_WLM_DATA	
(134)	UNSIGNED	1	SOA_WLM_STATE	DDNS availabilty
(135)	CHARACTER	3	*	Reserved
(138)	CHARACTER	8	SOA_WLM_ SERVERNAME	
				Servername (APPLID)
(140)	CHARACTER	64	SOA_WLM_ HOSTNAME	Host Name
(180)	ADDRESS	4	SOA_CRB_ CHAIN_PTR	Ptr to reg list
(184)	CHARACTER	0	SOA_PAD1	
(184)	CHARACTER	124	*	
(200)	CHARACTER	48	SOA_LISTENER_ ACTIONS	
(200)	UNSIGNED	4	SOA_SOLS_ REGISTER	Open a new tcpipservice

Table 604. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(204)	UNSIGNED	4	SOA_SOLS_ DEREGISTER	
				Close a tcpipservice
(208)	UNSIGNED	4	SOA_SOLS_ IMMCLOSE	Immclose a tcpipservice
(20C)	UNSIGNED	4	SOA_SOLS_ QUIESCE	Quiesce SO domain
(210)	UNSIGNED	4	SOA_SOLS_ TERMINATE	
				Terminate SO domain
(214)	UNSIGNED	4	SOA_SOLS_TIMER	Timer POP
(218)	UNSIGNED	4	SOA_SOLS_ WLM_DEREGISTER	
				WLM Dereg a tcpipservice
(21C)	UNSIGNED	4	SOA_SOLS_ CONNECTION	
				New connection accepted
(220)	UNSIGNED	4	SOA_SOLS_ DATA_RECV	
				Async data received
(224)	UNSIGNED	4	*	Reserved
(228)	UNSIGNED	4	*	Reserved
(22C)	UNSIGNED	4	*	Reserved
(230)	FIXED IsA(ECB)	4	SOA_SELECTEX_ECB	ECB for selectex
(230)	UNSIGNED	1	POST_BYTE	
(231)	UNSIGNED	3	COMPLETION_CODE	
(234)	FIXED IsA(ECB)	4	SOA_START_ LISTENER_ECB	
				ECB for SOLS
(234)	UNSIGNED	1	POST_BYTE	
(235)	UNSIGNED	3	COMPLETION_CODE	
(238)	CHARACTER	8	SOA_RECV_CHAIN	Recv complete chain
(238)	ADDRESS	4	SOA_RECV_ CHAIN_HEAD_PTR	
				Pointer to head
(23C)	FULLWORD	4	SOA_RECV_ CHAIN_GUARD	
				Guard for CDS

Table 604. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(240)	CHARACTER	8	SOA_CONN_CHAIN	New connection chain
(240)	ADDRESS	4	SOA_CONN_ CHAIN_HEAD_PTR	
				Pointer to head
(244)	FULLWORD	4	SOA_CONN_ CHAIN_GUARD	
				Guard for CDS
(248)	CHARACTER	36	SOA_LTE_CHAIN	
(248)	FULLWORD	4	SOA_LTE_ NUM_ENTRIES	
				Number of LTEs
(24C)	FIXED IsA(ECB)	4	SOA_LTE_ EMPTY_ECB	Posted when empty
(24C)	UNSIGNED	1	POST_BYTE	
(24D)	UNSIGNED	3	COMPLETION_ CODE	
(250)	CHARACTER	28	SOA_LTE_HEAD	LTE chain header block
(26C)	UNSIGNED	4	SOA_TOKEN_ COUNTER	Count unique tokens
(270)	CHARACTER	48	SOA_STATISTICS	
(270)	CHARACTER	8	SOA_LAST_ RESET_TIME	
				Time (STCK) that global stats were last reset
(278)	ADDRESS	4	SOA_STATS_ BUFFER_PTR	
				Stats return buff
(27C)	FULLWORD	4	CURR_INBOUND_ SOCKETS	
(280)	FULLWORD	4	PEAK_INBOUND_ SOCKETS	
(284)	FULLWORD	4	CURR_OUTBOUND_ SOCKETS	
(288)	FULLWORD	4	PEAK_OUTBOUND_ SOCKETS	
(28C)	FULLWORD	4	CURR_PERS_ OUTB_SOCKETS	
(290)	FULLWORD	4	PEAK_PERS_ OUTB_SOCKETS	
(294)	FULLWORD	4	INBOUND_ SOCKETS_CREATED	
(298)	FULLWORD	4	OUTBOUND_ SOCKETS_CREATED	

Table 604. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(29C)	FULLWORD	4	OUTBOUND_ SOCKETS_CLOSED	
(2A0)	CHARACTER	0	SOA_PAD2	
(2A0)	CHARACTER	96	*	
(300)	ADDRESS	4	SOA_SOCKET_ ARRAY_PTR	
				Socket array
(304)	HALFWORD	2	SOA_MAXSOC	Maxsockets
(306)	HALFWORD	2	*	Reserved
(308)	ADDRESS	4	SOA_CLIENTID_ DIRECTORY	
				SSL sessionid dir
(30C)	ADDRESS	4	SOA_SOLT_ LOCK_TOKEN	
(310)	CHARACTER	8	SOA_SESSID_CHAIN	
(310)	ADDRESS	4	SOA_SESSID_ CHAIN_FIRST	
				first sessid
(314)	ADDRESS	4	SOA_SESSID_ CHAIN_LAST	
				last sessid
(318)	STRUCTURE IsA(ETOKEN)	8	SOA_SP_TCB_TOKEN	ETOKEN token for IPT
(318)	ADDRESS	4	P	
(31C)	FULLWORD	4	N	
(320)	ADDRESS	4	SOA_SP_ MODENAME_TOKEN	
				SP modename token
(324)	ADDRESS	4	SOA_SP_ ENCLAVE_TOKEN	
				SP enclave token
(328)	ADDRESS	4	SOA_TASK_ MANAGER_PTR	
				Task manager class
(32C)	ADDRESS	4	SOA_SOCKET_ MANAGER_PTR	
				Socket Mgr class
(330)	CHARACTER	0	SOA_PAD3	
(330)	CHARACTER	208	*	
(400)	ADDRESS	4	SOA_RDB_FIRST	Realm Desc Block
(404)	ADDRESS	4	SOA_RDB_LAST	First & Last

Table 604. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(408)	HALFWORD	2	SOA_CRLPROFILE_LEN	CRL profile length
(40A)	CHARACTER	246	SOA_CRLPROFILE_NAME	
				CRL profile name
(500)	CHARACTER	0	SOA_PAD4	
(500)	CHARACTER	0	*	
(500)	CHARACTER	256	SOA_LOCALE_INFO	Locale name
(600)	CHARACTER	8	SOA_APPLID	SPECIFIC APPLID
(608)	CHARACTER	12	SOA_DFHSOLX_LAST_ACCEPT	
(608)	CHARACTER	8	SOA_ACCEPT_TIMESTAMP	
				Accept Timestamp
(610)	ADDRESS	4	SOA_ACCEPT_LTE	Accept LTE addr
(614)	CHARACTER	12	SOA_DFHSOLX_LAST_RECEIVE	
(614)	CHARACTER	8	SOA_RECEIVE_TIMESTAMP	
				Receive Timestamp
(61C)	ADDRESS	4	SOA_RECEIVE_SOCKET	
				Receive socket addr
(620)	CHARACTER	0	*	Alignment

Table 605.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	SOCRB	Client Registration Block
(0)	CHARACTER	16	SOCRB_PREFIX	eyecatcher
(0)	HALFWORD	2	SOCRB_LENGTH	Length
(2)	CHARACTER	1	SOCRB_ARROW	>
(3)	CHARACTER	3	SOCRB_DFH	DFH
(6)	CHARACTER	2	SOCRB_DOMID	SO
(8)	CHARACTER	8	SOCRB_BLOCK_NAME	CRB
(10)	ADDRESS	4	SOCRB_NEXT	Next block in chain

Table 605. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	CHARACTER	8	SOCRB_PROTOCOL_ TYPE	
				Protocol type
(1C)	FULLWORD	4	SOCRB_CLIENT_ DOMAIN	
				Domain number
(20)	FULLWORD	4	SOCRB_CLIENT_ DOMAIN_GATE	
				Domain gate
(24)	CHARACTER	0	*	Alignment

```
------------------------------------------------------------------------!
 RDB - TCPIPSERVICE realm descriptor block !
------------------------------------------------------------------------!
```

Table 606.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	88	RDB	
(0)	HALFWORD	2	RDB_LENGTH	length of RDB
(2)	CHARACTER	14	RDB_EYECATCHER	'RDFHSOTCPREALM'
(10)	ADDRESS	4	RDB_NEXT	-> next rdb
(14)	ADDRESS	4	RDB_PREV	-> previous rdb
(18)	FULLWORD	4	*	reserved
(1C)	FULLWORD	4	RDB_REALM_LEN	realm length
(20)	CHARACTER	56	RDB_NAME	realm name

```
!:refstep.so_listener_table_entry ---------------------- DFHSOAN 572 -
!
! There is one LTE for each listening socket that is handled by the
! SO domain listener. The lte_port is kept in the prefix for
! sorting and searching. The chain of LTEs is kept sorted in
! ascending order of port number.
!
!------------------------------------------------------------------------
```

Table 607.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1096	LTE	
(0)	CHARACTER	28	LTE_PREFIX	
(0)	HALFWORD	2	LTE_LENGTH	total length of lte
(2)	CHARACTER	1	LTE_ARROW	>
(3)	CHARACTER	3	LTE_DFH	DFH
(6)	CHARACTER	2	LTE_DOMID	SO
(8)	CHARACTER	8	LTE_BLOCK_NAME	LTE

Table 607. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	ADDRESS	4	LTE_NEXT	-> next LTE (or header)
(14)	ADDRESS	4	LTE_PREV	-> prev LTE (or header)
(18)	UNSIGNED	2	LTE_PORT	Port number
(1A)	UNSIGNED	2	*	Reserved for alignment
(1C)	UNSIGNED	4	LTE_IDENTITY_NO	Unique number for id
32				
(20)	CHARACTER	24	LTE_STE_HEAD	Pseudo STE header
(20)	FIXED IsA(ECB)	4	LTE_STE_ EMPTY_ECB	ECB posted when empty
(20)	UNSIGNED	1	POST_BYTE	
(21)	UNSIGNED	3	COMPLETION_ CODE	
(24)	FULLWORD	4	LTE_STE_ NUM_ENTRIES	
				# STEs in chain
(28)	FIXED IsA(ECB)	4	LTE_READY_ECB	ECB for LTE ready
(28)	UNSIGNED	1	POST_BYTE	
(29)	UNSIGNED	3	COMPLETION_ CODE	
(2C)	UNSIGNED	4	LTE_CONNECTION_ COUNT	
				Num of open sockets
(30)	ADDRESS	4	LTE_STE_FIRST	First STE on chain
(34)	ADDRESS	4	LTE_STE_LAST	Last STE on chain
(38)	UNSIGNED	4	LTE_LISTEN_ BACKLOG	Backlog value for listen
(3C)	FULLWORD	4	LTE_SOCKET	Socket descriptor
! 64				
(40)	CHARACTER	1	LTE_FLAG1	
	1...		LTE_NEW	Newly created by register
	.1..		LTE_SOCKET_ CREATED	
				BPX1SOC called
	..1.		LTE_SOCKET_ BOUND	BPX1LTN called

Table 607. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		LTE_SOCKET_ LISTENED	
				BPX1BND called
	.... 1...		LTE_SOCKET_ GETCLID	
				BPX1CLD called
	.... .1..		LTE_SOCKET_ CLOSED	BPX1CLO called
	.... ..1.		LTE_DEREGISTERING	Processing deregister
	1		LTE_IMMCLOSING	Processing immclose
(41)	BIT(8)	1	LTE_FLAG2	
	1...		LTE_CONNECTION_ FAILURE	
				A connection has failed
	.1..		LTE_EIO	EIO received
	..1.		LTE_EUNATCH	EUNATCH received
	...1		LTE_DEFAULT_ STACK	default tcpipstk
	.... 1...		LTE_ENFILE	ENFILE received
	 1111		*	Reserved
(42)	BIT(8)	1	LTE_FLAG3	Reserved
(43)	BIT(8)	1	LTE_FLAG4	Reserved
	1111 111.		*	Reserved
	1		LTE_REMOVED	Remove from SOA list
(44)	ADDRESS	4	LTE_SOCKET_PTR	
! 72				
(48)	CHARACTER	8	LTE_OPEN_TIME	Open time (STCK)
(48)	BIT(32)	4	LTE_OPEN_ TIME_HIGH	
(4C)	BIT(32)	4	LTE_OPEN_ TIME_LOW	
! 80 5 16				
(50)	CHARACTER	72	LTE_SERVICE_AREA	TCPIPSERVICE attribs
(50)	CHARACTER	8	LTE_SERVICE_ NAME	Name of service eg. HTTP
(58)	CHARACTER	8	LTE_SERVICE_ DESCRIPT	

Table 607. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				1st 8 of description
(60)	CHARACTER	8	LTE_SERVICE_URM	Name of URM for service
! 96 6 16				
(68)	CHARACTER	4	LTE_SERVICE_ TRANID	
				Transaction to attach
(6C)	FULLWORD	4	LTE_RECV_ TIMEOUT	Receive timeout value
(70)	CHARACTER	6	LTE_SERVICE_ TSQPREFIX	
				TSQ Prefix
(76)	CHARACTER	1	LTE_SERVICE_ FLAGS2	
				Flag byte 2
	1...		LTE_PRIVACY_ REQUIRED	
				supported also on
	.1..		LTE_PRIVACY_ SUPPORTED	
				if required set
	..11 1111		*	reserved
(77)	UNSIGNED	1	LTE_SERVICE_ FLAGS	
	1...		LTE_SERVICE_ SSL	Secure Sockets Layer
	.1..		LTE_SERVICE_ CLIAUTH	
				Client authentication
	..1.		LTE_AUTHENT_ ASSERTED	
				Asserted
	...1		LTE_AUTHENT_ KERBEROS	
				Kerberos
	.... 1...		LTE_AUTHENT_ AUTOMATIC	
				Auto auth
	.... .1..		LTE_AUTHENT_ AUTOREGISTER	
				Auto reg

Table 607. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		LTE_AUTHENT_ CERTIFICATE	
				Certif req'd
	1		LTE_AUTHENT_ BASIC	
				Basic auth
! 112 7 16				
(78)	UNSIGNED	1	LTE_PROTOCOL	Protocol
(79)	UNSIGNED	1	LTE_ATTACHSEC	Attachsec
(7A)	UNSIGNED	1	LTE_KERBEROS_ PRINCIPAL_LEN	
				Kerberos length
(7B)	UNSIGNED	1	LTE_CIPHER_ COUNT	Number of ciphers
(7C)	CHARACTER	28	LTE_CIPHER_ SUITES	SSL cipher codes
! 144 9 16				
(98)	CHARACTER	28	LTE_WLM_DATA	Work Load Manager
(98)	CHARACTER	18	LTE_WLM_ GROUPNAME	Group name
(AA)	UNSIGNED	1	LTE_WLM_STATE	Reg/De-reg State
(AB)	CHARACTER	1	LTE_WLM_FLAGS	Reserved
	1...		LTE_WLM_ CRITICAL	Group_Critical
	.1..		LTE_WLM_ DEREGISTER	
				Deregister this now
	..1.		LTE_WLM_ GROUP_DEREGISTER	
				Deregister group
	...1 1111		*	Reserved
(AC)	UNSIGNED	4	LTE_WLM_RETCODE	Last Return code
(B0)	UNSIGNED	4	LTE_WLM_RSNCODE	Last Reason code
(B4)	ADDRESS	4	LTE_CONN_ CHAIN_NEXT_PTR	
! 176 11 16				
(B8)	CHARACTER	112	LTE_SOCKADDR	
(B8)	STRUCTURE IsA(SOCK_HEADER)	2	LTE_SOCKADDR_ HEADER	
				SockAddr

Table 607. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B8)	UNSIGNED	1	SOCK_LEN	Address length - this value is:
For AF_INET - the length of Sock_Inet_Part For AF_UNIX - the length of the name put into Sock_sun_Name@PCC				
(B9)	UNSIGNED	1	SOCK_FAMILY	Address family
(BA)	CHARACTER	0	SOCK_DATA	Protocol specific area
(BA)	CHARACTER	108	LTE_ADDR	structure for
(BA)	STRUCTURE IsA(SOCK_INET_PART)	14	LTE_INET_ADDR	the host
(BA)	UNSIGNED	2	SOCK_SIN_PORT	Port number used by the appl
(BC)	CHARACTER	4	SOCK_SIN_ADDR	Inet addr (netid)
(C0)	CHARACTER	8	*	unused
(BA)	STRUCTURE IsA(SOCK_UNIX_PART)	108	LTE_UNIX_ADDR	machine.
Deleted field use SOCK_LEN instead Length of the path name				
(BA)	CHARACTER	108	SOCK_SUN_NAME	Path name of the socket
(128)	CHARACTER	112	LTE_ACCEPT_ SOCKADDR	
				SockAddr
(128)	STRUCTURE IsA(SOCK_HEADER)	2	LTE_ACCEPT_ SOCKADDR_HEADER	
				for async
(128)	UNSIGNED	1	SOCK_LEN	Address length - this value is:
(129)	UNSIGNED	1	SOCK_FAMILY	Address family
(12A)	CHARACTER	0	SOCK_DATA	Protocol specific area
(12A)	CHARACTER	108	LTE_ACCEPT_ADDR	Accept
(12A)	STRUCTURE IsA(SOCK_INET_PART)	14	LTE_ACCEPT_ INET_ADDR	
				calls
(12A)	UNSIGNED	2	SOCK_SIN_PORT	Port number used by the appl
(12C)	CHARACTER	4	SOCK_SIN_ADDR	Inet addr (netid)
(130)	CHARACTER	8	*	unused
(12A)	STRUCTURE IsA(SOCK_UNIX_PART)	108	LTE_ACCEPT_ UNIX_ADDR	
(12A)	CHARACTER	108	SOCK_SUN_NAME	Path name of the socket
(198)	CHARACTER	40	LTE_CID	
(1C0)	CHARACTER	48	LTE_STATISTICS_ DATA	

Table 607. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Statistics collection data
(1C0)	CHARACTER	8	LTE_SEND_BYTES	Bytes sent 64 bits
(1C0)	BIT(32)	4	LTE_SEND_ BYTES_HIGH	
				* Need to split into
(1C4)	BIT(32)	4	LTE_SEND_ BYTES_LOW	
				* 32 bit values for C
(1C8)	CHARACTER	8	LTE_RECV_BYTES	Bytes received
(1C8)	BIT(32)	4	LTE_RECV_ BYTES_HIGH	
				* Need to split into
(1CC)	BIT(32)	4	LTE_RECV_ BYTES_LOW	
				* 32 bit values for C
(1D0)	CHARACTER	8	LTE_ENCRYPT_ BYTES	Bytes encrypted (SSL)
(1D0)	BIT(32)	4	LTE_ENCRYPT_ BYTES_HIGH	
(1D4)	BIT(32)	4	LTE_ENCRYPT_ BYTES_LOW	
(1D8)	CHARACTER	8	LTE_DECRYPT_ BYTES	Bytes decrypted (SSL)
(1D8)	BIT(32)	4	LTE_DECRYPT_ BYTES_HIGH	
(1DC)	BIT(32)	4	LTE_DECRYPT_ BYTES_LOW	
(1E0)	FULLWORD	4	LTE_SEND_COUNT	Number of sends
(1E4)	FULLWORD	4	LTE_RECV_COUNT	Number of receives
(1E8)	FULLWORD	4	LTE_ATTACH_ COUNT	# service attaches
(1EC)	FULLWORD	4	LTE_PEAK_CONN	highest # connections
(1F0)	FULLWORD	4	LTE_MAXDATA_ LENGTH	MAXDATALEN
(1F4)	FULLWORD	4	LTE_WAIT_COUNT	# WAITs on ECBs
(1F8)	ADDRESS	4	LTE_CERTLABEL_ PTR	
(1FC)	ADDRESS	4	LTE_REALM_PTR	Realm

Table 607. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(200)	ADDRESS	4	LTE_PROTOCOL_CRB_PTR	
				CRB
(204)	ADDRESS	4	LTE_KERBPRINC_PTR	Kerberos
(208)	CHARACTER	0	LTE_PAD1	
(208)	CHARACTER	120	*	
(280)	CHARACTER	128	LTE_AIOCB	Accept AOICB
(300)	CHARACTER	0	LTE_PAD2	
(300)	CHARACTER	0	*	
(300)	CHARACTER	288	LTE_SERVER_ADDRESS_AREA	
				Server address area
(300)	UNSIGNED	1	*	Reserved
(301)	CHARACTER	15	LTE_SERVER_IP_ADDRESS	
				IP address string
(310)	UNSIGNED	4	LTE_SERVER_BIN_IP_ADDR	
				Binary address
(314)	CHARACTER	10	*	Reserved
(31E)	HALFWORD	2	LTE_SERVER_HOSTNAME_LEN	
				Length of hostname@MAC
(320)	CHARACTER	256	LTE_SERVER_HOSTNAME_BUF	
				Hostname buffer
(420)	STRUCTURE IsA(APPLDATA)	40	LTE_APPLDATA	
(420)	CHARACTER	24	APPLDATA_PFX	owned by SO
(420)	CHARACTER	3	ADSO_DFH	"DFH"
(423)	CHARACTER	1	ADSO_TYPE	Inbound Outbound
(424)	CHARACTER	8	ADSO_APPLID	this CICS region
(42C)	CHARACTER	4	ADSO_TRANID	
(430)	CHARACTER	8	ADSO_PROTO	In: LTE, Out: CONNECT
(438)	CHARACTER	16	APPLDATA_SFX	optional user supplied
(438)	CHARACTER	8	ADAP_SVCNAME	In: TCPIPSERVICE name

Table 607. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(440)	CHARACTER	8	ADAP_SVCDESC	In: TCPIPSERVICE desc
(448)	CHARACTER	0	*	Reserved

```
!:erefstep.so_listener_table_entry ----------------------------------
!:refstep.so_session_table_entry ---------------------- DFHSOAN 735 -
!
! There is one STE for each socket that is created using accept.
! These represent the individual sessions to clients. The
! soa_ste_head contains 0 for the ste_prev pointer.
!
!--------------------------------------------------------------------
```

Table 608.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	STE	
(0)	CHARACTER	24	STE_PREFIX	
(0)	HALFWORD	2	STE_LENGTH	total length of ste
(2)	CHARACTER	1	STE_ARROW	>
(3)	CHARACTER	3	STE_DFH	DFH
(6)	CHARACTER	2	STE_DOMID	SO
(8)	CHARACTER	8	STE_BLOCK_NAME	STE
(10)	ADDRESS	4	STE_NEXT	-> next STE (or header)
(14)	ADDRESS	4	STE_PREV	-> prev STE (or header)
(18)	CHARACTER	8	STE_SERVICE_ LTE_TOKEN	
				Originating LTE
(18)	ADDRESS	4	STE_SERVICE_ LTE_PTR	
				Pointer to LTE
(1C)	UNSIGNED	4	STE_SERVICE_ LTE_ID	
				Identity number of LTE
(20)	ADDRESS	4	STE_SOCKET_PTR	
(24)	FULLWORD	4	STE_TXN_COUNT	Tran use-count
(28)	BIT(8)	1	STE_FLAG1	
	1111		*	Reserved
	.... 1...		STE_SOCKET_ SURRENDER	
				Surrender socket
	.... .1..		STE_SUPPRESS_ TRACE	

Table 608. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Suppress buffer trace
(29)	CHARACTER	3	*	Reserved
(2C)	ADDRESS	4	STE_THREAD_ WAITER	Suspend token
(30)	CHARACTER	0	*	

```
!:erefstep.so_ session_ table_entry ----------------------------------
!:refstep.so_  bpx_interface --------------------------- DFHSOAN 765 -
!
  ! This structure holds all the parameter information and related
  ! data for the UNIX System Services Callable Services (BPX) calls.
  ! It is used heavily for tracing information.
!
  !--------------------------------------------------------------------
```

Table 609.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	128	BPX_INTERFACE	
(0)	FULLWORD	4	BPX_RETURN_VALUE	
(4)	FULLWORD	4	BPX_RETURN_CODE	
(8)	FULLWORD	4	BPX_REASON_CODE	
(C)	ADDRESS	4	BPX_STE_PTR	
(10)	ADDRESS	4	BPX_LTE_PTR	
(14)	ADDRESS	4	BPX_USOCKET_PTR	
(18)	CHARACTER	104	BPX_PARAMETERS	
(18)	CHARACTER	8	ASYNCIO_PARMS	
(18)	UNSIGNED	4	AIOCB_LEN	
(1C)	ADDRESS	4	AIOCB_ADDR	
(18)	CHARACTER	40	SELECT_PARMS	
(18)	UNSIGNED	4	NUMBER_MSGSFDS	
(1C)	UNSIGNED	4	READ_LIST_ LENGTH	
(20)	ADDRESS	4	READ_LIST_ADDR	
(24)	UNSIGNED	4	WRITE_LIST_ LENGTH	
(28)	ADDRESS	4	WRITE_LIST_ ADDR	
(2C)	UNSIGNED	4	EXCEPTION_ LIST_LENGTH	
(30)	ADDRESS	4	EXCEPTION_ LIST_ADDR	
(34)	ADDRESS	4	TIMEOUT_ POINTER	
(38)	ADDRESS	4	ECB_POINTER	

Table 609. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	UNSIGNED	4	USER_OPTION_ FIELD	
(18)	CHARACTER	20	SOCKET_PARMS	
(18)	UNSIGNED	4	DOMAIN	
(1C)	UNSIGNED	4	SOCKTYPE	
(20)	UNSIGNED	4	PROTOCOL	
(24)	UNSIGNED	4	DIMENSION	
(28)	UNSIGNED	4	SOCKET_VECTOR	
(18)	CHARACTER	12	BIND_PARMS	
(18)	UNSIGNED	4	BIND_SOCKET_ DESCRIPTOR	
(1C)	UNSIGNED	4	BIND_SOCKADDR_ LENGTH	
(20)	ADDRESS	4	BIND_SOCKADDR_ ADDR	
(18)	CHARACTER	8	LISTEN_PARMS	
(18)	UNSIGNED	4	LISTEN_ SOCKET_DESCRIPTOR	
(1C)	UNSIGNED	4	LISTEN_BACKLOG	
(18)	CHARACTER	12	ACCEPT_PARMS	
(18)	UNSIGNED	4	ACCEPT_ SOCKET_DESCRIPTOR	
(1C)	UNSIGNED	4	ACCEPT_ SOCKADDR_LENGTH	
(20)	ADDRESS	4	ACCEPT_ SOCKADDR_ADDR	
(18)	CHARACTER	16	GETCLIENTID_ PARMS	
(18)	UNSIGNED	4	GETCLID_ FUNCTIONCODE	
(1C)	UNSIGNED	4	GETCLID_DOMAIN	
(20)	UNSIGNED	4	GETCLID_ CLIENTID_LENGTH	
(24)	ADDRESS	4	GETCLID_ CLIENTID_ADDR	
(18)	CHARACTER	12	GETHOSTNAME_ PARMS	
(18)	UNSIGNED	4	GETHOST_DOMAIN	
(1C)	UNSIGNED	4	GETHOST_ NAME_LENGTH	
(20)	ADDRESS	4	GETHOST_ NAME_ADDR	
(18)	CHARACTER	12	TAKESOCKET_ PARMS	

Table 609. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	UNSIGNED	4	TAKESOCK_ CLIENTID_LENGTH	
(1C)	ADDRESS	4	TAKESOCK_ CLIENTID_ADDR	
(20)	UNSIGNED	4	TAKESOCK_ SOCKET_DESCRIPTOR	
(18)	CHARACTER	12	GIVESOCKET_ PARMS	
(18)	UNSIGNED	4	GIVESOCK_ SOCKET_DESCRIPTOR	
(1C)	UNSIGNED	4	GIVESOCK_ CLIENTID_LENGTH	
(20)	ADDRESS	4	GIVESOCK_ CLIENTID_ADDR	
(18)	CHARACTER	4	CLOSE_PARMS	
(18)	UNSIGNED	4	FILE_DESCRIPTOR	
(18)	CHARACTER	24	SETSOCKOPT_ PARMS	
(18)	UNSIGNED	4	SETSOCK_ SOCKET_DESCRIPTOR	
(1C)	UNSIGNED	4	SETSOCK_ OPERATION	
(20)	UNSIGNED	4	SETSOCK_LEVEL	
(24)	UNSIGNED	4	SETSOCK_ OPTION_NAME	
(28)	UNSIGNED	4	SETSOCK_ OPTION_ DATA_LENGTH	
(2C)	ADDRESS	4	SETSOCK_ OPTION_DATA_ADDR	
(18)	CHARACTER	20	SIGPROCMASK_ PARMS	
(18)	UNSIGNED	4	SIGPROCM_HOW	
(1C)	CHARACTER	8	SIGPROCM_ NEW_SIGNAL_MASK	
(24)	CHARACTER	8	SIGPROCM_ OLD_SIGNAL_MASK	
(18)	CHARACTER	4	GETSOCKNAME_ PARMS	
(18)	UNSIGNED	4	GETSOCKN_ OPERATION	
(18)	CHARACTER	104	IOCTL_PARMS	
(18)	UNSIGNED	4	IOCTL_COMMAND	
(1C)	FULLWORD	4	IOCTL_ARGLEN	
(20)	CHARACTER	96	IOCTL_ARG	

Table 609. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER	20	SETAFF_PARMS	
(18)	CHARACTER	8	SETAFF_TYPE	
(20)	UNSIGNED	4	SETAFF_CMD	
(24)	FULLWORD	4	SETAFF_PARM_L	
(28)	FULLWORD	4	SETAFF_PARM	

Constants

Table 610.

Len	Type	value	Name	Description
1	DECIMAL	0	LTE_PROTOCOL_USER	
1	DECIMAL	1	LTE_PROTOCOL_HTTP	
1	DECIMAL	2	LTE_PROTOCOL_IIOP	
1	DECIMAL	3	LTE_PROTOCOL_ECI	
1	DECIMAL	4	LTE_PROTOCOL_IPIC	
1	DECIMAL	1	LTE_ATTACHSEC_LOCAL	
1	DECIMAL	2	LTE_ATTACHSEC_VERIFY	
!:erefstep.so_bpx_interface ---------- !:refstep.so_domain_states ---------- DFHSOAN 857 - ! ! SO Domain States. ! !----------				
1	DECIMAL	1	SO_STATE_INITIALISING	
1	DECIMAL	2	SO_STATE_INITIALISED	
1	DECIMAL	3	SO_STATE_QUIESCING	
1	DECIMAL	4	SO_STATE_QUIESCED	
1	DECIMAL	5	SO_STATE_TERMINATED	
1	DECIMAL	1	SO_LISTENER_STATE_OPEN	
1	DECIMAL	2	SO_LISTENER_STATE_OPENING	
1	DECIMAL	3	SO_LISTENER_STATE_CLOSED	
1	DECIMAL	4	SO_LISTENER_STATE_CLOSING	
1	DECIMAL	5	SO_LISTENER_STATE_IMMCLOSING	
1	DECIMAL	0	SO_SERVICE_WLM_STATE_NOTAPPLIC	
1	DECIMAL	1	SO_SERVICE_WLM_STATE_AVAILABLE	

Table 610. (continued)

Len	Type	value	Name	Description
1	DECIMAL	2	SO_SERVICE_ WLM_STATE_UNAVAILABLE	
1	DECIMAL	3	SO_SERVICE_ WLM_STATE_REGISTERED	
1	DECIMAL	4	SO_SERVICE_ WLM_STATE_UNREGISTERED	
1	DECIMAL	5	SO_SERVICE_ WLM_STATE_REGERROR	
1	DECIMAL	6	SO_SERVICE_ WLM_STATE_DEREGISTERED	
1	DECIMAL	7	SO_SERVICE_ WLM_STATE_DEREGERROR	

SOCK Socket object

Table 611.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	1280	SOCKET	
!:refstep.soce_instance_data ------------------------- DFHSOCO 479 - ! ! The instance data contains: ! ! - An eyecatcher ! ! - A HOP_DChainNode ! !----------				
INSTANCE DATA				
Inherited Data				
(0)	STRUCTURE Prot	32	ELEMENT_INSTANCE	
(0)	SIGNED Prot	2	INSTANCE_LENGTH	
(2)	CHARACTER Prot	10	EYECATCHER	
(C)	ADDRESS Prot	4	OWNER_P	
(10)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	CHAIN_ELEMENT	
(10)	CHARACTER Priv	4	*	
(18)	CHARACTER Prot	8	*	
(18)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(1C)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.soso_instance_data ------------------------- DFHSOSO 413 - ! ! ! The instance data contains: ! ! - An eyecatcher ! !----------				
Declared Data				
(20)	STRUCTURE Publ	1248	SOCKET_INSTANCE	
(20)	SIGNED Publ	2	INSTANCE_LENGTH	
(22)	CHARACTER Publ	14	EYECATCHER	
(22)	CHARACTER Publ	1	*	
(23)	CHARACTER Publ	13	*	
(30)	CHARACTER Publ	8	CREATE_TIME	
(38)	OBJECT Publ IsA(ECB_OBJECT)	8	ACTIVATE_ECB	
!:refstep.soec_instance_data ------------------------- DFHSOEC 153 - ! ! The instance data contains: ! ! - An eyecatcher ! ! - A resource type ! ! - An ECB ! !----------				
(38)	CHARACTER Prot	8	ECB_INSTANCE	
(38)	CHARACTER Prot	2	EYECATCHER	
(3A)	CHARACTER Prot	1	RESOURCE_TYPE	
(3B)	CHARACTER Prot	1	RESOURCE_NAME	
(3C)	BIT(32) Prot	4	THEECB	
	1... .... Prot		WAITING	
	.1.. .... Prot		POSTED	
(40)	CHARACTER Publ IsA(RU_TOKEN)	4	THETOKEN	
(44)	FIXED Publ IsA(SOUS_PROTOCOL)	1	TRANSPORT	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(45)	UNSIGNED Publ	1	LT_TYPE	
(46)	UNSIGNED Publ	1	RECV_TYPE	
(47)	FIXED Publ IsA(SSL_HANDSHAKE)	1	HANDSHAKE	
(48)	ADDRESS Publ	4	THE_STE_PTR	
(4C)	SIGNED Publ	4	SWITCH_DEPTH	
(50)	CHARACTER Publ	40	ASYNC_COMPLETION_ DATA	
(50)	ADDRESS Publ	4	CHAIN_NEXT_PTR	
(54)	CHARACTER Publ	4	TASK_TO_ATTACH	
(58)	SIGNED Publ	2	CALLBACK_DOM	
(5A)	SIGNED Publ	2	CALLBACK_GATE	
(5C)	UNSIGNED Publ	1	LAST_RESPONSE	
(5D)	UNSIGNED Publ	1	LAST_REASON	
(5E)	UNSIGNED Publ	1	NOTIFY_ACTION	
(5F)	UNSIGNED Publ	1	*	
(60)	STRUCTURE Publ IsA(ETOKEN)	8	SAVE_TOKEN	
(60)	ADDRESS Publ	4	P	
(64)	SIGNED Publ	4	N	
(68)	STRUCTURE Publ IsA(ETOKEN)	8	TIMER_TOKEN	
(68)	ADDRESS Publ	4	P	
(6C)	SIGNED Publ	4	N	
(70)	CHARACTER Publ	8	ASYNC_TIMEOUT_ INTERVAL	
(70)	UNSIGNED Publ	4	INTERVAL_ SECONDS	
(74)	UNSIGNED Publ	4	INTERVAL_ MICROSECONDS	
(78)	ADDRESS Publ	4	ASYNC_BUFFER_P	
(7C)	SIGNED Publ	4	ASYNC_BUFFER_ LEN	
(80)	ADDRESS Publ	4	SSL_ASYNC_ BUFFER_P	
				Encrypted async

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)	SIGNED Publ	4	SSL_ASYNC_ BUFFER_LEN	
				buffer
(88)	SIGNED Publ	4	MINIMUM_ RECV_DATA	
(8C)	SIGNED Publ	4	RECEIVE_TIMEOUT	
(90)	CHARACTER Publ	112	*	120
(90)	OBJECT Publ IsA(LIFETIME)	112	THELIFETIME	
!:refstep.solt_instance_data ------------------------- DFHSOLT 241 - ! Restricted Materials of IBM ! ! The instance data contains: ! ! - An eyecatcher ! ! - A collection of TaskAssociations ! ! - A token, representing the owning socket ! !----------				
(90)	CHARACTER Prot	112	LIFETIME_ INSTANCE	
(90)	CHARACTER Prot	2	EYECATCHER	
(92)	CHARACTER Prot	1	LIFETIME_ TYPE	
(93)	CHARACTER Prot	1	LIFETIME_ FLAGS	
	1... .... Prot		NEVER_ASSOCIATED	
	.1.. .... Prot		LOCK_REQUIRED	
	..11 1111 Prot		*	
(94)	CHARACTER Prot	4	TRACE_DATA	
(94)	CHARACTER Prot	4	TRACE_TRANNUM	
(98)	CHARACTER Prot	4	LOCK_DATA	
(98)	ADDRESS Prot	4	LOCK_TOKEN	
(9C)	CHARACTER Prot IsA(RU_TOKEN)	4	OWNER	
(A0)	OBJECT Prot IsA(COLLECTION)	48	TASKS	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.soco_instance_data ------------------------- DFHSOCO 194 - ! Restricted Materials of IBM ! ! The instance data contains: ! ! - An eyecatcher ! ! - A count of the number of objects in the collection ! ! - A HOP_DChain ! !----------				
(A0)	CHARACTER Prot	48	COLLECTION_ INSTANCE	
(A0)	CHARACTER Prot	4	EYECATCHER	
(A4)	SIGNED Prot	4	COUNT	
(A8)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
(A8)	CHARACTER Priv	4	*	
(B0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(B0)	CHARACTER Priv	4	*	
(B8)	CHARACTER Prot	8	*	
(B8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(BC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(C0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(C0)	CHARACTER Priv	4	*	
(C8)	CHARACTER Prot	8	*	
(C8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(CC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(D0)	OBJECT Prot IsA(COLLECTION)	48	RESERVED	
(D0)	CHARACTER Prot	48	COLLECTION_ INSTANCE	
(D0)	CHARACTER Prot	4	EYECATCHER	
(D4)	SIGNED Prot	4	COUNT	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(D8)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
(D8)	CHARACTER Priv	4	*	
(E0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(E0)	CHARACTER Priv	4	*	
(E8)	CHARACTER Prot	8	*	
(E8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(EC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(F0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(F0)	CHARACTER Priv	4	*	
(F8)	CHARACTER Prot	8	*	
(F8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(FC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(90)	OBJECT Publ IsA(TASK_LT)	112	TASK	
(90)	CHARACTER Prot	112	LIFETIME_ INSTANCE	
(90)	CHARACTER Prot	2	EYECATCHER	
(92)	CHARACTER Prot	1	LIFETIME_ TYPE	
(93)	CHARACTER Prot	1	LIFETIME_ FLAGS	
	1... .... Prot		NEVER_ASSOCIATED	
	.1.. .... Prot		LOCK_REQUIRED	
	..11 1111 Prot		*	
(94)	CHARACTER Prot	4	TRACE_DATA	
(94)	CHARACTER Prot	4	TRACE_TRANNUM	
(98)	CHARACTER Prot	4	LOCK_DATA	
(98)	ADDRESS Prot	4	LOCK_TOKEN	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9C)	CHARACTER Prot IsA(RU_TOKEN)	4	OWNER	
(A0)	OBJECT Prot IsA(COLLECTION)	48	TASKS	
(A0)	CHARACTER Prot	48	COLLECTION_ INSTANCE	
(A0)	CHARACTER Prot	4	EYECATCHER	
(A4)	SIGNED Prot	4	COUNT	
(A8)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
(A8)	CHARACTER Priv	4	*	
(B0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(B0)	CHARACTER Priv	4	*	
(B8)	CHARACTER Prot	8	*	
(B8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(BC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(C0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(C0)	CHARACTER Priv	4	*	
(C8)	CHARACTER Prot	8	*	
(C8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(CC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(D0)	OBJECT Prot IsA(COLLECTION)	48	RESERVED	
(D0)	CHARACTER Prot	48	COLLECTION_ INSTANCE	
(D0)	CHARACTER Prot	4	EYECATCHER	
(D4)	SIGNED Prot	4	COUNT	
(D8)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
(D8)	CHARACTER Priv	4	*	
(E0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E0)	CHARACTER Priv	4	*	
(E8)	CHARACTER Prot	8	*	
(E8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(EC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(F0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(F0)	CHARACTER Priv	4	*	
(F8)	CHARACTER Prot	8	*	
(F8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(FC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(90)	OBJECT Publ IsA(SHARED_LT)	112	SHARED	
(90)	CHARACTER Prot	112	LIFETIME_ INSTANCE	
(90)	CHARACTER Prot	2	EYECATCHER	
(92)	CHARACTER Prot	1	LIFETIME_ TYPE	
(93)	CHARACTER Prot	1	LIFETIME_ FLAGS	
	1... .... Prot		NEVER_ASSOCIATED	
	.1.. .... Prot		LOCK_REQUIRED	
	..11 1111 Prot		*	
(94)	CHARACTER Prot	4	TRACE_DATA	
(94)	CHARACTER Prot	4	TRACE_TRANNUM	
(98)	CHARACTER Prot	4	LOCK_DATA	
(98)	ADDRESS Prot	4	LOCK_TOKEN	
(9C)	CHARACTER Prot IsA(RU_TOKEN)	4	OWNER	
(A0)	OBJECT Prot IsA(COLLECTION)	48	TASKS	
(A0)	CHARACTER Prot	48	COLLECTION_ INSTANCE	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	CHARACTER Prot	4	EYECATCHER	
(A4)	SIGNED Prot	4	COUNT	
(A8)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
(A8)	CHARACTER Priv	4	*	
(B0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(B0)	CHARACTER Priv	4	*	
(B8)	CHARACTER Prot	8	*	
(B8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(BC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(C0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(C0)	CHARACTER Priv	4	*	
(C8)	CHARACTER Prot	8	*	
(C8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(CC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(D0)	OBJECT Prot IsA(COLLECTION)	48	RESERVED	
(D0)	CHARACTER Prot	48	COLLECTION_ INSTANCE	
(D0)	CHARACTER Prot	4	EYECATCHER	
(D4)	SIGNED Prot	4	COUNT	
(D8)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
(D8)	CHARACTER Priv	4	*	
(E0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(E0)	CHARACTER Priv	4	*	
(E8)	CHARACTER Prot	8	*	
(E8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(EC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(F0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(F0)	CHARACTER Priv	4	*	
(F8)	CHARACTER Prot	8	*	
(F8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(FC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(90)	OBJECT Publ IsA(PERSISTENT_LT)	112	PERSISTENT	
(90)	CHARACTER Prot	112	LIFETIME_ INSTANCE	
(90)	CHARACTER Prot	2	EYECATCHER	
(92)	CHARACTER Prot	1	LIFETIME_ TYPE	
(93)	CHARACTER Prot	1	LIFETIME_ FLAGS	
	1... .... Prot		NEVER_ASSOCIATED	
	.1.. .... Prot		LOCK_REQUIRED	
	..11 1111 Prot		*	
(94)	CHARACTER Prot	4	TRACE_DATA	
(94)	CHARACTER Prot	4	TRACE_TRANNUM	
(98)	CHARACTER Prot	4	LOCK_DATA	
(98)	ADDRESS Prot	4	LOCK_TOKEN	
(9C)	CHARACTER Prot IsA(RU_TOKEN)	4	OWNER	
(A0)	OBJECT Prot IsA(COLLECTION)	48	TASKS	
(A0)	CHARACTER Prot	48	COLLECTION_ INSTANCE	
(A0)	CHARACTER Prot	4	EYECATCHER	
(A4)	SIGNED Prot	4	COUNT	
(A8)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
(A8)	CHARACTER Priv	4	*	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(B0)	CHARACTER Priv	4	*	
(B8)	CHARACTER Prot	8	*	
(B8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(BC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(C0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(C0)	CHARACTER Priv	4	*	
(C8)	CHARACTER Prot	8	*	
(C8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(CC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(D0)	OBJECT Prot IsA(COLLECTION)	48	RESERVED	
(D0)	CHARACTER Prot	48	COLLECTION_ INSTANCE	
(D0)	CHARACTER Prot	4	EYECATCHER	
(D4)	SIGNED Prot	4	COUNT	
(D8)	OBJECT Prot IsA(HOP_DCHAIN)	40	CHAIN	
(D8)	CHARACTER Priv	4	*	
(E0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	ITER0	
(E0)	CHARACTER Priv	4	*	
(E8)	CHARACTER Prot	8	*	
(E8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(EC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(F0)	OBJECT Prot IsA(HOP_DCHAINNODE)	16	NODE0	
(F0)	CHARACTER Priv	4	*	
(F8)	CHARACTER Prot	8	*	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F8)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	PREV	
(FC)	ADDRESS Prot IsA(HOP_DCHAINNODE@)	4	NEXT	
(100)	UNSIGNED Publ	4	CS_FLAG_WORD	
(100)	BIT(8) Publ	1	SOCKET_FLAGS1	
	1... .... Publ		IN_SEND	
	.1.. .... Publ		IN_RECV	
	..1. .... Publ		GIVEN	
	...1 .... Publ		TAKEN	
	.... 1... Publ		CONNECTED	
	.... .1.. Publ		LISTENING	
	.... ..1. Publ		TERMINATED	
	....1 Publ		SET_TIMER	
(101)	BIT(8) Publ	1	SOCKET_FLAGS2	
	1... .... Publ		LOCAL_SET	
	.1.. .... Publ		REMOTE_SET	
	..1. .... Publ		WAITING	
	...1 .... Publ		TIMEDOUT	
	.... 1... Publ		BOUND	
	.... .1.. Publ		MANUAL_ SCHEDULE	
	.... ..1. Publ		TRACE_SUPPRESSION	
	....1 Publ		HS_COMPL	
(102)	SIGNED Publ	2	NOTIFY_COUNT	
(104)	SIGNED Publ	4	SEND_COUNT	
(108)	CHARACTER Publ	8	LOCAL_ADDRESS	
(108)	UNSIGNED Publ	4	LOCAL_IPADDRESS	
(10C)	UNSIGNED Publ	2	LOCAL_PORT	
(10E)	SIGNED Publ	2	*	
(110)	CHARACTER Publ	8	REMOTE_ADDRESS	
(110)	UNSIGNED Publ	4	REMOTE_ IPADDRESS	
(114)	UNSIGNED Publ	2	REMOTE_PORT	
(116)	SIGNED Publ	2	*	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(118)	CHARACTER Publ	8	TARGET_ADDRESS	
(118)	UNSIGNED Publ	4	TARGET_ IPADDRESS	
(11C)	UNSIGNED Publ	2	TARGET_PORT	
(11E)	SIGNED Publ	2	*	
(120)	ADDRESS Publ	4	SSL_DATA_PTR	
(124)	ADDRESS Publ	4	THREAD_WAITER	
(128)	CHARACTER Publ	8	START_WAIT_TIME	
(130)	STRUCTURE Publ IsA(ETOKEN)	8	ORIGINAL_ TCB_TOKEN	
(130)	ADDRESS Publ	4	P	
(134)	SIGNED Publ	4	N	
(138)	CHARACTER Publ	8	LOCK_DATA	
(138)	ADDRESS Publ	4	LOCK_TOKEN	
(13C)	BIT(8) Publ IsA(LMLM_LOCK_STATUS_TYPE)	1	LOCK_STATUS	
	1... .... Publ		HELD	
	.111 1111 Publ		*	
(13D)	BIT(24) Publ	3	*	
(140)	CHARACTER Publ	8	ATTACH_ LOCK_DATA	
(140)	ADDRESS Publ	4	ATTACH_ LOCK_TOKEN	
(144)	BIT(8) Publ IsA(LMLM_LOCK_STATUS_TYPE)	1	ATTACH_ LOCK_STATUS	
	1... .... Publ		HELD	
	.111 1111 Publ		*	
(145)	BIT(24) Publ	3	*	
(148)	STRUCTURE Publ IsA(APPLDATA)	40	APPLDATA_SO	
(148)	CHARACTER Publ	24	APPLDATA_PFX	owned by SO
(148)	CHARACTER Publ	3	ADSO_DFH	"DFH"
(14B)	CHARACTER Publ	1	ADSO_TYPE	Inbound Outbound
(14C)	CHARACTER Publ	8	ADSO_APPLID	this CICS region

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(154)	CHARACTER Publ	4	ADSO_TRANID	
(158)	CHARACTER Publ	8	ADSO_PROTO	In: LTE, Out: CONNECT
(160)	CHARACTER Publ	16	APPLDATA_SFX	optional user supplied
(160)	CHARACTER Publ	8	ADAP_SVCNAME	In: TCPIPSERVICE name
(168)	CHARACTER Publ	8	ADAP_SVCDESC	In: TCPIPSERVICE desc
(170)	CHARACTER Publ	40	TCP_SERVAUTH	
(198)	CHARACTER Publ	0	SOCK_PAD1	
(198)	CHARACTER Publ	104	*	
(200)	OBJECT Publ IsA(USOCKET)	768	THEUSOCKET	
!:refstep.sous_instance_data ------------------------- DFHSOUS 306 - ! Restricted Materials of IBM ! ! The instance data contains: ! ! - An eyecatcher ! ! - A socket descriptor ! ! - ECBs for the asynchronous I/O. ! ! - A Client ID structure ! ! - Control blocks for the asynchronous I/O. ! ! - A structure for tracing the bpx parameters ! !----------				
(200)	CHARACTER Prot	768	USOCKET_ INSTANCE	
(200)	CHARACTER Prot	200	USOCKET_DATA	
(200)	CHARACTER Prot	4	EYECATCHER	
(204)	SIGNED Prot	4	DESCRIPTOR	
(208)	SIGNED Prot	4	RCVLOWAT	
(20C)	ADDRESS Prot	4	REFSOCKET	
(210)	OBJECT Prot IsA(ECB_OBJECT)	8	SENDECB	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(210)	CHARACTER Prot	8	ECB_INSTANCE	
(210)	CHARACTER Prot	2	EYECATCHER	
(212)	CHARACTER Prot	1	RESOURCE_ TYPE	
(213)	CHARACTER Prot	1	RESOURCE_ NAME	
(214)	BIT(32) Prot	4	THEECB	
	1... .... Prot		WAITING	
	.1.. .... Prot		POSTED	
(218)	OBJECT Prot IsA(ECB_OBJECT)	8	RECVECB	
(218)	CHARACTER Prot	8	ECB_INSTANCE	
(218)	CHARACTER Prot	2	EYECATCHER	
(21A)	CHARACTER Prot	1	RESOURCE_ TYPE	
(21B)	CHARACTER Prot	1	RESOURCE_ NAME	
(21C)	BIT(32) Prot	4	THEECB	
	1... .... Prot		WAITING	
	.1.. .... Prot		POSTED	
(220)	OBJECT Prot IsA(ECB_OBJECT)	8	MISCECB	
(220)	CHARACTER Prot	8	ECB_INSTANCE	
(220)	CHARACTER Prot	2	EYECATCHER	
(222)	CHARACTER Prot	1	RESOURCE_ TYPE	
(223)	CHARACTER Prot	1	RESOURCE_ NAME	
(224)	BIT(32) Prot	4	THEECB	
	1... .... Prot		WAITING	
	.1.. .... Prot		POSTED	
(228)	STRUCTURE Prot IsA(SOCKADDR)	110	SOCK_ADDR	
(228)	STRUCTURE Prot IsA(SOCK_HEADER)	2	SOCKADDR_ HEADER	
(228)	UNSIGNED Prot	1	SOCK_LEN	Address length - this value is:

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
For AF_INET - the length of Sock_Inet_Part For AF_UNIX - the length of the name put into Sock_sun_Name@PCC				
(229)	UNSIGNED Prot	1	SOCK_FAMILY	Address family
(22A)	CHARACTER Prot	0	SOCK_DATA	Protocol specific area
(22A)	CHARACTER Prot	108	SOCKADDR_ ADDR	
(22A)	STRUCTURE Prot IsA(SOCK_INET_PART)	14	SOCKADDR_ INET_ADDR	
(22A)	UNSIGNED Prot	2	SOCK_SIN_ PORT	
				Port number used by the appl
(22C)	CHARACTER Prot	4	SOCK_SIN_ ADDR	
				Inet addr (netid)
(230)	CHARACTER Prot	8	*	
(22A)	STRUCTURE Prot IsA(SOCK_UNIX_PART)	108	SOCKADDR_ UNIX_PART	
Deleted field use SOCK_LEN instead Length of the path name				
(22A)	CHARACTER Prot	108	SOCK_SUN_ NAME	
				Path name of the socket
(296)	SIGNED Prot	2	*	
(298)	ADDRESS Prot	4	EXIT_DATA_P	
(29C)	ADDRESS Prot	4	EXIT_ADDR	
(2A0)	CHARACTER Prot	40	THECID	
(2C8)	CHARACTER Prot	0	SOUS_PAD1	
(2C8)	CHARACTER Prot	56	*	
(300)	CHARACTER Prot	512	*	
(300)	CHARACTER Prot	128	BPXPARMS	
(380)	CHARACTER Prot	128	SENDAIOCB	
(400)	CHARACTER Prot	128	RECVAIOCB	
(480)	CHARACTER Prot	128	MISCAIOCB	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE Publ	104	SOCKET_SSL_DATA	
(0)	SIGNED Publ	2	SSL_DATA_LENGTH	
(2)	CHARACTER Publ	14	SSL_EYECATCHER	
(10)	CHARACTER Publ	88	SSL_STATE	
(10)	SIGNED Publ	4	SSL_HANDLE	
(14)	BIT(8) Publ	1	SSL_FLAGS1	
	1... .... Publ		SSL_CONFIRMED	
	.1.. .... Publ		HS_ACTIVE	
	..1. .... Publ		HS_COMPLETE	
	...1 .... Publ		GSK_CLOSED	
	.... 1... Publ		GSK_CANCEL	
	.... .1.. Publ		SSL_TIMED_OUT	
	.... ..1. Publ		*	
(15)	BIT(8) Publ	1	SSL_FLAGS2	
	1111 .... Publ		CERTIFICATE_ STATE	
	1... .... Priv		DEFAULT_ CERTIFICATE	
	.1.. .... Publ		CERT_REGISTERED	
	..1. .... Publ		CERT_UNREGISTERED	
	...1 .... Publ		CERT_UNTRUSTED	
(16)	CHAR VARY Publ	8	USERID	
(20)	CHARACTER Publ	33	CERTIFICATE	
(20)	CHARACTER Publ	32	CERTIFICATE_ LABEL	
(40)	UNSIGNED Publ	1	*	Label terminator
(41)	UNSIGNED Publ	1	*	Reserved
(42)	SIGNED Publ	2	CIPHER_COUNT	Number of ciphers
(44)	CHARACTER Publ	28	CIPHER_SUITES	Cipher code list
(60)	STRUCTURE Publ IsA(ETOKEN)	8	REPOSITORY_ TOKEN	
(60)	ADDRESS Publ	4	P	
(64)	SIGNED Publ	4	N	

Table 611. (continued)

Offset Hex	Type	Len	Name (dim)	Description
SHARED DATA				
Declared Data				
(0)	FIXED Publ	1	SSL_HANDSHAKE	

Constants

Table 612.

Len	Type	value	Name	Description
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	
4	DECIMAL	16	NODE_OFFSET	
THIS STRUCTURE DESCRIBES THE PARAMETER LIST FOR SOCK TYPE REQUESTS THESE ARE THE ENUMERATED VALUES TAKEN BY KEYWORD				
1	DECIMAL	1	SOCK_SEND	
1	DECIMAL	2	SOCK_SEND_SSL_DATA	
1	DECIMAL	3	SOCK_RECEIVE	
1	DECIMAL	4	SOCK_RECEIVE_ SSL_DATA	
1	DECIMAL	5	SOCK_CLOSE	
1	DECIMAL	6	SOCK_CREATE	
1	DECIMAL	7	SOCK_CONNECT	
1	DECIMAL	8	SOCK_LISTEN	
1	DECIMAL	9	SOCK_RELINQUISH	
1	DECIMAL	10	SOCK_ESTABLISH	
1	DECIMAL	11	SOCK_RESERVE	
1	DECIMAL	12	SOCK_ACCEPT	
1	DECIMAL	13	SOCK_GET_DATA_LENGTH	
1	DECIMAL	14	SOCK_BIND	
1	DECIMAL	15	SOCK_GET_SOCKET_OPTS	
1	DECIMAL	16	SOCK_SET_SOCKET_OPTS	
1	DECIMAL	17	SOCK_SET_ APPLDATA_SFX	
1	DECIMAL	18	SOCK_SURRENDER	
1	DECIMAL	19	SOCK_CANCEL	
1	DECIMAL	20	SOCK_SCHEDULE_ RECEIVER_TASK	
1	DECIMAL	1	SOCK_OK	
1	DECIMAL	2	SOCK_EXCEPTION	
1	DECIMAL	3	SOCK_DISASTER	

Table 612. (continued)

Len	Type	value	Name	Description
1	DECIMAL	4	SOCK_INVALID	
1	DECIMAL	5	SOCK_KERNERROR	
1	DECIMAL	6	SOCK_PURGED	
1	DECIMAL	1	SOCK_INVALID_FORMAT	
1	DECIMAL	2	SOCK_INVALID_ FUNCTION	
1	DECIMAL	3	SOCK_ABEND	
1	DECIMAL	4	SOCK_LOOP	
1	DECIMAL	5	SOCK_LOCK_FAILURE	
1	DECIMAL	6	SOCK_SOCKET_IN_USE	
1	DECIMAL	7	SOCK_TIMED_OUT	
1	DECIMAL	8	SOCK_TASK_CANCELLED	
1	DECIMAL	9	SOCK_UNKNOWN_ SESSION_TOKEN	
1	DECIMAL	10	SOCK_INSUFFICIENT_ STORAGE	
1	DECIMAL	11	SOCK_IO_ERROR	
1	DECIMAL	12	SOCK_CONNECTION_ CLOSED	
1	DECIMAL	13	SOCK_NO_SOCKET_ AVAILABLE	
1	DECIMAL	14	SOCK_CLIENT_ERROR	
1	DECIMAL	15	SOCK_INVALID_OPTION	
1	DECIMAL	16	SOCK_MISSING_OPTION	
1	DECIMAL	17	SOCK_NOT_AUTHORIZED	
1	DECIMAL	18	SOCK_STATE_ERROR	
1	DECIMAL	19	SOCK_NEVER_ ASSOCIATED	
1	DECIMAL	20	SOCK_NOTIFICATION_ UNAVAILABLE	
1	DECIMAL	21	SOCK_ALREADY_ ASSOCIATED	
1	DECIMAL	22	SOCK_TCP_NOT_ACTIVE	
1	DECIMAL	23	SOCK_SCHEDULED	
1	DECIMAL	24	SOCK_NO_CONNECTION	
1	DECIMAL	25	SOCK_CONNECTION_ REFUSED	
1	DECIMAL	26	SOCK_ADDRESS_IN_USE	
1	DECIMAL	27	SOCK_ADDRESS_ NOT_AVAILABLE	
1	DECIMAL	28	SOCK_INSUFFICIENT_ THREADS	

Table 612. (continued)

Len	Type	value	Name	Description
1	DECIMAL	29	SOCK_NOTIFIED	
1	DECIMAL	30	SOCK_NOT_PENDING	
1	DECIMAL	31	SOCK_SSL_ HANDSHAKE_ERROR	
1	DECIMAL	32	SOCK_SSL_ NOT_SUPPORTED	
1	DECIMAL	33	SOCK_MAX_ PORTS_REACHED	
1	DECIMAL	1	SOCK_DEFAULT	
1	DECIMAL	2	SOCK_SOCKETCLOSE	
1	DECIMAL	1	SOCK_TCP	
1	DECIMAL	2	SOCK_UDP	
1	DECIMAL	1	SOCK_TASK	
1	DECIMAL	2	SOCK_SHARED	
1	DECIMAL	3	SOCK_PERSISTENT	
1	DECIMAL	1	SOCK_YES	
1	DECIMAL	2	SOCK_NO	
1	DECIMAL	3	SOCK_FOREVER	
1	DECIMAL	1	SOCK_SYNC	
1	DECIMAL	2	SOCK_ASYNC	
1	DECIMAL	1	SOCK_NONE	
1	DECIMAL	2	SOCK_SAME_SYSPLEX	
1	DECIMAL	3	SOCK_SAME_IMAGE	
1	DECIMAL	4	SOCK_SAME_STACK	
1	DECIMAL	1	SOCK_USER	
1	DECIMAL	2	SOCK_HTTP	
1	DECIMAL	3	SOCK_IIOP	
1	DECIMAL	4	SOCK_ECI	
1	DECIMAL	5	SOCK_IPIC	
1	BIT	00000000	LMLM_LOCK_FREE	
1	BIT	10000000	LMLM_LOCK_HELD	
3	DECIMAL	2	SOCKADDR#LEN	len of Sockaddr hdr
3	DECIMAL	14	SOCK_SIN#LEN	
3	DECIMAL	26	SOCK_SIN6#LEN	
Length of 108 matchs RS/6000 maximum selection				
3	DECIMAL	108	SOCK_SUN#LEN	
Declares for address families Changed from Fixed(32) to Fixed(8) to match Sock_Family and back to Fixed(32) since constants will be truncated				

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	0	AF_UNSPEC	Unspecified
4	DECIMAL	1	AF_UNIX	Local to host - pipes
4	DECIMAL	2	AF_INET	Internetwork: UDP, TCP
4	DECIMAL	3	AF_IMPLINK	Arpanet imp addresses
4	DECIMAL	4	AF_PUP	pup protocols: BSP
4	DECIMAL	5	AF_CHAOS	mit CHAOS protocols
4	DECIMAL	6	AF_NS	Xerox NS protocols
4	DECIMAL	7	AF_NBS	nbs protocols
4	DECIMAL	8	AF_ECMA	European computer man.
4	DECIMAL	9	AF_DATAKIT	datakit protocols
4	DECIMAL	10	AF_CCITT	CCITT protocols: X.25
4	DECIMAL	11	AF_SNA	IBM SNA
4	DECIMAL	12	AF_DECNET	DECNet
4	DECIMAL	13	AF_DLI	Direct data link int
4	DECIMAL	14	AF_LAT	LAT
4	DECIMAL	15	AF_HYLINK	NSC Hyperchannel
4	DECIMAL	16	AF_APPLETALK	Apple Talk
4	DECIMAL	17	AF_IUCV	IBM IUCV
4	DECIMAL	18	AF_ESCON	ESCON UDP
4	DECIMAL	19	AF_INET6	IPv6
4	DECIMAL	20	AF_ROUTE	Routing Sockets
4	DECIMAL	21	AF_MAX	
Declares for protocol				
4	DECIMAL	0	IPPROTO_IP	default protocol
4	DECIMAL	6	IPPROTO_TCP	tcp
4	DECIMAL	17	IPPROTO_UDP	user datagram
4	DECIMAL	41	IPPROTO_IPV6	IPv6
4	DECIMAL	58	IPPROTO_ICMPV6	IPv6 ICMP
4	DECIMAL	0	IPPROTO_HOPOPTS	
4	DECIMAL	43	IPPROTO_ROUTING	
4	DECIMAL	44	IPPROTO_FRAGMENT	
4	DECIMAL	50	IPPROTO_ESP	

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	51	IPPROTO_AH	
4	DECIMAL	59	IPPROTO_NONE	
4	DECIMAL	60	IPPROTO_DSTOPTS	
Declares for setpeer options				
4	DECIMAL	512	SOCK#SO_SET	
4	DECIMAL	1024	SOCK#SO_UNSET	
Declares for socket types				
4	DECIMAL	1	SOCK#_STREAM	
4	DECIMAL	2	SOCK#_DGRAM	
4	DECIMAL	3	SOCK#_RAW	
4	DECIMAL	4	SOCK#_RDM	
4	DECIMAL	5	SOCK#_SEQPACKET	
Declares for Dimension (socket/socketpair syscall)				
4	DECIMAL	1	SOCK#DIM_SOCKET	
4	DECIMAL	2	SOCK#DIM_SOCKETPAIR	
4	DECIMAL	3	SOCK#DIM_ SOCKETWAFFINITY	
4	DECIMAL	4	SOCK#DIM_ SOCKETPAIRWAFFINITY	
Declares for getname option				
4	DECIMAL	1 :c 4.SOCK#GNMOPT	GETPEERNAME	
4	DECIMAL	2 :c 4.SOCK#GNMOPT	GETSOCKNAME	
Declares for Sockopt				
4	DECIMAL	1 :c 4.SOCK#OPTOPT	GETSOCKOPT	
4	DECIMAL	2 :c 4.SOCK#OPTOPT	SETSOCKOPT	
4	DECIMAL	3 :c 4.SOCK#OPTOPT	SETIBMSOCKOPT	
Declares for Shutdown options				
4	DECIMAL	0	SOCK#SHUTDOWNREAD	
4	DECIMAL	1	SOCK#SHUTDOWNWRITE	
4	DECIMAL	2	SOCK#SHUTDOWNBOTH	
Declare for Level Number for Socket Options				
4	NUMB HEX	0000FFFF	SOCK#SOL_SOCKET	
Declare for InAddr_Any for Bind requests				
4	HEX	00000000	INADDR_ANY	
4	HEX	7F000001	INADDR_LOOPBACK	

Table 612. (continued)

Len	Type	value	Name	Description
16	HEX	00000000000000000000000000000000	IN6ADDR_ANY	
16	HEX	00000000000000000000000000000001	IN6ADDR_LOOPBACK	
12	CHAR HEX	000000000000000000000000FFFF	IN6ADDR_MAPPEDV4	
12	CHAR HEX	000000000000000000000000	IN6ADDR_COMPATV4	
Declare Socket options - for setsockopt() and getsockopt()				
4	DECIMAL	1	SOCK#SO_DEBUG	
4	DECIMAL	2	SOCK#SO_ACCEPTCONN	
4	DECIMAL	4	SOCK#SO_REUSEADDR	
4	DECIMAL	8	SOCK#SO_KEEPALIVE	
4	DECIMAL	16	SOCK#SO_DONTROUTE	
4	DECIMAL	32	SOCK#SO_BROADCAST	
4	DECIMAL	64	SOCK#SO_USELOOPBACK	
4	DECIMAL	128	SOCK#SO_LINGER	
4	DECIMAL	256	SOCK#SO_OOBINLINE	
4	DECIMAL	4097	SOCK#SO_SNDBUF	
4	DECIMAL	4098	SOCK#SO_RCVBUF	
4	DECIMAL	4099	SOCK#SO_SNDLOWAT	
4	DECIMAL	4100	SOCK#SO_RCVLOWAT	
4	DECIMAL	4101	SOCK#SO_SNDTIMEO	
4	DECIMAL	4102	SOCK#SO_RCVTIMEO	
4	DECIMAL	4103	SOCK#SO_ERROR	
4	DECIMAL	4104	SOCK#SO_TYPE	
---------- Non-standard sockopts ----------				
4	DECIMAL	16384	SO_PROPAGATEID	
4	DECIMAL	16385	SO_CLUSTERCONNTYPE	
4	DECIMAL	16386	SO_SECINFO	
---------- getsockopt(SO_ClusterConnType) Output values ----------				
4	DECIMAL	0	SO_CLUSTERCONNTYPE_NOCONN	
4	DECIMAL	1	SO_CLUSTERCONNTYPE_NONE	
4	DECIMAL	2	SO_CLUSTERCONNTYPE_SAME_CLUSTER	

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	4	SO_CLUSTERCONNTYPE_ SAME_IMAGE	
4	DECIMAL	8	SO_CLUSTERCONNTYPE_ INTERNAL	
---------- IPPROTO_IP Options ----------				
4	DECIMAL	3	IP_MULTICAST_TTL	
4	DECIMAL	4	IP_MULTICAST_LOOP	
4	DECIMAL	5	IP_ADD_MEMBERSHIP	
4	DECIMAL	6	IP_DROP_MEMBERSHIP	
4	DECIMAL	7	IP_MULTICAST_IF	
4	DECIMAL	1	IP_DEFAULT_ MULTICAST_TTL	
4	DECIMAL	1	IP_DEFAULT_ MULTICAST_LOOP	
4	DECIMAL	20	IP_MAX_MEMBERSHIPS	
4	DECIMAL	2	IP_TOS	
---------- IPPROTO_IPV6 Options ----------				
4	DECIMAL	3	SOCK#IPV6_ UNICAST_HOPS	
				21@D9A
4	DECIMAL	4	SOCK#IPV6_ MULTICAST_LOOP	
4	DECIMAL	5	SOCK#IPV6_JOIN_GROUP	
4	DECIMAL	6	SOCK#IPV6_ LEAVE_GROUP	
4	DECIMAL	7	SOCK#IPV6_ MULTICAST_IF	
4	DECIMAL	9	SOCK#IPV6_ MULTICAST_HOPS	
4	DECIMAL	10	SOCK#IPV6_V6ONLY	
4	DECIMAL	11	SOCK#IPV6_HOPLIMIT	and data only
4	DECIMAL	13	SOCK#IPV6_PKTINFO	
4	DECIMAL	14	SOCK#IPV6_ RECVHOPLIMIT	
4	DECIMAL	15	SOCK#IPV6_ RECVPKTINFO	
4	DECIMAL	17	SOCK#IPV6_REACHCONF	
4	DECIMAL	18	SOCK#IPV6_ USE_MIN_MTU	
4	DECIMAL	19	SOCK#IPV6_CHECKSUM	

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	12	SOCK#IPV6_PATHMTU	
4	DECIMAL	16	SOCK#IPV6_ RECVPATHMTU	
4	DECIMAL	20	SOCK#IPV6_NEXTHOP	
4	DECIMAL	21	SOCK#IPV6_RTHDR	
4	DECIMAL	22	SOCK#IPV6_HOPOPTS	
4	DECIMAL	23	SOCK#IPV6_DSTOPTS	
4	DECIMAL	24	SOCK#IPV6_ RTHDRDSTOPTS	
4	DECIMAL	25	SOCK#IPV6_RECVRTHDR	
4	DECIMAL	26	SOCK#IPV6_ RECVHOPOPTS	
Sock#IPV6_RECVRTHDRDSOPTS Constant(27), @DCD				
4	DECIMAL	28	SOCK#IPV6_ RECVDSTOPTS	
4	DECIMAL	29	SOCK#IPV6_DONTFRAG	
4	DECIMAL	30	SOCK#IPV6_TCLASS	
4	DECIMAL	31	SOCK#IPV6_RECVTCLASS	
4	DECIMAL	0	SOCK#IPV6_ RTHDR_TYPE_0	
				IPv6 Routing hdr type 0
1	DECIMAL	1	ICMP6_DST_UNREACH	
1	DECIMAL	2	ICMP6_PACKET_TOO_BIG	
1	DECIMAL	3	ICMP6_TIME_EXCEEDED	
1	DECIMAL	4	ICMP6_PARAM_PROB	
1	DECIMAL	128	ICMP6_INFOMSG_MASK	
1	DECIMAL	128	ICMP6_ECHO_REQUEST	
1	DECIMAL	129	ICMP6_ECHO_REPLY	
1	DECIMAL	130	MLD_LISTENER_QUERY	
1	DECIMAL	131	MLD_LISTENER_REPORT	
1	DECIMAL	132	MLD_LISTENER_ REDUCTION	
1	DECIMAL	133	ND_ROUTER_SOLICIT	
1	DECIMAL	134	ND_ROUTER_ADVERT	
1	DECIMAL	135	ND_NEIGHBOR_SOLICIT	
1	DECIMAL	136	ND_NEIGHBOR_ADVERT	
1	DECIMAL	137	ND_REDIRECT	
-- IPPROTO_ICMPV6 options --				

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1	SOCK#ICMP6_FILTER	
IPv6 Options				
1	NUMB HEX	C0	IP6OPT_TYPE	
1	NUMB HEX	00	IP6OPT_TYPE_SKIP	
1	NUMB HEX	40	IP6OPT_TYPE_DISCARD	
1	NUMB HEX	80	IP6OPT_TYPE_ FORCEICMP	
1	NUMB HEX	C0	IP6OPT_TYPE_ICMP	
1	NUMB HEX	20	IP6OPT_MUTABLE	
1	NUMB HEX	00	IP6OPT_PAD1	00 0 00000@DCA
1	NUMB HEX	01	IP6OPT_PADN	00 0 00001@DCA
1	NUMB HEX	C2	IP6OPT_JUMBO	11 0 00010@DCA
1	NUMB HEX	C3	IP6OPT_NSAP_ADDR	11 0 00
1	NUMB HEX	04	IP6OPT_TUNNEL_LIMIT	00 0 00100
1	NUMB HEX	05	IP6OPT_ROUTER_ALERT	00 0 00101
Declare				
1	DECIMAL	6	IP6OPT_JUMBO_LEN	
Declare Router alert values (in network byte order)				
1	DECIMAL	0	IP6_ALERT_MLD	
1	DECIMAL	1	IP6_ALERT_RSVP	
1	DECIMAL	2	IP6_ALERT_AN	
Declare IPPROTO_TCP options				
4	DECIMAL	1	SOCK#TCP_NODELAY	
4	DECIMAL	8	SOCK#TCP_KEEPALIVE	
---------- SetIbmSockOpt options ----------				
4	DECIMAL	32768	SOCK#SO_BULKMODE	
4	DECIMAL	1 :c 4.SOCK#SO_IGNOREINCOMINGPUSH		
4	DECIMAL	32769 :c 4.SOCK#SO_NONBLOCKLOCAL		
				RTL
4	DECIMAL	2 :c 4.SOCK#SO_IGNORESOURCEVIPA		

Table 612. (continued)

Len	Type	value	Name	Description
				Toggles the use of non-VIPA addresses. When enabled, non-VIPA addresses will be used for outbound IP packets.
4	DECIMAL	32771	SOCK#SO_OPTMSS	Toggles the use of optimal TCP segment size. When enabled, the TCP segment size may be optimally increased on outbound data transfers. This may reduce the amount of TCP outbound and inbound acknowledgement packet processing, therefore, minimizing CPU consumption.
4	DECIMAL	32772	SOCK#SO_OPTACK	Optimize Acknowledgments
4	DECIMAL	5	SOCK#SO_EIOIFNOTIFY	Notify this application of new transports@PAA
4	DECIMAL	6 :c 4.SOCK#SO_ACCEPTECONNABORTED		
				Notify this appl of aborted connections

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	7	SOCK#SO_EXCLWRT	Control Stream Write Serialization SetIbmSockOpt option to toggle system supplied serialization on TCP stream socket writes. A socket's initial value is on and this may be turned off if an application provides its own serialization or never writes to the same TCP socket from more than one thread at a time. Accepted sockets inherit their initial setting from the listening socket's value. This option does not apply to UPD sockets. A four byte value of 0 turns the option off and any non-zero four byte value turns it on.
Declare Constants for on and off when setting options				
4	DECIMAL	1	SOCK#SO_SETOPTIONON	
4	DECIMAL	0	SOCK#SO_SETOPTIONOFF	
Declare Socket Port constant				
2	DECIMAL	1023	SOCK#LASTRESERVEPORT	
4	DECIMAL	192	AIO#LENGTH	
AioCmd Values:				
4	DECIMAL	126	AIO#ACCEPT	These values match the
4	DECIMAL	128	AIO#CONNECT	syscall numbers for the corresponding regular
4	DECIMAL	43	AIO#READ	functions from the macros

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	54	AIO#WRITE	BPXXSINC and BPXZIDF.
4	DECIMAL	133	AIO#READV	
4	DECIMAL	144	AIO#WRITEV	
4	DECIMAL	134	AIO#RECV	
4	DECIMAL	138	AIO#SEND	
4	DECIMAL	135	AIO#RECVFROM	
4	DECIMAL	140	AIO#SENDTO	
4	DECIMAL	243	AIO#RECVMSG	
4	DECIMAL	244	AIO#SENDMSG	
4	DECIMAL	2	AIO#SELPOLL	
4	DECIMAL	1	AIO#CANCEL	Cancel does not have a corresponding reg function.
`AioNotifyType Values:`				
2	DECIMAL	0	AIO#POSIX	POSIX Signals
2	DECIMAL	1	AIO#MVS	MVS Exit/ECB
4	DECIMAL	0	SIGEV_SIGNAL	Generate a Signal
4	DECIMAL	1	SIGEV_NONE	Don't Generate signal
4	DECIMAL	2	SIGEV_THREAD	Call Notif. Function
4	DECIMAL	0	AIO#FOREVER	No Timeout, just wait
4	DECIMAL	-1	AIO#NOWAITING	No waiting, just check
`Aio_suspend Values`				
4	DECIMAL	2147483647	AIO#NO_ASP_TIMEOUT	Don't set timer on BPX1ASP call
`Aio_cancel() return values:`				
2	DECIMAL	1	AIO_CANCELED	All cancels successful
2	DECIMAL	2	AIO_NOTCANCELED	At least 1 cancel failed
2	DECIMAL	3	AIO_ALLDONE	None canceled, already complete
4	DECIMAL	16	IOV64#LENGTH	End LP64 ----------
3	DECIMAL	8	IOV#LENGTH	
`Constants for CIdType field`				
1	DECIMAL	1	CID#CLOSE	close socket

Table 612. (continued)

Len	Type	value	Name	Description
1	DECIMAL	2	CID#SELECT	giver will select
Constants				
2	DECIMAL	40	CID#LENGTH	Length of CId
Constants				
4	DECIMAL	1	SEL#QUERY	Query
4	DECIMAL	2	SEL#CANCEL	Cancel
4	DECIMAL	3	SEL#BATSELQ	Batch-Select Query
4	DECIMAL	4	SEL#BATSELC	Batch-Select Cancel
4	DECIMAL	5	SEL#POLLQUERY	Poll Query
4	DECIMAL	6	SEL#BATPOLLQ	Batch-Poll Query
4	DECIMAL	7	SEL#BATPOLLC	Batch-Poll Cancel
4	DECIMAL	8	SEL#POLLCANCEL	Poll Cancel
4	DECIMAL	16	SEL#ARBLEN	Length of the BPXZARB
Constants used with the Select User Option Field.				
4	DECIMAL	0	SEL#BITSBACKWARD	Bit Backward Order
4	DECIMAL	1	SEL#BITSFORWARD	Bit Forward Order
Constants used with converged sockets.				
4	DECIMAL	3	SEL#TYPES	read,write,except
4	NUMB HEX	40000000	SEL#RBIT	read bit position
4	NUMB HEX	20000000	SEL#WBIT	write bit position
4	NUMB HEX	10000000	SEL#XBIT	Except bit position
Constants that define each signal.				
4	DECIMAL	18	SIGABND#	
4	DECIMAL	3	SIGABRT#	
4	DECIMAL	14	SIGALRM#	
4	DECIMAL	8	SIGFPE#	
4	DECIMAL	1	SIGHUP#	
4	DECIMAL	4	SIGILL#	
4	DECIMAL	2	SIGINT#	
4	DECIMAL	9	SIGKILL#	
4	DECIMAL	13	SIGPIPE#	
4	DECIMAL	24	SIGQUIT#	
4	DECIMAL	11	SIGSEGV#	

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	15	SIGTERM#	
4	DECIMAL	23	SIGIO#	
4	DECIMAL	27	SIGIOER#	
4	DECIMAL	16	SIGUSR1#	
4	DECIMAL	17	SIGUSR2#	
4	DECIMAL	33	SIGDANGER#	
4	DECIMAL	38	SIGDCE#	
4	DECIMAL	20	SIGCHLD#	
4	DECIMAL	19	SIGCONT#	
4	DECIMAL	7	SIGSTOP#	
4	DECIMAL	25	SIGTSTP#	
4	DECIMAL	34	SIGTHSTOP#	
4	DECIMAL	35	SIGTHCONT#	
4	DECIMAL	21	SIGTTIN#	
4	DECIMAL	22	SIGTTOU#	
4	DECIMAL	26	SIGTRAP#	
4	DECIMAL	5	SIGPOLL#	
4	DECIMAL	6	SIGURG#	
4	DECIMAL	10	SIGBUS#	
4	DECIMAL	12	SIGSYS#	
4	DECIMAL	28	SIGWINCH#	
4	DECIMAL	29	SIGXCPU#	
4	DECIMAL	30	SIGXFSZ#	
4	DECIMAL	31	SIGVTALRM#	
4	DECIMAL	32	SIGPROF#	
4	DECIMAL	0	SIGNULL#	
4	DECIMAL	39	SIGDUMP#	
Constants that define sa_handler values on Sigaction()				
4	DECIMAL	0	SIG_DFL#	
4	DECIMAL	1	SIG_IGN#	
Constants that define sa_flags values on Sigaction()				
4	HEX	00000000	SA_FLAGS_DFT#	
4	HEX	80000000	SA_NOCLDSTOP#	
4	HEX	40000000	SA_OLD_STYLE#	
4	HEX	20000000	SA_ONSTACK#	
4	HEX	10000000	SA_RESETHAND#	
4	HEX	08000000	SA_RESTART#	

Table 612. (continued)

Len	Type	value	Name	Description
4	HEX	04000000	SA_SIGINFO#	
4	HEX	02000000	SA_NOCLDWAIT#	
4	HEX	01000000	SA_NODEFER#	
Constants that define how parameter on sigprocmask()				
4	DECIMAL	0	SIG_BLOCK#	
4	DECIMAL	1	SIG_UNBLOCK#	
4	DECIMAL	2	SIG_SETMASK#	
Constants that define the lower two bytes of the Signal_Options on the BPX1KIL and BPX1PTK syscalls. If a signal generated with one or more of these flags is handled by the Signal Interface Routine, the flags will appear in the PpsdKilOps field upon delivery of said signal. When the lower two bytes contain x'1000' (SIG_CONSCANCEL#) the upper two bytes will contain the SIGCNCL qualifier				
2	HEX	0000	SIG_FLAGS_DFT#	
2	HEX	8000	SIG_PTRACEBYPASS#	
2	HEX	4000	SIG_KERNSICODE#	
2	HEX	2000	SIG_APPLSICODE#	
2	HEX	1000	SIG_CONSCANCEL#	
Constants that define si_codes which are passed in the upper two bytes of the Signal_Options on the BPX1KIL and BPX1PTK syscalls If a signal generated with a si_code is handled by the Signal Interface Routine the si_code will appear in the PpsdKilData field upon delivery of said signal.				
2	DECIMAL	11	ILL_ILLOPC#	
2	DECIMAL	12	ILL_ILLOPN#	
2	DECIMAL	13	ILL_ILLADR#	
2	DECIMAL	14	ILL_ILLTRP#	
2	DECIMAL	15	ILL_PRVOPC#	
2	DECIMAL	16	ILL_PRVREG#	
2	DECIMAL	17	ILL_COPROC#	
2	DECIMAL	18	ILL_BADSTK#	
2	DECIMAL	19	ILL_EXECUTE#	
2	DECIMAL	20	ILL_ILLSPEC#	
2	DECIMAL	31	FPE_INTDIV#	
2	DECIMAL	32	FPE_INTOVF#	
2	DECIMAL	33	FPE_FLTDIV#	
2	DECIMAL	34	FPE_FLTOVF#	
2	DECIMAL	35	FPE_FLTUND#	
2	DECIMAL	36	FPE_FLTRES#	
2	DECIMAL	37	FPE_FLTINV#	
2	DECIMAL	38	FPE_FLTSUB#	

Table 612. (continued)

Len	Type	value	Name	Description
2	DECIMAL	39	FPE_FLTSIG#	
2	DECIMAL	40	FPE_DECDATA#	
2	DECIMAL	41	FPE_DECDIV#	
2	DECIMAL	42	FPE_DECOVF#	
2	DECIMAL	43	FPE_UNKWN#	
2	DECIMAL	51	SEGV_MAPERR#	
2	DECIMAL	52	SEGV_ACCERR#	
2	DECIMAL	53	SEGV_PROTECT#	
2	DECIMAL	54	SEGV_ADDRESS#	
2	DECIMAL	71	BUS_ADRALN#	
2	DECIMAL	72	BUS_ADRERR#	
2	DECIMAL	73	BUS_OBJERR#	
2	DECIMAL	91	TRAP_BRKPT#	
2	DECIMAL	92	TRAP_TRACE#	
2	DECIMAL	101	CLD_EXITED#	
2	DECIMAL	102	CLD_KILLED#	
2	DECIMAL	103	CLD_DUMPED#	
2	DECIMAL	104	CLD_TRAPPED#	
2	DECIMAL	105	CLD_STOPPED#	
2	DECIMAL	106	CLD_CONTINUED#	
2	DECIMAL	111	POLL_IN#	
2	DECIMAL	112	POLL_OUT#	
2	DECIMAL	113	POLL_MSG#	
2	DECIMAL	114	POLL_ERR#	
2	DECIMAL	115	POLL_PRI#	
2	DECIMAL	116	POLL_HUP#	
2	DECIMAL	170	ABND_REAL#	
2	DECIMAL	175	SI_ASYNCIO#	
2	DECIMAL	176	SI_QUEUE#	
4	DECIMAL	2147483647	SIG#NO_TIMEOUT	

Table 612. (continued)

Len	Type	value	Name	Description
START OF SPECIFICATIONS 01 MACRO NAME: BPXYCONS 01 DSECT NAME: N/A 01 DESCRIPTIVE NAME: Syscall Constants = 02 ACRONYM: N/A 01 PROPRIETARY STATEMENT= PROPRIETARY_STATEMENT LICENSED MATERIALS - PROPERTY OF IBM THIS MACRO IS "RESTRICTED MATERIALS OF IBM" STATUS= HBB7709 END_OF_PROPRIETARY_STATEMENT 01 EXTERNAL CLASSIFICATION: GUPI 01 END OF EXTERNAL CLASSIFICATION: 01 FUNCTION: Contains Constants used for syscalls 01 METHOD OF ACCESS: 02 PL/X: %INCLUDE SYSLIB(BPXYCONS) 02 ASM: BPXYCONS 01 SIZE: N/A 01 POINTED TO BY: N/A 01 CREATED BY: N/A 01 DELETED BY: N/A 01 STORAGE ATTRIBUTES: 02 SUBPOOL/DATASPACE: N/A 02 KEY: N/A 02 RESIDENCY: N/A 01 FREQUENCY: N/A 01 SERIALIZATION: N/A 01 DEPENDENCIES: None 01 NOTES: None. 01 COMPONENT: OpenMVS (SCPX1) 01 DISTRIBUTION LIBRARY: AMACLIB 01 EYE-CATCHER: None 02 OFFSET: - 02 LENGTH: - 01 CHANGE-ACTIVITY: get sysnames (change pc# number) value for amode not initialized END OF SPECIFICATIONS				
4	DECIMAL	1048576	DFLT_ARG_MAX	Constant for default ARG_MAX (1 MEG)
4	DECIMAL	6	DFLT_CHILD_MAX	Constant for default CHILD_MAX (_POSIX_CHILD_MAX)
4	DECIMAL	100	DFLT_CLK_TCK	Constant for default CLK_TCK (100 ticks per second)
4	DECIMAL	8191	DFLT_NGROUPS_MAX	Constant for default NGROUPS_MAX (RACF maximum value)

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	16	DFLT_OPEN_MAX	Constant for default OPEN_MAX (_POSIX_OPEN_MAX)
4	DECIMAL	9	DFLT_TZNAME_MAX	Constant for default TZNAME_MAX
4	DECIMAL	1	DFLT_JOB_CONTROL	Constant for default JOB_CONTROL
4	DECIMAL	1	DFLT_SAVED_IDS	Constant for default SAVED_IDS
4	DECIMAL	199009	DFLT_VERSION	Constant for default VERSION
4	DECIMAL	50	DFLT_THREAD_TASKS_MAX_NP	Constant for default THREAD_TASKS_MAX_NP
4	DECIMAL	8	DFLT_USERIDLEN_MAX	Max chars allowed for USERID
4	DECIMAL	8	DFLT_PASSWDLEN_MAX	Max chars allowed for Password
4	DECIMAL	1	DFLT_2_CHAR_TERM	Constant for default 2_CHAR_TERM
4	DECIMAL	1	SC_ARG_MAX	Constant for querying ARG_MAX from sysconf()
4	DECIMAL	2	SC_CHILD_MAX	Constant for querying CHILD_MAX from sysconf()
4	DECIMAL	3	SC_CLK_TCK	Constant for querying CLK_TCK from sysconf()
4	DECIMAL	4	SC_JOB_CONTROL	Constant for querying JOB_CONTROL from sysconf()
4	DECIMAL	5	SC_NGROUPS_MAX	Constant for querying NGROUPS_MAX from sysconf()

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	6	SC_OPEN_MAX	Constant for querying OPEN_MAX from sysconf()
4	DECIMAL	7	SC_SAVED_IDS	Constant for querying SAVED_IDS from sysconf()
4	DECIMAL	9	SC_TZNAME_MAX	Constant for querying TZNAME_MAX from sysconf()
4	DECIMAL	10	SC_VERSION	Constant for querying VERSION from sysconf()
4	DECIMAL	11	SC_THREAD_ TASKS_MAX_NP	
				Constant to query THREAD_TASKS_MAX from sysconf()
4	DECIMAL	12	SC_2_CHAR_TERM	Constant to query 2_CHAR_TERM from sysconf()
4	DECIMAL	13	SC_THREADS_MAX_NP	Constant to query THREADS_MAX_NP from sysconf()
4	DECIMAL	14	SC_MMAP_MEM_MAX	Constant to query MMAP_STG_MAX
4	DECIMAL	15	SC_TTY_GROUP	Constant to query TTY_GROUP
4	DECIMAL	16	SC_PAGESIZE	Constant to query Page Size
4	DECIMAL	16	SC_PAGE_SIZE	Constant to query Page Size
4	DECIMAL	1	#WAIT3	wait3() function code
4	DECIMAL	2	#WAITID	waitid() function cde
4	DECIMAL	1	WNOHANG	
4	DECIMAL	2	WUNTRACED	
4	DECIMAL	4	WCONTINUED	wait for a continued child

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	8	WEXITED	wait for processes that have exited
4	DECIMAL	16	WSTOPPED	wait for child process that has stopped
4	DECIMAL	32	WNOWAIT	Wait, return status of a child without changing the state. The child can be waited for again later.
4	DECIMAL	0	P_PID	wait for the child with a process ID
4	DECIMAL	1	P_PGID	wait for any child with a process group ID
4	DECIMAL	2	P_ALL	wait for any child
4	DECIMAL	0	PTEXITTHREAD	
4	DECIMAL	1	PTGETNEWTHREAD	
4	DECIMAL	2	PTFAILIFLASTTHREAD	
4	DECIMAL	1	QUIESCE_TERM	
4	DECIMAL	2	QUIESCE_FORCE	
4	DECIMAL	3	QUIESCE_QUERY	pthread_query alias
4	DECIMAL	3	PTHREAD_QUERY	new query name
4	DECIMAL	4	QUIESCE_FREEZE	
4	DECIMAL	5	QUIESCE_UNFREEZE	
4	DECIMAL	6	FREEZE_THIS_THREAD	
4	DECIMAL	8	FREEZE_EXIT	Skip 7, see BPXZCONS
4	DECIMAL	9	QUIESCE_SRB	Skip 10-11 see BPXZCONS
4	DECIMAL	0	PTHREAD_INTR_ENABLE#	Enabled
4	DECIMAL	1	PTHREAD_INTR_DISABLE#	
				Disabled
4	DECIMAL	0	PTHREAD_INTR_CONTROLLED#	
				controlled
4	DECIMAL	1	PTHREAD_INTR_ASYNCHRONOUS#	
				Asynchronous

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	0	DUBTHREAD	Dub a thread default setting
4	DECIMAL	1	DUBPROCESS	Dub a process default setting
4	DECIMAL	2	DUBTASKACEE	Dub each thread task's ACEE (Init_USP) setting
4	DECIMAL	4	DUBPROCESSDEFER	Defer process dub
4	DECIMAL	8	DUBNOSIGNALS	no signals
4	DECIMAL	16	DUBNODUBLOW	Start of range of non- dubbing options
4	DECIMAL	16	DUBJOBPERM	Dub as a permanent Job
4	DECIMAL	32	DUBNOJSTUNDUB	Dub process such that jobstep does not get undubbed when last non-jst undubs
4	DECIMAL	64	DUBABENDCALLS	Dub process such that system calls abend during a shutdown/ restart window
4	DECIMAL	128	DUBNODUBRSV1	Reserved for non-dubbing option
4	DECIMAL	256	DUBNODUBRSV2	Reserved for non-dubbing option
4	DECIMAL	512	DUBNODUBRSV3	Reserved for non-dubbing option
4	DECIMAL	512	DUBNODUBHIGH	End of range of non- dubbing options
4	DECIMAL	1	STL_MAX_TASKS	Replace Task limit
4	DECIMAL	2	STL_MAX_THREADS	Replace thread limit
4	DECIMAL	3	STL_SET_BOTH	Replace both limits
4	DECIMAL	20	NICE_ZERO	Default Process Scheduling Priority

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1	PRIO_PROCESS	Looking for a specific process
4	DECIMAL	2	PRIO_PGRP	Looking for processes in a process group
4	DECIMAL	3	PRIO_USER	Looking for processes for a user ID
4	DECIMAL	1	CPRIO_ABSOLUTE	Priority value is an absolute value
4	DECIMAL	2	CPRIO_RELATIVE	Priority value is a relative value
4	DECIMAL	1	PROT_READ	Mapped data can be read
4	DECIMAL	2	PROT_WRITE	Mapped data can be written
4	DECIMAL	4	PROT_NONE	Mapped data cannot be accessed
4	DECIMAL	8	PROT_EXEC	Mapped data can be executed. Treated same as PROT_READ.
4	DECIMAL	1	MAP_PRIVATE	Changes to mapped data are private
4	DECIMAL	2	MAP_SHARED	Changes to mapped data are shared
4	DECIMAL	4	MAP_FIXED	Interpret map address exactly
4	DECIMAL	8	MAP_MEGA	Use megabyte allocations
4	DECIMAL	1	MS_SYNC	Performs synchronous writes
4	DECIMAL	2	MS_ASYNC	Performs asynchronous writes
4	DECIMAL	4	MS_INVALIDATE	Invalidate the cached memory mapped pages
4	DECIMAL	-1	SPAWN_FDCLOSED	Do not inherit this file descriptor
4	DECIMAL	4	RLIMIT_CORE	Limit size of core dump

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	0	RLIMIT_CPU	Limit CPU time per process
4	DECIMAL	1	RLIMIT_FSIZE	Limit file size
4	DECIMAL	6	RLIMIT_NOFILE	Limit number of open files
4	DECIMAL	5	RLIMIT_AS	Limit address space size
4	DECIMAL	7	RLIMIT_MEMLIMIT	Limit storage above the 2 Gigabyte bar
4	DECIMAL	2147483647	RLIM_INFINITY	No limit value
4	DECIMAL	0	RUSAGE_SELF	Rusage for current process
4	DECIMAL	-1	RUSAGE_CHILDREN	Rusage for terminated children
Define constants for querydub output status				
4	DECIMAL	1	QDB_DUBBED_FIRST	Task has already been dubbed. This task and this RB caused the dub.
4	DECIMAL	2	QDB_DUBBED	Task has already been dubbed. Other task or other RB caused the dub.
4	DECIMAL	4	QDB_DUB_MAY_FAIL	Task has not been dubbed, but may fail if attempted. Most likely reason for failure is a missing or incomplete user security profile, or OMVS segment not defined.
4	DECIMAL	8	QDB_DUB_OKAY	Task has not been dubbed, and should succeed if attempted
4	DECIMAL	16	QDB_DUB_AS_PROCESS	Task has not been dubbed, but its address space has. New task will dub as another process within the address space

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	32	QDB_DUB_AS_THREAD	Task has not been dubbed, but its address space has. New task will dub a thread within the process
Define constants for oe_env_np syscall function codes				
4	DECIMAL	1	ENQWAIT_PROCESS	Examine/ Change ENQ wait interruption state for the callers process
4	DECIMAL	2	FREEZE_EXIT_REG	Register/ deregister an exit for pthread_quiesce(freeze_exit)
4	DECIMAL	3	MVS_USERID	Retrieve the MVS userid of the invoker
4	DECIMAL	4	ENV_TOGGLE_SEC	Toggle between task and process security environments
4	DECIMAL	5	DFP_CLEANUP_EXIT_REG	Register DFP Close Cleanup Exit
4	DECIMAL	6	BPXK_PARAMETER	Env Vars to Kernel
4	DECIMAL	7	ENV_STOR_SERVICE	Swappable or non-swappable address space
4	DECIMAL	8	QUICK_FREEZE_ EXIT_REG	
				Register/ deregister an exit for pthread quiesce_and_get
4	DECIMAL	9	SHUTDOWN_REG	Register/block for shutdown
4	DECIMAL	10	WRITE_DOWN	write_down service for MLS
4	DECIMAL	11	PIDXFER_QUERY	Query if the callers process was PIDXFERed
4	DECIMAL	12	QUERY_MODE	Query AMODE/ RMODE and AMODE capability of target PID

Table 612. (continued)

Len	Type	value	Name	Description
Define constants for writedown registration function of BPX1ENV				
4	DECIMAL	0	WD_OUERY	query write_down
4	DECIMAL	1	WD_ACTIVATE	activate write_down
4	DECIMAL	2	WD_INACTIVATE	inactivate write_down
4	DECIMAL	3	WD_RESET	reset write_down to default
4	DECIMAL	1	WD_SCOPE_AS	target ACEE is AS
4	DECIMAL	2	WD_SCOPE_THD	target ACEE is task
4	DECIMAL	1	WD_IS_ACTIVE	query result: active
4	DECIMAL	0	WD_IS_INACTIVE	query result: inact
Define constants for shutdown registration function of BPX1ENV				
4	DECIMAL	1	ENV_REGISTERBLOCK	Reg block
4	DECIMAL	2	ENV_REGISTERPERMP	Reg permanent proc
4	DECIMAL	3	ENV_DEREGISTERBLOCK	DeReg block
4	DECIMAL	4	ENV_DEREGISTERPERMP	DeReg permanent proc
4	DECIMAL	5	ENV_REGISTERNOTIFY	Reg Notify
4	DECIMAL	6	ENV_DEREGISTERNOTIFY	DeReg Notify
4	DECIMAL	1	ENV_REGISTERJOB	Reg job
4	DECIMAL	2	ENV_REGISTERPROC	Reg process
Define constants for Task Security syscal function codes				
4	DECIMAL	1	TLS_CREATE_ THREAD_SEC#	
				Build Task Security
4	DECIMAL	2	TLS_DELETE_ THREAD_SEC#	
				Delete Task Security
4	DECIMAL	3	TLS_TASK_ACEE#	Set Posix identity
4	DECIMAL	4	TLS_TASK_ACEE_SELF#	Set Posix identity
4	DECIMAL	1	TLS_IDENTITY_USERID#	User identity: 1-8 char userid
4	DECIMAL	2	TLS_IDENTITY_UID#	User identity: 4-byte uid

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	3	TLS_IDENTITY_UUID#	User identity: x-byte uuid
4	DECIMAL	4	TLS_IDENTITY_CERT#	User identity: CERT stucture
Define constants for __Security syscall __Security Function Codes				
4	DECIMAL	1	SECURITY_CREATE#	
4	DECIMAL	2	SECURITY_CERTREG#	
4	DECIMAL	3	SECURITY_CERTDEREG#	
4	DECIMAL	4	SECURITY_CERTAUTH#	
__Security user identities				
4	DECIMAL	1	SECURITY_USERID#	
4	DECIMAL	2	SECURITY_ CERTIFICATE#	
Define constants for __pid_affinity (BPX1PAF) syscall functions				
4	DECIMAL	1	PAF_ADD_PID#	Add PID to list
4	DECIMAL	2	PAF_DELETE_PID#	Delete PID from list
Define constants for convert_id_np (BPX1CID) syscall functions				
4	DECIMAL	1	CID_GET_UUID#	Retrieve UUID
4	DECIMAL	2	CID_GET_USERID#	Retrieve userid
Define constants for auth_check_resource_np (BPX1ACK) syscall access types				
4	DECIMAL	1	ACK_READ#	Test READ access
4	DECIMAL	2	ACK_UPDATE#	Test UPDATE access
4	DECIMAL	3	ACK_CONTROL#	Test CONTROL access
4	DECIMAL	4	ACK_ALTER#	Test ALTER access
Define constants for versions of OSMF on BPXESMF syscall				
1	DECIMAL	1	OSMF_VER_HOM1110	Version 1 of OSMF, used in HOM1110
1	DECIMAL	2	OSMF_VER_HOM1120	Version 2 of OSMF, used in HOM1120
1	DECIMAL	3	OSMF_VER_HOM1130	Version 3 of OSMF, used in HOM1130

Table 612. (continued)

Len	Type	value	Name	Description
The high order two bytes of the reason codes returned by OpenMVS services contains a value that is used to qualify the contents of the low order two bytes. If the contents of the high-order two bytes are within the range of #CMID_LO to #CMID_HI, the error represented by the reason code is defined by OpenMVS. If the contents of the high order two bytes lie outside the range, the error represented by the reason code is not an OpenMVS reason code.				
4	DECIMAL	0	#CMID_LOW	Low range
4	DECIMAL	8447	#CMID_HI	High range
Define constants for Console Communication service				
4	DECIMAL	17850	CC_MAX_MSG_LENGTH	Max Wto string length for SUs
4	DECIMAL	17780	CC_MAX_MSG_ LENGTH_NONSU	
				Max Wto string length for NonSUs
4	DECIMAL	128	CC_MODIFY_ BUFFER_LENGTH	
				Length of Modify Buffer
4	DECIMAL	1	CONSOLE_MODIFY	Service interrupted by Modify
4	DECIMAL	2	CONSOLE_STOP	Service interrupted by Stop
Define constants for srv_ callable service interfaces				
4	DECIMAL	1	SRV_WORKMGR	Work Manager services requested
4	DECIMAL	2	SRV_QUEUEMGR	Queue Mgr services requested
4	DECIMAL	4	SRV_SERVERMGR	Server Mgr services requested
4	DECIMAL	8	SRV_SERVERMGR_DYNAMIC	Server Mgr With Dynamic mngt
4	DECIMAL	1	SRV_PUT_NEWWRK	Put new work function requested
4	DECIMAL	2	SRV_PUT_SUBWRK	Put sub work function requested
4	DECIMAL	4	SRV_TRANSFER_WRK	Transfer work function requested@DGA

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	8	SRV_GET_WRK	Get work function requested
4	DECIMAL	16	SRV_REFRESH_WRK	Refresh work fcn requested
4	DECIMAL	32	SRV_END_WRK	End work function requested
4	DECIMAL	64	SRV_DEL_ENC	Delete Enclave Fcn requested
4	DECIMAL	128	SRV_DISCONNECT	Disconnect from WLM
4	DECIMAL	256	SRV_DISCONNECT_COND	Disconnect conditional from WLM
4	DECIMAL	512	SRV_RESERVED_4_INTERNAL_USE	
				See BPXZCONS
Constants for BPX1PCT pfsctl Constants for BPXVRCAC - LFS Cache				
4	HEX	80000007	PC#ADDFILE	
4	HEX	80000008	PC#DELETEFILE	
4	HEX	80000009	PC#REFRESHCACHE	
4	HEX	8000000A	PC#PURGECACHE	
Misc other function codes				
4	HEX	C0000005	PC#SETIBMOPTCMD	
4	HEX	C0000006	PC#SETIBMASYIO	
4	HEX	C000000B	PC#ERRORTEXT	
4	HEX	8000000B	PC#SHUTDOWNFILESYS	
4	HEX	8000000C	PC#PFSRECYCLE	
4	HEX	8000000D	PC#PFSRESTART	
4	HEX	C0000010	PC#HFSSTATS	
4	HEX	C0000011	PC#BRLMSRVR	
4	HEX	C000000E	PC#SYSNAMES	
4	HEX	C000000F	PC#TDNAMES	
4	HEX	80000012	PC#SFSDIAG	
4	HEX	C0000013	PC#USERSIGNAL	
4	HEX	C0000014	PC#DIRGETHOST	
2	HEX	0000	PC#ETDESC	
2	HEX	0001	PC#ETACTION	
2	HEX	0002	PC#ETMODNAME	
2	HEX	0002	PC#ETRQSTMAX	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0000	PC#ETREASON	
2	HEX	0001	PC#ETERRNO	
2	HEX	0001	PC#ETTYPEMAX	
Constants for BPXMRENV - QUERY_MODE Function				
4	DECIMAL	1	BIT24_MODE	
4	DECIMAL	2	BIT31_MODE	
4	DECIMAL	3	BIT64_MODE	
4	DECIMAL	4	AMODE_INITIALIZING	
Constants for BPXMRENV - PIDXFER_QUERY Function				
4	DECIMAL	1	PIDXFER_YES	
4	DECIMAL	2	PIDXFER_NO	
Constants for BPXMRENV - ENV_STOR_SERVICE Function				
4	DECIMAL	1	BPX_SWAP	
4	DECIMAL	2	BPX_NONSWAP	
Define equates for BPX1SLK syscall LockFcnCode parameter				
4	DECIMAL	1	SLK_OBTAIN	Obtain function request
4	DECIMAL	2	SLK_OBTAIN_COND	Obtain conditional function request
4	DECIMAL	4	SLK_INIT	Initialization function request
4	DECIMAL	8	SLK_DESTROY	Destroy function request
4	DECIMAL	16	SLK_RELEASE	Release function request
Define equates for BPX1SLK syscall LockReqType parameter				
4	DECIMAL	1	SLK_NORMAL	Normal request type
4	DECIMAL	2	SLK_ERRORCHECK	Errorcheck request type
4	DECIMAL	4	SLK_RECURSIVE	Recursive request type
Define equates for BPX1SLK syscall LockType parameter				
4	DECIMAL	1	SLK_EXCLUSIVE	Exclusive lock type
4	DECIMAL	2	SLK_SHARED	Shared lock type
Define values for BPX1LOD (HFS load) option flag				
4	HEX	80000000	LOD_ERROR_ ST_EXLINK	
4	HEX	40000000	LOD_IGNORE_STICKY	
Define values for BPX1DSD				

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1	SW_SIGDLV_ENABLE	#
4	DECIMAL	2	SW_SIGDLV_DISABLE	#
Define flags for BPX1OSE syscall function_code parameter				
4	DECIMAL	1	OSENV_GET	get function
4	DECIMAL	2	OSENV_SET	set function
4	DECIMAL	4	OSENV_UNSET	unset function
4	DECIMAL	8	OSENV_PERSIST	persist function
4	DECIMAL	16	OSENV_UNPERSIST	Unpersist function
Define flags for BPX1PQG syscall RequestType parameter				
4	DECIMAL	2	THDQ_FREEZE	Freezes the threads identified in the THDQ Data List array (BPXYTHDQ)
4	DECIMAL	8	THDQ_UNFREEZE_ALL	Unfreezes all threads that are frozen in the caller process
4	DECIMAL	1	THDQ_GET_STATE	Retrieves the state data for the threads listed in the THDQ data list array, or for all threads. This value can only be specified with THDQ_FREEZE
Define names for the Process Exits (input to CSVDYNEX)				
16	CHARACTER	BPX_PREPROC_INIT	BPX_PREPROC_INIT	
16	CHARACTER	BPX_POSPROC_INIT	BPX_POSPROC_INIT	
16	CHARACTER	BPX_IMAGE_INIT	BPX_IMAGE_INIT	
16	CHARACTER	BPX_PREPROC_TERM	BPX_PREPROC_TERM	
Ioctl command constants - Range 1-255 reserved for OpenMVS (See BPXZIOCC)				
4	DECIMAL	20	IOCC#UPDTOFTE	Update Ofte
4	DECIMAL	21	IOCC#REGFILEINTR	Register File Intr
4	DECIMAL	22	IOCC#FASTPATH	Set Fastpath ops
4	DECIMAL	23	IOCC#DEVCONSOLE	Modify /dev/console
LFS/Cinet Level Ioctls				
4	DECIMAL	24	IOCC#GETSTACKS	Get Stack Names
4	DECIMAL	25	IOCC#DIRIOCTL	Directed Ioctl
4	DECIMAL	26	IOCC#GRTRSELECT	Get PreRtr Select

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	27	IOCC#DEVFD	Modify /dev/fd
Ioctl command constants - Tcp/Ip interface				
4	DECIMAL	5000	IOCC#TCI	Tcpip Initialization call
4	DECIMAL	5001	IOCC#TCC	Tcpip Complete Initialization
4	DECIMAL	5002	IOCC#TCS	Tcpip Path Sever call
4	DECIMAL	5003	IOCC#TCR	Tcpip Reply/Post call
4	DECIMAL	5004	IOCC#TCG	Tcpip SiGnal call
4	DECIMAL	5006	IOCC#TCCE	Tcpip End Registration
4	DECIMAL	5007	SIOCMSDELRT	Delete Route (Pre-Router wrap)
4	DECIMAL	5008	SIOCMSADDRT	Add Route (Pre-Router wrap)
4	DECIMAL	5009	SIOCMSSIFADDR	Set Interface address (Pre-Router wrap)
4	DECIMAL	5010	SIOCMSSIFFLAGS	Set Interface Flags (Pre-Router wrap)
4	DECIMAL	5011	SIOCMSSIFDSTADDR	Set point-to-point interface address (Pre-Router wrap)
4	DECIMAL	5012	SIOCMSSIFBRDADDR	Set Broadcast address (Pre-Router wrap)
4	DECIMAL	5013	SIOCMSSIFNETMASK	Set interface network mask for an Internet address (Pre-Router wrap)
4	DECIMAL	5014	SIOCMSSIFMETRIC	Set Interface routing metric (Pre-Router wrap)

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	5015	SIOCMSRBRTTABLE	Set Routing table required rebuild request (Pre-Router wrap)
4	DECIMAL	5016	SIOMSMETRIC1RT	Set metric1 (Pre-Router wrap)
4	DECIMAL	5017	SIOCMSICMPREDIRECT	Propagating an ICMP redirect (Pre-Router wrap)
4	HEX	8008139A	SIOCSETTKN	5018 Set Tcp/ip master socket token.
Ioctl command constants - for pseudo-terminal				
4	HEX	4008A368	TIOCGWINSZ	get window size
4	HEX	8008A367	TIOCSWINSZ	set window size
4	HEX	8001A364	TIOCNOTIFY	notify master by packet
Constants for argument values - for pseudo-terminal				
1	DECIMAL	1	IOCC#PWBEGIN	Begin secure data
1	DECIMAL	2	IOCC#PWEND	End secure data
Constants for argument values - for /dev/console				
1	DECIMAL	1	IOCC#DEVCONSUPPRESS	Suppress
1	DECIMAL	0	IOCC#DEVCONUNSUPPRESS	Unsuppress
Ioctl command constants - for Router query				
4	HEX	C008C980	SIOCGRTTABLE	Gets Network Routing Table
4	HEX	C00CC980	SIOCGRTTABLE64	Get NRT for 64-Bit C Pgms
4	HEX	8008C981	SIOCSETRTTD	Sets Socket to be attached to 1 TD
Ioctl command constants - for sockets PFSes				
4	HEX	8004A77E	FIONBIO	set/reset nonblock I/O
4	HEX	4004A77F	FIONREAD	get number of readable bytes available
4	HEX	8004A77D	FIOASYNC	Set/clear async i/o
4	HEX	8004A77C	FIOSETOWN	Set owner
4	HEX	4004A77B	FIOGETOWN	Get owner
4	HEX	4010E401	SECIGET	get security information

Table 612. (continued)

Len	Type	value	Name	Description
4	HEX	8030A70A	SIOCADDRT	IBM use only, Add routing table entry
4	HEX	4004A707	SIOCATMARK	Is current location pointing to out-of-band data?
4	HEX	8004A708	SIOCSPGRP	Set process group
4	HEX	4004A709	SIOCGPGRP	Get process group
4	HEX	8030A70B	SIOCDELRT	IBM use only, Delete routing table entry
4	HEX	8030A70C	SIOMETRIC1RT	IBM use only, Set metric1
4	HEX	8020A70C	SIOCSIFADDR	Sets Network interface address
4	HEX	C020A70D	SIOCGIFADDR	Gets Network interface address
4	HEX	C020A712	SIOCGIFBRDADDR	Gets Network interface broadcast address
4	HEX	8020A713	SIOCSIFBRDADDR	Sets Network interface broadcast address
4	HEX	C008A714	SIOCGIFCONF	Gets Network interface Configuration
4	HEX	C00CA714	SIOCGIFCONF64	Get IfConf for 64-Bit C Pgms
4	HEX	C020A70F	SIOCGIFDSTADDR	Gets Network interface destination address
4	HEX	C020A711	SIOCGIFFLAGS	Gets Network interface Flags
4	HEX	C020A717	SIOCGIFMETRIC	IBM use only, Gets network interface routing metric
4	HEX	C020A715	SIOCGIFNETMASK	Gets Network interface network mask
4	HEX	8020A716	SIOCSIFNETMASK	Sets Network interface network mask

Table 612. (continued)

Len	Type	value	Name	Description
4	HEX	8020A70E	SIOCSIFDSTADDR	IBM Use only, Sets Network Interface destination address
4	HEX	8020A710	SIOCSIFFLAGS	IBM Use only, Sets Network Interface Flags
4	HEX	8020A718	SIOCSIFMETRIC	IBM use only, Sets network interface routing metric
4	HEX	8024A71E	SIOCSARP	IBM use only, Sets ARP Entry
4	HEX	C024A71F	SIOCGARP	IBM use only, Gets ARP Entry
4	HEX	8024A720	SIOCDARP	IBM use only, Deletes ARP Entry
4	HEX	8004A700	SIOCSHIWAT	Set High Water Mark (Not Supported)
4	HEX	4004A701	SIOCGHIWAT	Get High Water Mark (Not Supported)
4	HEX	8004A702	SIOCSLOWAT	Set Low Water Mark
4	HEX	4004A703	SIOCGLOWAT	Get Low Water Mark
4	HEX	0000E402	FIOFCTLNBIO	set/reset nonblock I/O due to call from fctl
4	HEX	2000C100	IOCC#EDITACL	Edit ACL: _IO('A',0)
Ioctl command constants - for STREAMS				
4	HEX	4004E21A	IOCC#ILINK	
SAF/RACF File Access Control List - 'L' (D3xx) The SetFacl Arg is input to the R_SetFacl SAF/RACF Service.				
4	DECIMAL	54017	SETFACL	Set File ACL
4	NUMB HEX	0000D301	IOCC#SETFACL	Set File ACL
4	DECIMAL	54018	GETFACL	Get File ACL
4	NUMB HEX	0000D302	IOCC#GETFACL	Get File ACL
Get Port of Entry for Multi-Level Security (MLS)				
4	HEX	4000D305	SIOCGSOCKPOEATTRS	
4	HEX	4000D306	SIOCGFDPOEATTRS	
Constants for argument values				

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	0	IOCC#BLOCK	Allow blocking to occur
4	DECIMAL	1	IOCC#NONBLOCK	No blocking should occur
Packet mode or Extended Packet mode data record control data. Returned on master read when no control information is pending. In packet mode one byte is returned. In extended packet mode, four bytes are returned. Data follows the control data.				
1	HEX	00	TIOC_DATA	Data packet
4	DECIMAL	1	IOCUO#READ	IocUoCmd Values
4	DECIMAL	2	IOCUO#WRITE	
4	DECIMAL	3	IOCUO#CS	
---------- I P v 6 ----------				
4	HEX	4000F601	SIOCGIFVERSION	Get Interface Ver Out
4	HEX	C000F602	SIOCGSRCIPADDR	Get Source Addr InOut
4	HEX	4000F603	SIOCGIFNAMEINDEX	Get If Name/Index Out
4	HEX	8044F604	SIOCMSADDRT6	Add IPV6 Route
4	HEX	8044F605	SIOCMSDELRT6	Delete IPV6 Route
4	HEX	C014F606	SIOCGRT6TABLE	Get IPV6 Rte Table
4	HEX	C018F606	SIOCGRT6TABLE64	Get IPV6 Rte 64
4	HEX	8000F607	SIOCMSRBRT6TABLE	Rebuild Rte & Home
4	HEX	C014F608	SIOCGHOMEIF6	Get IPV6 HomeIf
4	HEX	C018F608	SIOCGHOMEIF664	Get IPV6 HomeIf 64
4	HEX	8000F609	SIOCMSRBHOMEIF6	Rebuild IPV6 HomeIf
4	HEX	8044F60A	SIOCMSCHGRT6METRIC	Change the metric of an IPV6 route
1	CHAR HEX	00	IOCRTRERROR	IocRtrErrTest value to test for error

Table 612. (continued)

Len	Type	value	Name	Description
Part Name: EZBYAPPL Descriptive Name: IOCTL SIOCSAPPLDATA constant and structures = Component Name: IOCTL Enablement 5694-A01 Function: This file defines the ioctl constant and data for the SIOCSAPPLDATA ioctl socket function. The SIOCSAPPLDATA ioctl enables an application to associate application-specific information with the TCP socket on which the ioctl socket function is invoked. The SIOCSAPPLDATA ioctl requires a SetAppplData structure as input. The SetApplData fields SetAD_ptr64 or SetAD_ptr contain the address of a SetADcontainer structure. The SetADcontainer structure maps the information to be associated with the TCP socket. Part Type: MACRO - assembler, PL/X Usage: SIOCSAPPLDATA associates a forty byte buffer of application specific data with a TCP socket. This buffer may be displayed by Netstat and may be used with a Netstat filter to locate specific sockets. It is recorded in SMF 119 TCP Connection Termination records. It is also available as a returned field and search filter through the TCP/IP Network Management Interface (NMI). The application should uniquely identify itself using printable EBCDIC characters at the beginning of the data. Printable EBCDIC characters are preferred but not required for the entire buffer. Using applications are responsible for documenting the content, format and meaning of the string(s) they provide. CFD List: Flag Reason Release Date Origin Description ---- -------- -------- ------ -------- ---------------------- End CFD List:				
4	HEX	8018D90C	SIOCSAPPLDATA	
8	CHARACTER	SETAPPLD	SETADEYE1	
4	DECIMAL	1	SETADVER	
8	CHARACTER	APPLDATA	SETADEYE2	
2	DECIMAL	48	SETADCONTLEN	
2	DECIMAL	40	SETADBUFLEN	SetAD_buffer length
1	DECIMAL	0	SO_OK	
1	DECIMAL	1	SO_EXCEPTION	
1	DECIMAL	2	SO_PURGED	
1	DECIMAL	3	SO_DISASTER	
1	DECIMAL	4	SO_INVALID	
1	DECIMAL	0	SO_NO_REASON	
1	DECIMAL	1	SO_NO_SOCKETS	
1	DECIMAL	2	SO_TASK_CANCELLED	
1	DECIMAL	3	SO_TIMEOUT	

Table 612. (continued)

Len	Type	value	Name	Description
1	DECIMAL	4	SO_IO_ERROR	
1	DECIMAL	5	SO_TOO_LATE	
1	DECIMAL	6	SO_IN_USE	
1	DECIMAL	7	SO_CONNECTION_CLOSED	
1	DECIMAL	8	SO_INVALID_STATE	
1	DECIMAL	9	SO_NO_CONNECTION	
1	DECIMAL	10	SO_NOT_CANCELED	
1	DECIMAL	11	SO_CONNECTION_ REFUSED	
1	DECIMAL	12	SO_TCP_NOT_ACTIVE	
1	DECIMAL	13	SO_ADDRESS_IN_USE	
1	DECIMAL	14	SO_ADDRESS_ NOT_AVAILABLE	
1	DECIMAL	15	SO_NOT_AUTHORIZED	
1	DECIMAL	16	SO_SCHEDULED	
1	DECIMAL	18	SO_NEVER_ASSOCIATED	
1	DECIMAL	19	SO_ALREADY_ ASSOCIATED	
1	DECIMAL	20	SO_INVALID_OPTION	
1	DECIMAL	21	SO_MISSING_OPTION	
1	DECIMAL	22	SO_RECEIVE_CANCELLED	
1	DECIMAL	23	SO_MAX_PORTS_REACHED	
1	DECIMAL	24	SO_NO_BUFFER	
1	DECIMAL	25	SO_TOO_MANY_BUFFERS	
1	DECIMAL	26	SO_MISSING_PREREQ	
1	DECIMAL	0	SO_TASK	
1	DECIMAL	1	SO_SHARED	
1	DECIMAL	2	SO_PERSISTENT	
!:erefstep.so_user_defined_types ---------- !:refstep.so_bit_constants ---------- DFHSOAN 309 - ! ! Next we declare the common bit variable constants. ! !----------				
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 612. (continued)

Len	Type	value	Name	Description
0	BIT	1	SOA_CONFDATA_HIDETC	
0	BIT	0	SOA_CONFDATA_SHOW	
4	NUMB HEX	00000000	ECB_CLEAR	clear ecb
3	NUMB HEX	000000	POST_SELECTEX	ecb completion
3	NUMB HEX	000001	POST_REGISTER	ecb completion
3	NUMB HEX	000002	POST_DEREGISTER	ecb completion
3	NUMB HEX	000003	POST_QUIESCE	ecb completion
3	NUMB HEX	000004	POST_TERMINATE	ecb completion
3	NUMB HEX	000006	POST_IMMCLOSE	ecb completion
3	NUMB HEX	000010	POST_TIMER	ecb completion@PJA
3	NUMB HEX	000020	POST_WLM_DEREGISTER	ECB for deregister@D4A
3	NUMB HEX	000005	POST_CODE_OK	
3	NUMB HEX	000006	POST_CODE_TCPIP_SERVICE_ERROR	
3	NUMB HEX	000007	POST_CODE_BIND_NOTAUTH	
3	NUMB HEX	000008	POST_CODE_BIND_ADDRESS_UNAVAILABLE	
3	NUMB HEX	000009	POST_CODE_BIND_ADDRESS_IN_USE	
3	NUMB HEX	000010	POST_CODE_TCPIP_INACTIVE	
!:erefstep.so_ecb_declarations ---------- !:refstep.so_constants ---------- DFHSOAN 939 - ! ! Other constant definitions for the Sockets domain. ! !----------				
1	CHARACTER	>	ARROW	
3	CHARACTER	DFH	DFH	
8	CHARACTER	ANCHOR	ANCHOR	
8	CHARACTER	STE	STE_NAME	
8	CHARACTER	LTE	LTE_NAME	
8	CHARACTER	LTEHEAD	LTE_HEAD_NAME	
8	CHARACTER	SOLOCK	SO_LOCK_NAME	Domain (LTE) lock
8	CHARACTER	SOSESSIO	STE_LOCK_NAME	STE lock
8	CHARACTER	SOTCPIPS	SO_TCPIPSERVICE_LOCK_NAME	

Table 612. (continued)

Len	Type	value	Name	Description
8	CHARACTER	SOSSLTCB	SO_TCBPOOL_ LOCK_NAME	
8	CHARACTER	SOLIFETM	SO_SOLT_LOCK_NAME	
8	CHARACTER	SOISPIPI	SO_SOIS_ENCLAVE_ LOCK_NAME	
8	CHARACTER	STATSBUF	SO_STATSBUFFER	
4	DECIMAL	4096	SO_STATS_BUFFER_SIZE	
!:erefstep.so_constants ---------- !:refstep.so_component_id ---------- DFHSOAN 883 - ! ! Component id (for use on ME domain calls) ! !----------				
2	CHARACTER	SO	COMPID	
!:erefstep.so_component_id ---------- !:refstep.so_msg_numbers ---------- DFHSOAN 891 - ! ! Message numbers and system dumpcode values ! !----------				
4	DECIMAL	100	MNO_INITIALISATION_ STARTED	
4	DECIMAL	101	MNO_INITIALISATION_ ENDED	
4	DECIMAL	102	MNO_SOLS_EIO_ERROR	
4	DECIMAL	105	MNO_CLIENT_ DISCONNECTED	
4	DECIMAL	106	MNO_BPX_ERROR	
4	DECIMAL	107	MNO_TCPIPSRV_OPENED	
4	DECIMAL	108	MNO_TCPIPSRV_CLOSED	
4	DECIMAL	109	MNO_ADDR_IN_USE	
4	DECIMAL	110	MNO_ADDR_UNAVAILABLE	
4	DECIMAL	111	MNO_BIND_ NOT_PERMITTED	
4	DECIMAL	112	MNO_TCPIP_CLOSED	
4	DECIMAL	113	MNO_NAMESERVER_ERROR	
4	DECIMAL	114	MNO_ATTACH_FAILURE	
4	DECIMAL	115	MNO_WLM_REGISTERED	
4	DECIMAL	116	MNO_WLM_DEREGISTERED	
4	DECIMAL	117	MNO_GETHOSTNAME_ FAILURE	
4	DECIMAL	119	MNO_WLM_REGISTRATION_ NOT_POSSIBLE	
4	DECIMAL	124	MNO_MAXSOCKETS_ NOT_SET_FROM_SIT	

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	125	MNO_MAXSOCKETS_ NOT_SET_FROM_CATALOG	
4	DECIMAL	126	MNO_AT_MAXSOCKETS	
4	DECIMAL	131	MNO_MAX_PORTS_ REACHED	
1	DECIMAL	1	MNO_ABEND	
8	CHARACTER	SO0001	DCD_ABEND	
1	DECIMAL	2	MNO_SEVERE_ERROR	
8	CHARACTER	SO0002	DCD_SEVERE_ERROR	
1	DECIMAL	3	MNO_NO_STORAGE	
8	CHARACTER	SO0003	DCD_NO_STORAGE	
1	DECIMAL	4	MNO_LOOP	
8	CHARACTER	SO0004	DCD_LOOP	
!:erefstep.so_msg_numbers ---------- !:refstep.so_abend_codes ---------- DFHSOAN 1015 - ! ! Error codes (for DFHKERN RECOVERY_REQUEST) ! !----------				
4	CHARACTER	ASOA	LISTENER_ INVALID_START	
4	CHARACTER	ASOB	LOCK_ERROR_CODE	
4	CHARACTER	ASOC	UNLOCK_ERROR_CODE	
4	CHARACTER	ASOD	SOXM_XM_BIND_ FAILURE_ABCODE	
4	CHARACTER	ASOL	LISTENER_ABEND	
!:erefstep.so_abend_codes ---------- !:refstep.so_subpool_names ---------- DFHSOAN 929 - ! ! Subpool names ! !----------				
8	CHARACTER	SOGENRAL	SPNAME_GENERAL	
8	CHARACTER	SOLTE	SPNAME_LTE	
8	CHARACTER	SOSTE	SPNAME_STE	
!:erefstep.so_subpool_names ---------- !:refstep.so_tracepoints ---------- DFHSOAN 1038 - ! ! Trace points id's ! !----------				
2	HEX	0101	TID_SODM_ENTRY	
2	HEX	0102	TID_SODM_EXIT	
2	HEX	0103	TID_SODM_RECOVERY	
2	HEX	0104	TID_SODM_ INVALID_FORMAT	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0105	TID_SODM_ INVALID_FUNCTION	
2	HEX	0106	TID_SODM_ LOCK_ERROR	
2	HEX	0107	TID_SODM_ UNLOCK_ERROR	
2	HEX	0108	TID_SODM_ NO_STORAGE_FOR_ SOA	
2	HEX	0109	TID_SODM_ GET_SHR_LOCK_ERROR	
2	HEX	0110	TID_SODM_ RELEASE_SHR_LOCK_ ERROR	
2	HEX	0111	TID_SODM_ RECOVERY_RELEASE_ LOCK_ERROR	
2	HEX	0112	TID_SODM_ DISPATCHER_ERROR	
2	HEX	0113	TID_SODM_ DIR_MANAGER_ERROR	
2	HEX	0201	TID_SOCK_ENTRY	
2	HEX	0202	TID_SOCK_EXIT	
2	HEX	0203	TID_SOCK_RECOVERY	
2	HEX	0204	TID_SOCK_ INVALID_FORMAT	
2	HEX	0205	TID_SOCK_ INVALID_FUNCTION	
2	HEX	0206	TID_SOCK_ LOCK_ERROR	
2	HEX	0207	TID_SOCK_ UNLOCK_ERROR	
2	HEX	0208	TID_SOCK_ NO_STORAGE	
2	HEX	0209	TID_SOCK_ ASYNCIO_ENTRY	
2	HEX	0210	TID_SOCK_ ASYNCIO_EXIT	
2	HEX	0211	TID_SOCK_ ASYNCIO_FAILURE	
2	HEX	0237	TID_SOCK_ CLOSE_ENTRY	
2	HEX	0238	TID_SOCK_ CLOSE_EXIT	
2	HEX	0239	TID_SOCK_ CLOSE_FAILURE	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	023A	TID_SOCK_ IOCTL_ENTRY	
2	HEX	023B	TID_SOCK_ IOCTL_EXIT	
2	HEX	023C	TID_SOCK_ IOCTL_FAILURE	
2	HEX	0240	TID_SOCK_ SETSOCKOPT_ENTRY	
2	HEX	0241	TID_SOCK_ SETSOCKOPT_EXIT	
2	HEX	0242	TID_SOCK_ SETSOCKOPT_FAILURE	
2	HEX	0243	TID_SOCK_ SOCKET_IN_USE	
2	HEX	0244	TID_SOCK_ SERVICE_ATTACH_ FAILURE	
2	HEX	0262	TID_SOCK_ EIO_RECEIVED	
2	HEX	0270	TID_SOCK_ GET_SHR_LOCK_ERROR	
2	HEX	0271	TID_SOCK_ RELEASE_SHR_LOCK_ ERROR	
2	HEX	0272	TID_SOCK_ RECOVERY_RELEASE_ LOCK_ERROR	
2	HEX	0273	TID_SOCK_ UNKNOWN_KE_ERROR_ CODE	
2	HEX	0274	TID_SOCK_ ASYNCIO_REQ_FUNC_ FAILURE	
2	HEX	0275	TID_SOCK_ STE_GETMAIN_FAILURE	
2	HEX	0276	TID_SOCK_ PROTOCOL_ERROR	
2	HEX	0297	TID_SOCK_ CONNECTION_INCR	
2	HEX	0298	TID_SOCK_ CONNECTION_DECR	
2	HEX	0299	TID_SOCK_ ASYNCIO_WAKEUP	
2	HEX	029A	TID_SOCK_ SIGPROCMASK_ENTRY	
2	HEX	029B	TID_SOCK_ SIGPROCMASK_EXIT	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	029C	TID_SOCK_ SIGPROCMASK_FAILURE	
2	HEX	029D	TID_SOCK_ BUFFER_CONT	
2	HEX	029E	TID_SOCK_ INVALID_PARAMETER_ LIST	
2	HEX	029F	TID_SOCK_ INTERNAL_LOGIC_ ERROR	
2	HEX	0301	TID_SORD_ENTRY	
2	HEX	0302	TID_SORD_EXIT	
2	HEX	0303	TID_SORD_RECOVERY	
2	HEX	0304	TID_SORD_ INVALID_FORMAT	
2	HEX	0305	TID_SORD_ INVALID_FUNCTION	
2	HEX	0306	TID_SORD_ LOCK_ERROR	
2	HEX	0307	TID_SORD_ UNLOCK_ERROR	
2	HEX	0308	TID_SORD_ NO_STORAGE	
2	HEX	0401	TID_SOIS_ENTRY	
2	HEX	0402	TID_SOIS_EXIT	
2	HEX	0403	TID_SOIS_RECOVERY	
2	HEX	0404	TID_SOIS_ INVALID_FORMAT	
2	HEX	0405	TID_SOIS_ INVALID_FUNCTION	
2	HEX	0406	TID_SOIS_ GET_EXC_LOCK_ERROR	
2	HEX	0407	TID_SOIS_ RELEASE_EXC_LOCK_ ERROR	
2	HEX	0408	TID_SOIS_ GET_SHR_LOCK_ERROR	
2	HEX	0409	TID_SOIS_ RELEASE_SHR_LOCK_ ERROR	
2	HEX	0410	TID_SOIS_ RECOVERY_RELEASE_ LOCK_ERROR	
2	HEX	0411	TID_SOIS_ NO_STORAGE	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0412	TID_SOIS_ UNKNOWN_KE_ERROR_ CODE	
2	HEX	0413	TID_SOIS_ CEEPIPI_ERROR	
2	HEX	0414	TID_SOIS_ GETHOSTBYADDR_ ERROR	
2	HEX	0415	TID_SOIS_ GETHOSTID_ERROR	
2	HEX	0416	TID_SOIS_ CEEPIPI_ENTRY	
2	HEX	0417	TID_SOIS_ CEEPIPI_EXIT	
2	HEX	0418	TID_SOIS_ DISPATCHER_ERROR	
2	HEX	0419	TID_SOIS_DUB_ERROR	
2	HEX	0420	TID_SOIS_ SIGPROCMASK_ENTRY	
2	HEX	0421	TID_SOIS_ SIGPROCMASK_EXIT	
2	HEX	0422	TID_SOIS_ SIGPROCMASK_FAILURE	
2	HEX	0423	TID_SOIS_ VERIFY_UNKNOWN_ HOST_ADDRESS	
2	HEX	0424	TID_SOIS_ VERIFY_UNKNOWN_ HOST_NAME	
2	HEX	0425	TID_SOIS_ USS_PROCESS_NO	
2	HEX	0426	TID_SOIS_ INQUIRE_KERNEL_ ERROR	
2	HEX	0501	TID_SOUE_ENTRY	
2	HEX	0502	TID_SOUE_EXIT	
2	HEX	0503	TID_SOUE_RECOVERY	
2	HEX	0504	TID_SOUE_ INVALID_FUNCTION	
2	HEX	0505	TID_SOUE_ INVALID_FORMAT	
2	HEX	0506	TID_SOUE_ GET_LOCK_ERROR	
2	HEX	0507	TID_SOUE_ UNLOCK_ERROR_RECOVERY	
2	HEX	0508	TID_SOUE_ RELEASE_LOCK_ERROR	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0509	TID_SOUE_ RECOVERY_RELEASE_ LOCK_ERROR	
2	HEX	050A	TID_SOUE_ UNKNOWN_KE_ERROR_ CODE	
2	HEX	0601	TID_SOAD_ENTRY	
2	HEX	0602	TID_SOAD_EXIT	
2	HEX	0603	TID_SOAD_RECOVERY	
2	HEX	0604	TID_SOAD_ INVALID_FORMAT	
2	HEX	0605	TID_SOAD_ INVALID_FUNCTION	
2	HEX	0606	TID_SOAD_ UNLOCK_ERROR_RECOVERY	
2	HEX	0607	TID_SOAD_ NO_STORAGE	
2	HEX	0701	TID_SOTB_ENTRY	
2	HEX	0702	TID_SOTB_EXIT	
2	HEX	0703	TID_SOTB_RECOVERY	
2	HEX	0704	TID_SOTB_ INVALID_FORMAT	
2	HEX	0705	TID_SOTB_ INVALID_FUNCTION	
2	HEX	0706	TID_SOTB_ UNLOCK_ERROR_RECOVERY	
2	HEX	0707	TID_SOTB_ NO_STORAGE	
2	HEX	0801	TID_SOSE_ENTRY	
2	HEX	0802	TID_SOSE_EXIT	
2	HEX	0803	TID_SOSE_RECOVERY	
2	HEX	0804	TID_SOSE_ INVALID_FORMAT	
2	HEX	0805	TID_SOSE_ INVALID_FUNCTION	
2	HEX	0806	TID_SOSE_ LOCK_ERROR	
2	HEX	0807	TID_SOSE_ UNLOCK_ERROR	
2	HEX	0808	TID_SOSE_ NO_STORAGE	
2	HEX	0809	TID_SOSE_ CEEPIPI_ENTRY	
2	HEX	080A	TID_SOSE_ CEEPIPI_EXIT	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	080B	TID_SOSE_ CEEPIPI_ERROR	
2	HEX	080C	TID_SOSE_GSK_ERROR	
2	HEX	080D	TID_SOSE_ GETMAIN_ERROR	
2	HEX	080E	TID_SOSE_ REPOSITORY_ERROR	
2	HEX	080F	TID_SOSE_ DIRECTORY_ERROR	
2	HEX	0810	TID_SOSE_ SIGPROCMASK_ENTRY	
2	HEX	0811	TID_SOSE_ SIGPROCMASK_EXIT	
2	HEX	0812	TID_SOSE_ SIGPROCMASK_FAILURE	
2	HEX	0813	TID_SOSE_ INVALID_CERTIFICATE_ LABEL	
2	HEX	0814	TID_SOSE_ CHANGE_MODE_ERROR	
2	HEX	0815	TID_SOSE_ OBTAIN_TCB	
2	HEX	0816	TID_SOSE_ RELEASE_TCB	
2	HEX	0817	TID_SOSE_ FREE_SOSESCH	
2	HEX	0881	TID_SORL_ENTRY	
2	HEX	0882	TID_SORL_EXIT	
2	HEX	0883	TID_SORL_RECOVERY	
2	HEX	0884	TID_SORL_ INVALID_FORMAT	
2	HEX	0885	TID_SORL_ INVALID_FUNCTION	
2	HEX	0901	TID_SOXM_ENTRY	
2	HEX	0902	TID_SOXM_EXIT	
2	HEX	0903	TID_SOXM_ INVALID_FUNCTION	
2	HEX	0904	TID_SOXM_ INVALID_FORMAT	
2	HEX	0905	TID_SOXM_RECOVERY	
2	HEX	0906	TID_SOXM_ ESTABLISH_FAILED	
2	HEX	0907	TID_SOXM_ INQUIRE_FAILED	
2	HEX	0A01	TID_SOST_ENTRY	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0A02	TID_SOST_EXIT	
2	HEX	0A03	TID_SOST_RECOVERY	
2	HEX	0A04	TID_SOST_ INVALID_FORMAT	
2	HEX	0A05	TID_SOST_ INVALID_FUNCTION	
2	HEX	0A06	TID_SOST_ GET_EXC_LOCK_ERROR	
2	HEX	0A07	TID_SOST_ RELEASE_EXC_LOCK_ ERROR	
2	HEX	0A08	TID_SOST_ GET_SHR_LOCK_ERROR	
2	HEX	0A09	TID_SOST_ RELEASE_SHR_LOCK_ ERROR	
2	HEX	0A10	TID_SOST_ RECOVERY_RELEASE_ LOCK_ERROR	
2	HEX	0A11	TID_SOST_ NO_STORAGE	
2	HEX	0A12	TID_SOST_ UNKNOWN_KE_ERROR_ CODE	
2	HEX	0A13	TID_SOST_ INVALID_PARMS	
2	HEX	0B01	TID_SOTI_ENTRY	
2	HEX	0B02	TID_SOTI_EXIT	
2	HEX	0B03	TID_SOTI_ RECOVERY_ENTRY	
2	HEX	0B04	TID_SOTI_ RECOVERY_EXIT	
2	HEX	0B05	TID_SOTI_ INVALID_FORMAT	
2	HEX	0B06	TID_SOTI_ INVALID_FUNCTION	
2	HEX	0B07	TID_SOTI_ WAKE_LISTENER_ ENTRY	
2	HEX	0B08	TID_SOTI_ WAKE_LISTENER_ EXIT	
2	HEX	0B09	TID_SOTI_ TIMEOUT_RECEIVE_ ENTRY	
2	HEX	0B0A	TID_SOTI_ TIMEOUT_RECEIVE_ EXIT	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0B0B	TID_SOTI_ RECEIVE_CANCEL_ EXC	
2	HEX	0C01	TID_SOLS_ENTRY	
2	HEX	0C02	TID_SOLS_EXIT	
2	HEX	0C03	TID_SOLS_RECOVERY	
2	HEX	0C04	TID_SOLS_ INVALID_FORMAT	
2	HEX	0C05	TID_SOLS_ INVALID_FUNCTION	
2	HEX	0C06	TID_SOLS_ LOCK_ERROR	
2	HEX	0C07	TID_SOLS_ UNLOCK_ERROR	
2	HEX	0C09	TID_SOLS_ ASYNCIO_ENTRY	
2	HEX	0C10	TID_SOLS_ ASYNCIO_EXIT	
2	HEX	0C11	TID_SOLS_ ASYNCIO_FAILURE	
2	HEX	0C12	TID_SOLS_ SELECT_ENTRY	
2	HEX	0C13	TID_SOLS_ SELECT_EXIT	
2	HEX	0C14	TID_SOLS_ SELECT_FAILURE	
2	HEX	0C15	TID_SOLS_ SOCKET_ENTRY	
2	HEX	0C16	TID_SOLS_ SOCKET_EXIT	
2	HEX	0C17	TID_SOLS_ SOCKET_FAILURE	
2	HEX	0C18	TID_SOLS_ BIND_ENTRY	
2	HEX	0C19	TID_SOLS_BIND_EXIT	
2	HEX	0C20	TID_SOLS_ BIND_FAILURE	
2	HEX	0C21	TID_SOLS_ LISTEN_ENTRY	
2	HEX	0C22	TID_SOLS_ LISTEN_EXIT	
2	HEX	0C23	TID_SOLS_ LISTEN_FAILURE	
2	HEX	0C24	TID_SOLS_ ACCEPT_ENTRY	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0C25	TID_SOLS_ ACCEPT_EXIT	
2	HEX	0C26	TID_SOLS_ ACCEPT_FAILURE	
2	HEX	0C27	TID_SOLS_ GETCLIENTID_ENTRY	
2	HEX	0C28	TID_SOLS_ GETCLIENTID_EXIT	
2	HEX	0C29	TID_SOLS_ GETCLIENTID_FAILURE	
2	HEX	0C31	TID_SOLS_ TAKESOCKET_ENTRY	
2	HEX	0C32	TID_SOLS_ TAKESOCKET_EXIT	
2	HEX	0C33	TID_SOLS_ TAKESOCKET_FAILURE	
2	HEX	0C34	TID_SOLS_ GIVESOCKET_ENTRY	
2	HEX	0C35	TID_SOLS_ GIVESOCKET_EXIT	
2	HEX	0C36	TID_SOLS_ GIVESOCKET_FAILURE	
2	HEX	0C37	TID_SOLS_ CLOSE_ENTRY	
2	HEX	0C38	TID_SOLS_ CLOSE_EXIT	
2	HEX	0C39	TID_SOLS_ CLOSE_FAILURE	
2	HEX	0C40	TID_SOLS_ SETSOCKOPT_ENTRY	
2	HEX	0C41	TID_SOLS_ SETSOCKOPT_EXIT	
2	HEX	0C42	TID_SOLS_ SETSOCKOPT_FAILURE	
2	HEX	0C43	TID_SOLS_ SOCKET_IN_USE	
2	HEX	0C44	TID_SOLS_ SERVICE_ATTACH_ FAILURE	
2	HEX	0C45	TID_SOLS_ ASYNCIO_POSTED_ FOR_TERMINATION	
2	HEX	0C46	TID_SOLS_ UNKNOWN_SESSION_ TOKEN	
2	HEX	0C47	TID_SOLS_IO_ERROR	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0C48	TID_SOLS_ WAIT_FAILURE	
2	HEX	0C49	TID_SOLS_ IMMCLOSE_REQUESTED	
2	HEX	0C50	TID_SOLS_ REGISTER_REQUESTED	
2	HEX	0C51	TID_SOLS_ DEREGISTER_REQUESTED	
2	HEX	0C52	TID_SOLS_ QUIESCE_REQUESTED	
2	HEX	0C53	TID_SOLS_ TERMINATE_REQUESTED	
2	HEX	0C54	TID_SOLS_ UNKNOWN_POST_CODE	
2	HEX	0C55	TID_SOLS_ GETHOSTNAME_ENTRY	
2	HEX	0C56	TID_SOLS_ GETHOSTNAME_EXIT	
2	HEX	0C57	TID_SOLS_ GETHOSTNAME_FAILURE	
2	HEX	0C58	TID_SOLS_ TCPIP_INACTIVE	
2	HEX	0C59	TID_SOLS_ SETTCPAFF_ENTRY	
2	HEX	0C5A	TID_SOLS_ SETTCPAFF_EXIT	
2	HEX	0C5B	TID_SOLS_ SETTCPAFF_FAILURE	
2	HEX	0C60	TID_SOLS_ LISTEN_SUBR_ENTRY	
2	HEX	0C61	TID_SOLS_ LISTEN_SUBR_EXIT	
2	HEX	0C62	TID_SOLS_ EIO_RECEIVED	
2	HEX	0C63	TID_SOLS_ EUNATCH_RECEIVED	
2	HEX	0C70	TID_SOLS_ GET_SHR_LOCK_ERROR	
2	HEX	0C71	TID_SOLS_ RELEASE_SHR_LOCK_ ERROR	
2	HEX	0C72	TID_SOLS_ RECOVERY_RELEASE_ LOCK_ERROR	
2	HEX	0C73	TID_SOLS_ UNKNOWN_KE_ERROR_ CODE	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0C74	TID_SOLS_ ASYNCIO_REQ_FUNC_ FAILURE	
2	HEX	0C75	TID_SOLS_ STE_GETMAIN_FAILURE	
2	HEX	0C76	TID_SOLS_ PROTOCOL_ERROR	
2	HEX	0C80	TID_SOLS_ IWMSRSRG_ENTRY	
2	HEX	0C81	TID_SOLS_ IWMSRSRG_EXIT	
2	HEX	0C82	TID_SOLS_ IWMSRSRG_ERROR	
2	HEX	0C83	TID_SOLS_ IWMSRDRS_ENTRY	
2	HEX	0C84	TID_SOLS_ IWMSRDRS_EXIT	
2	HEX	0C85	TID_SOLS_ IWMSRDRS_ERROR	
2	HEX	0C86	TID_SOLS_ WLM_DEREGISTER_ REQUESTED	
2	HEX	0C90	TID_SOLS_ INITIALISE_TIMER_ ENTRY	
2	HEX	0C91	TID_SOLS_ INITIALISE_TIMER_ EXIT	
2	HEX	0C92	TID_SOLS_TIMER_POP	
2	HEX	0C93	TID_SOLS_ MN_DATA_PUT_ENTRY	
2	HEX	0C94	TID_SOLS_ MN_DATA_PUT_EXIT	
2	HEX	0C95	TID_SOLS_ CANCEL_TIMER_ENTRY	
2	HEX	0C96	TID_SOLS_ CANCEL_TIMER_EXIT	
2	HEX	0C97	TID_SOLS_ CONNECTION_INCR	
2	HEX	0C98	TID_SOLS_ CONNECTION_DECR	
2	HEX	0C99	TID_SOLS_ ASYNCIO_WAKEUP	
2	HEX	0C9A	TID_SOLS_ SIGPROCMASK_ENTRY	
2	HEX	0C9B	TID_SOLS_ SIGPROCMASK_EXIT	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0C9C	TID_SOLS_ SIGPROCMASK_FAILURE	
2	HEX	0C9D	TID_SOLS_ APPLDATA_ENTRY	
2	HEX	0C9E	TID_SOLS_ APPLDATA_EXIT	
2	HEX	0C9F	TID_SOLS_ APPLDATA_FAILURE	
2	HEX	0CA0	TID_SOLS_ NOWORK_WAKEUP	
----------! DFHSOSO _ Socket Class '0D00'x to '0D2A'x ! ----------!				
2	HEX	0D00	TID_SOSO_RECOVERY	
2	HEX	0D01	TID_SOSO_ INQUIRE_CONNECTION_ ENTRY	
2	HEX	0D02	TID_SOSO_ INQUIRE_CONNECTION_ EXIT	
2	HEX	0D03	TID_SOSO_ WAIT_ACTIVATION_ ENTRY	
2	HEX	0D04	TID_SOSO_ WAIT_ACTIVATION_ EXIT	
2	HEX	0D05	TID_SOSO_ WAIT_ACTIVATION_ TIMEOUT_ENTRY	
2	HEX	0D06	TID_SOSO_ WAIT_ACTIVATION_ TIMEOUT_EXIT	
2	HEX	0D07	TID_SOSO_ ACTIVATE_ENTRY	
2	HEX	0D08	TID_SOSO_ ACTIVATE_EXIT	
2	HEX	0D09	TID_SOSO_ SEND_ENTRY	
2	HEX	0D0A	TID_SOSO_SEND_EXIT	
2	HEX	0D0B	TID_SOSO_ RECV_ENTRY	
2	HEX	0D0C	TID_SOSO_RECV_EXIT	
2	HEX	0D0D	TID_SOSO_ CREATE_TCP_ENTRY	
2	HEX	0D0E	TID_SOSO_ CREATE_TCP_EXIT	
2	HEX	0D0F	TID_SOSO_ CLOSE_ENTRY	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0D10	TID_SOSO_ CLOSE_EXIT	
2	HEX	0D11	TID_SOSO_ ESTABLISH_ENTRY	
2	HEX	0D12	TID_SOSO_ ESTABLISH_EXIT	
2	HEX	0D13	TID_SOSO_ RESERVE_ENTRY	
2	HEX	0D14	TID_SOSO_ RESERVE_EXIT	
2	HEX	0D15	TID_SOSO_ RELINQUISH_ENTRY	
2	HEX	0D16	TID_SOSO_ RELINQUISH_EXIT	
2	HEX	0D17	TID_SOSO_ CONNECT_ENTRY	
2	HEX	0D18	TID_SOSO_ CONNECT_EXIT	
2	HEX	0D19	TID_SOSO_ LISTEN_ENTRY	
2	HEX	0D1A	TID_SOSO_ LISTEN_EXIT	
2	HEX	0D1B	TID_SOSO_ BIND_ENTRY	
2	HEX	0D1C	TID_SOSO_BIND_EXIT	
2	HEX	0D1D	TID_SOSO_ NOTIFY_ENTRY	
2	HEX	0D1E	TID_SOSO_ NOTIFY_EXIT	
2	HEX	0D1F	TID_SOSO_ ASYNC_RECV_ENTRY	
2	HEX	0D20	TID_SOSO_ ASYNC_RECV_EXIT	
2	HEX	0D21	TID_SOSO_ GIVE_SOCKET_ENTRY	
2	HEX	0D22	TID_SOSO_ GIVE_SOCKET_EXIT	
2	HEX	0D23	TID_SOSO_ TAKE_SOCKET_ENTRY	
2	HEX	0D24	TID_SOSO_ TAKE_SOCKET_EXIT	
2	HEX	0D25	TID_SOSO_ CANCEL_INBOUND_ ENTRY	
2	HEX	0D26	TID_SOSO_ CANCEL_INBOUND_ EXIT	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0D27	TID_SOSO_ CANCEL_OUTBOUND_ ENTRY	
2	HEX	0D28	TID_SOSO_ CANCEL_OUTBOUND_ EXIT	
2	HEX	0D29	TID_SOSO_ ACCEPT_ENTRY	
2	HEX	0D2A	TID_SOSO_ ACCEPT_EXIT	
----------! DFHSOUS - The USocket Class. '0E00'x to '0E20'x! ----------!				
2	HEX	0E00	TID_SOUS_ ASYNCIO_ENTRY	
2	HEX	0E01	TID_SOUS_ ASYNCIO_EXIT	
2	HEX	0E02	TID_SOUS_ ASYNCIO_FAILURE	
2	HEX	0E03	TID_SOUS_ ASYNCIO_REQ_FUNC_ FAIL	
2	HEX	0E04	TID_SOUS_ CLOSE_ENTRY	
2	HEX	0E05	TID_SOUS_ CLOSE_EXIT	
2	HEX	0E06	TID_SOUS_ CLOSE_FAILURE	
2	HEX	0E07	TID_SOUS_ GIVESOCKET_ENTRY	
2	HEX	0E08	TID_SOUS_ GIVESOCKET_EXIT	
2	HEX	0E09	TID_SOUS_ GIVESOCKET_FAILURE	
2	HEX	0E0A	TID_SOUS_ TAKESOCKET_ENTRY	
2	HEX	0E0B	TID_SOUS_ TAKESOCKET_EXIT	
2	HEX	0E0C	TID_SOUS_ TAKESOCKET_FAILURE	
2	HEX	0E0D	TID_SOUS_ GETCLIENTID_ENTRY	
2	HEX	0E0E	TID_SOUS_ GETCLIENTID_EXIT	
2	HEX	0E0F	TID_SOUS_ GETCLIENTID_FAILURE	
2	HEX	0E10	TID_SOUS_ TCPIP_INACTIVE	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0E11	TID_SOUS_ SOCKET_ENTRY	
2	HEX	0E12	TID_SOUS_ SOCKET_EXIT	
2	HEX	0E13	TID_SOUS_ SOCKET_FAILURE	
2	HEX	0E14	TID_SOUS_ BIND_ENTRY	
2	HEX	0E15	TID_SOUS_BIND_EXIT	
2	HEX	0E16	TID_SOUS_ BIND_FAILURE	
2	HEX	0E17	TID_SOUS_ LISTEN_ENTRY	
2	HEX	0E18	TID_SOUS_ LISTEN_EXIT	
2	HEX	0E19	TID_SOUS_ LISTEN_FAILURE	
2	HEX	0E1A	TID_SOUS_ GET_SOCKNAME_ENTRY	
2	HEX	0E1B	TID_SOUS_ GET_SOCKNAME_EXIT	
2	HEX	0E1C	TID_SOUS_ GET_SOCKNAME_FAILURE	
2	HEX	0E1D	TID_SOUS_ IOCTL_ENTRY	
2	HEX	0E1E	TID_SOUS_ IOCTL_EXIT	
2	HEX	0E1F	TID_SOUS_ IOCTL_FAILURE	
2	HEX	0E20	TID_SOUS_ CLIENT_DISCONNECT	
2	HEX	0E21	TID_SOUS_ KEEPALIVE_FAILURE	
2	HEX	0E22	TID_SOUS_ GETCLUSTER_FAILURE	
---------- DFHSOLT - The Lifetime class '0F00'x to '0F07'x ! ----------!				
2	HEX	0F00	TID_SOLT_ ESTABLISH_ENTRY	
2	HEX	0F01	TID_SOLT_ ESTABLISH_EXIT	
2	HEX	0F02	TID_SOLT_ RELINQUISH_ENTRY	
2	HEX	0F03	TID_SOLT_ RELINQUISH_EXIT	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	0F04	TID_SOLT_ RESERVE_ENTRY	
2	HEX	0F05	TID_SOLT_ RESERVE_EXIT	
2	HEX	0F06	TID_SOLT_ NOASSOC_DRIVEN	
2	HEX	0F07	TID_SOLT_ ADD_LOCK_FAILURE	
2	HEX	0F08	TID_SOLT_ LOCK_FAILURE	
2	HEX	0F09	TID_SOLT_ UNLOCK_FAILURE	
2	HEX	0F10	TID_SOLT_ DELETE_LOCK_FAILURE	
----------! DFHSOMG _ Socket Manager Class '1000'x to '1000'x ! ----------!				
2	HEX	1000	TID_SOMG_RECOVERY	
2	HEX	1001	TID_SOMG_MATCH	
----------! DFHSOLI _ Socket calls for debug '1100'x to '11FF'x ! ----------!				
2	HEX	1100	TID_SOLI_ENTRY	
2	HEX	1101	TID_SOLI_EXIT	
2	HEX	1102	TID_SOLI_RECOVERY	
2	HEX	1103	TID_SOLI_PURGED	
2	HEX	1104	TID_SOLI_ INVALID_FUNCTION	
----------! DFHEIQSO _ Sockets SPI 'F930'x to 'F93F'x ! ----------!				
2	HEX	F930	TID_EIQSO_ENTRY	
2	HEX	F931	TID_EIQSO_EXIT	
2	HEX	F932	TID_EIQSO_ INVALID_SPI_FUNCTION	
----------! The following tracepoints are shared with the Web domain. ----------!				
2	HEX	FF60	TID_WBQM_ENTRY	
2	HEX	FF61	TID_WBQM_EXIT	
2	HEX	FF62	TID_WBQM_RECOVERY	
2	HEX	FF63	TID_WBQM_ INVALID_FORMAT	
2	HEX	FF64	TID_WBQM_ INVALID_FUNCTION	

Table 612. (continued)

Len	Type	value	Name	Description
2	HEX	FF65	TID_WBQM_ INVALID_PARM	
2	HEX	FF66	TID_WBQM_TSQ_ERROR	
2	HEX	FF67	TID_WBQM_ CHANNEL_ERROR	
2	HEX	FF68	TID_WBQM_ CONTAINER_ERROR	
2	HEX	FF69	TID_WBQM_ POOL_ERROR	
!:erefstep.so_tracepoints ----------				
4	DECIMAL	112	EAGAIN	
4	DECIMAL	113	EBADF	
4	DECIMAL	121	EINVAL	
4	DECIMAL	118	EFAULT	
4	DECIMAL	156	EMVSINITIAL	
4	DECIMAL	138	ENXIO	
4	DECIMAL	139	EPERM	
4	DECIMAL	134	ENOSYS	
4	DECIMAL	122	EIO	
4	DECIMAL	1104	EALREADY	
4	DECIMAL	1121	ECONNRESET	
4	DECIMAL	120	EINTR	
4	DECIMAL	1122	ENOBUFS	
4	DECIMAL	1124	ENOTCONN	
4	DECIMAL	1105	ENOTSOCK	
4	DECIMAL	140	EPIPE	
4	DECIMAL	1102	EWOULDBLOCK	
4	DECIMAL	1152	ECANCELED	
4	DECIMAL	3448	EUNATCH	
4	DECIMAL	1127	ETIMEDOUT	
4	DECIMAL	0	SOUS_IN	
4	DECIMAL	1	SOUS_OUT	
1	DECIMAL	1	SOUS_TCP	
1	DECIMAL	2	SOUS_UDP	
4	DECIMAL	1	SOUS_LOCAL	
4	DECIMAL	2	SOUS_REMOTE	
4	DECIMAL	-1	SOUS_WAIT_FOREVER	
4	DECIMAL	0	SOUS_NO_WAIT	
4	DECIMAL	0	SOUS_ASYNC	

Table 612. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1	SOUS_SYNC	
4	DECIMAL	1123	EISCONN	
4	DECIMAL	1128	ECONNREFUSED	
4	DECIMAL	662	JRTCPNOTACTIVE	
4	DECIMAL	128	AIOCBLEN	
4	CHAR HEX	00000000	RU_NULL_TOKEN	
4	DECIMAL	0	RUTK_OK	
4	DECIMAL	1	RUTK_OTHER	
4	DECIMAL	255	LAST_SLOT	
4	DECIMAL	255	LAST_BLOCK	
4	DECIMAL	0	SOSO_ASYNC	
4	DECIMAL	1	SOSO_SYNC	
4	DECIMAL	0	SOSO_NOTIFY_NONE	
4	DECIMAL	2	SOSO_NOTIFY_ CONNECTION	
4	DECIMAL	3	SOSO_NOTIFY_DATA	
4	DECIMAL	4	SOSO_NOTIFY_TIMEOUT	
4	DECIMAL	5	SOSO_NOTIFY_TASK_END	
4	DECIMAL	6	SOSO_NOTIFY_ SOCKET_CLOSED	
4	DECIMAL	7	SOSO_NOTIFY_ERROR	
4	DECIMAL	8	SOSO_NOTIFY_CANCEL	
1	DECIMAL	0	NO_SSL	
1	DECIMAL	1	AS_CLIENT	
1	DECIMAL	2	AS_SERVER	
1	DECIMAL	3	AS_SERVER_ WITH_CLIENTAUTH	

STAFB Statistics Authorised Parameter Block

```
Segment Name = DFHSTAFB
DESCRIPTIVE NAME  = CICS/MVS Statistics (ST) Domain
                    Authorised Facilities Parameter Block

Restricted Materials of IBM

Function =
     This file contains the control block and constant
     declarations for the parameter list used by Statistics
     for communication between the functional gate and the
     SVC service routine.
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = domain standard (no special usage)
 Patch Label = N/A
```

```
  Module Type = N/A
  Attributes = N/A
-------------------------------------------------------------------
 Statistics Authorised Facilities Parm Block -- S A F P B -
This contains:
           The authorised facility function code.
           The function return code.
           The SMF record address
           The creation time of the SAFPB
```

Table 613.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	68	SAFPB	
(0)	CHARACTER	16	SAFPB_PREFIX	
(0)	HALFWORD	2	SAFPB_LENGTH	Length
(2)	CHARACTER	1	SAFPB_ARROW	Arrow
(3)	CHARACTER	3	SAFPB_DFH	DFH
(6)	CHARACTER	2	SAFPB_DOMAIN	ST
(8)	CHARACTER	8	SAFPB_BLOCK_ID	SAFPB
(10)	UNSIGNED	2	SAFPB_FUNCTION	Function SMFWTM
(12)	UNSIGNED	1	SAFPB_RESPONSE	Response
(13)	BIT(8)	1	*	
	1...		SAFPB_GTF_ TRACE_FLAG	
				GTF flag
	.111 1111		*	
(14)	ADDRESS	4	SAFPB_SMF_RECORD	SMF buffer
(18)	ADDRESS	4	*	Reserved
(1C)	UNSIGNED	1	SAFPB_SMF_RC	SMF response
(1D)	UNSIGNED	1	*	Reserved
(1E)	UNSIGNED	2	*	
(20)	FULLWORD	4	SAFPB_RTNREG0	MVS rtnreg 0
(24)	FULLWORD	4	SAFPB_RTNREG1	MVS rtnreg 1
(28)	FULLWORD	4	SAFPB_RTNREG15	MVS rtnreg 15
(2C)	UNSIGNED	4	*	Reserved
(30)	UNSIGNED	4	*	Reserved
(34)	CHARACTER	8	*	Reserved
(3C)	CHARACTER	8	SAFPB_CREATION_ STCK	
				Creation time
(44)	CHARACTER	0	*	

Constants

Table 614.

Len	Type	value	Name	Description
SAFPB associated constants				
2	DECIMAL	1	SAFPB_SMFEWTM	
0	BIT	1	SAFPB_GTF_TRACE_ON	
0	BIT	0	SAFPB_GTF_ TRACE_OFF	
1	DECIMAL	0	SAFPB_OK	
1	DECIMAL	1	SAFPB_NO_FESTAE	
1	DECIMAL	2	SAFPB_NO_STORAGE_253	
1	DECIMAL	3	SAFPB_NO_ AUTHORISATION	
1	DECIMAL	4	SAFPB_NO_STORAGE_SMF	
1	DECIMAL	5	SAFPB_INVALID_ RECORD_LENGTH	
1	DECIMAL	6	SAFPB_NOT_ CICS_RECORD	
1	DECIMAL	7	SAFPB_SMF_ERROR	
1	DECIMAL	254	SAFPB_INVALID_ FUNCTION	
				*

STCB1 Statistics Domain Anchor Block

```
Segment Name = DFHSTCB1
DESCRIPTIVE NAME  = CICS/MVS Statistics Domain (ST)
                    Control Blocks 1.

Restricted Materials of IBM

Function =
     This file contains the data structure
     declarations used by the Statistics Domain.
     The data structure is :
         ANCHOR - ST Anchor block
         CATALOG_RECORD - ST CC Catalog record
         USS_BUFFER - Chain USS records
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = domain standard (no special usage)
 Patch Label = N/A
 Module Type = N/A
 Attributes = N/A
--------------------------------------------------------------------
                                  RECORD_STATISTICS
                                  trandefs
                                 prolog to be generated
 ST anchor block
```

Table 615.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	180	ANCHOR	Anchor Block

Table 615. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	16	ANC_PREFIX	Anchor prefix area
(0)	HALFWORD	2	ANC_LENGTH	Anchor length
(2)	CHARACTER	1	ANC_ARROW	Arrow eyecatcher
(3)	CHARACTER	3	ANC_DFH	DFH
(6)	CHARACTER	2	ANC_DOMID	Domain id
(8)	CHARACTER	8	ANC_BLOCK_NAME	Control block name
(10)	CHARACTER	43	COLLECTION_ MANAGEMENT	
				Collection management
(10)	CHARACTER	8	CM_INTERVAL	
(10)	UNSIGNED	4	CM_INT_SEC	Collection interval
(14)	UNSIGNED	4	CM_INT_ MICROSEC	
(18)	CHARACTER	8	CM_INTERVAL_ TOKEN	Token from Timer
(20)	CHARACTER	6	CM_END_ OF_DAY_TIME	
				EOD collection time
(26)	CHARACTER	8	CM_END_ OF_DAY_TOKEN	
				Token from Timer
(2E)	CHARACTER	6	CM_PEND_ RESET_TIME	
				Pending reset time hhmmss *
(34)	CHARACTER	6	CM_PREV_ RESET_TIME	
				Previous reset time hhmmss *
(3A)	BIT(8)	1	CM_FLAGS	Flags
	1...		CM_COLLECT_ OPTION	
				Collect option
	.1..		*	unused
	..1.		*	unused
	...1		*	unused
	.... 1...		*	unused
	.... .1..		*	unused

Table 615. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		*	unused
	1		*	unused
(3B)	BIT(8)	1	ANC_FLAGS	Anchor flags
	1...		*	Reserved
	.1..		ANC_SYSTEM_ TERMINATING	
				set by terminating EOD collection
	..1.		ANC_USER_ EXIT_STATUS	
				user exit ON/OFF
	...1		*	unused
	.... 1...		*	unused
	.... .1..		*	unused
	.... ..1.		*	unused
	1		*	unused
(3C)	CHARACTER	3	*	filler
(3F)	UNSIGNED	1	LAST_SMF_RC	Last SMF ret. code received
(40)	CHARACTER	8	SUBPOOL_TOKEN	Obtained from SM
(48)	ADDRESS	4	LOCK_TOKEN	Obtained from LM
(4C)	ADDRESS	4	USS_LOCK_TOKEN	
(50)	ADDRESS	4	SMF_PTR	-> to SMF buffer
(54)	ADDRESS	4	SAFPB_PTR	-> to SAFPB
(58)	ADDRESS	4	STATISTICS_PTR	-> to ST Domain Stats Rec.
(5C)	ADDRESS	4	USS_CHAIN_PTR	USS record chain
(60)	UNSIGNED	1	DOMAIN_STATUS	Domain status - Initialising Initialised Quiescing Quiesced Terminated
(61)	CHARACTER	3	*	Reserved
(64)	UNSIGNED	4	*	Reserved
(68)	FULLWORD	4	LENGTH_ DATA_WRITTEN	
				Len. data written / int.

Table 615. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6C)	CHARACTER	8	NEXT_COLL_EOD	EOD time used for next collection time calculation
(74)	ADDRESS	4	XST_LOCK_TOKEN	XSTOUT lock
(78)	CHARACTER	8	STA_CICS_ START_TIME	
				CICS start time (STCK)
(80)	UNSIGNED	4	STA_SMF_WRITES	# SMF Writes/Interval
(84)	UNSIGNED	4	STA_SMF_ WRITES_SUPP	
				# SMF Writes/ Suppressed *
(88)	UNSIGNED	4	STA_SMF_ERRORS	# SMF Errors
(8C)	UNSIGNED	4	STA_INT_ COLLECTIONS	
				# Interval Collections
(90)	UNSIGNED	4	STA_INT_RECORDS	# Interval SMF Records
(94)	UNSIGNED	4	STA_EOD_RECORDS	# End-of-Day SMF Records *
(98)	UNSIGNED	4	STA_USS_RECORDS	# Unsolicited SMF Records *
(9C)	UNSIGNED	4	STA_REQ_RECORDS	# Requested SMF Records *
(A0)	UNSIGNED	4	STA_RRT_RECORDS	# Requested SMF Records *
(A4)	CHARACTER	8	*	Reserved
(AC)	CHARACTER	8	STA_LAST_ RESET_TIME	
				Statistics last reset time *

```
If USS records arrive during statistics collection they are
chained for later processing.
```

Table 616.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	174	USS_BUFFER	
(0)	FULLWORD	4	UB_LENGTH	Length of whole buffer
(4)	FULLWORD	4	UB_DATA_LEN	Length of USS data only
(8)	CHARACTER	8	UB_CHAINING	

Table 616. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	ADDRESS	4	UB_PREV	Previous and next in
(C)	ADDRESS	4	UB_NEXT	USS_CHAIN_PTR chain
(10)	CHARACTER	44	UB_SMF_HEADER	
(3C)	CHARACTER	114	UB_SMF_PS	
(AE)	CHARACTER	0	UB_DATA	Statistics data

STUCB Statistics Utility Program Anchor Block

```
STUP anchor block
```

Table 617.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	713	ANCHOR	Anchor Block
(0)	CHARACTER	16	ANC_PREFIX	Anchor prefix area
(0)	HALFWORD	2	ANC_LENGTH	Anchor length
(2)	CHARACTER	1	ANC_ARROW	Arrow eyecatcher
(3)	CHARACTER	3	ANC_DFH	DFH
(6)	CHARACTER	2	ANC_DOMID	Domain id
(8)	CHARACTER	8	ANC_BLOCK_NAME	Control block name
(10)	ADDRESS	4	APPLID_ SELECT_PTR	-> select applid table
(14)	UNSIGNED	4	NUM_APPLID_ SELECT	Number selected
(18)	ADDRESS	4	APPLID_ IGNORE_PTR	-> ignore applid table
(1C)	UNSIGNED	4	NUM_APPLID_ IGNORE	Number ignored
(20)	ADDRESS	4	APPLID_STATS_PTR	-> to applid statistics
(24)	ADDRESS	4	*	Reserved
(28)	ADDRESS	4	*	Reserved
(2C)	ADDRESS	4	*	Reserved
(30)	ADDRESS	4	*	Reserved
(34)	CHARACTER	8	*	Reserved
(3C)	CHARACTER	44	WRITE_PARMS	
(3C)	UNSIGNED	2	PAGESIZE	Pagesize for report
(3E)	UNSIGNED	2	LINES_WRITTEN	Lines written on current pg
(40)	UNSIGNED	2	PAGE_NUMBER	Page number so far
(42)	UNSIGNED	2	*	Reserved
(44)	CHARACTER	8	COLL_APPLID	Applid being reported
(4C)	CHARACTER	8	COLL_JOBNAME	Jobname
(54)	CHARACTER	6	COLL_TIME	Collection time
(5A)	CHARACTER	8	COLL_DATE	Collection date
(62)	CHARACTER	3	STATS_COLL_TYPE	Coll type - INT/EOD/REQ/RRT/USS

Table 617. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(65)	CHARACTER	3	*	Reserved
(68)	BIT(8)	1	REPORT_ REQD_FLAGS	
	1...		ALL	All reports produced
	.1..		EOD	End-of-day reports produced *
	..1.		INT	Interval reports produced *
	...1		REQ	Requested reports produced *
	.... 1...		USS	USS reports produced
	.... .1..		SUM	Summary report produced *
	.... ..1.		RRT	RRT reports produced
	1		*	Reserved
(69)	BIT(8)	1	FUNCTION_ REQD_FLAGS	Reserved
	1...		EXTRACT_ EXIT_LOADED	Extract exit loaded
	.1..		EXTRACT_ EXIT_INIT	Extract exit init
	..1.		EXTRACT_ EXIT_ASTART	Extract exit applid start *
	...1		EXTRACT_ EXIT_TERM	Extract exit terminated
	 1111		*	Reserved
(6A)	CHARACTER	2	*	Reserved
(6C)	CHARACTER	8	*	Reserved
(74)	CHARACTER	8	CURRENT_APPLID	Applid being formatted
(7C)	FULLWORD	4	CURRENT_INTERVAL	Interval no being formatted
(80)	CHARACTER	8	CURRENT_DATE	yyyymmdd being formatted *
(88)	CHARACTER	6	CURRENT_TIME	hhmmss being formatted
(8E)	CHARACTER	8	CURRENT_ REQ_TOKEN	token for REQ report
(96)	CHARACTER	3	CURRENT_ REPORT_TYPE	type of report formatted *
(99)	CHARACTER	1	*	Reserved
(9A)	CHARACTER	8	*	Reserved
(A2)	HALFWORD	2	CURRENT_ PASS_NUMBER	pass currently executing *
(A4)	HALFWORD	2	CURRENT_ NUM_APPLID	Number of applids found
(A6)	CHARACTER	256	CURRENT_ RESOURCE_ID	Resource ID being for'tted *
(1A6)	CHARACTER	2	CURRENT_ RECORD_TYPE	Record type being for'tted *
(1A8)	CHARACTER	4	*	Reserved
(1AC)	ADDRESS	4	CURRENT_ ENTRY_POINT	-> current format routine *
(1B0)	CHARACTER	8	CURRENT_ CICS_START_TIME	Current start time STCK *
(1B8)	CHARACTER	8	*	Reserved
(1C0)	ADDRESS	4	SUMMARY_REC_PTR	-> to summary record
(1C4)	FULLWORD	4	SUMMARY_ REC_LENGTH	size of summary record
(1C8)	ADDRESS	4	TOTAL_REC_PTR	-> to total record
(1CC)	FULLWORD	4	TOTAL_REC_LENGTH	size of total record
(1D0)	ADDRESS	4	SUM_TOT_REC_PTR	-> to summary total record *

Table 617. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1D4)	FULLWORD	4	SUM_TOT_ REC_LENGTH	size of summary total rec *
(1D8)	ADDRESS	4	SORT_RECORD_PTR	-> to sort record
(1DC)	FULLWORD	4	SORT_RECORD_LEN	size of sort record
(1E0)	ADDRESS	4	SMF_REC_PTR	-> to the SMF record
(1E4)	ADDRESS	4	SMF_REC_INDEX	-> to stats rec within SMF *
(1E8)	ADDRESS	4	STUP_KERNEL_PTR	-> to kernel stack entry *
(1EC)	ADDRESS	4	EXT_ENTRY_ TAB_PTR	-> to ext entry pt table *
(1F0)	CHARACTER	8	REPORT_DATE	mmddyyyy - report date
(1F0)	CHARACTER	2	REPORT_MM	
(1F2)	CHARACTER	2	REPORT_DD	
(1F4)	CHARACTER	4	REPORT_YYYY	
(1F8)	CHARACTER	6	REPORT_TIME	hhmmss - report time
(1F8)	CHARACTER	2	REPORT_HOUR	
(1FA)	CHARACTER	2	REPORT_MIN	
(1FC)	CHARACTER	2	REPORT_SEC	
(1FE)	CHARACTER	2	*	Filler
(200)	UNSIGNED	1	STATUS_FLAGS	
	1...		SMF_EMPTY	Flags an empty SMF log
	.1..		FIRST_INPUT_ RECORD	Flags the first input rec *
	..1.		FIRST_OUTPUT_ RECORD	Flags the first output rec *
	...1		COLLECT_STATS	Collect report stats
	.... 1...		WRITING_SUMMARY	Writing summary report
	.... .1..		WRITING_ REPORT_SUMM	Writing report summary
	.... ..1.		TIME_PERIOD_ SELECTED	A time period is selected
	1		TIME_PERIOD	Times are elapsed | daily
(201)	CHARACTER	3	STATS_FILE_OPEN	Stats file open flag
(204)	CHARACTER	48	RECORD_COUNTS	
(204)	FULLWORD	4	SMF_RECORD_ COUNT	No. SMF records read
(208)	FULLWORD	4	CICS_RECORD_ COUNT	No. of CICS records read *
(20C)	FULLWORD	4	STATS_RECORD_ COUNT	No. of stats recs read *
(210)	FULLWORD	4	STATS_SELECTED_ COUNT	No. of stats recs selected *
(214)	FULLWORD	4	TS_SERVER_ RECORD_COUNT	No. of ts server records
(218)	FULLWORD	4	*	Reserved
(21C)	FULLWORD	4	CFDT_SERVER_ RECORD_COUNT	No. of cfdt server records
(220)	FULLWORD	4	*	Reserved
(224)	FULLWORD	4	NC_SERVER_ RECORD_COUNT	No. of nc server records
(228)	FULLWORD	4	*	Reserved
(22C)	CHARACTER	8	*	Reserved
(234)	CHARACTER	8	*	Reserved

Table 617. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(23C)	CHARACTER	1	CURRENT_VERSION	Current stats dsect ver no. *
(23D)	CHARACTER	8	CURRENT_ INTERVAL_TIME	Interval duration
(245)	CHARACTER	1	OTHER_SWITCHES	
	1...		UPPERCASE_REQ	Translate flag
	.111 1111		*	Filler
(246)	CHARACTER	2	*	Filler
(248)	ADDRESS	4	DFHMEBME_ADDR	Addr of DFHMEBM entry pt *
(24C)	ADDRESS	4	MSG_TABLE_ADDR	Addr of message table
	Time/Date stamps for selected time period.			
(250)	CHARACTER	14	SELECTED_PERIOD (2)	Row 1 = Start time/date Row 2 = Stop time/date
(250)	CHARACTER	6	SELECTED_ TIME_PERIOD	Col 1 = Time - HHMMSS
(256)	CHARACTER	8	SELECTED_ DATE_PERIOD	Col 2 = Date - MMDDYYYY *
(26C)	CHARACTER	6	COLL_LAST_RESET	Last reset time
(272)	CHARACTER	6	*	Reserved
(278)	ADDRESS	4	EXTRACT_ EXIT_PLIST	Extract exit plist
(27C)	CHARACTER	8	EXTRACT_ EXIT_PROGNAME	Extract exit program
(284)	ADDRESS	4	EXTRACT_ EXIT_LOAD_POINT	Extract exit load point *
(288)	ADDRESS	4	EXTRACT_ EXIT_ENTRY_POINT	Extract exit entry point *
(28C)	UNSIGNED	4	EXTRACT_ EXIT_INV_COUNT	# times exit invoked
(290)	UNSIGNED	2	EXTRACT_ EXIT_FUNCTION_ CODE	Extract exit function code
(292)	UNSIGNED	2	*	Reserved
(294)	ADDRESS	4	EXTRACT_ EXIT_WORKAREA_PTR	Extract exit workarea
(298)	UNSIGNED	4	EXTRACT_ EXIT_RETCODE	Extract exit retcode
(29C)	CHARACTER	16	*	Reserved
	FORMATTER_FLAGS: Each formatter is invoked with one record at a time. If the current record read indicates that a reset of 'not reset' fields has occurred (i.e. CICS shutdown/cancel or USS records) then the RESET_OCCURRED bit os set ON.			
(2AC)	UNSIGNED	1	FORMATTER_FLAGS	flags for use by formatters *
	1...		RESET_OCCURRED	Reset occurred on prev. recd
	.1..		DFHSTWRK_ ERROR_FLAG	Error with DFHSTWRK
	..1.		MSG_DFHST0236_ISSUED	
	...1 1111			
	..11 1111		*	Reserved
	SELECT_TYPE_FLAGS: Records can either be selected or ignored by the user by specifying SELECT/IGNORE TYPE input cards. If no selection is made, the default is to print all.			
(2AD)	BIT(64)	8	SELECT_ TYPE_FLAGS	Print selection flags

Table 617. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2AD)	CHARACTER	1	SELECT_ TYPE_FLAG1	
	1...		SELECT_ IGNORE_F	Select/ignore found
	.1..		SELECT_ AUTOINST	Select Autoinstall
	..1.		SELECT_CONNECT	Select Connection
	...1		SELECT_ DISPATCH	Select Dispatcher
	.... 1...		SELECT_ REQUESTMODEL	Select Requestmodel
	.... .1..		SELECT_FILE	Select File
	.... ..1.		SELECT_ LOGSTREAM	Select Logstream
	1		SELECT_JOURNAL	Select Journal
(2AE)	CHARACTER	1	SELECT_ TYPE_FLAG2	
	1...		SELECT_LSRPOOL	Select Lsrpool
	.1..		SELECT_MONITOR	Select Monitor
	..1.		SELECT_PROGRAM	Select Program
	...1		SELECT_STATS	Select Stats
	.... 1...		SELECT_STORAGE	Select Storage
	.... .1..		SELECT_SYSDUMP	Select Sysdump
	.... ..1.		SELECT_ TABLEMGR	Select Table Manager
	1		SELECT_ TCPIPSERVICE	Select TCPIP Services
(2AF)	CHARACTER	1	SELECT_ TYPE_FLAG3	
	1...		SELECT_TCLASS	Select Tclass
	.1..		SELECT_TDQUEUE	Select Tdqueue
	..1.		SELECT_ TERMINAL	Select Terminal
	...1		SELECT_ TRANDUMP	Select Trandump
	.... 1...		SELECT_ TRANSACT	Select Transaction
	.... .1..		SELECT_TSQUEUE	Select Tsqueue
	.... ..1.		SELECT_VTAM	Select Vtam
	1		SELECT_FEPI	Select FEPI
(2B0)	CHARACTER	1	SELECT_ TYPE_FLAG4	
	1...		SELECT_DBCTL	Select Dbcontrol
	.1..		SELECT_ PROGAUTO	Select Autoinstall program
	..1.		SELECT_DCE	Select DCE program
	...1		SELECT_USER	Select User domain
	.... 1...		SELECT_TCPIP	Select TCPIP global
	.... .1..		SELECT_ENQUEUE	Select Enqueue
	.... ..1.		SELECT_ RECOVERY	Select Recovery
	1		SELECT_DB2	Select DB2
(2B1)	CHARACTER	1	SELECT_ TYPE_FLAG5	
	1...		SELECT_ CORBASERVER	Select CorbaServer
	.1..		SELECT_JVMPOOL	Select JVMPool

Table 617. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		SELECT_ JVMPROFILE	Select JVMProfile
	...1		SELECT_ JVMPROGRAM	Select JVMProgram
	.... 1...		*	Reserved
	.... .1..		SELECT_BEAN	Select Bean
	.... ..1.		*	Reserved
	1		SELECT_MVSTCB	Select Dispatcher MVS TCB
(2B2)	CHARACTER	1	SELECT_ TYPE_FLAG6	
	1...		SELECT_ OVERVIEW	Select Overview
	.1..		SELECT_DSA	Select DSA
	..1.		SELECT_TRANMGR	Select Transaction Mgr
	...1		SELECT_LOADER	Select Loader
	.... 1...		SELECT_ TRANDATA	Select Transient Data
	.... .1..		SELECT_DB2CONN	Select DB2 Connection
	.... ..1.		SELECT_MQCONN	MQ Connection @IND7434C
	1		*	Reserved
(2B3)	CHARACTER	1	SELECT_ TYPE_FLAG7	
	1...		SELECT_URIMAP	Select URIMAPs
	.1..		SELECT_ PIPELINE	Select PIPELINEs
	..1.		SELECT_ WEBSERVICE	Select WEBSERVICEs
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		SELECT_ DOCTEMPLATE	Select DOCTEMPLATEs
	.... ..1.		*	Reserved
	1		*	Reserved
(2B4)	CHARACTER	1	SELECT_ TYPE_FLAG8	
	1...		SELECT_IPCONN	Reserved
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		SELECT_LIBRARY	Select LIBRARYs
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	1		*	Reserved
(2B5)	CHARACTER	20	PATCH_SPACE	Patch space

Table 618.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	9	APPLID_SELECT (520)	

Table 618. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	8	APPLID	Applid selected
(8)	UNSIGNED	1	APPLID_FLAGS	Flags used in selection
	1...		APPLID_ STATS_FOUND	Set when stats found on SMF for the applid
	.111 1111		*	unused

Table 619.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	APPLID_IGNORE (520)	
(0)	CHARACTER	8	APPLID	Applid ignored

```
EXTRACT exit parameter list - includes buffer to make a copy of
the SMF record to pass to the exit.
```

Table 620.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12044	EXTRACT_ EXIT_PARAMETERS	
(0)	ADDRESS	4	EXTRACT_ FUNCTION_CODE_PTR	
(4)	ADDRESS	4	EXTRACT_ WORK_AREA_PTR	
(8)	ADDRESS	4	EXTRACT_ SMF_RECORD_PTR	
(C)	ADDRESS	4	EXTRACT_ STATISTICS_ RECORD_PTR	
(10)	ADDRESS	4	EXTRACT_ PARM_DATA_PTR	
(14)	CHARACTER	24	EXTRACT_ PARM_DATA	
(14)	CHARACTER	8	EXTRACT_ REPORT_DATE	
(1C)	CHARACTER	6	EXTRACT_ REPORT_TIME	
(22)	UNSIGNED	2	EXTRACT_ LINES_PER_PAGE	
(24)	CHARACTER	5	EXTRACT_ RELEASE_NO	
(29)	CHARACTER	1	EXTRACT_ CASE_SETTING	
(2A)	CHARACTER	2	*	
(2C)	CHARACTER	12000	EXTRACT_ SMF_RECORD_COPY	
(2F0C)	CHARACTER	0	*	

Table 621.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	19000	STUP_APPLID_STATS	
(0)	CHARACTER	76	APPLID_STATS (520)	Statistics for report summary
(0)	CHARACTER	8	STATS_APPLID	Applid associated with statistics
(8)	CHARACTER	8	STATS_JOBNAME	Jobname associated with statistics

Table 621. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	FULLWORD	4	STATS_INTERVALS	Interval count for applid
(14)	FULLWORD	4	STATS_EODES	Number of EOD records
(18)	FULLWORD	4	STATS_INTES	Number of INT records
(1C)	FULLWORD	4	STATS_REQES	Number of REQ records
(20)	FULLWORD	4	STATS_RRTES	Number of RRT records
(24)	FULLWORD	4	STATS_USSES	Number of USS records
(28)	CHARACTER	8	STATS_DATES (2)	First and last SMF record dates - respectively
(38)	CHARACTER	6	STATS_TIMES (2)	First and last SMF record times - respectively
(44)	CHARACTER	8	STATS_CICS_ START_TIME	CICS start time STCK

Constants

Table 622.

Len	Type	value	Name	Description
2	DECIMAL	60	DEFAULT_PAGESIZE	
0	BIT	1	TRUE	
0	BIT	0	FALSE	
1	DECIMAL	1	STANDARD_PASS	
1	DECIMAL	2	SUMMARY_PASS	
4	DECIMAL	32769	BUFFER_LENGTH	
0	BIT	0	ELAPSED	
0	BIT	1	DAILY	
2	DECIMAL	520	MAX_NUM_APPLIDS	

FEP01 Frontend Programming Interface Trace

Constants

Table 623.

Len	Type	value	Name	Description
2	HEX	1200	SZ_TRP_API_ENTRY	
2	HEX	1201	SZ_TRP_API_EXIT	
2	HEX	1220	SZ_TRP_SPI_ENTRY	
2	HEX	1221	SZ_TRP_SPI_EXIT	

```
================================================================
= =
= X'1240' -> X'125F' are for the FEPI Resource Manager =
= SZ3000 -> SZ3999 Adapter program usage =
= =
================================================================
```

Table 623. (continued)

Len	Type	value	Name	Description
2	HEX	1240	SZ_TRP_ADA_ENTRY	
2	HEX	1241	SZ_TRP_ADA_EXIT	
2	HEX	1242	SZ_TRP_ADA_CHECK	
2	HEX	1243	SZ_TRP_ADA_BRM	
2	HEX	1244	SZ_TRP_ADA_ARM	
2	HEX	1245	SZ_TRP_ADA_BXB	
2	HEX	1246	SZ_TRP_ADA_AXB	
2	HEX	1247	SZ_TRP_ADA_BXA	
2	HEX	1248	SZ_TRP_ADA_AXA	
2	HEX	1250	SZ_TRP_ADA_ GET_FAIL	
2	HEX	1251	SZ_TRP_ADA_ WAIT_FAIL	
== = = = X'1260' -> X'12BF' are for the FEPI Resource Manager = = SZ4000 -> SZ5999 usage = = = ==				
2	HEX	1260	SZ_TRP_SIP_ENTRY	
2	HEX	1261	SZ_TRP_SIP_EXIT	
2	HEX	1262	SZ_TRP_SIP_ERR_SIT	
2	HEX	1263	SZ_TRP_SIP_ ERR_STATE	
2	HEX	1264	SZ_TRP_SIP_ERR_ENQ	
2	HEX	1265	SZ_TRP_SIP_ERR_SP	
2	HEX	1266	SZ_TRP_SIP_ ERR_RUNAWAY	
2	HEX	1267	SZ_TRP_SIP_ERR_CHP	
2	HEX	1268	SZ_TRP_SIP_ ERR_SWOP	
2	HEX	1269	SZ_TRP_SIP_REENTER	
2	HEX	126A	SZ_TRP_SIP_ABEND	
2	HEX	126B	SZ_TRP_ZNG_ENTRY	
2	HEX	126C	SZ_TRP_ZNG_EXIT	
2	HEX	126D	SZ_TRP_ZNG_ GET_GOOD	
2	HEX	126E	SZ_TRP_ZNG_ GET_FAIL	
2	HEX	126F	SZ_TRP_ZAG_ENTRY	
2	HEX	1270	SZ_TRP_ZAG_EXIT	
2	HEX	1271	SZ_TRP_ZAG_ GET_GOOD	

Table 623. (continued)

Len	Type	value	Name	Description
2	HEX	1272	SZ_TRP_ZAG_ GET_FAIL	
2	HEX	1273	SZ_TRP_ZRG_ENTRY	
2	HEX	1274	SZ_TRP_ZRG_EXIT	
2	HEX	1275	SZ_TRP_ZRG_ GET_GOOD	
2	HEX	1276	SZ_TRP_ZRG_ GET_FAIL	
2	HEX	1277	SZ_TRP_ZFR_ENTRY	
2	HEX	1278	SZ_TRP_ZFR_ FREE1_GOOD	
2	HEX	1279	SZ_TRP_ZFR_ FREE1_FAIL	
2	HEX	127A	SZ_TRP_ZFR_ FREE2_GOOD	
2	HEX	127B	SZ_TRP_ZFR_ FREE2_FAIL	
2	HEX	127C	SZ_TRP_ZFR_EXIT	
---------- API related trace point allocations 1400 -> ----------				
2	HEX	1400	SZ_TRP_RPW_ENTRY	
2	HEX	1401	SZ_TRP_RPW_EXIT	
2	HEX	1402	SZ_TRP_RRT_ENTRY	
2	HEX	1403	SZ_TRP_RRT_ FREE_DQE	
2	HEX	1404	SZ_TRP_RRT_ FREE_DYN	
2	HEX	1405	SZ_TRP_RRT_EXIT	
2	HEX	1406	SZ_TRP_RQW_ENTRY	
2	HEX	1407	SZ_TRP_RQW_QUEUE	
2	HEX	1408	SZ_TRP_RQW_POST	
2	HEX	1409	SZ_TRP_RQW_EXIT	
2	HEX	140A	SZ_TRP_RDP_ENTRY	
2	HEX	140B	SZ_TRP_RDP_ INITDONE	
2	HEX	140C	SZ_TRP_RDP_PROCESS	
2	HEX	140D	SZ_TRP_RDP_BAD_REQ	
2	HEX	140E	SZ_TRP_RDP_POST	
2	HEX	140F	SZ_TRP_RDP_IDLE	
2	HEX	1410	SZ_TRP_RDP_FORCED	
2	HEX	1411	SZ_TRP_RDP_ NO_COMMON	

Table 623. (continued)

Len	Type	value	Name	Description
2	HEX	1412	SZ_TRP_RDP_NO_LIFO	
2	HEX	1413	SZ_TRP_RDP_EXIT	
2	HEX	1414	SZ_TRP_RNO_ENTRY	
2	HEX	1415	SZ_TRP_RNO_EXIT	
2	HEX	1416	SZ_TRP_RII_ENTRY	
2	HEX	1417	SZ_TRP_RII_EXIT	
2	HEX	1418	SZ_TRP_RID_ENTRY	
2	HEX	1419	SZ_TRP_RID_EXIT	
2	HEX	141A	SZ_TRP_RZZ_ENTRY	
2	HEX	141B	SZ_TRP_RZZ_EXIT	
2	HEX	141C	SZ_TRP_RNC_ENTRY	
2	HEX	141D	SZ_TRP_RNC_EXIT	
2	HEX	141E	SZ_TRP_RCA_ENTRY	
2	HEX	141F	SZ_TRP_RCA_FREE	
2	HEX	1420	SZ_TRP_RCA_ CLOSE_ACB	
2	HEX	1421	SZ_TRP_RCA_EXIT	
2	HEX	1422	SZ_TRP_RIO_ENTRY	
2	HEX	1423	SZ_TRP_RIO_ DEFACB_ERROR	
2	HEX	1424	SZ_TRP_RIO_EXIT	
2	HEX	1425	SZ_TRP_RIN_ENTRY	
2	HEX	1426	SZ_TRP_RIN_ERROR	
2	HEX	1427	SZ_TRP_RIN_GETMAIN	
2	HEX	1428	SZ_TRP_RIN_EXIT	
2	HEX	1429	SZ_TRP_RIP_ENTRY	
2	HEX	142A	SZ_TRP_RIP_ERROR	
2	HEX	142B	SZ_TRP_RIP_GETMAIN	
2	HEX	142C	SZ_TRP_RIP_EXIT	
2	HEX	142D	SZ_TRP_RIT_ENTRY	
2	HEX	142E	SZ_TRP_RIT_ERROR	
2	HEX	142F	SZ_TRP_RIT_GETMAIN	
2	HEX	1430	SZ_TRP_RIT_EXIT	
2	HEX	1431	SZ_TRP_RIS_ENTRY	
2	HEX	1432	SZ_TRP_RIS_ERROR	
2	HEX	1433	SZ_TRP_RIS_GETMAIN	
2	HEX	1434	SZ_TRP_RIS_EXIT	
2	HEX	1435	SZ_TRP_RIC_ENTRY	

Table 623. (continued)

Len	Type	value	Name	Description
2	HEX	1436	SZ_TRP_RIC_ERROR	
2	HEX	1437	SZ_TRP_RIC_GETMAIN	
2	HEX	1438	SZ_TRP_RIC_EXIT	
2	HEX	1439	SZ_TRP_RDG_ENTRY	
2	HEX	143A	SZ_TRP_RDG_FREE	
2	HEX	143B	SZ_TRP_RDG_ BAD_POOL	
2	HEX	143C	SZ_TRP_RDG_EXIT	
2	HEX	143D	SZ_TRP_RDC_ENTRY	
2	HEX	143E	SZ_TRP_RDC_EXIT	
2	HEX	143F	SZ_TRP_RDS_ENTRY	
2	HEX	1440	SZ_TRP_RDS_FREE	
2	HEX	1441	SZ_TRP_RDS_ BAD_PROPSET	
2	HEX	1442	SZ_TRP_RDS_EXIT	
2	HEX	1443	SZ_TRP_RDN_ENTRY	
2	HEX	1444	SZ_TRP_RDN_FREE	
2	HEX	1445	SZ_TRP_RDN_ BAD_NODE	
2	HEX	1446	SZ_TRP_RDN_EXIT	
2	HEX	1447	SZ_TRP_RDT_ENTRY	
2	HEX	1448	SZ_TRP_RDT_FREE	
2	HEX	1449	SZ_TRP_RDT_ BAD_TARGET	
2	HEX	144A	SZ_TRP_RDT_EXIT	
2	HEX	144B	SZ_TRP_RSC_ENTRY	
2	HEX	144C	SZ_TRP_RSC_ UNKNOWN_LUTYPE	
2	HEX	144D	SZ_TRP_RSC_EXIT	
2	HEX	144E	SZ_TRP_VQS_ENTRY	
2	HEX	144F	SZ_TRP_VQS_EXIT	
2	HEX	1450	SZ_TRP_RIW_ENTRY	
2	HEX	1451	SZ_TRP_RIW_EXIT	
2	HEX	1452	SZ_TRP_RIF_ENTRY	
2	HEX	1453	SZ_TRP_RIF_EXIT	
2	HEX	1454	SZ_TRP_RIA_ENTRY	
2	HEX	1459	SZ_TRP_RIA_EXIT	
2	HEX	145A	SZ_TRP_RIQ_ENTRY	
2	HEX	145B	SZ_TRP_RIQ_EXIT	

Table 623. (continued)

Len	Type	value	Name	Description
2	HEX	145C	SZ_TRP_RXD_ENTRY	
2	HEX	145D	SZ_TRP_RXD_EXIT	
2	HEX	145E	SZ_TRP_RRD_ENTRY	
2	HEX	145F	SZ_TRP_RRD_EXIT	
2	HEX	1460	SZ_TRP_RSE_ENTRY	
2	HEX	1461	SZ_TRP_RSE_EXIT	
2	HEX	1462	SZ_TRP_RCT_ENTRY	
2	HEX	1463	SZ_TRP_RCT_EXIT	
2	HEX	1464	SZ_TRP_RID_ FREE_DSR	
2	HEX	1465	SZ_TRP_RIO_FREE	
2	HEX	1466	SZ_TRP_RIO_GETMAIN	
2	HEX	1467	SZ_TRP_RDC_FREE	
2	HEX	1468	SZ_TRP_2CP_ENTRY	
2	HEX	1469	SZ_TRP_2CP_EXIT	
2	HEX	146A	SZ_TRP_PCP_ENTRY	
2	HEX	146B	SZ_TRP_PCP_EXIT	
2	HEX	146C	SZ_TRP_VRA_ENTRY	
2	HEX	146D	SZ_TRP_VRA_EXIT	
2	HEX	146E	SZ_TRP_RIO_GETFAIL	
2	HEX	146F	SZ_TRP_RIO_GETLIST	
2	HEX	1470	SZ_TRP_RIO_ GENCB_ERROR	
2	HEX	1471	SZ_TRP_RIO_ OPENACB_ERROR	
2	HEX	1472	SZ_TRP_RQR_ENTRY	
2	HEX	1473	SZ_TRP_RQR_EXIT	
2	HEX	1474	SZ_TRP_RIC_GETDSR	
2	HEX	1475	SZ_TRP_RIC_GETDCD	
2	HEX	1476	SZ_TRP_2SB_ENTRY	
2	HEX	1477	SZ_TRP_2SB_BEFOREO	
2	HEX	1478	SZ_TRP_2SB_BEFORES	
2	HEX	1479	SZ_TRP_2SB_EXIT	
2	HEX	147A	SZ_TRP_2SC_ENTRY	
2	HEX	147B	SZ_TRP_2SC_EXIT	
2	HEX	1480	SZ_TRP_2SD_ENTRY	
2	HEX	1481	SZ_TRP_2SD_BEFORES	
2	HEX	1482	SZ_TRP_2SD_EXIT	
2	HEX	1483	SZ_TRP_2ID_ENTRY	

Table 623. (continued)

Len	Type	value	Name	Description
2	HEX	1484	SZ_TRP_2ID_BEFORES	
2	HEX	1485	SZ_TRP_2ID_BEFOREP	
2	HEX	1486	SZ_TRP_2ID_EXIT	
2	HEX	1487	SZ_TRP_2OA_ENTRY	
2	HEX	1488	SZ_TRP_2OA_BEFORES	
2	HEX	1489	SZ_TRP_2OA_EXIT	
2	HEX	1490	SZ_TRP_2OD_ENTRY	
2	HEX	1491	SZ_TRP_2OD_BEFORER	
2	HEX	1492	SZ_TRP_2OD_BEFOREP	
DECLARE SZ_TRP_2OD_BEFORES BIT(16) DELETED BY APAR				
2	HEX	1494	SZ_TRP_2OD_EXIT	
2	HEX	1495	SZ_TRP_2OR_ENTRY	
2	HEX	1496	SZ_TRP_2OR_BEFOREP	
2	HEX	1497	SZ_TRP_2OR_EXIT	
2	HEX	1498	SZ_TRP_PSB_ENTRY	
2	HEX	1499	SZ_TRP_PSB_BEFOREO	
2	HEX	149A	SZ_TRP_PSB_BEFORES	
2	HEX	149B	SZ_TRP_PSB_EXIT	
2	HEX	149C	SZ_TRP_PSC_ENTRY	
2	HEX	149D	SZ_TRP_PSC_EXIT	
2	HEX	1502	SZ_TRP_PSD_ENTRY	
2	HEX	1503	SZ_TRP_PSD_BEFORES	
2	HEX	1504	SZ_TRP_PSD_BEFOREP	
2	HEX	1505	SZ_TRP_PSD_EXIT	
2	HEX	1506	SZ_TRP_PSS_ENTRY	
2	HEX	1507	SZ_TRP_PSS_BEFORES	
2	HEX	1508	SZ_TRP_PSS_BEFOREP	
2	HEX	1509	SZ_TRP_PSS_EXIT	
2	HEX	1510	SZ_TRP_PID_ENTRY	
2	HEX	1511	SZ_TRP_PID_BEFORES	
2	HEX	1512	SZ_TRP_PID_BEFOREP	
2	HEX	1513	SZ_TRP_PID_EXIT	
2	HEX	1514	SZ_TRP_POA_ENTRY	
2	HEX	1515	SZ_TRP_POA_BEFORES	
2	HEX	1516	SZ_TRP_POA_EXIT	
2	HEX	1517	SZ_TRP_POD_ENTRY	
2	HEX	1518	SZ_TRP_POD_BEFORER	

Table 623. (continued)

Len	Type	value	Name	Description
2	HEX	1519	SZ_TRP_POD_BEFOREP	
2	HEX	1520	SZ_TRP_POD_BEFORES	
2	HEX	1521	SZ_TRP_POD_EXIT	
2	HEX	1522	SZ_TRP_POR_ENTRY	
2	HEX	1523	SZ_TRP_POR_BEFOREP	
2	HEX	1524	SZ_TRP_POR_EXIT	
2	HEX	1528	SZ_TRP_2SH_ENTRY	
2	HEX	1529	SZ_TRP_2SH_BEFORES	
2	HEX	1530	SZ_TRP_2SH_EXIT	
2	HEX	1531	SZ_TRP_2SQ_ENTRY	
2	HEX	1532	SZ_TRP_2SQ_BEFORES	
2	HEX	1533	SZ_TRP_2SQ_EXIT	
2	HEX	1534	SZ_TRP_2SR_ENTRY	
2	HEX	1535	SZ_TRP_2SR_EXIT	
2	HEX	1536	SZ_TRP_2TE_ENTRY	
2	HEX	1537	SZ_TRP_2TE_BEFORES	
2	HEX	1538	SZ_TRP_2TE_EXIT	
2	HEX	1542	SZ_TRP_PSH_ENTRY	
2	HEX	1543	SZ_TRP_PSH_BEFORES	
2	HEX	1544	SZ_TRP_PSH_EXIT	
2	HEX	1545	SZ_TRP_PSQ_ENTRY	
2	HEX	1546	SZ_TRP_PSQ_BEFORES	
2	HEX	1547	SZ_TRP_PSQ_EXIT	
2	HEX	1548	SZ_TRP_PSR_ENTRY	
2	HEX	1549	SZ_TRP_PSR_EXIT	
2	HEX	1550	SZ_TRP_PTE_ENTRY	
2	HEX	1551	SZ_TRP_PTE_BEFORES	
2	HEX	1552	SZ_TRP_PTE_EXIT	
2	HEX	1553	SZ_TRP_2QS_ENTRY	
2	HEX	1554	SZ_TRP_2QS_EXIT	
2	HEX	1555	SZ_TRP_PQS_ENTRY	
2	HEX	1556	SZ_TRP_PQS_EXIT	
2	HEX	1557	SZ_TRP_BCL_ENTRY	
2	HEX	1558	SZ_TRP_BCL_BEFOREP	
2	HEX	1559	SZ_TRP_BCL_EXIT	
2	HEX	1560	SZ_TRP_BST_ENTRY	
2	HEX	1561	SZ_TRP_BST_GETMAIN	

Table 623. (continued)

Len	Type	value	Name	Description
2	HEX	1562	SZ_TRP_BST_EXIT	
2	HEX	1563	SZ_TRP_BSI_ENTRY	
2	HEX	1564	SZ_TRP_BSI_GETMAIN	
2	HEX	1565	SZ_TRP_BSI_EXIT	
2	HEX	1566	SZ_TRP_BUN_ENTRY	
2	HEX	1567	SZ_TRP_BUN_GETMAIN	
2	HEX	1568	SZ_TRP_BUN_EXIT	
2	HEX	1569	SZ_TRP_BLO_ENTRY	
2	HEX	1570	SZ_TRP_BLO_GETMAIN	
2	HEX	1571	SZ_TRP_BLO_EXIT	
2	HEX	1572	SZ_TRP_VBN_ENTRY	
2	HEX	1573	SZ_TRP_VBN_EXIT	
2	HEX	1576	SZ_TRP_RIA_GETMAIN	
2	HEX	1577	SZ_TRP_RIA_ FREEMAIN	
2	HEX	1578	SZ_TRP_RIQ_GETMAIN	
2	HEX	1579	SZ_TRP_RIQ_FREE	
2	HEX	157A	SZ_TRP_RIF_GETMAIN	
2	HEX	157B	SZ_TRP_RIF_ FREEMAIN	
2	HEX	157C	SZ_TRP_VRI_ENTRY	
2	HEX	157D	SZ_TRP_VRI_BEFORER	
2	HEX	157E	SZ_TRP_VRI_EXIT	
2	HEX	1580	SZ_TRP_VSL_ENTRY	
2	HEX	1581	SZ_TRP_VSL_BEFORES	
2	HEX	1582	SZ_TRP_VSL_EXIT	
2	HEX	1583	SZ_TRP_RPM_ENTRY	
2	HEX	1584	SZ_TRP_RPM_EXIT	
2	HEX	1585	SZ_TRP_RST_ENTRY	
2	HEX	1586	SZ_TRP_RST_EXIT	
2	HEX	1587	SZ_TRP_RTM_ENTRY	
2	HEX	1588	SZ_TRP_RTM_EXIT	
2	HEX	1589	SZ_TRP_RFC_ENTRY	
2	HEX	158A	SZ_TRP_RFC_EXIT	
2	HEX	158B	SZ_TRP_RFC_GETMAIN	
2	HEX	158C	SZ_TRP_RFC_FREE	
2	HEX	158D	SZ_TRP_BSI_ FREEMAIN	

Table 623. (continued)

Len	Type	value	Name	Description
2	HEX	158E	SZ_TRP_BUN_ FREEMAIN	
2	HEX	158F	SZ_TRP_BST_ FREEMAIN	
2	HEX	1590	SZ_TRP_RPM_FREE	
2	HEX	1591	SZ_TRP_2OD_GETMAIN	
2	HEX	1592	SZ_TRP_RIC_FREE	
2	HEX	1593	SZ_TRP_2SB_GETMAIN	
2	HEX	1594	SZ_TRP_2SB_FREE	
2	HEX	1595	SZ_TRP_FSD_ENTRY	
2	HEX	1596	SZ_TRP_FSD_GETMAIN	
2	HEX	1597	SZ_TRP_FSD_EXIT	
2	HEX	1598	SZ_TRP_FRD_ENTRY	
2	HEX	1599	SZ_TRP_FRD_EXIT	
2	HEX	159A	SZ_TRP_BFT_ENTRY	
2	HEX	159B	SZ_TRP_BFT_GETMAIN	
2	HEX	159C	SZ_TRP_BFT_ FREEMAIN	
2	HEX	159D	SZ_TRP_BFT_EXIT	
2	HEX	159E	SZ_TRP_RPM_BADTRAN	
2	HEX	159F	SZ_TRP_BFT_STGERR	
2	HEX	15A0	SZ_TRP_BSI_STGERR1	
2	HEX	15A1	SZ_TRP_BSI_STGERR2	
2	HEX	15A2	SZ_TRP_BST_STGERR1	
2	HEX	15A3	SZ_TRP_BST_STGERR2	
2	HEX	15A4	SZ_TRP_BUN_STGERR1	
2	HEX	15A5	SZ_TRP_BUN_STGERR2	
2	HEX	15A6	SZ_TRP_PSC_FREE	
2	HEX	15A7	SZ_TRP_2SC_FREE	
2	HEX	15A8	SZ_TRP_RST_GETMAIN	
2	HEX	15A9	SZ_TRP_RIC_GETFAIL	
2	HEX	15AA	SZ_TRP_RIO_GETDAC	
2	HEX	15AB	SZ_TRP_RIO_GETTDQ	
2	HEX	15AC	SZ_TRP_RDS_GETMAIN	
2	HEX	15AD	SZ_TRP_RDN_GETMAIN	
2	HEX	15AE	SZ_TRP_RDG_GETMAIN	
2	HEX	15AF	SZ_TRP_RDT_GETMAIN	
2	HEX	15B0	SZ_TRP_POD_GETMAIN	
2	HEX	15B1	SZ_TRP_RCA_GETMAIN	

Table 623. (continued)

Len	Type	value	Name	Description
2	HEX	15B2	SZ_TRP_FSD_FREE	
2	HEX	15B3	SZ_TRP_RIW_GETMAIN	
2	HEX	15B4	SZ_TRP_POR_GETMAIN	
2	HEX	15B5	SZ_TRP_2OR_GETMAIN	
2	HEX	15B6	SZ_TRP_BCS_ENTRY	
2	HEX	15B7	SZ_TRP_BCS_EXIT	
2	HEX	15B8	SZ_TRP_BRS_ENTRY	
2	HEX	15B9	SZ_TRP_BRS_EXIT	
2	HEX	15BA	SZ_TRP_BUS_ENTRY	
2	HEX	15BB	SZ_TRP_BUS_EXIT	
2	HEX	15BC	SZ_TRP_BUS_ GET_FAIL	
2	HEX	15C0	SZ_TRP_IDX_ENTRY	
2	HEX	15C1	SZ_TRP_IDX_EXIT	
2	HEX	15C2	SZ_TRP_IDX_ GET_FAIL	
2	HEX	15C3	SZ_TRP_REQ_ENTRY	
2	HEX	15C4	SZ_TRP_REQ_EXIT	
2	HEX	15C5	SZ_TRP_2OD_BEFORED	
2	HEX	15C6	SZ_TRP_2OD_ BEFOREPD	
2	HEX	15C7	SZ_TRP_2OD_ BEFORES1	
2	HEX	15C8	SZ_TRP_2OD_ BEFORES2	
2	HEX	15C9	SZ_TRP_2OD_ BEFORES3	
---------- Message assignments... ----------				
4	DECIMAL	4001	SZ_MSG_SIP_START	
4	DECIMAL	4002	SZ_MSG_SIP_OK	
4	DECIMAL	4003	SZ_MSG_SIP_END	
4	DECIMAL	4004	SZ_MSG_SIP_ERR_SIT	
4	DECIMAL	4005	SZ_MSG_SIP_ERR_STATE	
4	DECIMAL	4006	SZ_MSG_SIP_ERR_ENQ	
4	DECIMAL	4007	SZ_MSG_SIP_ERR_SP	
4	DECIMAL	4008	SZ_MSG_SIP_ ERR_RUNAWAY	
4	DECIMAL	4009	SZ_MSG_SIP_ERR_CHP	
4	DECIMAL	4010	SZ_MSG_SIP_ERR_SWOP	

Table 623. (continued)

Len	Type	value	Name	Description
4	DECIMAL	4099	SZ_MSG_SIP_ABENDED	
4	DECIMAL	4011	SZ_MSG_ZNG_GET_FAIL	
4	DECIMAL	4012	SZ_MSG_ZAG_GET_FAIL	
4	DECIMAL	4013	SZ_MSG_ZRG_GET_FAIL	
4	DECIMAL	4014	SZ_MSG_ZFR_FREE_FAIL	
4	DECIMAL	4015	SZ_MSG_RDP_SHUT	
4	DECIMAL	4101	SZ_MSG_RII_ INS_NODE_OK	
4	DECIMAL	4102	SZ_MSG_RII_ INS_NODE_FAIL	
4	DECIMAL	4103	SZ_MSG_RDN_ DIS_NODE_OK	
4	DECIMAL	4104	SZ_MSG_RID_ DIS_NODE_SCHED	
4	DECIMAL	4105	SZ_MSG_RID_ DIS_NODE_FAIL	
4	DECIMAL	4106	SZ_MSG_RII_ INS_POOL_OK	
4	DECIMAL	4107	SZ_MSG_RII_ INS_POOL_FAIL	
4	DECIMAL	4108	SZ_MSG_RDG_ DIS_POOL_OK	
4	DECIMAL	4109	SZ_MSG_RID_ DIS_POOL_SCHED	
4	DECIMAL	4110	SZ_MSG_RID_ DIS_POOL_FAIL	
4	DECIMAL	4111	SZ_MSG_RII_ INS_TARG_OK	
4	DECIMAL	4112	SZ_MSG_RII_ INS_TARG_FAIL	
4	DECIMAL	4113	SZ_MSG_RDT_ DIS_TARG_OK	
4	DECIMAL	4114	SZ_MSG_RID_ DIS_TARG_SCHED	
4	DECIMAL	4115	SZ_MSG_RID_ DIS_TARG_FAIL	
4	DECIMAL	4116	SZ_MSG_RII_ INS_PROP_OK	
4	DECIMAL	4117	SZ_MSG_RII_ INS_PROP_FAIL	
4	DECIMAL	4118	SZ_MSG_RID_ DIS_PROP_OK	
4	DECIMAL	4119	SZ_MSG_RID_ DIS_PROP_FAIL	
4	DECIMAL	4120	SZ_MSG_RII_ ADD_NODE_OK	

Table 623. (continued)

Len	Type	value	Name	Description
4	DECIMAL	4121	SZ_MSG_RII_ ADD_NODE_FAIL	
4	DECIMAL	4122	SZ_MSG_RID_ DEL_NODE_OK	
4	DECIMAL	4123	SZ_MSG_RID_ DEL_NODE_FAIL	
4	DECIMAL	4124	SZ_MSG_RII_ ADD_TARG_OK	
4	DECIMAL	4125	SZ_MSG_RII_ ADD_TARG_FAIL	
4	DECIMAL	4126	SZ_MSG_RID_ DEL_TARG_OK	
4	DECIMAL	4127	SZ_MSG_RID_ DEL_TARG_FAIL	
4	DECIMAL	4128	SZ_MSG_RID_ DEL_POOL_FAIL	
4	DECIMAL	4151	SZ_MSG_BUN_UNSOL	
4	DECIMAL	4152	SZ_MSG_BSI_BEGSESS	
4	DECIMAL	4153	SZ_MSG_BST_STSN	
4	DECIMAL	4154	SZ_MSG_BLO_ACQ_ERROR	
4	DECIMAL	4155	SZ_MSG_BLO_ SESS_ERROR	
4	DECIMAL	4156	SZ_MSG_BFT_FREE	
4	DECIMAL	4157	SZ_MSG_BLO_ ACQ_ERRORX	
4	DECIMAL	4158	SZ_MSG_RIO_ACQ_ERROR	
4	DECIMAL	4159	SZ_MSG_RIO_ ACQ_ERRORX	
4	DECIMAL	4201	SZ_MSG_RIW_ NODE_STATE	
4	DECIMAL	4202	SZ_MSG_RIW_ POOL_STATE	
4	DECIMAL	4203	SZ_MSG_RIW_ TARG_STATE	

FEP03 VTAM ACB Work Area

```
CONTROL BLOCK NAME = DFHSZDAC
DESCRIPTIVE NAME  = CICS (FEPI) VTAM ACB Work Area

Restricted Materials of IBM

FUNCTION = Define 24-bit memory requirements for FEPI
           VTAM control blocks.
           1 control block will exist for each active
           VTAM ACB managed by FEPI. The area is released
           whenever the ACB is deactivated.
LIFETIME = Created by DFHSZRIO during INSTALL processing.
           Deleted by DFHSZRCA during node deactivation.
```

```
STORAGE CLASS = 24-bit addressable.
LOCATION = Located from the DFHSZDND which describes the
           node to which the VTAM ACB relates. The DFHSZDND
           is chained from the DFHSZDCM.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS = DFHSZDEC (Eyecatcher structure definition)
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 624.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	172	DFHSZDAC	
(0)	CHARACTER	32	SZD_AC_EYE	Eye catcher
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	ADDRESS	4	SZD_AC_PREV	Previous
(24)	ADDRESS	4	SZD_AC_NEXT	Next
(24)	BIT(32)	4	SZD_AC_CPA	CLOSE parm area
(28)	CHARACTER	12	*	ACB name
(28)	CHARACTER	1	SZD_AC_NAMEL	
(29)	CHARACTER	8	SZD_AC_NAME	
(31)	CHARACTER	3	*	
(34)	CHARACTER	12	*	ACB password
(34)	CHARACTER	1	SZD_AC_PASSL	
(35)	CHARACTER	8	SZD_AC_PASSWORD	
(3D)	CHARACTER	3	*	
(40)	CHARACTER	108	SZD_AC_ACB	Imbedded VTAM ACB

Constants

Table 625.

Len	Type	value	Name	Description
4	DECIMAL	172	DFHSZDAC_LEN	

FEP04 BIND Request Save Area

```
CONTROL BLOCK NAME = DFHSZDBI
DESCRIPTIVE NAME  = CICS (FEPI) BIND Request Save Area

Restricted Materials of IBM

FUNCTION =
     Defines the BIND Request Save Area.
     This data area is a part of the FEPI Resource Manager.
     It defines the format of the Bind Request Save Area which
     is used when a BIND is received by the SCIP exit and a
     Connection Block is not yet available.
Lifetime = Until OPNSEC can be completed
Storage class = 31-bit addressable
Location = Chained from a Node block
Inner control blocks = Not applicable
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Data Area
-------------------------------------------------------------------
EXTERNAL REFERENCES:
  DATA AREAS = None
  CONTROL BLOCKS = None
  GLOBAL VARIABLES = None
-------------------------------------------------------------------
```

Table 626.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	70	DFHSZDBI	
(0)	CHARACTER	32	SZD_BI_EYE	
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	CHARACTER	8	SZD_BI_WE	SC WE
(20)	BIT(64)	8	SZD_BI_QCB	QCB
(20)	ADDRESS	4	SZD_BI_QC	NEXT ENTRY
(24)	ADDRESS	4	*	Unused
(28)	BIT(32)	4	SZD_BI_FLAGS	
	1...		SZD_BI_DELETED	Logically deleted
	.1..		SZD_BI_REPORT	Reported
(2C)	FULLWORD	4	SZD_BI_CID	CID for the session
(30)	ADDRESS	4	SZD_BI_BINDAREA	ADDRESS OF BIND RU
(34)	FULLWORD	4	SZD_BI_BINDLTH	LENGTH OF BIND RU

Table 626. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	ADDRESS	4	SZD_BI_PARMSESS	ADDRESS OF SESSION PARMS
(3C)	HALFWORD	2	SZD_BI_I_SEQNO	CURRENT REQUESTS SEQ NBR
(3E)	CHARACTER	8	SZD_BI_ PRIMARY_LU_NAME	
				Name of Primary LU

Constants

Table 627.

Len	Type	value	Name	Description
4	DECIMAL	70	DFHSZDBI_LEN	

FEP05 Connection Descriptor

```
CONTROL BLOCK NAME = DFHSZDCD
DESCRIPTIVE NAME  = CICS (FEPI) Connection Descriptor

Restricted Materials of IBM

FUNCTION = Represents a connection to the resource manager.
           Contains all of the information and references
           needed by the resource manager to manage a network
           connection between the front-end node and the
           back-end target system.
LIFETIME = Created by DFHSZRIC during INSTALL processing.
           Deleted by DFHSZRDC during DISCARD processing.
STORAGE CLASS = 31-bit addressable.
LOCATION = Located from the DFHSZDPD which describes the
           pool to which the connection belongs. The DFHSZDPD
           is chained from the DFHSZDCM.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS = DFHSZDEC (Eyecatcher structure definition)
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 628.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	380	DFHSZDCD	
(0)	CHARACTER	32	SZD_CD_EYE	Eye catcher
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	CHARACTER	24	SZD_CD_SC_WE	SC DQE
(20)	BIT(64)	8	SZD_CD_SC_QCB	SC DQE
(20)	ADDRESS	4	SZD_CD_SC_QP	Prev Q'd element
(24)	ADDRESS	4	SZD_CD_SC_QC	Next Q'd element
(28)	FULLWORD	4	SZD_CD_SC_REQ	Request type
(2C)	BIT(32)	4	*	Request flags
	1...		*	Reserved - not avail
	.1..		*	Reserved - not avail
	..1.		SZD_CD_ON_SCQ	On the process Q
	...1		SZD_CD_ ON_SCQIRB	On the IRB process Q
	.... 1...		SZD_CD_ON_TMR	Reserved - not avail
	.... .1..		*	Reserved - not avail
NOTE End of portion that must match DFHSZDQE. The following 2 fields are identically placed in node, targets and conn's.				
(30)	HALFWORD	2	SZD_CD_TRINTVL	Timer retry interval
(32)	HALFWORD	2	SZD_CD_TRTYPE	Retry type required
(34)	FULLWORD	4	*	Unused available
These portion is used for queuing the connection to a target for REQSESS processing.				
(38)	CHARACTER	12	SZD_CD_RE_WE	RE WE
(38)	BIT(64)	8	SZD_CD_RE_QCB	RE QCB
(38)	ADDRESS	4	SZD_CD_RE_QC	Next entry
(3C)	ADDRESS	4	*	Unused
(40)	FULLWORD	4	SZD_CD_RE_REQ	Request type

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Connection control flags This word (SZD_CD_FLAGS_ALLOC) is tested for zero. A value of zero indicates that the connection is OK to be allocated. Therefore, all flags in this word must be such that one makes the connection unavailable for use.				
(44)	BIT(32)	4	SZD_CD_ FLAGS_ALLOC	
(44)	BIT(8)	1	SZD_CD_ FLAGS_ALLOC1	
				Data Traffic Reset
	1...		SZD_CD_DTR	Data Traffic Reset
	.111 111.		*	Unused available @BA70191C
	1		SZD_CD_TERM_Q	TERMQ flag @BA70191A
(45)	BIT(8)	1	SZD_CD_ FLAGS_ALLOC2	
	1...		SZD_CD_LOST	Session lost
	.1..		SZD_CD_LOFF	Session failed drop it
	..1.		SZD_CD_SHUTD	SHUTD Received
	...1		SZD_CD_TERM_U	Termination requested Unconditionally
	.... 1...		SZD_CD_TERM_C	Termination requested Conditionally
	.... .1..		SZD_CD_QEC	QEC Received
	.... ..1.		SZD_CD_ DRAINING	Draining session
	1		SZD_CD_ PEND_MORNING	
				Good Morning pending
(46)	BIT(8)	1	SZD_CD_ FLAGS_ALLOC3	
	1...		SZD_CD_ALLOC	Connection in use
	.1..		SZD_CD_ POS_DRAINING	
				+ve draining @BA59262C
	..11 1111		*	Unused @BA59262A

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(47)	BIT(8)	1	SZD_CD_ FLAGS_ALLOC4	
(47)	BIT(8)	1	*	unused - available
(48)	BIT(8)	1	SZD_CD_FLAGS_SC1	
	1...		SZD_CD_QC	QC Sent
	.1..		SZD_CD_RELQ	RELQ Received
	..1.		SZD_CD_INB	IN BRACKET
	...1		SZD_CD_CD_SENT	CD Sent
	.... 1...		SZD_CD_MIC	First in chain sent
	.... .1..		SZD_CD_SDTR	SDT Received
	.... ..1.		SZD_CD_PEND_EB	Pending EB
	1		SZD_CD_ AWAITING_RESPONSE	
				API Receive posted
(49)	BIT(8)	1	SZD_CD_FLAGS_SC2	
	1...		SZD_CD_ RCVD_MORNING	
				Good Morning Received
	.1..		SZD_CD_ BID_PURGE	BID PURGE
5 BIT(7), DELETED BY APAR @BA47631				
	..11 1111		*	UNUSED - AVAIL
(4A)	BIT(8)	1	SZD_CD_FLAGS_SS1	Session state
	1...		SZD_CD_CLEARR	CLEAR Received Presentation space lost if LU2
	.1..		SZD_CD_CLEARRE	CLEAR reported
	..1.		SZD_CD_SIP	SEND in progress
	...1		*	unused available
	.... 1...		SZD_CD_SHUTC	SHUTC Sent
	.... .1..		SZD_CD_UNBINDR	UNBIND Received
	.... ..1.		SZD_CD_NSEXITR	NSEXIT Scheduled
	1		SZD_CD_LOSTR	Failure reported
(4B)	BIT(8)	1	SZD_CD_FLAGS_SS2	Session state
	1...		SZD_CD_OPNSEC	OPNSEC ISSUED

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		SZD_CD_ OPNSEC_OK	OPNSEC Accepted
	..1.		SZD_CD_ OPNSEC_REJ	OPNSEC REJECTED
	...1		*	unused available
	.... 1...		SZD_CD_STSN	STSN PROCESSED
	.... .1..		SZD_CD_STSN_OK	STSN Response Accepted
	.... ..1.		SZD_CD_ STSN_SCHED	STSN Transaction Start
	1		SZD_CD_STSNR	STSN Received
(4C)	BIT(8)	1	SZD_CD_FLAGS_SS3	Session state
	1...		SZD_CD_SDT_OK	SDT Response Accepted
	.1..		SZD_CD_SDT_REQ	SDT Response Initiated
	..1.		SZD_CD_ BSX_SCHED	Beginsession exit sched
	...1		SZD_CD_ UDX_SCHED	Unsol. data exit sched
	.... 1...		SZD_CD_REQ	REQSESS ISSUED
	.... .1..		SZD_CD_REQD	REQSESS Accepted
	.... ..1.		SZD_CD_ FSX_SCHED	FREE exit scheduled
	1		*	Unused
(4D)	1111		SZD_CD_FLAGS_PP1	Property flags
	1...		SZD_CD_XCPTN_X	Exception xactn exists
	.1..		SZD_CD_STSN_X	STSN xactn exists
	..1.		SZD_CD_SIGNONSX	SIGNON xactn exists
	...1		SZD_CD_UNSOLDUX	Unsolictd xactn exists
	 1111		SZD_CD_FLAGS_FR1	FREE processing flags
	.... 1...		SZD_CD_FREEQD	API FREE requested
	.... .1..		SZD_CD_FREEF	FREE force
	.... ..1.		SZD_CD_FREER	FREE release
	1		SZD_CD_AGATE	API queuing gate

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4E)	BIT(8)	1	SZD_CD_ FLAGS_TTD1	
	1...		SZD_CD_ USX_SCHED	Unbind xaction sched'd
	.1..		SZD_CD_ SDX_SCHED	Start data xaction schd
	..1.		SZD_CD_ON_REQ	ON THE REQSESS Q
	...1		SZD_CD_ ON_REQIRB	ON THE REQSESS Q
	.... 1...		SZD_CD_BINDR	BIND Received
	.... .1..		SZD_CD_PENDTR	Xaction pending
	.... ..1.		SZD_CD_DATAR	REC(ANY) Data Received
	1		SZD_CD_RESPR	REC(ANY) RESP Received
(4F)	BIT(8)	1	SZD_CD_ FLAGS_TTD2	Misc flags @BA83689C
	1...		SZD_CD_NDCLOSE	Node is closing
	.1..		SZD_CD_ API_QUEUED	API request queued
	..1.		SZD_CD_ GOOD_MORNING	Good Morning expected
	...1		SZD_CD_LOSE	Lose contention
	.... 1...		SZD_CD_FREE_X	Free exit supplied
	.... .1..		SZD_CD_UDFLAG	Unsol tracking
	.... ..1.		SZD_CD_URFLAG	Unsol tracking
	1		SZD_CD_DYNAM	Dynamic session
These flags allow DFHSZRDC to determine what additional cleanup may be required when this connection is removed. Each flag identifies a parent node whose deletion is pending the removal of all of the connections to which it relates. CONN is always set if a connection is being deleted. One or all of the other bits may be set.				
(50)	BIT(8)	1	SZD_CD_DREASON	Discard reason codes
	1...		SZD_CD_DEL_CONN	Connection deleted
	.1..		SZD_CD_DEL_NODE	NODE discarded
	..1.		SZD_CD_DEL_POOL	Pool discarded
	...1		SZD_CD_ DEL_TARGET	Target discarded
	 1111		*	Unused available

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(51)	BIT(8)	1	SZD_CD_MISC	Miscellaneous flags
	1...		SZD_CD_EXREQ	External BIND requested
	.1..		SZD_CD_ ALLOC_INC	CD is allocated
	..11 1111		*	Unused available
(52)	BIT(16)	2	*	Unused available
Connection information				
(54)	ADDRESS	4	SZD_CD_DATA_DRA	Data Receive DRA
(58)	ADDRESS	4	SZD_CD_RESP_DRA	Resp Receive DRA
(5C)	ADDRESS	4	SZD_CD_BINDAREA	Address of BIND RU
(60)	ADDRESS	4	SZD_CD_API_QE	API QE pointer
(64)	ADDRESS	4	SZD_CD_PARMSESS	Address of session parms
(68)	FULLWORD	4	SZD_CD_CID	CID for the session
(6C)	FULLWORD	4	SZD_CD_BINDLTH	LENGTH OF BIND RU
(70)	FULLWORD	4	SZD_CD_ EVENTVALUE	EVENTVALUE for lost Session
(74)	HALFWORD	2	SZD_CD_DEVICE	Device type token
(76)	UNSIGNED	2	SZD_CD_IBSQVAL	Inbound sequence nbr
(78)	UNSIGNED	2	SZD_CD_OBSQVAL	Outbound sequence nbr
(7A)	BIT(8)	1	SZD_CD_IBSQAC	Inbound SET/TESTSET
(7B)	BIT(8)	1	SZD_CD_OBSQAC	Outbound SET/TESTSET
(7C)	UNSIGNED	2	SZD_CD_I_SEQNO	Current requests seq nbr
(7E)	UNSIGNED	2	SZD_CD_O_SEQNO	Latest Hostbound seq nbr
(80)	UNSIGNED	2	SZD_CD_RETCODE	Return code from Receive CHECK processing
(82)	HALFWORD	2	SZD_CD_ UNBIND_LTH	UNBIND code length

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)	HALFWORD	2	SZD_CD_ NSEXIT_LTH	NSEXIT code length
(86)	HALFWORD	2	*	padding
(88)	CHARACTER	4	SZD_CD_ UNBIND_CODE	UNBIND code
(8C)	CHARACTER	32	SZD_CD_ NSEXIT_CODE	NSEXIT code
(AC)	CHARACTER	8	SZD_CD_LOGMODE	LOGMODE name
(B4)	CHARACTER	4	SZD_CD_TDQ	TDQ name
(B8)	CHARACTER	4	SZD_CD_ SIGNON_TRAN	SIGNON xactn name
(BC)	CHARACTER	4	SZD_CD_STSN_TRAN	STSN xactn name
(C0)	CHARACTER	4	SZD_CD_ UNSOL_TRAN	Unsolicited data xactn
Configuration control information. A connection exists on three lists: (1) NEXT/PREV chain the connection to the pool which owns it (2) NDNEXT/NDPREV chains it to the node on which it depends (3) TDNEXT/TDPREV chains it to the target on which it depends				
(C4)	CHARACTER	160	SZD_CD_API	
(C4)	ADDRESS	4	SZD_CD_PREV	DPD chain area
(C8)	ADDRESS	4	SZD_CD_NEXT	
(CC)	ADDRESS	4	SZD_CD_NDPREV	DND chain area
(D0)	ADDRESS	4	SZD_CD_NDNEXT	
(D4)	ADDRESS	4	SZD_CD_TDPREV	DTD chain area
(D8)	ADDRESS	4	SZD_CD_TDNEXT	
(DC)	ADDRESS	4	SZD_CD_PDPTR	associated DPD
(E0)	ADDRESS	4	SZD_CD_TDPTR	associated DTD
(E4)	ADDRESS	4	SZD_CD_NDPTR	associated DND
(E8)	ADDRESS	4	SZD_CD_CVPTR	associated DCV
(EC)	HALFWORD	2	SZD_CD_ SERVSTATUS	Service status
(EE)	HALFWORD	2	SZD_CD_ ACQSTATUS	Network status actual
(F0)	HALFWORD	2	SZD_CD_ DESSTATUS	Network status desired
(F2)	HALFWORD	2	SZD_CD_ INSTSTATUS	Installation status
(F4)	HALFWORD	2	SZD_CD_ SESSSTATUS	Session status
(F6)	HALFWORD	2	*	Unused available
(F8)	FULLWORD	4	SZD_CD_CURRENT	Usage counter

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(FC)	FULLWORD	4	SZD_CD_USAGE	Usage counter
(100)	ADDRESS	4	SZD_CD_DSPTR	Fmt extension
(104)	ADDRESS	4	SZD_CD_DCPREV	Dump chain
(108)	ADDRESS	4	SZD_CD_DCNEXT	Dump chain
(10C)	CHARACTER	4	SZD_CD_ FREE_TRAN	FREE exit
(110)	FULLWORD	4	SZD_CD_USENSE	User sense
(114)	FULLWORD	4	SZD_CD_SSENSE	System Sense
(118)	ADDRESS	4	SZD_CD_RDPTR	Buffer address
(11C)	FULLWORD	4	SZD_CD_RDLEN	Buffer length
(120)	FULLWORD	4	SZD_CD_RCOUNT	Retry count
(124)	CHARACTER	64	SZD_CD_UDATA	User data
Statistics counters				
(164)	FULLWORD	4	SZD_CD_SENT	# characters sent on connection
(168)	FULLWORD	4	SZD_CD_RECEIVED	# characters received on connection
(16C)	FULLWORD	4	SZD_CD_ UNSOLICITEDINPUTS	
				# unsolicited inputs on connection
(170)	FULLWORD	4	SZD_CD_ RECEIVETIMEOUTS	
				# RECEIVEs that timed out
(174)	FULLWORD	4	SZD_CD_ERRORS	# Error conditions
(178)	FULLWORD	4	SZD_CD_END	Structure end *

Constants

Table 629.

Len	Type	value	Name	Description
4	DECIMAL	380	DFHSZDCD_LEN	

FEP08 Device Support Extension

```
CONTROL BLOCK NAME = DFHSZDDS
DESCRIPTIVE NAME  = CICS (FEPI) Device Support Extension

Restricted Materials of IBM

FUNCTION = Contains device specific information associated
           with a particular connection. 1 DFHSZDDS exists
           for each defined DFHSZDCD within a pool designated
```

```
           as being in formatted mode.
 LIFETIME = Created by DFHSZRIC during INSTALL processing.
           Deleted by DFHSZRDC during DISCARD processing.
 STORAGE CLASS = 31-bit addressable.
 LOCATION = Located from the DFHSZDCD which describes the
           connection to which this extension relates. The
           DCD may be located from the DFHSZDPD which owns
           the connection.
 INNER CONTROL BLOCKS =
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
   CONTROL BLOCKS = DFHSZDEC (Eyecatcher structure definition)
   GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 630.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	248	DFHSZDDS	
(0)	CHARACTER	32	SZD_DS_EYE	eye catcher
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	ADDRESS	4	SZD_DS_PREV	previous element
(24)	ADDRESS	4	SZD_DS_NEXT	next element
(28)	FULLWORD	4	SZD_DS_TYPE	next element
(2C)	BIT(32)	4	SZD_DS_FLAGS	next element
End of portion that must match DFHSZDQE P1GPTR is also the base address of the area whose length is contained in DLENGTH. This is the address used to release storage if the connection is discarded. P1APTR thru P1CPTR are the base addresses of the various attribute planes needed to support 3270. The storage for all of the planes is obtained at BIND time. P1CPTR is only allocated if one of the 3279 device-types was specified. P1X, P1S and P1V are only allocated if the EDS flag is set in the LU profile at BIND time. This allows for a storage efficient operating mode of non-EDS monochrome.				
(30)	ADDRESS	4	SZD_DS_P1GPTR	graphic plane pointer
(34)	ADDRESS	4	SZD_DS_P1APTR	attribute plane
(38)	ADDRESS	4	SZD_DS_P1XPTR	ext. hilite plane
(3C)	ADDRESS	4	SZD_DS_P1SPTR	Char. selection plane

Table 630. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	ADDRESS	4	SZD_DS_P1VPTR	xparency/ validation
(44)	ADDRESS	4	SZD_DS_P1CPTR	Colour plane
CCP is the current cursor position. It is affected by inbound datastream and by API keystroke or image data.				
(48)	FULLWORD	4	SZD_DS_CCP	current cursor pos.
CBA provides a common index value into all of the data planes identified above. It represents the 3270's perception of where buffer activity will take place.				
(4C)	FULLWORD	4	SZD_DS_CBA	current buffer address
(50)	FULLWORD	4	SZD_DS_TBA	temp. buffer address
(54)	FULLWORD	4	SZD_DS_DBA	dest. buffer address
(58)	FULLWORD	4	SZD_DS_SENSE	last sense code
(5C)	ADDRESS	4	SZD_DS_CDPTR	connection address
(60)	FULLWORD	4	SZD_DS_DLENGTH	dynamic area size
(64)	FULLWORD	4	SZD_DS_KINDEX	keystroke bfr index
(68)	FULLWORD	4	SZD_DS_LA	last attribute index
(6C)	FULLWORD	4	SZD_DS_IDPTR	input data index
(70)	FULLWORD	4	SZD_DS_MDPTR	modified data index
(74)	ADDRESS	4	SZD_DS_IDATA	input data address
(78)	FULLWORD	4	SZD_DS_IDLEN	input data length
(7C)	FULLWORD	4	SZD_DS_CHAIN	chain save area
Implicit partition (00) dimension information PSIZE is calculated at BIND time and is used to determine the amount of dynamic storage required and to detect wraparound during buffer processing. It is recalculated each time the session is bound or an ERASE/WRITE is received. Default default and alternate sizes are set based upon the device-type value provided in the pool. When the BIND is received, the BIND values override. The BIND also determines whether or not the device can switch between default and alternate.				
(80)	FULLWORD	4	SZD_DS_PSIZE	plane size
(84)	BIT(8)	1	SZD_DS_PSX	PS width (current)
(85)	BIT(8)	1	SZD_DS_PSY	PS depth -do-
(86)	BIT(8)	1	SZD_DS_PSXDEF	PS width (default)

Table 630. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(87)	BIT(8)	1	SZD_DS_PSYDEF	PS depth -do-
(88)	BIT(8)	1	SZD_DS_PSXALT	PS width (alternate)
(89)	BIT(8)	1	SZD_DS_PSYALT	PS depth -do-
(8A)	BIT(8)	1	*	reserved not available
(8B)	BIT(8)	1	*	reserved -do-
Note that the following byte is reset to zero whenever a BIND is processed.				
(8C)	BIT(8)	1	SZD_DS_CONTROL	PS control flags
	1...		SZD_DS_GATE	API queue gate flag
	.1..		SZD_DS_INOP	inbound operation
	..1.		SZD_DS_TWAIT	input inhibit flag
	...1		SZD_DS_SLOCK	system lock
	.... 1...		SZD_DS_ALARM	alarm has sounded
	.... .1..		SZD_DS_KLOCK	keyboard is locked
	.... ..1.		SZD_DS_MDR	modified data ready
	1		SZD_DS_IFLAG	pending input
(8D)	BIT(8)	1	SZD_DS_FLAG3	more flags
	1...		SZD_DS_L1PROT	prot stat (loc(0))
	.1..		SZD_DS_CPPROT	prot stat (CCP)
	..1.		SZD_DS_AFLAG	formatted flag
	...1		SZD_DS_INS	insert flag
	.... 1...		SZD_DS_POST	SEND POST memory
	.... .1..		SZD_DS_RMT	attention type
	.... ..1.		SZD_DS_PBB	Pending begin-bracket
	1		SZD_DS_PSI	PSpace invalid
Datastream sequencing control flags. Due to the nature of buffering, the 3270 can never assume that all of the bytes associated with an attribute, order or structured field are present, it must assume that each byte could be its last. These flags are used to monitor the present condition of the outbound datastream.				
(8E)	BIT(8)	1	SZD_DS_SEQ1	PS control flags
	1...		SZD_DS_SB	SBA order received
	.1..		SZD_DS_SA	SA order received

Table 630. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		SZD_DS_RA	RA detected
	...1		SZD_DS_GE	graphic escape detect
	.... 1...		SZD_DS_SF	SF order received
	.... .1..		SZD_DS_EU	EUA order received
	.... ..1.		SZD_DS_MF	modify field
	1		SZD_DS_SE	Start field extended
(8F)	BIT(8)	1	SZD_DS_SEQ2	
	1...		SZD_DS_RA1	RA 1st byte
	.1..		SZD_DS_SB1	SBA 1st address stored
	..1.		SZD_DS_RA2	RA 2nd byte
	...1		SZD_DS_CMD	cmd/order processed
	.... 1...		SZD_DS_EU1	EUA addr byte 1 stored
	.... .1..		SZD_DS_SENDREQ	SEND requested
	.... ..1.		SZD_DS_WSFREQ	Query Reply required
	1		SZD_DS_WSFIP	WSF in progress
CC is the 3270 IO command code currently being processed, ie WRITE, READ MODIFIED etc. WC is the currently-in-effect WCC byte. For outbound 3270DS structured fields, these values may change several times within a single transmission. AID is the last inbound attention-identifier. This is reset when activity causes the 3270 to exit the inbound-pending state. Currently, a PID of 00 is mandatory. The BFLAG field is the capability byte of the LU profile (from the BIND). It is stored at OPNSEC time.				
(90)	BIT(8)	1	SZD_DS_CC	last IO command code
(91)	BIT(8)	1	SZD_DS_WC	last write control
	1...		*	reserved
	.1..		SZD_DS_WC_RESET	reset control
	..1.		SZD_DS_WC_P1	printer
	...1		SZD_DS_WC_P2	control
	.... 1...		SZD_DS_WC_SP	start print
	.... .1..		SZD_DS_WC_ALARM	sound the alarm
	.... ..1.		SZD_DS_WC_KENA	enable the keyboard
	1		SZD_DS_WC_RMDT	reset MDT flags

Table 630. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(92)	BIT(8)	1	SZD_DS_AID	current attention ID
(93)	BIT(8)	1	SZD_DS_INPID	inbound partition ##
(94)	BIT(8)	1	SZD_DS_CCBYTE	current colour info
	1111		SZD_DS_CBG	
	 1111		SZD_DS_CFG	
(95)	BIT(8)	1	SZD_DS_CXBYTE	current ext, highlight
	1111		SZD_DS_CXP	
	 1111		SZD_DS_CXA	
(96)	BIT(8)	1	SZD_DS_CSBYTE	current characer set
(97)	BIT(8)	1	SZD_DS_CVBYTE	current validation
	1111		SZD_DS_CFV	
	 1111		SZD_DS_CFO	
(98)	BIT(8)	1	SZD_DS_DCBYTE	default colour info
	1111		SZD_DS_DBG	
	 1111		SZD_DS_DFG	
(99)	BIT(8)	1	SZD_DS_DXBYTE	default ext, highlight
	1111		SZD_DS_DXP	
	 1111		SZD_DS_DXA	
(9A)	BIT(8)	1	SZD_DS_DSBYTE	default characer set
(9B)	BIT(8)	1	SZD_DS_DVBYTE	default validation
	1111		SZD_DS_DFV	
	 1111		SZD_DS_DFO	
(9C)	BIT(8)	1	SZD_DS_ATLIM	max PA count
(9D)	BIT(8)	1	SZD_DS_PFLIM	max PF count
(9E)	BIT(8)	1	SZD_DS_DABYTE	default attribute
(9F)	BIT(8)	1	SZD_DS_WSFCC	SF command byte
Device level control information				
(A0)	BIT(8)	1	SZD_DS_BFLAG	BIND EDS byte
	1...		SZD_DS_EDS	EDS indicator
	.1..		SZD_DS_NFIP	NULL fill in progress

Table 630. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A1)	BIT(8)	1	SZD_DS_SAT	SA order attrib. type
(A2)	BIT(16)	2	SZD_DS_SFLEN	structured field length
(A2)	BIT(8)	1	SZD_DS_SFLEN1	structured field length
(A3)	BIT(8)	1	SZD_DS_SFLEN2	
(A4)	BIT(8)	1	SZD_DS_SFID	SF id byte
(A5)	BIT(8)	1	SZD_DS_SFID2	second structure ID
(A6)	BIT(8)	1	SZD_DS_SFPID	partition ID
(A7)	BIT(8)	1	SZD_DS_SFTYPE	SF type byte
Device related SF data area				
(A8)	CHARACTER	68	SZD_DS_SFDATA	structured field info
(A8)	BIT(16)	2	SZD_DS_QLEN	QUERY REPLY length
(AA)	BIT(8)	1	SZD_DS_QID	QUERY REPLY ID byte
(AB)	BIT(8)	1	SZD_DS_QCODE	QUERY REPLY code byte
(AC)	AREA	64	SZD_DS_QDATA	QUERY REPLY data area
(AC)	BIT(8)	1	SZD_DS_TB1	temp. buffer address
(AD)	BIT(8)	1	SZD_DS_TB2	temp. buffer address
(AE)	BIT(8)	1	SZD_DS_SEC	attribute counter
(AF)	BIT(8)	1	SZD_DS_SET	attribute type
(EC)	BIT(8)	1	SZD_DS_DFLAGS	Device flags
	1...		SZD_DS_COLOUR	colour is supported
	.1..		SZD_DS_TPS	TPS device
	..1.		SZD_DS_SFL1	SF length byte flag
	...1		SZD_DS_SFL2	SF length byte flag
	.... 1...		SZD_DS_DFLEN	Default length flag
	.... .1..		SZD_DS_RIP	RECEIVE in progress
	.... ..1.		SZD_DS_ERI	Erase required
	1		SZD_DS_MSIP	mag stripe current

Table 630. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(ED)	BIT(8)	1	SZD_DS_QP_FLAG1	Query partition flags
	1...		SZD_DS_QP_CHAR	Character sets
	.1..		SZD_DS_QP_ASIA	DBCS Asia
	..1.		SZD_DS_QP_IMPA	Implicit partition
	...1		SZD_DS_QP_USEA	Usable area
	.... 1...		SZD_DS_QP_SUMM	Summary
(EE)	BIT(8)	1	SZD_DS_QP_FLAG2	Query partition flags
	1...		SZD_DS_QP_TRAN	Transparency
	.1..		SZD_DS_QP_ALPHA	Alphanumeric part.
	..1.		SZD_DS_QP_COLOR	Color
	...1		SZD_DS_QP_OUTL	Outlining
	.... 1...		SZD_DS_QP_VALI	Validation
	.... .1..		SZD_DS_QP_HILI	Highlighting
(EF)	BIT(8)	1	*	
	1...		SZD_DS_SFPIDX	PID memory flag
(F0)	FULLWORD	4	SZD_DS_RDPTR	Received data index
(F4)	FULLWORD	4	SZD_DS_END	

Table 631.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	ABYTE	field attribute byte
	1...		*	
	.1..		*	
	..1.		SZD_DS_PROT	protected field flag
	...1		SZD_DS_NUM	alphanumeric flag
	.... 1...		SZD_DS_DS1	display/selector pen
	.... .1..		SZD_DS_DS2	control bits
	.... ..1.		*	
	1		SZD_DS_MDT	modified data tag

Table 632.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	CBYTE	colour select buffer
	1111		SZD_DS_BG	background
	 1111		SZD_DS_FG	foreground

Table 633.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	XBYTE	extended highlighting
	1111		SZD_DS_XP	transparency control
	 1111		SZD_DS_XA	highlight value mask

Table 634.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	VBYTE	validation/ outlining
	1111		SZD_DS_FV	validation mask
	 1111		SZD_DS_FO	outline mask

Constants

Table 635.

Len	Type	value	Name	Description
4	DECIMAL	248	DFHSZDDS_LEN	

FEP06 Common Data Area

```
CONTROL BLOCK NAME = DFHSZDCM
DESCRIPTIVE NAME  = CICS (FEPI) Common data area

Restricted Materials of IBM

FUNCTION = Base FEPI resource manager data area from which
           all other FEPI data areas may be located. Also
           contains all globally referenced single instance
           data areas. There is one DFHSZDCM.
LIFETIME = Obtained by DFHSZSIP during resource manager
           initialisation. Released by DFHSZSIP during
           resource manager termination.
STORAGE CLASS = 31-bit RW
LOCATION = Addressed by DFHSZSDS static area structure.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
```

```
CONTROL BLOCKS = DFHSZDEC
GLOBAL VARIABLES (Macro pass) =
-----------------------------------------------------------------
```

Table 636.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	432	DFHSZDCM	
(0)	CHARACTER	32	SZD_CM_EYE	Eye catcher
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
Dispatcher work Q anchors (1)				
(20)	BIT(32)	4	SZD_CM_SC_QCB	TRB normal reqs
(20)	ADDRESS	4	SZD_CM_SC_QC	External anchor
(24)	ADDRESS	4	SZD_CM_SC_SYS	Internal anchor
(28)	BIT(32)	4	SZD_CM_SC_QCBT	TRB timed reqs
(28)	ADDRESS	4	SZD_CM_SC_QCT	External anchor
(2C)	ADDRESS	4	SZD_CM_SC_SYST	Internal anchor
(30)	BIT(32)	4	SZD_CM_ SC_QCBIRBT	IRB timed reqs
(30)	ADDRESS	4	SZD_CM_ SC_QCIRBT	External anchor
(34)	ADDRESS	4	SZD_CM_ SC_SYSIRBT	Internal anchor
(38)	BIT(32)	4	SZD_CM_SC_QCBIRB	IRB normal reqs
(38)	ADDRESS	4	SZD_CM_SC_QCIRB	External anchor
(3C)	ADDRESS	4	SZD_CM_SC_SYSIRB	Internal anchor
(40)	BIT(32)	4	SZD_CM_ SC_QCBTPEND8	
				IRB TPEND8 reqs
(40)	ADDRESS	4	SZD_CM_ SC_QCTPEND8	
				External anchor
(44)	ADDRESS	4	SZD_CM_ SC_SYSTPEND8	
				Internal anchor
VTAM IRB request work areas				
(48)	BIT(32)	4	SZD_CM_FREE_QCB	Free RB queue
(48)	ADDRESS	4	SZD_CM_ FREE_QUEUE	FIRST ENTRY

Table 636. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	ADDRESS	4	SZD_CM_IRBSAVE	IRB LIFO stack area
(50)	ADDRESS	4	SZD_CM_RPL_MASK	Standard RPL mask address
(54)	ADDRESS	4	SZD_CM_ OPNSEC_MASK	OPNSEC mask address
(58)	ADDRESS	4	SZD_CM_ RECANY_MASK	RECEIVE(ANY) mask address
(5C)	ADDRESS	4	SZD_CM_NIB_MASK	SNIB mask address
Resource manager miscellaneous				
(60)	ADDRESS	4	SZD_CM_LIFO	RM LIFO stack base
(64)	ADDRESS	4	SZD_CM_ ACTIVE_CVLIST	
				Active conversations
(68)	ADDRESS	4	SZD_CM_ INACTIVE_CVLIST	
				Inactive conversations
(6C)	ADDRESS	4	SZD_CM_NDLIST	System node list
(70)	ADDRESS	4	SZD_CM_TDLIST	System target list
(74)	ADDRESS	4	SZD_CM_PDLIST	System pool list
(78)	ADDRESS	4	SZD_CM_PSLIST	Property set list
(7C)	ADDRESS	4	SZD_CM_CQE	Current DQE
(80)	ADDRESS	4	SZD_CM_TQE	Terminate DQE
(84)	ADDRESS	4	SZD_CM_SDS	Static area address
(88)	ADDRESS	4	SZD_CM_EXLST	VTAM EXLST address
(8C)	ADDRESS	4	SZD_CM_ACBTEMP	OPEN work queue
(90)	HALFWORD	2	SZD_CM_DSTAT	Dispatcher status
(92)	BIT(16)	2	SZD_CM_FLAGS	
	1...		SZD_CM_SCHEDPTRQ	PTRQ/IC trigger
	.1..		SZD_CM_SCHEDTRQA	Recovery trigger
	..1.		SZD_CM_STIMFAIL	STIMERM fail@BA72241A
(94)	FULLWORD	4	SZD_CM_WAITK	Disp. WAIT counter
(98)	FULLWORD	4	SZD_CM_RASIZE	REC(ANY) buffer size
(9C)	ADDRESS	4	SZD_CM_BCLIST	BROWSE list anchor

Table 636. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	ADDRESS	4	SZD_CM_TOLIST	Timed request anchor
(A4)	FULLWORD	4	SZD_CM_TICK	Timer tick
(A8)	FULLWORD	4	SZD_CM_DISPK	Dispatch counter
(AC)	FULLWORD	4	SZD_CM_DDLIST	Deferred discard q
CICS environment save area				
(B0)	ADDRESS	4	SZD_KESTACK_SAVE	CICS stack pointer
(B4)	ADDRESS	4	SZD_TCA_SAVE	CICS TCA address
(B8)	CHARACTER	64	SZD_REGS_SAVE	CICS registers
Dispatcher ECB list for DSSRWAIT				
(F8)	CHARACTER	88	SZD_CM_QECBLIST	
(F8)	ADDRESS	4	SZD_CM_EQPTR	Expedited Q ECB address
(FC)	ADDRESS	4	SZD_CM_XQPTR	Unused Q ECB address
(100)	ADDRESS	4	SZD_CM_CQPTR	Unused Q ECB address
(104)	ADDRESS	4	SZD_CM_IQPTR	API inbound Q ECB address
(108)	ADDRESS	4	SZD_CM_ SC_PTRIRB	IRB normal ECB address
(10C)	ADDRESS	4	SZD_CM_ SC_PTRIRBT	IRB timer ECB address
(110)	ADDRESS	4	SZD_CM_ SC_PTRTPEND8	
				IRB TPEND8 ECB address
Dispatcher work queue ECBs				
(114)	BIT(32)	4	SZD_CM_EQECB	
(118)	BIT(32)	4	SZD_CM_XQECB	
(11C)	BIT(32)	4	SZD_CM_CQECB	
(120)	BIT(32)	4	SZD_CM_IQECB	
(124)	ADDRESS	4	SZD_CM_ SC_ECBIRB	
(128)	ADDRESS	4	SZD_CM_ SC_ECBIRBT	
(12C)	ADDRESS	4	SZD_CM_ SC_ECBTPEND8	
Dispatcher work q anchors (2)				
(130)	ADDRESS	4	SZD_CM_EQHEAD	Expedited requests

Table 636. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(134)	ADDRESS	4	SZD_CM_EQSYS	
(138)	ADDRESS	4	SZD_CM_XQHEAD	TDQ/START request Q
(13C)	ADDRESS	4	SZD_CM_XQSYS	
(140)	ADDRESS	4	SZD_CM_CQHEAD	Unused
(144)	ADDRESS	4	SZD_CM_CQSYS	
(148)	ADDRESS	4	SZD_CM_IQHEAD	API PRB queue header
(14C)	ADDRESS	4	SZD_CM_IQSYS	
	STIMERM work area			
(150)	CHARACTER	60	SZD_CM_ STIMERM_PARMS	
(150)	FULLWORD	4	SZD_CM_STFLAGS	STIMER flags
(154)	ADDRESS	4	SZD_CM_TICKIDA	Timer ID adress
(158)	ADDRESS	4	SZD_CM_TICKPTR	Timer tick len ptr
(15C)	ADDRESS	4	SZD_CM_STEXIT	Timer exit address
(160)	ADDRESS	4	SZD_CM_STPARM	Timer parm address
(164)	UNSIGNED	4	*	Padding
(168)	FULLWORD	4	SZD_CM_TICKLEN	Timer tick length
(16C)	FULLWORD	4	SZD_CM_TICKID	Timer ID value
	TDQ/STQ batch queue anchor			
(170)	FULLWORD	4	SZD_CM_DCQLIST	TD and IC queue
	Timed retry work area			
(174)	HALFWORD	2	SZD_CM_RETRY	Retry delay
(176)	HALFWORD	2	SZD_CM_RETRYK	Retry origin
(178)	ADDRESS	4	SZD_CM_TQALIST	Timed recovery Q
	Connection list for dump formatting			
(17C)	ADDRESS	4	SZD_CM_CDLIST	Dump conn. list
	LIFO size constants for dump formatting			
(180)	FULLWORD	4	SZD_CM_IRBLEN	IRB LIFO length
(184)	FULLWORD	4	SZD_CM_LIFOLEN	PRB LIFO length
	VTAM ACB/RPL exit footprints			
(188)	BIT(32)	4	SZD_CM_EXITMSK	IRB exit mask
	1...		SZD_CM_XTP	TPEND
	.1..		SZD_CM_XNS	NSEXIT
	..1.		SZD_CM_XSC	SCIP
	...1		SZD_CM_XLT	LOSTTERM

Table 636. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		SZD_CM_XRA	RECEIVE any
	.... .1..		SZD_CM_XFR	Common RPL
	.... ..1.		SZD_CM_XDA	DFASY
	1		SZD_CM_WSL	SETLOGON RPL
(189)	1...		SZD_CM_2IX	SEND RPL (LU2)
	.1..		SZD_CM_2DX	LU 2 Drain RPL
	..1.		SZD_CM_2OX	LU 2 REC(SPEC)
	...1		SZD_CM_2QX	LU 2 REQSESS RPL
	.... 1...		SZD_CM_2SX	LU 2 OPNSEC
	.... .1..		SZD_CM_2PX	LU 2 +ve drain @BA59262C
	.... ..1.		*	unused - available
	1		*	unused - available
(18A)	1...		SZD_CM_PIX	SEND RPL (LUP)
	.1..		SZD_CM_PDX	LU P Drain RPL
	..1.		SZD_CM_POX	LU P REC(SPEC)
	...1		SZD_CM_PQX	LU P REQSESS
	.... 1...		SZD_CM_PSX	LU P OPNSEC
	.... .1..		*	unused - available
	.... ..1.		*	unused - available
	1		*	unused - available
(18B)	1...		SZD_CM_YQR	REQSESS Queuer
	.1..		SZD_CM_YRI	R(A) issuer
	..1.		SZD_CM_YSC	Unsol. BIND handlr
	...1		SZD_CM_YSR	R(A) feedback int.
	.... 1...		SZD_CM_YSY	IRB feedback int.
	.... .1..		*	unused - available
	.... ..1.		*	unused - available
	1		*	unused - available
CONVID generation area				

Table 636. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18C)	FULLWORD	4	SZD_CM_CVID	CONVID memory
(190)	FULLWORD	4	SZD_CM_RMID	CONVID extension
(194)	FULLWORD	4	SZD_CM_RETRY1	Timer retry intvl
(198)	FULLWORD	4	SZD_CM_RETRY2	Timer retry intvl
(19C)	FULLWORD	4	SZD_CM_RLIM	Max retry count
(1A0)	ADDRESS	4	SZD_CM_DDDLIST	Delayed DDLIST
(1A4)	CHARACTER	8	SZD_CM_ STIMERM_ECB	STIMERM ECB fields @BA72241A
(1A4)	ADDRESS	4	SZD_CM_STPTR	pointer to ECB @BA72241A
(1A8)	BIT(32)	4	SZD_CM_STECB	ECB @BA72241A
(1AC)	FULLWORD	4	SZD_CM_END	end-of-structure

```
TDQ request queue element. Processed by RPM every 1s.
```

Table 637.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	120	SZD_TDQ_QREQ	
(0)	CHARACTER	32	SZD_TDQ_EYE	Eye catcher
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	ADDRESS	4	SZD_TDQ_QNEXT	next TDQ/STQ on batch q
(24)	CHARACTER	4	TDQ_QUEUER	originating module
(28)	FULLWORD	4	*	
(2C)	CHARACTER	72	TDQDATA	data to be queued
(2C)	FULLWORD	4	TDQ_DATATYPE	
(30)	FULLWORD	4	TDQ_EVENTTYPE	
(34)	FULLWORD	4	TDQ_EVENTVALUE	
(38)	CHARACTER	8	TDQ_EVENTDATA	
(38)	FULLWORD	4	TDQ_EVENT1	
(3C)	FULLWORD	4	TDQ_EVENT2	
(40)	CHARACTER	4	TDQ_SPARE4	

Table 637. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	CHARACTER	8	TDQ_POOL	
(4C)	CHARACTER	8	TDQ_TARGET	
(54)	CHARACTER	8	TDQ_NODE	
(5C)	BIT(64)	8	TDQ_CONVID	
(64)	FULLWORD	4	TDQ_DEVICE	
(68)	FULLWORD	4	TDQ_FORMAT	
(6C)	CHARACTER	8	TDQ_SPARE8	
(74)	CHARACTER	4	TDQ_QUEUE	Target TDQ name

```
START request queue element. Processed by RPM every 1s.
```

Table 638.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	256	SZD_STQ_QREQ	
(0)	CHARACTER	32	SZD_STQ_EYE	
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	ADDRESS	4	SZD_STQ_QNEXT	next STQ onbatching queue
(24)	CHARACTER	4	STQ_QUEUER	originating module
(28)	CHARACTER	208	STQDATA	START data queued by IC
(28)	HALFWORD	2	STQ_DATALENGTH	
(2A)	HALFWORD	2	*	
(2C)	FULLWORD	4	STQ_DATATYPE	
(30)	FULLWORD	4	STQ_EVENTTYPE	
(34)	FULLWORD	4	STQ_EVENTVALUE	
(38)	CHARACTER	8	STQ_EVENTDATA	
(38)	FULLWORD	4	STQ_EVENT1	
(3C)	FULLWORD	4	STQ_EVENT2	
(40)	CHARACTER	4	STQ_SPARE4	
(44)	CHARACTER	8	STQ_POOL	
(4C)	CHARACTER	8	STQ_TARGET	

Table 638. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	CHARACTER	8	STQ_NODE	
(5C)	BIT(64)	8	STQ_CONVID	
(64)	FULLWORD	4	STQ_DEVICE	
(68)	FULLWORD	4	STQ_FORMAT	
(6C)	CHARACTER	8	STQ_SPARE8	
(74)	FULLWORD	4	STQ_FLENGTH	
(78)	CHARACTER	128	STQ_USERDATA	
(F8)	CHARACTER	4	STQ_TRANSID	Transaction to start
(FC)	CHARACTER	4	STQ_TERMID	Terminal to obtain

```
USS record queue element.
```

Table 639.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	SZD_USQ_QREQ	
(0)	CHARACTER	32	SZD_USQ_EYE	
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	ADDRESS	4	SZD_USQ_QNEXT	next USQ onbatching queue
(24)	CHARACTER	4	USQ_QUEUER	originating module
(28)	ADDRESS	4	USQ_RECORD_PTR	->USQ_RECORD
(2C)	CHARACTER	4	USQDATA	USS record:
(2C)	FULLWORD	4	USQ_DATATYPE	Queue element type - 3
(30)	FULLWORD	4	USQ_RECORD	USS record: DFHA22PS - pool DFHA23PS - connection DFHA24PS - target

```
Install/discard exit queue element.
```

Table 640.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	75	SZD_IDQ_QREQ	
(0)	CHARACTER	32	SZD_IDQ_EYE	
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	ADDRESS	4	SZD_IDQ_QNEXT	next IDQ on batch queue
(24)	CHARACTER	8	*	Reserved
(2C)	CHARACTER	31	IDQDATA	XRSINDI parameters
(2C)	FULLWORD	4	IDQ_DATATYPE	Queue element type - 4
(30)	CHARACTER	16	IDQ_RES_NAME	Resource name
(40)	FULLWORD	4	IDQ_NAME_LENGTH	Resource name length
(44)	FULLWORD	4	IDQ_NUMBER	Number of resources
(48)	UNSIGNED	1	IDQ_INSTDISC	Request type identifier
(49)	UNSIGNED	1	IDQ_RES_TYPE	Resource type
(4A)	UNSIGNED	1	IDQ_RECOVERY	Resource recovery

Constants

Table 641.

Len	Type	value	Name	Description
Resource manager dispatcher resource types				
4	DECIMAL	100	SZK_RSC	Connection
4	DECIMAL	104	SZK_RNC	Node
4	DECIMAL	108	SZK_RTC	Target
Resource manager recovery retry resource types.				
4	DECIMAL	110	SZK_RSCT	
4	DECIMAL	114	SZK_RNCT	
4	DECIMAL	118	SZK_RTCT	
Resource manager recovery retry processing types				
4	DECIMAL	256	SZK_REOPEN	
4	DECIMAL	257	SZK_REQUEUE	

Table 641. (continued)

Len	Type	value	Name	Description
4	DECIMAL	258	SZK_REISSUE	
Resource manager recognised LU types.				
4	DECIMAL	1	SZK_SLU2	
4	DECIMAL	2	SZK_SLUP	
REQSESS EVENTVALUE values Set by 2QX and PQX RPL exits				
4	DECIMAL	199	SZK_SFAIL_ REQSESS_NOT_AVAIL	
4	DECIMAL	198	SZK_SFAIL_ REQSESS_INHIBITED	
4	DECIMAL	197	SZK_SFAIL_ REQSESS_OTHER	
NSEXIT EVENTVALUE values Set by XNS ACB exit.				
4	DECIMAL	196	SZK_SFAIL_CINIT	NOTIFY
4	DECIMAL	195	SZK_SFAIL_BIND	NOTIFY
4	DECIMAL	194	SZK_SFAIL_PLU	NOTIFY
4	DECIMAL	193	SZK_SFAIL_SLU	NOTIFY
4	DECIMAL	192	SZK_SFAIL_SSCP	NOTIFY
4	DECIMAL	191	SZK_SFAIL_ UNDEF_SETUP	
				NOTIFY
4	DECIMAL	190	SZK_SLOST_TAKEDOWN	NOTIFY
4	DECIMAL	189	SZK_SLOST_ CLEANUP_NORM	
				CLEANUP
4	DECIMAL	188	SZK_SLOST_ CLEANUP_ABNORM	
				CLEANUP
LOSTERM EVENTVALUE values Set by XLT ACB exit.				
4	DECIMAL	187	SZK_SLOST_LOSTERM	LOSTERM
Session control EVENT values Set by XSC ACB exit.				
4	DECIMAL	186	SZK_SLOST_ UNBIND_NORMAL	
4	DECIMAL	185	SZK_SLOST_ UNBIND_BIND	
4	DECIMAL	184	SZK_SLOST_ UNBIND_INVALID	
4	DECIMAL	183	SZK_SLOST_ UNBIND_RECOV	
4	DECIMAL	182	SZK_SLOST_ UNBIND_UNRECOV	
Resource manager internal constant values				
4	DECIMAL	65536	SZK_LIFO_LENGTH	
4	DECIMAL	8192	SZK_IRB_LENGTH	

Table 641. (continued)

Len	Type	value	Name	Description
4	DECIMAL	4096	SZK_RASIZE	
4	DECIMAL	100	SZK_TS_TICKLEN	
0	BIT	1	SZK_FLAG_ON	
0	BIT	0	SZK_FLAG_OFF	
Resource manager internal return codes				
4	DECIMAL	0	SZK_RC_OK	
4	DECIMAL	4	SZK_RC_NO_STORAGE	
4	DECIMAL	32	SZK_RC_INVREQ	
4	DECIMAL	122	SZK_RC_DEFER	
4	DECIMAL	97	SZK_RC_EMPTY	
4	DECIMAL	98	SZK_RC_POST	
4	DECIMAL	99	SZK_RC_NOPOST	
Dispatcher (RDP) processing states				
2	DECIMAL	1	SZK_DS_RUN	
2	DECIMAL	2	SZK_DS_WAIT	
2	DECIMAL	3	SZK_DS_INIT	
2	DECIMAL	4	SZK_DS_END	
ADD processing reason codes				
2	DECIMAL	5	SZK_ADD_NODE	
2	DECIMAL	6	SZK_ADD_TARGET	
Delete processors result codes @BA73815A @BA73815A @BA73815A				
2	DECIMAL	7	SZK_RDN_NODE_@BA73815A	@BA73815A @BA73815A @BA73815A
Compare-and-Swap condition code equate				
1	DECIMAL	4	SZK_CC_OK	
4	DECIMAL	432	DFHSZDCM_LEN	

FEP07 Conversation Data Area

```
CONTROL BLOCK NAME = DFHSZDCV
DESCRIPTIVE NAME  = CICS (FEPI) Conversation Data Area

Restricted Materials of IBM

FUNCTION = Contains the information needed by the resource
           manager to control an allocated connection
           (a conversation). One CVCB will exist for each
           allocated connection.
LIFETIME = Created during ALLOCATE processing.
           Deleted during FREE processing.
STORAGE CLASS = 31-bit addressable.
LOCATION = Located from the DFHSZDCD which identifies the
           conversation which currently owns the connection.
           Also located from DFHSZDCM on two chains:
             (1) All active conversations.
             (2) All inactive conversations. ie. those
```

```
                  conversations relinquished with FREE(PASS).
 INNER CONTROL BLOCKS =
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
   CONTROL BLOCKS = DFHSZDEC (Eyecatcher structure definition)
   GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 642.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	116	DFHSZDCV	
(0)	CHARACTER	32	SZD_CV_EYE	eye catcher
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
These fields chain the conversation off of DFHSZDCM. A conversation exists on one or other of the inactive or active conversation lists.				
(20)	ADDRESS	4	SZD_CV_PREV	previous conversation
(24)	ADDRESS	4	SZD_CV_NEXT	next conversation
Associated connection				
(28)	ADDRESS	4	SZD_CV_CDPTR	connection address
Maximum buffer size allowed on conversation.				
(2C)	FULLWORD	4	SZD_CV_BSIZE	
(2C)	ADDRESS	4	SZD_CV_PDPTR	browse pool
(2C)	ADDRESS	4	SZD_CV_PSPTR	browse property
Conversation ID. Constructed during ALLOCATE processing. It uniquely identifies a particular conversation.				
(30)	BIT(64)	8	SZD_CV_ID	
(30)	ADDRESS	4	SZD_CV_NDPTR	browse node
(30)	ADDRESS	4	SZD_CV_IDX	
(34)	ADDRESS	4	SZD_CV_TDPTR	browse target
(34)	ADDRESS	4	SZD_CV_IDY	
The following three fields combine to uniquely identify the present owner of the conversation. When a conversation is inactive then these are zero.				

Table 642. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	CHARACTER	12	SZD_CV_TID	collective terminal ID
(38)	CHARACTER	4	SZD_CV_TRANID	
(3C)	CHARACTER	4	SZD_CV_TERMID	
(40)	CHARACTER	4	SZD_CV_TASK_NUM	
This field is the root for a list of API requests scheduled for this conversation.				
(44)	ADDRESS	4	SZD_CV_APIQ	
(44)	HALFWORD	2	SZD_CV_RTYPE	BROWSE request type
(46)	HALFWORD	2	*	padding
Conversation control flags				
(48)	BIT(32)	4	SZD_CV_FLAGS	
	1...		SZD_CV_BROWSE	This is a BROWSE conversation
This corresponds to the unit-of-work identifier. It is presently unused.				
(4C)	CHARACTER	27	SZD_CV_FQCC	
(67)	CHARACTER	1	*	
(68)	FULLWORD	4	SZD_CV_BTSIZE	
(6C)	FULLWORD	4	SZD_CV_ECOUNT	
(70)	ADDRESS	4	SZD_CV_BTPTR	

Constants

Table 643.

Len	Type	value	Name	Description
4	DECIMAL	116	DFHSZDCV_LEN	

FEP12 Properties List

```
CONTROL BLOCK NAME = DFHSZDPP
DESCRIPTIVE NAME  = CICS (FEPI) - Properties List

Restricted Materials of IBM

FUNCTION = API Propertyset definition parameter list extension.
LIFETIME = Duration of the INSTALL request to which it relates.
STORAGE CLASS = 31-bit addressable.
LOCATION = Pointed to by DFHSZDRP.
INNER CONTROL BLOCKS =
NOTES :
 Dependencies = S/370
 Restrictions =
 Module type = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
```

```
Data areas =
Control blocks =
Global variables (Macro pass) =
-------------------------------------------------------------------
```

Table 644.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	104	DFHSZDPP	
(0)	CHARACTER	32	SZD_PP_EYE	Eye-catcher
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	BIT(16)	2	SZD_PP_FLAGS	Features flags:
(20)	BIT(8)	1	*	*reserved*
(21)	1...		SZD_PP_ EXCEPTIONQ_X	
				- exceptional event Q
	.111		*	*reserved*
	.... 1...		SZD_PP_ ENDSESSION_X	
				- end-session tran
	.... .1..		SZD_PP_ UNSOLDATA_X	
				- unsol data tran
	.... ..1.		SZD_PP_ BEGINSESSION_X	
				- begin-session tran
	1		SZD_PP_STSN_X	- STSN tran
(22)	BIT(16)	2	*	*reserved*
(24)	HALFWORD	2	SZD_PP_DEVICE	Device
(26)	HALFWORD	2	SZD_PP_FORMAT	Data format
(28)	HALFWORD	2	SZD_PP_ CONTENTION	Contention
(2A)	HALFWORD	2	SZD_PP_ INITIALDATA	Initial inbound data
(2C)	HALFWORD	2	SZD_PP_MSGJRNL	Journal control
(2E)	HALFWORD	2	SZD_PP_ UNSOLDATACK	Unsol data response
(30)	CHARACTER	16	*	*reserved*

Table 644. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	FULLWORD	4	SZD_PP_ MAXFLENGTH	Maximum data length
(44)	CHARACTER	4	SZD_PP_STSN	STSN tran
(48)	CHARACTER	4	SZD_PP_ BEGINSESSION	
				Begin-session tran
(4C)	CHARACTER	4	SZD_PP_UNSOLDATA	Unsolicited data tran
(50)	CHARACTER	4	SZD_PP_ EXCEPTIONQ	Exceptional event Q
(54)	CHARACTER	4	SZD_PP_ ENDSESSION	End -session tran
(58)	CHARACTER	4	*	*reserved*
(5C)	FULLWORD	4	SZD_PP_ FJOURNALNUM	Journal number
(60)	CHARACTER	8	SZD_PP_ FJOURNALNAME	
				Journal name
(68)	CHARACTER	0	*	End of property list

Constants

Table 645.

Len	Type	value	Name	Description
4	DECIMAL	104	DFHSZDPP_LEN	

FEP13 Property Set Info

```
CONTROL BLOCK NAME = DFHSZDPS
DESCRIPTIVE NAME  = CICS (FEPI) Property Set information

Restricted Materials of IBM

FUNCTION = Describes the functional properties for a pool
           of resources with which the set is related.
           1 control block will exist for each unique set
           of characteristics defined by the installation
           during INSTALL processing.
LIFETIME = Created by DFHSZRIS during INSTALL processing.
           Deleted by DFHSZRDS during DISCARD processing.
STORAGE CLASS = 31-bit addressable.
LOCATION = Located from the DFHSZDCM.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
```

```
CONTROL BLOCKS = DFHSZDEC (Eyecatcher structure definition)
GLOBAL VARIABLES (Macro pass) =
-----------------------------------------------------------------
```

Table 646.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	180	DFHSZDPS	
(0)	CHARACTER	32	SZD_PS_EYE	eye catcher
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
This area chains the property-set of DFHSZDCM. This is the list of property-sets known to the resource manager.				
(20)	ADDRESS	4	SZD_PS_PREV	previous propertyset
(24)	ADDRESS	4	SZD_PS_NEXT	next property set
(28)	CHARACTER	8	SZD_PS_NAME	name of this prop. set
The following fields contain the information the constitutes a property-set. It is copied to the DFHSZDPD whenever a pool is defined and associated with a property-set.				
(30)	CHARACTER	132	SZD_PS_PROPS	
(30)	BIT(16)	2	SZD_PS_FLAGS	profile flags
(30)	BIT(8)	1	*	
(31)	1...		SZD_PS_ EXCEPTIONQ_X	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		SZD_PS_ ENDSESSION_X	
	.... .1..		SZD_PS_ UNSOLDATA_X	
	.... ..1.		SZD_PS_ BEGINSESSION_X	
	1		SZD_PS_STSN_X	
(32)	BIT(16)	2	*	reserved - not available
(34)	ADDRESS	4	SZD_PS_ ENDSESSION	FREE transaction
(38)	ADDRESS	4	*	reserved
(3C)	FULLWORD	4	*	reserved

Table 646. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	CHARACTER	4	SZD_PS_DEFTRANS	Saved Tranid @BA65235C
(44)	FULLWORD	4	SZD_PS_ MAXFLENGTH	max data size allowed
(48)	CHARACTER	8	SZD_PS_ FJOURNALNAME	
				msg journal name
(50)	HALFWORD	2	SZD_PS_DEVICE	device type emulated
(52)	HALFWORD	2	SZD_PS_FORMAT	datastream/ bufferd
(54)	HALFWORD	2	SZD_PS_ CONTENTION	contention rules
(56)	HALFWORD	2	SZD_PS_ INITIALDATA	
				Rule for init. data
(58)	HALFWORD	2	SZD_PS_ UNSOLDATACK	
				Rule for unsol. data
(5A)	HALFWORD	2	SZD_PS_MSGJRNL	Message journalling
(5C)	CHARACTER	4	SZD_PS_STSN	STSN transaction
(60)	CHARACTER	4	SZD_PS_ BEGINSESSION	
				Init. data xaction
(64)	CHARACTER	4	SZD_PS_ UNSOLDATA	Unsolicited data xaction
(68)	CHARACTER	4	SZD_PS_ EXCEPTIONQ	Exception event TD q
(6C)	CHARACTER	8	*	*reserved*
(74)	CHARACTER	64	SZD_PS_UDATA	user data

Constants

Table 647.

Len	Type	value	Name	Description
4	DECIMAL	180	DFHSZDPS_LEN	

FEP16 VTAM Requests Block

```
CONTROL BLOCK NAME = DFHSZDRB
DESCRIPTIVE NAME  = CICS (FEPI) VTAM Requests Block

Restricted Materials of IBM
```

```
FUNCTION =
     Defines the VTAM Requests Block.
     This data area is a part of the FEPI Resource Manager.
     It defines the format of the VTAM Requests Block.
Lifetime = While a VTAM request is active
Storage class = 31-bit addressable
Location = Chained from Common block
Inner control blocks = Not applicable
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Data Area
--------------------------------------------------------------------
EXTERNAL REFERENCES = None
  DATA AREAS = None
  CONTROL BLOCKS = None
  GLOBAL VARIABLES = None
--------------------------------------------------------------------
```

Table 648.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	184	DFHSZDRB	
(0)	CHARACTER	32	SZD_RB_EYE	
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	BIT(64)	8	SZD_RB_QEB	
(20)	ADDRESS	4	*	unused - available
(24)	ADDRESS	4	SZD_RB_QNEXT	Points to next in chain
(28)	CHARACTER	8	*	
(28)	FULLWORD	4	SZD_RB_REQTYPE	reserved
(2C)	BIT(32)	4	SZD_RB_FLAGS	reserved
(30)	HALFWORD	2	SZD_RB_TRINTVL	timer retry interval
(32)	HALFWORD	2	SZD_RB_TRTYPE	timer retry type
(34)	ADDRESS	4	SZD_RB_DYNAA	dynamic area pointer
(38)	ADDRESS	4	SZD_RB_CM	common area ptr
(3C)	ADDRESS	4	SZD_RB_CD	connection ptr
(40)	ADDRESS	4	SZD_RB_ND	node ptr
(44)	FULLWORD	4	SZD_RB_DYNAL	dynamic area length
(48)	CHARACTER	112	SZD_RB_RPL	VTAM RPL

Table 648. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	AREA	112	SZD_RB_VTAM	

Constants

Table 649.

Len	Type	value	Name	Description
4	DECIMAL	184	DFHSZDRB_LEN	

FEP17 Request Parameter Area

```
CONTROL BLOCK NAME = DFHSZDRP
DESCRIPTIVE NAME  = CICS (FEPI) - Request parameter area

Restricted Materials of IBM

FUNCTION = Contains the parameters associated with an
           individual work request. One will exist for
           each active processing request.
LIFETIME = Exists for the life of an API request.
STORAGE CLASS = 31-bit addressable.
LOCATION = Located from the DFHSZDQE to which the parameters
           relate.
INNER CONTROL BLOCKS =
NOTES :
 Dependencies = S/370
 Restrictions =
 Module type = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS = DFHSZDEC (Eyecatcher structure definition)
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 650.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	192	DFHSZDRP	
(0)	CHARACTER	32	SZD_RPA_EYE	Eye-catcher
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	CHARACTER	80	SZD_RIA	Request input area
(20)	HALFWORD	2	SZD_RIA_REQSUB	Request subtype
(22)	HALFWORD	2	*	*reserved*

Table 650. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	FULLWORD	4	SZD_RIA_REQTYPE	Request type
(28)	FULLWORD	4	*	*reserved*
(2C)	BIT(16)	2	SZD_RIA_FLGS	Flags
(2C)	BIT(8)	1	*	*reserved*
(2D)	11..		*	*reserved*
	..1.		SZD_RIA_RU	RU
	...1		SZD_RIA_CHAIN	Chain
	...1		SZD_RIA_ BNEXTTARGET	
				Browse next target
	.... 1...		SZD_RIA_ ENDTASK	End of task
	.... 1...		SZD_RIA_FMH	FMH
	.... 1...		SZD_RIA_ BNEXTNODE	
				Browse next node
	.... .1..		SZD_RIA_PASS	Pass
	.... .1..		SZD_RIA_BEND	Browse end
	.... .1..		SZD_RIA_ CURSOR_X	
				Cursor set
	.... ..1.		SZD_RIA_ RELEASE	Release
	.... ..1.		SZD_RIA_ KEYSTROKES	
				Keystroke
	.... ..1.		SZD_RIA_ BNEXT	Browse next
	.... ..1.		SZD_RIA_ IMMEDIATE	
				Immediate
	1		SZD_RIA_FORCE	Force
	1		SZD_RIA_ INVITE	Invite
	1		SZD_RIA_ BSTART	Browse start
	1		SZD_RIA_ CONVERSE	
				Converse pool
	1		SZD_RIA_ LOCATION	
				Field by location

Table 650. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2E)	BIT(8)	1	*	*reserved*
(2F)	BIT(8)	1	*	*reserved*
(30)	HALFWORD	2	SZD_RIA_OPT1	Option 1
(30)	HALFWORD	2	SZD_RIA_ CONTROL	Control
(30)	HALFWORD	2	SZD_RIA_ SERVSTATUS	
				Service status
(30)	CHARACTER	1	SZD_RIA_ RESET	Reset stats?
(31)	CHARACTER	1	SZD_RIA_ COLLECT	
				Collect stats?
(31)	CHARACTER	1	SZD_RIA_AID	AID
(31)	CHARACTER	1	SZD_RIA_ ESCAPE	
				Escape
(32)	HALFWORD	2	SZD_RIA_OPT2	Option 2
(32)	HALFWORD	2	SZD_RIA_VALUE	Value
(32)	HALFWORD	2	SZD_RIA_ ACQSTATUS	
				Acquire status
(32)	CHARACTER	1	*	*
(33)	CHARACTER	1	SZD_RIA_EOD	End of day stats? *
(34)	FULLWORD	4	*	*reserved*
(38)	FULLWORD	4	SZD_RIA_VAL1	Value 1
(38)	FULLWORD	4	SZD_RIA_ POOLNUM	Pool list count
(38)	FULLWORD	4	SZD_RIA_ TARGETNUM	
				Target list count
(38)	FULLWORD	4	SZD_RIA_ SENSEDATA	
				Sense data
(3C)	FULLWORD	4	SZD_RIA_VAL2	Value 2
(3C)	FULLWORD	4	SZD_RIA_ DATALEN	Data length
(3C)	FULLWORD	4	SZD_RIA_ MAXFLENGTH	
				Maximum length
(3C)	FULLWORD	4	SZD_RIA_ NODENUM	

Table 650. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Node list count
(40)	FULLWORD	4	SZD_RIA_VAL3	Value 3
(40)	ADDRESS	4	SZD_RIA_LST3	List 3
(40)	ADDRESS	4	SZD_RIA_DATA	Data address
(40)	ADDRESS	4	SZD_RIA_ TARGETLIST	
				Target list
(40)	ADDRESS	4	SZD_RIA_ POOLLIST	
				Pool list
(40)	ADDRESS	4	SZD_RIA_ STATS	
				Stats buffer
(44)	FULLWORD	4	SZD_RIA_VAL4	Value 4
(44)	ADDRESS	4	SZD_RIA_LST4	List 4
(44)	FULLWORD	4	SZD_RIA_ FIELDNUM	
				Field number
(44)	FULLWORD	4	SZD_RIA_ FIELDLOC	
				Field location
(44)	ADDRESS	4	SZD_RIA_ NODELIST	
				Node list
(48)	FULLWORD	4	SZD_RIA_VAL5	Value 5
(48)	ADDRESS	4	SZD_RIA_LST5	List 5
(48)	FULLWORD	4	SZD_RIA_ TIMEOUT	Timeout
(48)	FULLWORD	4	SZD_RIA_ CURSOR	Cursor
(48)	ADDRESS	4	SZD_RIA_ PROPS	Properties data
(48)	ADDRESS	4	SZD_RIA_ APPLLIST	
				Appl names list
(48)	ADDRESS	4	SZD_RIA_ PASSWORDLIST	
				Password list
(4C)	FULLWORD	4	SZD_RIA_VAL6	Value 6
(4C)	ADDRESS	4	SZD_RIA_ USERDATA	User data address
(50)	CHARACTER	8	SZD_RIA_INC1	Inchar 1
(50)	CHARACTER	8	SZD_RIA_CONVID	Conv ID

Table 650. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	CHARACTER	8	SZD_RIA_ PASSCONVID	
				Conv ID
(50)	CHARACTER	8	SZD_RIA_POOL	Pool
(58)	CHARACTER	8	SZD_RIA_INC2	Inchar 2
(58)	CHARACTER	8	SZD_RIA_TARGET	Target
(60)	CHARACTER	8	SZD_RIA_INC3	Inchar 3
(60)	CHARACTER	8	SZD_RIA_NODE	Node
(60)	CHARACTER	8	SZD_RIA_ PROPERTYSET	
				Property set
(60)	CHARACTER	4	SZD_RIA_ TRANSID	
				Transaction ID
(64)	CHARACTER	4	SZD_RIA_ TERMID	Terminal ID
(68)	CHARACTER	8	*	*reserved*
(70)	CHARACTER	80	SZD_ROA	Request output area
(70)	FULLWORD	4	SZD_ROA_FDBK1	Feedback 1 (extra)
(74)	FULLWORD	4	SZD_ROA_FDBK2	Feedback 2 (RESP2)
(78)	HALFWORD	2	SZD_ROA_OUT1	Output 1
(78)	HALFWORD	2	SZD_ROA_ SESSNSTATUS	
				Session status
(78)	HALFWORD	2	SZD_ROA_ ENDSTATUS	
				End status
(78)	HALFWORD	2	SZD_ROA_ STSNSTATUS	
				STSN status
(78)	HALFWORD	2	SZD_ROA_ SERVSTATUS	
				Service status
(78)	CHARACTER	2	*	Attributes
(78)	CHARACTER	1	SZD_ROA_ INPUTCONTROL	
				Input control
(7A)	HALFWORD	2	SZD_ROA_OUT2	Output 2
(7A)	HALFWORD	2	SZD_ROA_ RESPSTATUS	
				Response status

Table 650. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7A)	HALFWORD	2	SZD_ROA_ ACQSTATUS	
				Acquire status
(7A)	CHARACTER	1	SZD_ROA_ RESPONSE	
				DFHSTSTM response *
(7B)	CHARACTER	1	SZD_ROA_ REASON	DFHSTSTM reason *
(7C)	HALFWORD	2	SZD_ROA_OUT3	Output 3
(7C)	HALFWORD	2	SZD_ROA_ ALARMSTATUS	
				Alarm status
(7C)	HALFWORD	2	SZD_ROA_ FMHSTATUS	
				FMH status
(7C)	HALFWORD	2	SZD_ROA_ INSTLSTATUS	
				Install status
(7E)	HALFWORD	2	*	Output 4
(80)	CHARACTER	8	SZD_ROA_OUT5	Output 5
(80)	HALFWORD	2	SZD_ROA_DEVICE	Device type
(80)	CHARACTER	8	SZD_ROA_ JOURNALNAME	
				Journal name
(80)	HALFWORD	2	SZD_ROA_ STATE	Conversation state
(88)	HALFWORD	2	SZD_ROA_OUT6	Output 6
(88)	HALFWORD	2	SZD_ROA_FORMAT	Data format
(88)	HALFWORD	2	SZD_ROA_ MSGJRNL	Journal control
(8C)	FULLWORD	4	SZD_ROA_RES1	Result 1
(8C)	FULLWORD	4	SZD_ROA_FIELDS	Field count
(8C)	FULLWORD	4	SZD_ROA_ ACQNUM	Acquire count
(8C)	FULLWORD	4	SZD_ROA_ SENSEDATA	
				Sense data
(8C)	FULLWORD	4	SZD_ROA_ ESMRESP	
				ESM response
(90)	FULLWORD	4	SZD_ROA_RES2	Result 2
(90)	FULLWORD	4	SZD_ROA_ DATALEN	Data length

Table 650. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(90)	FULLWORD	4	SZD_ROA_ CONVNUM	Conversation count
(90)	FULLWORD	4	SZD_ROA_ ESMREASON	
				ESM reason
(94)	FULLWORD	4	SZD_ROA_RES3	Result 3
(94)	FULLWORD	4	SZD_ROA_ REMFLENGTH	
				Remaining length
(94)	FULLWORD	4	SZD_ROA_ CURSOR	Cursor
(98)	FULLWORD	4	SZD_ROA_RES4	Result 4
(98)	FULLWORD	4	SZD_ROA_LINES	Line count
(98)	FULLWORD	4	SZD_ROA_ SEQNUMIN	
				Inbound seq num
(98)	FULLWORD	4	SZD_ROA_ WAITCONVNUM	
				Wait-conv count
(98)	FULLWORD	4	SZD_ROA_ POSITION	
				Position
(9C)	FULLWORD	4	SZD_ROA_RES5	Result 5
(9C)	FULLWORD	4	SZD_ROA_ COLUMNS	Column count
(9C)	FULLWORD	4	SZD_ROA_ SEQNUMOUT	
				Outbound seq num
(9C)	FULLWORD	4	SZD_ROA_ LASTACQCODE	
				Last acquire code
(9C)	FULLWORD	4	SZD_ROA_ SIZE	Size
(A0)	CHARACTER	8	SZD_ROA_OUC1	Outchar 1
(A0)	CHARACTER	8	SZD_ROA_CONVID	Conv ID
(A0)	CHARACTER	8	SZD_ROA_POOL	Pool
(A0)	CHARACTER	8	SZD_ROA_APPL	Appl name
(A0)	CHARACTER	8	SZD_ROA_ PASSTICKET	
				Passticket
(A8)	CHARACTER	8	SZD_ROA_OUC2	Outchar 2

Table 650. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A8)	CHARACTER	8	SZD_ROA_TARGET	Target
(B0)	CHARACTER	8	SZD_ROA_OUC3	Outchar 3
(B0)	CHARACTER	8	SZD_ROA_NODE	Node
(B0)	CHARACTER	8	SZD_ROA_ PROPERTYSET	
				Property set
(B0)	CHARACTER	8	SZD_ROA_ ATTRS	Attributes
(B0)	CHARACTER	1	SZD_ROA_ COLOR	- colour
(B1)	CHARACTER	1	SZD_ROA_ HILIGHT	
				- highlighting
(B2)	CHARACTER	1	SZD_ROA_ VALIDATION	
				- validation
(B3)	CHARACTER	1	SZD_ROA_PS	- PS
(B4)	CHARACTER	1	SZD_ROA_ OUTLINE	
				- outlining
(B5)	CHARACTER	1	SZD_ROA_ TRANSPARENCY	
				- transparency
(B6)	CHARACTER	1	SZD_ROA_ BACKGROUND	
				- background
(B7)	CHARACTER	1	SZD_ROA_ FIELDATTR	
				- field
	11..		*	-
	..1.		SZD_ROA_ PROTECT	
				- protect
	...1 111.		*	-
	1		SZD_ROA_ MDT	- MDT
(B8)	CHARACTER	8	*	reserved
(C0)	CHARACTER	0	*	End of RPA

Constants

Table 651.

Len	Type	value	Name	Description
4	DECIMAL	192	DFHSZDRP_LEN	

Table 651. (continued)

Len	Type	value	Name	Description
= FEPI Resource Manager Request Subtype Codes =				
2	DECIMAL	0	SZD_RIA_REQSUB_NULL	No subtype
2	DECIMAL	4	SZD_RIA_REQSUB_FMT	Formatted data
2	DECIMAL	8	SZD_RIA_REQSUB_DATA	Datastream
2	DECIMAL	4	SZD_RIA_REQSUB_CONV	Conversation
2	DECIMAL	8	SZD_RIA_REQSUB_TSN	TSN
2	DECIMAL	12	SZD_RIA_REQSUB_FLD	FLD
2	DECIMAL	4	SZD_RIA_REQSUB_TGT	Target
2	DECIMAL	8	SZD_RIA_REQSUB_NODE	NODE
2	DECIMAL	12	SZD_RIA_REQSUB_POOL	POOL
2	DECIMAL	16	SZD_RIA_REQSUB_ADD_DEL	Add/Delete pool
2	DECIMAL	20	SZD_RIA_REQSUB_PROP	Properties
2	DECIMAL	24	SZD_RIA_REQSUB_CONN	Connection
2	DECIMAL	4	SZD_RIA_REQSUB_CTRL	Control

FEP19 Terminal Simulation Facility

```
CONTROL BLOCK NAME = DFHSZDSR
DESCRIPTIVE NAME  = CICS (FEPI) Terminal Simulation Facility

Restricted Materials of IBM

FUNCTION = Identifies the nodes and targets associated
           with a given resource pool.
           One DSR is created for each node and target
           associated with each pool. It contains a pointer
           to either a node or target (depending upon which
           it represents)
LIFETIME = for the life of a node-pool or target-pool
           association. Created during INSTALL POOL/ ADD POOL
           processing, and deleted as a result of DISCARD POOL,
           DISCARD NODE, DISCARD TARGET or DELETE POOL
           processing.
STORAGE CLASS = 31-bit addressable
LOCATION = The DSR may be located from the DPD, DND or DTD
           data areas.
INNER CONTROL BLOCKS =
           DFHSZDEC eyecatcher data structure.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS =
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 652.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	84	DFHSZDSR	

Table 652. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	32	SZD_SR_EYE	eye catcher
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
These fields chain the DSR off the pool with which the resource is being associated. There are 2 queues. One for nodes, and one for targets.				
(20)	ADDRESS	4	SZD_SR_PREV	previous in pool
(24)	ADDRESS	4	SZD_SR_NEXT	next in pool
These fields chain the DSR off the resource to which it relates. This may be either a node or a target.				
(28)	ADDRESS	4	SZD_SR_ORPREV	prev on resource
(2C)	ADDRESS	4	SZD_SR_ORNEXT	next on resource
This is the pool that owns the DSR				
(30)	ADDRESS	4	SZD_SR_PDPTR	owning pool
This is the address of the resource being represented.				
(34)	ADDRESS	4	SZD_SR_TDPTR	owning target,
(34)	ADDRESS	4	SZD_SR_NDPTR	or owning node
(38)	FULLWORD	4	SZD_SR_USAGE	resource usage counter
Statistics counters - used by target surrogate only				
(3C)	FULLWORD	4	SZD_SR_NODES	Used during stats collection
(40)	FULLWORD	4	SZD_SR_ TOTALLOCATES	
				Total # conversation allocates
(44)	FULLWORD	4	SZD_SR_ ALLOCATESWAITING	
				Current # allocates waiting
(48)	FULLWORD	4	SZD_SR_ PKALLOCATESWAITING	
				Peak # allocates waiting
(4C)	FULLWORD	4	SZD_SR_ TOTALLOCATEWAITS	
				Total # allocates waited

Table 652. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	FULLWORD	4	SZD_SR_TIMEOUTS	# allocates that timed out

Constants

Table 653.

Len	Type	value	Name	Description
4	DECIMAL	84	DFHSZDSR_LEN	

FEP09 TSF - Eye Catcher Map

```
CONTROL BLOCK NAME = DFHSZDEC
DESCRIPTIVE NAME  = CICS (TSF) Eye Catcher Map

Restricted Materials of IBM

FUNCTION = Provides mapping for the TSF data area
           eye-catcher.
LIFETIME = N/A. The eyecatcher is part of all other TSF
           data structures.
STORAGE CLASS = 31-bit addressable.
LOCATION = N/A. The eyecatcher is part of all other TSF
           data structures.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS =
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 654.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	DFHSZDEC	
(0)	HALFWORD	2	SZD_EC_LENGTH	AREA LENGTH INCLUDING EC
(2)	CHARACTER	1	SZD_EC_GT	"GREATER-THAN" SIGN
(3)	CHARACTER	8	SZD_EC_NAME	DATA AREA NAME
(B)	CHARACTER	5	*	PADDING
(10)	CHARACTER	8	SZD_EC_SPID	SUBPOOL TOKEN
(18)	UNSIGNED	4	SZD_EC_CBID	PADDING
(1C)	CHARACTER	4	*	PADDING

Constants

Table 655.

Len	Type	value	Name	Description
4	DECIMAL	32	DFHSZDEC_LEN	

FEP10 Node Descriptor

```
CONTROL BLOCK NAME = DFHSZDND
DESCRIPTIVE NAME  = CICS (FEPI) Node descriptor

Restricted Materials of IBM

FUNCTION = Contains the information needed by the resource
           manager to control and support a front-end
           node. A node exists for each VTAM ACB used by
           the resource manager to communicate with the
           network.
LIFETIME = Created by DFHSZRIN during INSTALL processing.
           Deleted by DFHSZRDN during DISCARD processing.
STORAGE CLASS = 31-bit addressable.
LOCATION = Located from the DFHSZDCM.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS = DFHSZDEC (Eyecatcher structure definition)
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 656.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	212	DFHSZDND	
(0)	CHARACTER	32	SZD_ND_EYE	
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	CHARACTER	24	SZD_ND_WE	ND WE
(20)	BIT(64)	8	SZD_ND_QCB	ND QCB
(20)	ADDRESS	4	SZD_ND_QP	Previous element
(24)	ADDRESS	4	SZD_ND_QC	Next element
(28)	FULLWORD	4	SZD_ND_REQ	Request type
(2C)	BIT(32)	4	*	unused
	1...		*	reserved - not available

Table 656. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		*	reserved - not available
	..1.		SZD_ND_ON_Q	On the process Q
	...1		SZD_ND_ON_QIRB	On the IRB process Q
	.... 1...		SZD_ND_ON_TMR	On the timer queue
	.... .1..		*	Reserved - not available
	.... ..1.		SZD_ND_ON_QTPEND8	On the TPEND code 8 proc. Q
NOTE End of section that must match DFHSZDQE				
(30)	HALFWORD	2	SZD_ND_TRINTVL	Timer retry interval
(32)	HALFWORD	2	SZD_ND_TRTYPE	Timer retry type
(34)	CHARACTER	4	SZD_ND_DEFTRAN	Saved transid @BA65235C
Binds received from unKnown partners are queued here by IRB routines. Each entry is mapped by DFHSZDBI.				
(38)	BIT(64)	8	SZD_ND_BI_QCB	Node SZDBI list
(38)	ADDRESS	4	SZD_ND_BI_QC	DBI list header
(3C)	ADDRESS	4	*	unused - available
(40)	BIT(32)	4	SZD_ND_FLAGS	
Byte 0				
	1...		SZD_ND_RECANYR	Receive Any Queued
	.1..		SZD_ND_RECANYN	Receive Any Needed
	..1.		SZD_ND_SLFAIL	SETLOGON failed
	...1		SZD_ND_SLMEM	SETLOGON could not be issue buffer not available
	.... 1...		SZD_ND_TPEND_0	TPEND scheduled with code 0
	.... .1..		SZD_ND_TPEND_4	TPEND scheduled with code 4

Table 656. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		SZD_ND_TPEND_8	TPEND scheduled with code 8
	1		SZD_ND_TPEND	TPEND scheduled
Byte 1				
(41)	1...		SZD_ND_SHUT	SHUTDOWN initiated
	.1..		SZD_ND_CLOSE	close requested
	..1.		SZD_ND_DISCARD	DISCARD initiated
	...1		SZD_ND_IMMED	unconditional closure
	.... 1...		SZD_ND_OPENREQ	OPEN requested
	.... .1..		SZD_ND_OPENRIP	OPEN in progress
	.... ..1.		SZD_ND_OPENOK	OPENed OK
	1		SZD_ND_OPENFAIL	OPEN failed
Byte 2				
(42)	1...		SZD_ND_UNSOL	Unsolicited BIND received
	.1..		SZD_ND_UNSOLBX	BIND expected
	..1.		*	unused - available
	...1		*	unused - available
	.... 1...		*	unused - available
	.... .1..		*	unused - available
	.... ..1.		*	unused - available
	1		*	unused - available
Byte 3				
(43)	1...		SZD_ND_SLDONE	setlogon footprint
	.1..		SZD_ND_RADONE	receive any footprint
	..1.		*	unused - available
	...1		*	unused - available
	.... 1...		*	unused - available

Table 656. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		*	unused - available
	.... ..1.		*	unused - available
	1		*	unused - available
The address of a DRA is stored here whenever the RECEIVE(ANY) is satisfied for this node.				
(44)	ADDRESS	4	SZD_ND_RECANY	Receive Any Ptr
This is the configuration management portion of the data area, information kept here allows FEPI to define and delete the resource.				
(48)	CHARACTER	140	SZD_ND_API	
(48)	ADDRESS	4	SZD_ND_PREV	Prior DND
(4C)	ADDRESS	4	SZD_ND_NEXT	Next DND on list
(50)	ADDRESS	4	SZD_ND_CDLIST	connection list
(54)	ADDRESS	4	SZD_ND_SRLIST	surrogate list
(58)	ADDRESS	4	SZD_ND_ACB	associated ACB
(5C)	ADDRESS	4	SZD_ND_CM	common area ptr
(60)	ADDRESS	4	SZD_ND_ACPTR	ACB work area
(64)	CHARACTER	12	*	VTAM ACB name
(64)	CHARACTER	1	SZD_ND_NAMEL	
(65)	CHARACTER	8	SZD_ND_NAME	
(6D)	CHARACTER	3	*	
(70)	CHARACTER	12	*	ACB Password
(70)	CHARACTER	1	SZD_ND_PASSL	
(71)	CHARACTER	8	SZD_ND_ PASSWORD	
(79)	CHARACTER	3	*	
(7C)	HALFWORD	2	SZD_ND_ SERVSTATUS	service status
(7E)	HALFWORD	2	SZD_ND_ ACQSTATUS	actual network status
(80)	HALFWORD	2	SZD_ND_ DESSTATUS	desired network status
(82)	HALFWORD	2	SZD_ND_ INSTSTATUS	installation status
(84)	HALFWORD	2	SZD_ND_ASTAT	acb status
(86)	HALFWORD	2	SZD_ND_ERFLG	acb open failure code
(88)	ADDRESS	4	SZD_ND_CDSTQ	CLSDST connection queue

Table 656. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8C)	FULLWORD	4	SZD_ND_USAGE	usage counter
(90)	FULLWORD	4	SZD_ND_RCOUNT	maximum open retries
(94)	CHARACTER	64	SZD_ND_UDATA	user data storage

Constants

Table 657.

Len	Type	value	Name	Description
4	DECIMAL	212	DFHSZDND_LEN	

FEP11 Pool Descriptor

```
CONTROL BLOCK NAME = DFHSZDPD
DESCRIPTIVE NAME  = CICS (FEPI) Pool descriptor

Restricted Materials of IBM

FUNCTION = Acts as a correlator for connection, nodes and
           targets. 1 DFHSZDPD exists for each pool defined
           by the installation during INSTALL processing.
LIFETIME = Created by DFHSZRIP during INSTALL processing.
           Deleted by DFHSZRDP during DISCARD processing.
STORAGE CLASS = 31-bit addressable.
LOCATION = Located from the DFHSZDCM.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS = DFHSZDEC (Eyecatcher structure definition)
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 658.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	316	DFHSZDPD	
(0)	CHARACTER	32	SZD_PD_EYE	eye catcher
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
This area chains the pool from DFHSZDCM. It is the list of pools known to the resource manager.				

Table 658. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	ADDRESS	4	SZD_PD_PREV	prev pool
(24)	ADDRESS	4	SZD_PD_NEXT	next pool
(28)	CHARACTER	8	SZD_PD_NAME	Pool name
(30)	CHARACTER	8	SZD_PD_PROPERTY	Propertset name
These lists identify the resources associated with the pool by configuration processing.				
(38)	ADDRESS	4	SZD_PD_NDLIST	assoc. nodes
(3C)	ADDRESS	4	SZD_PD_TDLIST	assoc. Targets
(40)	ADDRESS	4	SZD_PD_CDLIST	assoc. conns.
(44)	ADDRESS	4	SZD_PD_AWLIST	q'd allocates
(48)	HALFWORD	2	SZD_PD_ SERVSTATUS	Pool service status
(4A)	HALFWORD	2	SZD_PD_ INSTSTATUS	Pool install status
This area is initialised from the contents of the property set named above. The values are copied at the time the association is made. The pool is not subsequently dependent upon the existence of the property-set.				
(4C)	CHARACTER	132	SZD_PD_PROPS	Property values
(4C)	BIT(16)	2	SZD_PS_FLAGS	
(4C)	BIT(8)	1	*	
(4D)	1...		SZD_PS_ EXCEPTIONQ_X	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		SZD_PS_ ENDSESSION_X	
	.... .1..		SZD_PS_ UNSOLDATA_X	
	.... ..1.		SZD_PS_ BEGINSESSION_X	
	1		SZD_PS_STSN_X	
(4E)	BIT(16)	2	*	
(50)	ADDRESS	4	SZD_PS_ ENDSESSION	
(54)	ADDRESS	4	*	
(58)	FULLWORD	4	*	
(5C)	CHARACTER	4	SZD_PS_DEFTRAN	
(60)	FULLWORD	4	SZD_PS_ MAXFLENGTH	
(64)	CHARACTER	8	SZD_PS_ FJOURNALNAME	

Table 658. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6C)	HALFWORD	2	SZD_PS_DEVICE	
(6E)	HALFWORD	2	SZD_PS_FORMAT	
(70)	HALFWORD	2	SZD_PS_ CONTENTION	
(72)	HALFWORD	2	SZD_PS_ INITIALDATA	
(74)	HALFWORD	2	SZD_PS_ UNSOLDATACK	
(76)	HALFWORD	2	SZD_PS_MSGJRNL	
(78)	CHARACTER	4	SZD_PS_STSN	
(7C)	CHARACTER	4	SZD_PS_ BEGINSESSION	
(80)	CHARACTER	4	SZD_PS_ UNSOLDATA	
(84)	CHARACTER	4	SZD_PS_ EXCEPTIONQ	
(88)	CHARACTER	8	*	
(90)	CHARACTER	64	SZD_PS_UDATA	
(D0)	CHARACTER	64	SZD_PD_UDATA	User data
Statistics counters				
(110)	FULLWORD	4	SZD_PD_TARGETS	# targets in pool *
(114)	FULLWORD	4	SZD_PD_NODES	# nodes in pool *
(118)	FULLWORD	4	SZD_PD_ CONNECTIONS	# connections
(11C)	FULLWORD	4	SZD_PD_ PKCONNECTIONS	
				peak # connections *
(120)	FULLWORD	4	SZD_PD_ALLOCATED	# conversations * currently allocated *
(124)	FULLWORD	4	SZD_PD_ PKALLOCATED	peak # concurrent allocates
(128)	FULLWORD	4	SZD_PD_ TOTALLOCATES	
				Total # conversation allocates
(12C)	FULLWORD	4	SZD_PD_ ALLOCATESWAITING	
				Current # allocates waiting
(130)	FULLWORD	4	SZD_PD_ PKALLOCATESWAITING	

Table 658. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Peak # allocates waiting
(134)	FULLWORD	4	SZD_PD_ TOTALLOCATEWAITS	
				Total # allocates waited
(138)	FULLWORD	4	SZD_PD_TIMEOUTS	# allocates that timed out

Constants

Table 659.

Len	Type	value	Name	Description
4	DECIMAL	316	DFHSZDPD_LEN	

FEP14 Work Queue Element

```
CONTROL BLOCK NAME = DFHSZDQE
DESCRIPTIVE NAME  = CICS (FEPI) Work queue element

Restricted Materials of IBM

FUNCTION = Represents and correlates processing to be
           performed on behalf of a front-end application
           program. 1 block will exist for each current
           work request.
LIFETIME = Created by DFHSZRPW during adaptor request
           preparation. Deleted by DFHSZRRT during adaptor
           request cleanup.
STORAGE CLASS = 31-bit addressable.
LOCATION = Located from the DFHSZDCM.
INNER CONTROL BLOCKS =
NOTES :
 Dependencies = S/370
 Restrictions =
 Module type = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  Data areas =
  Control blocks = DFHSZDEC (Eyecatcher structure definition)
  Global variables (Macro pass) =
-------------------------------------------------------------------
```

Table 660.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	332	DFHSZDQE	
(0)	CHARACTER	40	SZD_QE_PREFIX	RM private prefix
(0)	CHARACTER	32	SZD_QE_EYE	Eye-catcher
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	

Table 660. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	ADDRESS	4	SZD_QE_PREV	previous dqe in queue
(24)	ADDRESS	4	SZD_QE_NEXT	next dqe in the queue
Start of public area. This is the section of the DQE updated by the adaptor during request initialisation.				
(28)	CHARACTER	68	SZD_QE_PUBLIC	External area
(28)	FULLWORD	4	SZD_QE_REQTYPE	Request type
(2C)	BIT(8)	1	SZD_QE_REQFLAG	Request flags:
	1...		SZD_QE_ REQFLAG_POST	
				- POST needed
	.1..		SZD_QE_EXPFLAG	- expedited
	..1.		SZD_QE_ON_PRB	Queued by PRB
	...1		SZD_QE_ON_IRB	Queued by IRB
	.... 1...		SZD_QE_ON_TMR	Queued by TMR
	.... .1..		SZD_QE_ON_API	Queued by API
	.... ..1.		SZD_QE_ON_TP8	Queued by TPEND code 8
	1		SZD_QE_POSTED	Request completed
Timer Services Control Bits				
(2D)	BIT(8)	1	*	Timer Services Flags
	1...		SZD_QE_TIMED	Request requires timing
	.1..		SZD_QE_ TIMED_OUT	Request abandoned
	..1.		SZD_QE_PURGE	RM must free element
	...1		SZD_QE_ RRT_SEEN	Owner has exited flag
(2E)	BIT(8)	1	*	Unused available
(2F)	BIT(8)	1	*	Misc flags @BA66310C
	1...		SZD_QE_ CONFDATA	CONFDATA=YES @BA66310A
(30)	ADDRESS	4	SZD_QE_REQDATA	Request area address

Table 660. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	ADDRESS	4	SZD_QE_CHAIN	Next dqe in chain pointer
(38)	CHARACTER	8	SZD_QE_CONVID	Conversation ID
(40)	BIT(32)	4	SZD_QE_ECB	CICS thread ECB
(44)	CHARACTER	27	SZD_QE_FQCC	FQCC
(5F)	CHARACTER	1	*	Padding
(60)	CHARACTER	12	SZD_QE_TID	Collective ID
(60)	CHARACTER	4	SZD_QE_TRANID	Transaction ID
(64)	CHARACTER	4	SZD_QE_TERMID	Terminal ID
(68)	CHARACTER	4	SZD_QE_TASKNUM	CICS task number
Start of resource manager private suffix				
(6C)	CHARACTER	224	SZD_QE_PRIVATE	Internal area
(6C)	ADDRESS	4	SZD_QE_DATA	Assoc. stg address
(70)	FULLWORD	4	SZD_QE_DATALEN	Assoc. stg length
(74)	ADDRESS	4	SZD_QE_CVPTR	Conversation address
Timer services area. TOCK contains the TICK value at which the request should be timed-out. TNEXT and TPREV chain time-out-able requests together. This chain is then scanned by timer services. The request is added to the timer-chain when the request is allocated by PW (if a timeout was requested). It is removed by DFHSZRRT of timer services.				
(78)	FULLWORD	4	SZD_QE_TOCK	Expiry time
(7C)	FULLWORD	4	SZD_QE_TICK	SOP time record
(80)	ADDRESS	4	SZD_QE_TPREV	Next DQE in timer Q
(84)	ADDRESS	4	SZD_QE_TNEXT	Next DQE in timer Q
(88)	ADDRESS	4	SZD_QE_TARGET	Chosen target fo alloc *
This MUST come last				
(8C)	AREA	192	SZD_QE_RP	

Constants

Table 661.

Len	Type	value	Name	Description
4	DECIMAL	332	DFHSZDQE_LEN	

FEP15 VTAM Receive Request Block

```
CONTROL BLOCK NAME = DFHSZDRA
DESCRIPTIVE NAME  = CICS (FEPI) VTAM Receive Request Block

Restricted Materials of IBM

FUNCTION =
     Defines the VTAM Receive Requests Block.
     This data area is a part of the FEPI Resource Manager.
     It defines the format of the
     VTAM Receive Request Block.
Lifetime = The life of the node
Storage class = 31-bit addressable
Location = Chained from Common block
Inner control blocks = Not applicable
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Data Area
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
  DATA AREAS = None
  CONTROL BLOCKS = None
  GLOBAL VARIABLES = None
-------------------------------------------------------------------
```

Table 662.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	184	DFHSZDRA	
(0)	CHARACTER	32	SZD_RA_EYE	
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	BIT(64)	8	SZD_RA_QEB	
(20)	ADDRESS	4	*	unused available
(24)	ADDRESS	4	SZD_RA_QNEXT	Points to next in chain
(28)	CHARACTER	8	*	
(28)	FULLWORD	4	SZD_RA_REQTYPE	reserved
(2C)	BIT(32)	4	SZD_RA_FLAGS	reserved
(30)	HALFWORD	2	SZD_RA_TRINTVL	timer retry interval
(32)	HALFWORD	2	SZD_RA_TRTYPE	timer retry type
(34)	ADDRESS	4	SZD_RA_DYNAA	unused available
(38)	ADDRESS	4	SZD_RA_CM	common area ptr
(3C)	ADDRESS	4	SZD_RA_CD	connection ptr
(40)	ADDRESS	4	SZD_RA_ND	node area ptr

Table 662. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	FULLWORD	4	SZD_RA_DYNAL	unused available
(48)	CHARACTER	112	SZD_RA_RPL	VTAM RPL
(48)	AREA	112	SZD_RA_VTAM	

Constants

Table 663.

Len	Type	value	Name	Description
4	DECIMAL	184	DFHSZDRA_LEN	

FEP18 Session Control Request Block

```
    CONTROL BLOCK NAME = DFHSZDSC
    DESCRIPTIVE NAME  = CICS (FEPI) Session Control Request
Block

    Restricted Materials of IBM

    FUNCTION =
         Defines the Session Control Request Block.
         This data area is a part of the FEPI Resource Manager.
         It defines the format of the Session Control Request Block.
    Lifetime = While a VTAM request is active
    Storage class = 31-bit addressable
    Location = Chained from Common block
    Inner control blocks = Not applicable
    NOTES :
     DEPENDENCIES = S/370
     RESTRICTIONS = None
     MODULE TYPE = Data Area
   ---------------------------------------------------------------------
    EXTERNAL REFERENCES = None
      DATA AREAS = None
      CONTROL BLOCKS = None
      GLOBAL VARIABLES = None
   ---------------------------------------------------------------------
```

Table 664.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	284	DFHSZDSC	
(0)	CHARACTER	32	SZD_SC_EYE	
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	BIT(64)	8	SZD_SC_QEB	

Table 664. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	ADDRESS	4	*	unused - available
(24)	ADDRESS	4	SZD_SC_QNEXT	Points to next in chain
(28)	CHARACTER	8	*	
(28)	FULLWORD	4	SZD_SC_REQTYPE	reserved
(2C)	BIT(32)	4	SZD_SC_FLAGS	reserved
(30)	HALFWORD	2	SZD_SC_TRINTVL	timer retry interval
(32)	HALFWORD	2	SZD_SC_TRTYPE	timer retry type
(34)	ADDRESS	4	SZD_SC_DYNAA	unused available
(38)	ADDRESS	4	SZD_SC_CM	common area ptr
(3C)	ADDRESS	4	SZD_SC_CD	connection ptr
(40)	ADDRESS	4	SZD_SC_ND	node area ptr
(44)	FULLWORD	4	SZD_SC_DYNAL	unused available
(48)	CHARACTER	212	SZD_SC_RPL	VTAM RPL + buffer
(48)	AREA	212	SZD_SC_VTAM	

Constants

Table 665.

Len	Type	value	Name	Description
4	DECIMAL	284	DFHSZDSC_LEN	

FEP20 Target Descriptor

```
CONTROL BLOCK NAME = DFHSZDTD
DESCRIPTIVE NAME  = CICS (FEPI) Target descriptor

Restricted Materials of IBM

FUNCTION = Contains the information needed by the resource
           manager to represent and control activity with
           a back-end application. One control block exists
           for each target defined by the installation during
           INSTALL processing.
LIFETIME = Created by DFHSZRIT during INSTALL processing.
           Deleted by DFHSZRDT during DISCARD processing.
STORAGE CLASS = 31-bit addressable.
LOCATION = Located from the DFHSZDCM.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS = DFHSZDEC (Eyecatcher structure definition)
  GLOBAL VARIABLES (Macro pass) =
```

```
------------------------------------------------------------------
&amp; NOTE
&amp; The first portion of DFHSZDTD is structured to be identical to
& the first portion of the DQE. This MUST not change. If changes
& are made to the DQE, then this area must be updated to match.
```

Table 666.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	184	DFHSZDTD	
(0)	CHARACTER	32	SZD_TD_EYE	Request parm area
(0)	HALFWORD	2	SZD_EC_LENGTH	
(2)	CHARACTER	1	SZD_EC_GT	
(3)	CHARACTER	8	SZD_EC_NAME	
(B)	CHARACTER	5	*	
(10)	CHARACTER	8	SZD_EC_SPID	
(18)	UNSIGNED	4	SZD_EC_CBID	
(1C)	CHARACTER	4	*	
(20)	CHARACTER	24	SZD_TD_WE	
(20)	BIT(64)	8	SZD_TD_QCB	Target DQE
(20)	ADDRESS	4	SZD_TD_QP	Previous entry
(24)	ADDRESS	4	SZD_TD_QC	Next queue element
(28)	FULLWORD	4	SZD_TD_REQ	Request type
(2C)	BIT(32)	4	*	request flags
	1...		*	reserved - not avail
	.1..		*	reserved - not avail
	..1.		SZD_TD_ON_Q	ON THE Process Q
	...1		SZD_TD_ON_QIRB	ON THE IRB Process Q
	.... 1...		SZD_TD_ON_TMR	on the timer queue
	.... .1..		*	reserevd - not avail
	.... ..1.		*	reserved - not avail
	1		*	reserved - not avail
NOTE End of section that must match DFHSZDQE				
(30)	HALFWORD	2	SZD_TD_TRINTVL	Timer retry interval
(32)	HALFWORD	2	SZD_TD_TRTYPE	Retry type required
(34)	FULLWORD	4	*	unused available

Table 666. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Target control flags				
(38)	BIT(32)	4	SZD_TD_CS_FLAGS	
	1...		*	unused - available
	.1..		*	unused - available
	..1.		SZD_TD_REQ_FAIL	REQSESS failed
(3C)	CHARACTER	4	SZD_TD_DEFTRAN	Saved tranid @BA65235C
When REQSESS processing is required for a connection, it is queued here, and the target is queued to the resource manager for processing (unless already queued).				
(40)	BIT(64)	8	SZD_TD_RE_QCB	REQSESS Q
(40)	ADDRESS	4	SZD_TD_RE_QC	FIRST ENTRY
(44)	ADDRESS	4	SZD_TD_RE_CTR	POOL CTR
This is the configuration management portion of the target.				
(48)	CHARACTER	112	SZD_TD_API	
(48)	ADDRESS	4	SZD_TD_PREV	Prev. target
(4C)	ADDRESS	4	SZD_TD_NEXT	Next target
(50)	ADDRESS	4	SZD_TD_SRLIST	Surrogate list
(54)	ADDRESS	4	SZD_TD_CDLIST	Connection list
(58)	CHARACTER	8	SZD_TD_NAME	FEPI resource name
(60)	CHARACTER	8	SZD_TD_PLUN	network AM rsrc name
(68)	HALFWORD	2	SZD_TD_ SERVSTATUS	service status
(6A)	HALFWORD	2	SZD_TD_ INSTSTATUS	Installation status
(6C)	FULLWORD	4	SZD_TD_CURRENT	Usage counter
(70)	FULLWORD	4	SZD_TD_USAGE	Usage counter
(74)	FULLWORD	4	SZD_TD_RCOUNT	Usage counter
(78)	CHARACTER	64	SZD_TD_UDATA	User data

Constants

Table 667.

Len	Type	value	Name	Description
4	DECIMAL	184	DFHSZDTD_LEN	

FEP21 Frontend Programming Interface

Table 668.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	320	DFHSZSPS	
(0)	HALFWORD	2	SZSEYEL	CB Length
(2)	CHARACTER	14	SZSEYEC	Eyecatcher
== ==				
(10)	UNSIGNED	4	SZS_SYSSTATE	FEPI Status
== = TCB Operation Controls = ==				
(14)	UNSIGNED	2	SZSTMODE	TCB for RM running
(16)	UNSIGNED	2	SZSTLEV	TCB RM Trigger
== = Unused Storage = ==				
(18)	UNSIGNED	4	*	Unused
(1C)	CHARACTER	3	*	Unused
== = Flag byte ==				
(1F)	BIT(8)	1	*	Misc flags
	1...		SZS_CONFDATA	CONFDATA on
	.111 1111		*	
== = FEPI Anchor points = ==				
(20)	ADDRESS	4	SZSANCCI	CICS Storage Anchor
(24)	ADDRESS	4	SZSANCRM	RM Storage Anchor
(28)	ADDRESS	4	*	
(2C)	ADDRESS	4	*	
== = FEPI Unused Storage = ==				
(30)	ADDRESS	4	*	
(34)	ADDRESS	4	*	
(38)	ADDRESS	4	*	
(3C)	ADDRESS	4	*	
== = FEPI Storage Sub-pool Tokens = ==				
(40)	CHARACTER	8	SZS_SP_AC	SPT for ACBs

Table 668. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	CHARACTER	8	SZS_SP_CD	SPT for Conn Cont
(50)	CHARACTER	8	SZS_SP_CM	SPT for Common Cont
(58)	CHARACTER	8	SZS_SP_CV	SPT for Conv Cont
(60)	CHARACTER	8	SZS_SP_DA	SPT for Data Areas
(68)	CHARACTER	8	SZS_SP_DS	SPT for Device Supp
(70)	CHARACTER	8	SZS_SP_DT	SPT for Device Type
(78)	CHARACTER	8	SZS_SP_NB	SPT for NIBs
(80)	CHARACTER	8	SZS_SP_ND	SPT for Node Defs
(88)	CHARACTER	8	SZS_SP_PD	SPT for Pool Descs
(90)	CHARACTER	8	SZS_SP_PS	SPT for Prop Descs
(98)	CHARACTER	8	SZS_SP_RP	SPT for RPLs
(A0)	CHARACTER	8	SZS_SP_RQ	SPT for Requests
(A8)	CHARACTER	8	SZS_SP_TD	SPT for Target Descs
(B0)	CHARACTER	8	SZS_SP_WE	SPT for Work Eles
(B8)	CHARACTER	8	SZS_SP_SR	SPT for Surrogates
(C0)	CHARACTER	8	*	Unused
(C8)	CHARACTER	8	*	Unused
(D0)	CHARACTER	8	*	Unused
(D8)	CHARACTER	8	*	Unused
(E0)	CHARACTER	8	*	Unused
(E8)	CHARACTER	8	*	Unused
(F0)	CHARACTER	8	*	Unused
(F8)	CHARACTER	8	*	Unused
(100)	CHARACTER	8	*	Unused
(108)	CHARACTER	8	*	Unused
(110)	CHARACTER	8	*	Unused
(118)	CHARACTER	8	*	Unused
(120)	CHARACTER	8	*	Unused
(128)	CHARACTER	8	*	Unused
(130)	CHARACTER	8	*	Unused
(138)	CHARACTER	8	*	Unused

Table 668. (continued)

Offset Hex	Type	Len	Name (dim)	Description
== = FEPI Control Block length = ==				
(140)	CHARACTER	0	SZSEND	End of Control Block

Constants

Table 669.

Len	Type	value	Name	Description
4	DECIMAL	320	SZSLEN	Control Block Length
4	DECIMAL	0	SZS_SYSSTATE_NEVAC	Never accessed
4	DECIMAL	1	SZS_SYSSTATE_CLOSED	Inactive
4	DECIMAL	2	SZS_SYSSTATE_INSTARTG	Starting
4	DECIMAL	3	SZS_SYSSTATE_OPEN	Running
4	DECIMAL	4	SZS_SYSSTATE_ TERM_NORM	
				Normal Shutdown
4	DECIMAL	5	SZS_SYSSTATE_ TERM_IMMED	
				Immediate Shutdown
4	DECIMAL	6	SZS_SYSSTATE_ TERM_FORCE	
				Forced Termination
4	DECIMAL	7	SZS_SYSSTATE_FAILED	FEPI Abended
2	DECIMAL	1	SZSTMODE_QR	RM is always to run under the QR TCB
2	DECIMAL	2	SZSTMODE_SZ	RM is always to run under the SZ TCB
2	DECIMAL	3	SZSTMODE_DYNAMIC	RM will run under the QR | SZ TCB, depending on workload

ZCQ Builder Services Action Blocks

```
    CONTROL BLOCK NAME = DFHTBSGC
    DESCRIPTIVE NAME  = CICS Table Builder Services Action
Blocks

    Restricted Materials of IBM
```

```
FUNCTION =
     DFHTBSGC describes the dsect for Builder Services Action
     Blocks. These blocks are arrays of elements that describe
     the actions taken to Install , Delete, Recover or Catalog
     communication resource definitions.
     BS Action Blocks are hung of either the Resource definition
     Recovery Anchor Block (RRAB) (for those that either relate
     to general resources or have been moved onto the
     delayed_action_list prior to commitment/rollback), or from
     a Resource defintion Atom Block (RABN) (because they are
     for a named atom).
     They are created by Table Builder Services when a request
     starts and are filled and/or added to the chain when
     Builder modules are driven. The log record that relates to
     a particular builders activity is chained from the relevant
     action element.
     The Table Builder Services Syncpoint program DFHTBSS
     frees the action_blocks once they have been used at
     the end of the Builder Services Request (often at Syncpoint)
LIFETIME =
     For the duration of the Table Builder Services Request
STORAGE CLASS =
     Above 16M line. CICS key.
LOCATION =
     Chained from the RRAB or one of the RABNs on the RRABs
     chain of named atoms.
INNER CONTROL BLOCKS = None
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
```

Table 670.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BS_ACTION	
(0)	ADDRESS	4	BS_ACTION_NEXT	Next action this ATOM
(4)	ADDRESS	4	BS_ACTION_PREV	Previous action this ATOM
(8)	CHARACTER	16	BS_ACTION_ID	Ident >DFHBS_ACTION_BK
(18)	CHARACTER	8	BS_ACTION_PLM	Name of module for builder
(20)	ADDRESS	4	BS_ACTION_REQSTG	Request-unique storage
(24)	UNSIGNED	2	BS_ACTION_MSIZE	Max number of elements
(26)	UNSIGNED	2	BS_ACTION_CSIZE	Current number of elems
(28)	UNSIGNED	1	*	Reserved
The following field is an array of BS_ACTION_ELEMENTS				
(29)	CHARACTER	13	BS_ACTION_ARRAY (*)	

```
This is the layout of each action element BS_ ACTION_ELEM
```

Table 671.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	13	BS_ACTION_ELEM	
(0)	ADDRESS	4	BS_ACTION_PATT	Address of pattern
(4)	ADDRESS	4	BS_ACTION_NODE	Node for this action
(8)	ADDRESS	4	BS_ACTION_CCREC	Recovery record pointer
(C)	BIT(8)	1	BS_ACTION_FLAGS	Action Flags
	1...		BS_ACTION_ADD	0-delete 1-add
	.1..		BS_ACTION_CCWR	1-CC write/delete action
	..1.		BS_ACTION_CCDEL	1-CC action is delete
	...1		BS_ACTION_ CCONLY	1-CC action is delete
	.... 1...		BS_ACTION_CC	1 - A physical catalog I/O is required 0 - donot touch Log or cat
	.... .1..		BS_ACTION_ DELDONE	1 - node freemained
	.... ..1.		BS_ACTION_ COMMIT	1 - COMMIT_NOW on
	1		*	Reserved

Constants

Table 672.

Len	Type	value	Name	Description
16	CHARACTER	>DFHBS_ACTION_BLK	BS_ACTION_EYE	

TIA Timer Domain Anchor Block

```
CONTROL BLOCK NAME = DFHTIA
DESCRIPTIVE NAME  = CICS Timer Domain (TI) Control Blocks

Restricted Materials of IBM

FUNCTION =
     This file contains the data structure
     declarations used by the Timer Domain.
     The data structures are:
         DFHTIA - TI Anchor block
         TIMER_REQUEST_ELEMENT - TI Request Element
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = domain standard (no special usage)
```

```
  Patch Label = N/A
  Module Type = N/A
  Attributes = N/A
-------------------------------------------------------------------
       TI domain Anchor Block storage definition
```

Table 673.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	68	DFHTIA	Anchor block
(0)	CHARACTER	16	TIA_PREFIX	standard header
(0)	HALFWORD	2	TIA_LENGTH	length of anchor block
(2)	CHARACTER	1	TIA_ARROW	eyecatcher
(3)	CHARACTER	3	TIA_DFH	eyecatcher
(6)	CHARACTER	2	TIA_DOMID	domain id
(8)	CHARACTER	8	TIA_BLOCK_NAME	control block name
(10)	ADDRESS	4	TIA_LOCK_TOKEN	token required by Lock Manager
(14)	FULLWORD	4	TIA_SUSPEND_ TOKEN	token required by Dispatcher
(18)	FULLWORD	4	TIA_NUDGE_STATUS	DS nudge task state
(1C)	ADDRESS	4	TIA_DISPATCHER_ TOKEN	
				token to access dispatcher@P2A
(20)	CHARACTER	8	TIA_NEXT_ EXPIRY_TIME	
				next TRE expiry time
(20)	UNSIGNED	4	TIA_NEXT_ EXPIRY_HIGH	
				High-order word, stck secs@P2A
(24)	UNSIGNED	4	TIA_NEXT_ EXPIRY_LOW	
				Low-order word, stck usecs@P2A
(28)	CHARACTER	8	TIQC_SUBPOOL_ TOKEN	token required by SM on getmain
(30)	ADDRESS	4	TIA_FIRST_ TRE_PTR	-> head of the TRE chain
(34)	FULLWORD	4	TIA_REQUEST_ COUNTER	
				number of request notifies

Table 673. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	BIT(8)	1	TIA_FLAGS	will need these
	1...		TIA_TIMER_ AVAILABLE	
				status bit for TI services
	.1..		*	unused
	..1.		*	unused
	...1		*	unused
	.... 1...		*	unused
	.... .1..		*	unused
	.... ..1.		*	unused
	1		*	unused
(39)	CHARACTER	3	*	reserved
(3C)	ADDRESS	4	KERR_PTR	-> Kernel recovery area
(40)	BIT(32)	4	TIA_CS_WORD	following word used in CS
(40)	BIT(8)	1	TIA_CS_BYTE1	one byte of CS indicators
	1...		TIA_IMMED_ TRE_PEND	
				notify immediately pending@L3A
	.111 1111		*	unused
(41)	BIT(8)	1	TIA_CS_BYTE2	one byte of CS indicators
(41)	BIT(8)	1	*	unused
(42)	BIT(8)	1	TIA_CS_BYTE3	one byte of CS indicators
(42)	BIT(8)	1	*	unused
(43)	BIT(8)	1	TIA_CS_BYTE4	one byte of CS indicators
(43)	BIT(8)	1	*	unused

```
Timer Request Element Definition
```

Table 674.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	92	TIMER_REQUEST_ ELEMENT	
				TRE
(0)	CHARACTER	24	TRE_PREFIX	standard header
(0)	HALFWORD	2	TRE_LENGTH	length of anchor block

Table 674. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER	1	TRE_ARROW	eyecatcher
(3)	CHARACTER	3	TRE_DFH	eyecatcher
(6)	CHARACTER	2	TRE_DOMID	domain id
(8)	CHARACTER	8	TRE_BLOCK_NAME	control block name
(10)	ADDRESS	4	TRE_NEXT	-> next TRE in chain
(14)	ADDRESS	4	TRE_PREV	-> prev TRE in chain
(18)	FULLWORD	4	TRE_DOMAIN_ID	Number assigned by the Kernel
(1C)	CHARACTER	8	TRE_DOMAIN_TOKEN	Token from requesting domain
(1C)	UNSIGNED	4	*	
(20)	UNSIGNED	4	*	
(24)	CHARACTER	8	TRE_EXPIRY_TIME	Doubleword binary (STCK) time
(24)	UNSIGNED	4	TRE_EXPIRY_ TIME_HIGH	
				High-order word, stck secs
(28)	UNSIGNED	4	TRE_EXPIRY_ TIME_LOW	
				Low-order word, stck microsecs
(2C)	CHARACTER	8	TRE_INTERVAL	Doubleword binary interval
(2C)	UNSIGNED	4	TRE_INTERVAL_ SECS	Top 32 bytes contains seconds
(30)	UNSIGNED	4	TRE_INTERVAL_ MSECS	
				Bottom 32 bytes - microseconds
(34)	CHARACTER	6	TRE_ALARM_TIME	In HHMMSS format, local time
(3A)	CHARACTER	6	TRE_ORIGIN_TIME	HHMMSS, origin time of interval
(40)	CHARACTER	8	TRE_ORIGIN_DATE	MMDDYYYY, origin date of interval
(48)	UNSIGNED	1	TRE_NOTIFY_TYPE	Type of notify requested

Table 674. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		TRE_ALARM_CALL	Notify at certain time of day
	.1..		TRE_INTERVAL_NOTIFY	
				notify after an interval
	..1.		TRE_ATTACHED_TASK	notify via an attached task
	...1		TRE_TIMER_TASK	notify as part of timer thread
	.... 1...		TRE_PERIODIC	notify repeatedly
	.... .1..		TRE_WITH_ORIGIN	Notify specified with an origin
	.... ..1.		TRE_WITH_TIMEOUT	notify specified with a timeout
	1		TRE_WITH_ATTMODE	notify specified with attach mode
(49)	UNSIGNED	1	TRE_FLAGS	various flags
	1...		TRE_EXPIRED	Expired, and notify in progress
	.1..		TRE_CANCELLED	Is it cancelled?
	..1.		TRE_ORIGIN_INTERVAL_EXPIRED	
				expiry of 1st interval
	...1		TRE_RESET_TIME_PROCESSED	
				local times adjusted?
	.... 1...		TRE_RESET_PERFORMED	RESET while EXPIRED
	.... .1..		*	unused
	.... ..1.		*	unused
	1		*	unused
(4A)	CHARACTER	1	TRE_ATTACH_PRIORITY	
				priority of task to be attached
(4B)	UNSIGNED	1	TRE_ATTACH_MODE	AMODE mode of attached task
	1...		TRE_QR	Quasi-reentrant
	.1..		TRE_RO	Resource-owning
	..1.		TRE_CO	Concurrent
	...1		TRE_FO	File owning

Table 674. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	UNSIGNED	4	TRE_ATTACH_ TIMEOUT	attached notify timeout value
(50)	CHARACTER	8	TRE_CDS_DW	Doubleword for CDS instr.
(50)	FULLWORD	4	TRE_NUMBER	request number for ttoken
(54)	BIT(32)	4	TRE_CDS_FLAGS	Flags are used in CDS
(54)	BIT(8)	1	TRE_FLAG_ BYTE_1	required by assembler
	1...		TRE_NOTIFY_ IMMED	
				service me NOW!
	.111 1111		*	unused
(55)	BIT(8)	1	TRE_FLAG_ BYTE_2	required by assembler
(55)	BIT(8)	1	*	unused
(56)	BIT(8)	1	TRE_FLAG_ BYTE_3	required by assembler
(56)	BIT(8)	1	*	unused
(57)	BIT(8)	1	TRE_FLAG_ BYTE_4	required by assembler
(57)	BIT(8)	1	*	unused
(58)	ADDRESS	4	TRE_TI_ANCHOR	Pointer to TI anchor

Constants

Table 675.

Len	Type	value	Name	Description
Trace point ids 1 to 49 hex : TIDM trace points 50 to 99 hex : TIDM exception trace points 100 to 149 hex : TISR trace points 150 to 199 hex : TISR exception trace points 200 to 249 hex : TIMF trace points 250 to 299 hex : TIMF exception trace points				
2	HEX	0001	TPID_TIDM_ENTRY	DFHTIDM entry
2	HEX	0002	TPID_TIDM_EXIT	DFHTIDM exit
2	HEX	0050	TPID_TIDM_INVDO	Bad domain call
2	HEX	0051	TPID_TIDM_INVFMT	Bad format number
2	HEX	0060	TPID_TIDM_RECOV	Recovery routine
2	HEX	0100	TPID_TISR_ENTRY	DFHTISR entry
2	HEX	0101	TPID_TISR_EXIT	DFHTISR exit

Table 675. (continued)

Len	Type	value	Name	Description
2	HEX	0150	TPID_TISR_INVDC	bad domain call
2	HEX	0151	TPID_TISR_INVFMT	bad format number
2	HEX	0152	TPID_TISR_XINTVL	bad interval
2	HEX	0153	TPID_TISR_XTOKEN	bad token
2	HEX	0154	TPID_TISR_TOOLATE	ATOD too late
2	HEX	0160	TPID_TISR_RECOV	recovery routine
2	HEX	0161	TPID_TISR_BADSTCK	TOD STCK problem
2	HEX	0162	TPID_TISR_NOATTACH	cannot attach task
2	HEX	0200	TPID_TIMF_ENTRY	TIMF entry
2	HEX	0201	TPID_TIMF_EXIT	TIMF entry
2	HEX	0250	TPID_TIMF_INVFUN	TIMF inv fun
2	HEX	0251	TPID_TIMF_INVFMT	TIMF inv fmt
2	HEX	0260	TPID_TIMF_RECOV	TIMF recovry
Messages				
4	DECIMAL	1	MEID_RECOV	general abend
4	DECIMAL	2	MEID_SEVERE	severe error
4	DECIMAL	4	MEID_LOOP	loop
4	DECIMAL	5	MEID_BADSTCK	stck inoperative
Dumpcodes				
8	CHARACTER	TI0001	DUID_TI_RECOV	general abend
8	CHARACTER	TI0002	DUID_SEVERE	severe error
8	CHARACTER	TI0004	DUID_TI_LOOP	loop
8	CHARACTER	TI0005	DUID_TI_BADSTCK	stck inoperative
Constants				
1	CHARACTER	>	ARROW	eyectacher arrow
0	BIT	1	ON	TRUE flag value
0	BIT	0	OFF	FALSE flag value
0	BIT	1	YES	TRUE flag value
0	BIT	0	NO	FALSE flag value
7	CHARACTER	DFHTIDM	TIDM_NAME	module name
7	CHARACTER	DFHTISR	TISR_NAME	module name
4	HEX	FFFF0000	DELTA_ROUND	to zero low 2 bytes

TSAUX Temporary Storage Auxiliary Class

```
!:refstep.dfhtsamc ----------------------------------- DFHTSAM 78 -
!
!
! TSAUX class.
!
!--------------------------------------------------------------------
```

Table 676.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	4	TSAUX	
INSTANCE DATA				
Declared Data				
(0)	CHARACTER Priv	4	*	
---------- ACA - aux control area. ----------				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	364	ACA	
(0)	CHARACTER Prot	16	ACA_PREFIX	
(0)	SIGNED Prot	2	ACA_LENGTH	control block length
(2)	CHARACTER Prot	1	ACA_ARROW	'>'
(3)	CHARACTER Prot	3	ACA_DFH	'DFH'
(6)	CHARACTER Prot	2	ACA_DOMID	'TS'
(8)	CHARACTER Prot	8	ACA_BLOCK_NAME	'ACA'
(10)	CHARACTER Prot	8	ACA_TSX_SPTOKEN	tsx subpool token
(18)	CHARACTER Prot	8	ACA_TSS_SPTOKEN	tss subpool token
(20)	CHARACTER Prot	8	ACA_TSBUFFER_ SPTOKEN	
				tsbuffer subpool token
(28)	OBJECT Prot IsA(TSWAITQ)	8	ACA_AUX_ SPACE_QUEUE	
				aux space wait queue
---------- TSW - TS wait queue head. ----------				

Table 676. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	CHARACTER Prot	8	TSW_HEAD	
(28)	ADDRESS Prot	4	TSW_FIRST	-> first wait queue element
(2C)	ADDRESS Prot	4	TSW_LAST	-> last wait queue element
(30)	OBJECT Prot IsA(TSWAITQ)	8	ACA_EXTEND_ QUEUE	extend wait queue
(30)	CHARACTER Prot	8	TSW_HEAD	
(30)	ADDRESS Prot	4	TSW_FIRST	-> first wait queue element
(34)	ADDRESS Prot	4	TSW_LAST	-> last wait queue element
(38)	OBJECT Prot IsA(TSWAITQ)	8	ACA_BUFFER_ QUEUE	buffer wait queue
(38)	CHARACTER Prot	8	TSW_HEAD	
(38)	ADDRESS Prot	4	TSW_FIRST	-> first wait queue element
(3C)	ADDRESS Prot	4	TSW_LAST	-> last wait queue element
(40)	OBJECT Prot IsA(TSWAITQ)	8	ACA_WRITE_ BUFFER_QUEUE	
				write buffer queue
(40)	CHARACTER Prot	8	TSW_HEAD	
(40)	ADDRESS Prot	4	TSW_FIRST	-> first wait queue element
(44)	ADDRESS Prot	4	TSW_LAST	-> last wait queue element
(48)	OBJECT Prot IsA(TSWAITQ)	8	ACA_STRING_ QUEUE	string wait queue
(48)	CHARACTER Prot	8	TSW_HEAD	
(48)	ADDRESS Prot	4	TSW_FIRST	-> first wait queue element
(4C)	ADDRESS Prot	4	TSW_LAST	-> last wait queue element
(50)	ADDRESS Prot	4	ACA_ACBP	-> ts dataset acb
(54)	ADDRESS Prot	4	ACA_OPENLISTP	-> dataset open list
(58)	SIGNED Prot	4	ACA_OPENLIST_ LENGTH	
				length of open list

Table 676. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5C)	ADDRESS Prot	4	ACA_OPENSKELP	-> open list skeleton
(60)	ADDRESS Prot	4	ACA_MODEL_RPLP	-> model rpl
(64)	SIGNED Prot	4	ACA_MAX_ CIS_FORMATTED	
				maximum ci's formatted
(68)	ADDRESS Prot	4	ACA_FORMAT_ BUFFERP	
				-> buffer while formatting
(6C)	SIGNED Prot	4	ACA_FORMAT_RBA	rba while formatting
(70)	BIT(32) Prot	4	ACA_FORMAT_EIB	eib while formatting
(74)	SIGNED Prot	4	ACA_NBCA	number of bcas
(78)	SIGNED Prot	4	ACA_NVCA	number of vcas
(7C)	SIGNED Prot	4	ACA_BLKN	number of bcas locked
(80)	SIGNED Prot	4	ACA_VLKN	number of vcas locked
(84)	ADDRESS Prot	4	ACA_BCAHD	-> first bca
(88)	ADDRESS Prot	4	ACA_BCAHA	-> first allocated bca
(8C)	ADDRESS Prot	4	ACA_BCAHF	-> first free bca
(90)	ADDRESS Prot	4	ACA_VCAHD	-> first vca
(94)	SIGNED Prot	4	ACA_RREFN	"read" reference number
(98)	SIGNED Prot	2	ACA_MAXWB	maximum write buffers
(9A)	SIGNED Prot	2	ACA_CURWB	current write buffers
(9C)	ADDRESS Prot	4	*	reserved
(A0)	ADDRESS Prot	4	*	reserved
(A4)	ADDRESS Prot	4	*	reserved
(A8)	ADDRESS Prot	4	*	reserved
Statistics fields.				
(AC)	CHARACTER Prot	60	ACA_STATS	
(AC)	SIGNED Prot	4	ACA_TRDN	total ci read count
(B0)	SIGNED Prot	4	ACA_TWTN	total ci write count
(B4)	SIGNED Prot	4	ACA_TWTNR	writes forced by recovery

Table 676. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B8)	SIGNED Prot	4	ACA_TWTNF	formatting writes
(BC)	SIGNED Prot	4	ACA_NCIA	number of ci's allocated
(C0)	SIGNED Prot	4	ACA_NCIAH	hwm ci's allocated
(C4)	SIGNED Prot	4	ACA_NVCAH	hwm vcas alloc (strings)
(C8)	SIGNED Prot	4	ACA_VWTN	number of waits on vca
(CC)	SIGNED Prot	4	ACA_VUWT	no. users waiting on string
(D0)	SIGNED Prot	4	ACA_VUWTH	hwm users waiting on string
(D4)	SIGNED Prot	4	ACA_NAG	number of aux gets
(D8)	SIGNED Prot	4	ACA_BWTN	number of buffer waits
(DC)	SIGNED Prot	4	ACA_BUWT	users waiting for buffer
(E0)	SIGNED Prot	4	ACA_BUWTH	hwm users waiting for bufr
(E4)	SIGNED Prot	4	ACA_LAR	longest aux record len
Statistics fields which were in TS common area. (Old TSMxxx names are shown).				
(E8)	CHARACTER Prot	28	ACA_STATS2	
(E8)	SIGNED Prot	4	ACA_NP	(tsmsta1f) total records PUT (main/aux)
(EC)	SIGNED Prot	4	ACA_NPQ	(tsmsta2f) total records PUTQ (main/aux)
(F0)	SIGNED Prot	4	ACA_NAP	(tsmsta7f) total records PUT/Q aux
(F4)	SIGNED Prot	4	ACA_NSUSP	(tsmsta8f) number of suspensions
(F8)	SIGNED Prot	4	ACA_NCOMP	(tsmsta9f) number of compressions
(FC)	SIGNED Prot	4	ACA_NIOER	(tsmstaaf) number of I/O errors
(100)	SIGNED Prot	4	ACA_PGCSA	(tsmstabf) number of puts > ci size

Table 676. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(104)	SIGNED Prot	4	ACA_CSA	control interval size
(108)	SIGNED Prot	4	ACA_NCI	number of ci's
(10C)	SIGNED Prot	4	ACA_NAVB	num available bytes in ci
(110)	SIGNED Prot	4	ACA_BCID	displ. to buffer cntl info
(114)	SIGNED Prot	4	ACA_SPCI	segments per ci
(114)	CHARACTER Prot	3	*	padding for..
(117)	CHARACTER Prot	1	ACA_SPCI1	byte version of above
(118)	SIGNED Prot	4	ACA_BPSEG	bytes per seg
(11C)	SIGNED Prot	4	ACA_BPSG2	bytes per seg (as power 2)
`Byte map pointers etc.`				
(120)	ADDRESS Prot	4	ACA_BMP	-> byte map storage
(124)	ADDRESS Prot	4	ACA_MAPP	-> ts ci byte map
(128)	ADDRESS Prot	4	ACA_MAPEP	-> end of byte map
(12C)	ADDRESS Prot	4	ACA_SSP	start scan pointer
`Controls for extending byte map.`				
(130)	BIT(8) Prot	1	*	flags
	1... .... Prot		ACA_FULL	='1'b, dataset is full
	.1.. .... Prot		ACA_EXTENDING	='1'b, extension in progress
	..11 1111 Prot		*	reserved
(131)	CHARACTER Prot	3	*	reserved
(134)	SIGNED Prot	4	ACA_BMLEN	byte map length
(138)	SIGNED Prot	4	ACA_FTIME	time in binary seconds last "full" msg produced
(13C)	SIGNED Prot	4	ACA_FNCI	no. of ci's in dataset when last "full" msg produced
`Fields set in the event of a 1310 abend.`				
(140)	ADDRESS Prot	4	ACA_BCAP	-> bca for buffer being compressed

Table 676. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(144)	CHARACTER Prot	4	*	
(144)	SIGNED Prot	2	ACA_ASEGS	allocated segs (from ci)
(146)	SIGNED Prot	2	ACA_BSEGS	allocated segs (from map)
Fields used by 1310 trap.				
(148)	BIT(8) Prot	1	ACA_TRAP_FLAGS	trap flags
	1... .... Prot		ACA_COMPARE_FAILED	
				='1', byte map copy failed
	.111 1111 Prot		*	reserved
(149)	CHARACTER Prot	3	*	reserved
(14C)	ADDRESS Prot	4	ACA_COPIED_BMP	-> copied byte map
(150)	ADDRESS Prot	4	*	reserved
(154)	ADDRESS Prot	4	*	reserved
(158)	ADDRESS Prot	4	*	reserved
(15C)	ADDRESS Prot	4	*	reserved
(160)	ADDRESS Prot	4	*	reserved
(164)	ADDRESS Prot	4	*	reserved
(168)	ADDRESS Prot	4	*	reserved
(16C)	CHARACTER Prot	0	*	
---------- BCA - buffer control area. ----------				
(0)	STRUCTURE Prot	56	BCA	
(0)	CHARACTER Prot	8	BCA_NAPO	(for offset to bca_nap/nfp)
(0)	SIGNED Prot	2	BCA_LEN	length of this entry
(2)	BIT(8) Prot	1	BCA_FLAGS	flags:
	1... .... Prot		BCA_TBW	='1'b, to-be-written
	.1.. .... Prot		BCA_LOCK	='1'b, buffer is locked
	..1. .... Prot		BCA_RECOV	='1'b, recoverable data written to buffer
	...1 .... Prot		BCA_WBUF	='1'b, write buffer

Table 676. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1111 Prot		*	reserved
(3)	UNSIGNED Prot	1	*	reserved
(4)	ADDRESS Prot	4	BCA_CHNP	-> next buffer control area
(8)	CHARACTER Prot	48	*	
(8)	ADDRESS Prot	4	BCA_NAP	-> next allocated bca
(8)	ADDRESS Prot	4	BCA_NFP	-> next free bca
(C)	ADDRESS Prot	4	BCA_BUFP	-> buffer
(10)	ADDRESS Prot	4	BCA_NASP	-> next available segment
(14)	SIGNED Prot	4	BCA_CIN	ci number (0 when buffer is empty)
(18)	SIGNED Prot	4	BCA_WCIN	ci number for write opns
(1C)	SIGNED Prot	4	BCA_RREFN	read reference number
(20)	ADDRESS Prot	4	BCA_LR13	-> lock owners R13
(24)	SIGNED Prot	4	BCA_RDN	number of reads
(28)	SIGNED Prot	4	BCA_WTN	number of writes
(2C)	ADDRESS Prot	4	BCA_NLP	-> next locked buffer
(30)	UNSIGNED Prot	1	BCA_CIB	segs in cin (from map)
(31)	UNSIGNED Prot	1	BCA_WCIB	segs in wcin(from map)
(32)	CHARACTER Prot	2	*	reserved
(34)	SIGNED Prot	4	*	reserved
(38)	CHARACTER Prot	0	*	
Bytes in byte map for ci and write ci in a bca.				
(0)	CHARACTER Prot	1	CIB	
(0)	CHARACTER Prot	1	WCIB	
---------- VCA - VSWA control area. ----------				
(0)	STRUCTURE Prot	20	VCA	

Table 676. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	SIGNED Prot	2	VCA_LEN	length of this block
(2)	BIT(8) Prot	1	VCA_FLAGS	flags:
	1... .... Prot		VCA_LOCK	='1'b, VCA is locked
	.1.. .... Prot		VCA_IOP	='1'b, I/O in progress
	..11 1111 Prot		*	reserved
(3)	CHARACTER Prot	1	*	reserved
(4)	ADDRESS Prot	4	VCA_CHNP	-> next VSWA control area
(8)	BIT(32) Prot	4	VCA_ECB	ECB for VSAM to post
(C)	SIGNED Prot	4	VCA_RBA	RBA field
(10)	ADDRESS Prot	4	VCA_VSWAP	-> VSWA
(14)	CHARACTER Prot	0	*	
---------- CTL - TS dataset control record. ----------				
(0)	STRUCTURE Prot	8	CTL	
(0)	CHARACTER Prot	8	CTL_NAME	control record name field
(8)	CHARACTER Prot	0	*	
---------- BCI - buffer control information. ----------				
(0)	STRUCTURE Prot	11	BCI	
(0)	UNSIGNED Prot	1	*	reserved
(1)	UNSIGNED Prot	1	BCI_NASN	next available segment no.
(2)	SIGNED Prot	2	BCI_CINR	records in ci
(4)	CHARACTER Prot	7	BCI_RDF	RDF information (for VSAM)
(4)	CHARACTER Prot	1	*	reserved
(5)	UNSIGNED Prot	2	BCI_RDFSG	segment
(7)	UNSIGNED Prot	2	BCI_RDFRE	free
(9)	CHARACTER Prot	2	*	reserved
(B)	CHARACTER Prot	0	*	

Table 676. (continued)

Offset Hex	Type	Len	Name (dim)	Description
---------- BMH - byte map header. ----------				
(0)	STRUCTURE Prot	16	BMH	
(0)	CHARACTER Prot	16	BMH_PREFIX	
(0)	SIGNED Prot	4	BMH_LENGTH	control block length
(4)	CHARACTER Prot	1	BMH_ARROW	'>'
(5)	CHARACTER Prot	3	BMH_DFH	'DFH'
(8)	CHARACTER Prot	2	BMH_DOMID	'TS'
(A)	CHARACTER Prot	6	BMH_BLOCK_NAME	'MAP'
(10)	CHARACTER Prot	0	BMH_MAP_START	start of byte map
---------- BMP - byte map. ----------				
(0)	UNSIGNED Prot	1	BMP (*)	
(0)	STRUCTURE Prot	4	LLBB	
(0)	UNSIGNED Prot	2	LL	
(2)	UNSIGNED Prot	2	BB	
(0)	STRUCTURE Prot	8	TSIOA	
(0)	CHARACTER Prot	8	TSIOA_EYECATCHER	
---------- SLR - section log record. ----------				
(0)	STRUCTURE Prot	44	SLR	
(0)	SIGNED Prot	2	SLR_LENGTH	record length
(2)	SIGNED Prot	2	SLR_PREV_OFFSET	offset to previous
(4)	CHARACTER Prot	4	SLR_RECORD_TYPE	'TSS'
(8)	CHARACTER Prot	16	SLR_QUEUE_NAME	queue name
(18)	CHARACTER Prot	8	SLR_TIME_STAMP	time stamp
(20)	UNSIGNED Prot	2	SLR_ITEM_NUMBER	item number

Table 676. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(22)	UNSIGNED Prot	2	SLR_SECTION_ NUMBER	
				section number
(24)	UNSIGNED Prot	2	SLR_NUMBER_ OF_SECTIONS	
				number of sections
(26)	UNSIGNED Prot	2	SLR_TOTAL_ LENGTH	total item length
(28)	UNSIGNED Prot	2	SLR_CI_NUMBER	control interval number
(2A)	UNSIGNED Prot	2	SLR_SECTION_ LENGTH	
				length of this section
(2C)	CHARACTER Prot	0	*	
---------- TSX - aux item descriptor. ----------				
(0)	STRUCTURE Prot	16	TSX	
(0)	CHARACTER Prot	8	TSX_TIME_STAMP	Item time stamp
(8)	SIGNED Prot	4	TSX_TOTAL_ LENGTH	total item length
(C)	ADDRESS Prot	4	TSX_TSSP	-> first TSS
---------- TSS - aux section descriptor. ----------				
(0)	STRUCTURE Prot	8	TSS	
(0)	ADDRESS Prot	4	TSS_NEXT	-> next TSS (or 0)
(4)	UNSIGNED Prot	2	TSS_CI_NUMBER	CI number
(6)	UNSIGNED Prot	2	TSS_SECTION_ LENGTH	
				length of section data
---------- XRH - aux record header. ----------				
(0)	STRUCTURE Prot	36	XRH	
(0)	SIGNED Prot	4	XRH_LENGTH	length of record (including header)
(4)	UNSIGNED Prot	2	XRH_ITEM_NUMBER	Item number

Table 676. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6)	UNSIGNED Prot	2	XRH_SECTION_ NUMBER	
				section number
(8)	CHARACTER Prot	8	XRH_TIME_STAMP	Item time stamp
(10)	CHARACTER Prot	16	XRH_QUEUE_NAME	Queue name
(20)	BIT(8) Prot	1	XRH_FLAGS	flags
	1... .... Prot		XRH_FMH	record has FMH
	.1.. .... Prot		XRH_RECOVERABLE	Queue is recoverable
	..1. .... Prot		XRH_REQUIRED	record is required (used during buffer compression)
	...1 1111 Prot		*	reserved
(21)	CHARACTER Prot	1	*	reserved
(22)	UNSIGNED Prot	2	XRH_SECTION_ LENGTH	
				data length of this section
(24)	CHARACTER Prot	0	XRH_DATA	start of section data
(0)	FIXED Publ	4	TSX_RESPONSE	

Constants

Table 677.

Len	Type	value	Name	Description
8	CHARACTER	ACA	ACA_BLOCK_ NAME_STRING	
8	CHARACTER	DFHTEMP	CTL_NAME_STRING	
6	CHARACTER	BMAP	BMH_BLOCK_ NAME_STRING	
8	CHARACTER	>TSIOA	TSIOA_EYECATCHER_ STRING	
4	DECIMAL	256	ZBMEXVAL	
---------- Miscellaneous constants. ----------				
4	DECIMAL	0	ZEMPTY	ci number for empty buffer
4	DECIMAL	1	ZMINREF	minimum ref no for a buffer
4	DECIMAL	0	TSX_OK	

Table 677. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1	TSX_DISASTER	
4	DECIMAL	2	TSX_PURGED	
4	DECIMAL	3	TSX_NOSPACE	
4	DECIMAL	4	TSX_CHECK_FAILED	
4	DECIMAL	5	TSX_IOERR	
4	DECIMAL	3	TSX_OPEN_FAILED	
4	DECIMAL	4	TSX_DATASET_EMPTY	
4	DECIMAL	5	TSX_CLOSE_FAILED	
4	DECIMAL	6	TSX_SHOWCB_FAILED	
4	DECIMAL	7	TSX_NO_CONTROL_ RECORD	

TSA Temporary Storage Anchor Block

```
!:refstep.dfhtsdcc_copy ------------------------------ DFHTSDC 67 -
!
!
! TS domain anchor block, catalog record, constants and trace
! points.
!
!--------------------------------------------------------------------
  TSA - TS Anchor block.
```

Table 678.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	116	TSA	
(0)	CHARACTER	16	TSA_PREFIX	
(0)	HALFWORD	2	TSA_LENGTH	control block length
(2)	CHARACTER	1	TSA_ARROW	'>'
(3)	CHARACTER	3	TSA_DFH	'DFH'
(6)	CHARACTER	2	TSA_DOMID	'TS'
(8)	CHARACTER	8	TSA_BLOCK_NAME	'TSANCHOR'
(10)	CHARACTER	8	TSA_TSGENRAL_ SPTOKEN	
				tsgenral subpool token
(18)	ADDRESS	4	TSA_TSNAME_ CLASSP	-> tsname class anchor
(1C)	ADDRESS	4	TSA_TSQUEUE_ CLASSP	-> tsqueue class anchor
(20)	ADDRESS	4	TSA_TSMAIN_ CLASSP	-> tsmain class anchor
(24)	ADDRESS	4	TSA_TSWAITQ_ CLASSP	-> tswaitq class anchor

Table 678. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	ADDRESS	4	TSA_TSOLOCK_ CLASSP	-> tsolock class anchor
(2C)	ADDRESS	4	TSA_TSRLOCK_ CLASSP	-> tsrlock class anchor
(30)	ADDRESS	4	TSA_TSLOCK	TS domain global lock
(34)	ADDRESS	4	TSA_TSAUX_CLASSP	-> tsaux class anchor
(38)	UNSIGNED	1	TSA_TS_STATE	TS domain state
(39)	UNSIGNED	1	TSA_START	start type (see below)
(3A)	BIT(8)	1	TSA_FLAGS	flags
	1...		TSA_MAIN_ONLY	main-only support
	.1..		TSA_XTSQRIN_ ACTIVE	
				xtsqrin exit active
	..1.		TSA_XTSQROUT_ ACTIVE	
				xtsqrout exit active
	...1		TSA_XTSPTIN_ ACTIVE	
				xtsptin exit active
	.... 1...		TSA_XTSPTOUT_ ACTIVE	
				xtsptout exit active
	.... .1..		TSA_XRSINDI_ ACTIVE	
				xrsindi exit active
	.... ..1.		TSA_RDO_ENABLED	RDO for TST available
	1		*	reserved
(3B)	CHARACTER	1	*	reserved
(3C)	ADDRESS	4	TSA_TSTP	-> TST (or 0)
(40)	CHARACTER	8	TSA_LAST_ COLD_START_TIME	
				last cold start time
(48)	FULLWORD	4	TSA_BUFFERS	number of buffers

Table 678. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	FULLWORD	4	TSA_STRINGS	number of strings
(50)	CHARACTER	8	TSA_STATS_ RESET_TIME	
				time stats last reset
(58)	ADDRESS	4	TSA_SHARED_ ANCHORP	-> shared TS anchor block
(5C)	ADDRESS	4	TSA_SYSID_ TABLE_TOKEN	
				-> shared sysid table
(60)	CHARACTER	8	TSA_AGING_TIME	age queues created before this time
(68)	ADDRESS	4	TSA_TSMODEL_ CLASSP	-> tsmodel class anchor
(6C)	ADDRESS	4	*	reserved
(70)	ADDRESS	4	*	reserved
(74)	CHARACTER	0	*	

`XMAT attach parms for CTSD delete recoverable queue transaction`

Table 679.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	CTSD_ATTACH_PARMS	
(0)	CHARACTER	16	CTSD_QUEUE_NAME	
(10)	CHARACTER	8	CTSD_LASTREF_ TIME	

`Catalog record.`

Table 680.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	CAT	
(0)	BIT(8)	1	CAT_FLAGS	
	1...		CAT_START_COLD	='1'b, cold start requested
	.111 1111		*	
(1)	CHARACTER	3	*	reserved
(4)	FULLWORD	4	CAT_BUFFERS	number of buffers requested
(8)	FULLWORD	4	CAT_STRINGS	number of strings requested
(C)	CHARACTER	0	*	

Constants

Table 681.

Len	Type	value	Name	Description
Start types.				
4	DECIMAL	1	TSA_START_COLD	
4	DECIMAL	2	TSA_START_WARM	
4	DECIMAL	3	TSA_START_EMERGENCY	
4	DECIMAL	4	TSA_START_AUTO	
8	CHARACTER	TSDOMAIN	CAT_TYPE	
8	CHARACTER	TSSTATE	CAT_NAME	
Constants.				
2	CHARACTER	TS	COMPID	
8	CHARACTER	TSLOCK	TSLOCK_NAME	
1	CHARACTER	>	ARROW	
3	CHARACTER	DFH	DFH	
4	DECIMAL	3	DEFAULT_BUFFERS	
4	DECIMAL	3	DEFAULT_STRINGS	
SM domain states.				
4	DECIMAL	1	INITIALISING	
4	DECIMAL	2	INITIALISED	
4	DECIMAL	3	QUIESCING	
4	DECIMAL	4	QUIESCED	
4	DECIMAL	5	TERMINATED	
Standard message numbers and system dumpcode values.				
4	DECIMAL	1	MNO_ABEND	
8	CHARACTER	TS0001	DCD_ABEND	
4	DECIMAL	2	MNO_SEVERE_ERROR	
8	CHARACTER	TS0002	DCD_SEVERE_ERROR	
Non-standard message numbers.				
4	DECIMAL	100	MNO_INITIALISATION_STARTED	
4	DECIMAL	101	MNO_INITIALISATION_ENDED	
4	DECIMAL	102	MNO_FORMATTING_DATASET	
4	DECIMAL	103	MNO_INVALID_RDO_SWITCH	
Trace point id's.				
2	HEX	0101	TID_TSDM_ENTRY	
2	HEX	0102	TID_TSDM_EXIT	
2	HEX	0103	TID_TSDM_RECOVERY	

Table 681. (continued)

Len	Type	value	Name	Description
2	HEX	0104	TID_TSDM_ INVALID_FORMAT	
2	HEX	0105	TID_TSDM_ INVALID_FUNCTION	
2	HEX	0201	TID_TSQR_ENTRY	
2	HEX	0202	TID_TSQR_EXIT	
2	HEX	0203	TID_TSQR_RECOVERY	
2	HEX	0204	TID_TSQR_ INVALID_FORMAT	
2	HEX	0205	TID_TSQR_ INVALID_FUNCTION	
2	HEX	0206	TID_TSQR_ UNLOCK_ERROR_RECOVERY	
2	HEX	0301	TID_TSPT_ENTRY	
2	HEX	0302	TID_TSPT_EXIT	
2	HEX	0303	TID_TSPT_RECOVERY	
2	HEX	0304	TID_TSPT_ INVALID_FORMAT	
2	HEX	0305	TID_TSPT_ INVALID_FUNCTION	
2	HEX	0306	TID_TSPT_ UNLOCK_ERROR_RECOVERY	
2	HEX	0401	TID_TSRM_ENTRY	
2	HEX	0402	TID_TSRM_EXIT	
2	HEX	0403	TID_TSRM_RECOVERY	
2	HEX	0404	TID_TSRM_ INVALID_FORMAT	
2	HEX	0405	TID_TSRM_ RMRO_INVALID_FUNCTION	
2	HEX	0406	TID_TSRM_ RMDE_INVALID_FUNCTION	
2	HEX	0407	TID_TSRM_ RMKP_INVALID_FUNCTION	
2	HEX	0408	TID_TSRM_ UNLOCK_ERROR_RECOVERY	
2	HEX	0409	TID_TSRM_ TSIC_INVALID_FUNCTION	
2	HEX	040A	TID_TSRM_ QUEUE_RECOVERY_ ERR1	
2	HEX	040B	TID_TSRM_ QUEUE_RECOVERY_ ERR2	

Table 681. (continued)

Len	Type	value	Name	Description
2	HEX	040C	TID_TSRM_ SECTION_RECOVERY_ ERR1	
2	HEX	040D	TID_TSRM_ SECTION_RECOVERY_ ERR2	
2	HEX	040E	TID_TSRM_ SECTION_RECOVERY_ ERR3	
2	HEX	040F	TID_TSRM_ INVALID_LOG_RECORD	
2	HEX	0410	TID_TSRM_ INV_INDOUBT_OPERATION	
2	HEX	0501	TID_TSST_ENTRY	
2	HEX	0502	TID_TSST_EXIT	
2	HEX	0503	TID_TSST_RECOVERY	
2	HEX	0504	TID_TSST_ INVALID_FORMAT	
2	HEX	0505	TID_TSST_ INVALID_FUNCTION	
2	HEX	0506	TID_TSST_ UNLOCK_ERROR_RECOVERY	
2	HEX	0507	TID_TSST_ STATS_BUFFER_TOO_ SMALL	
2	HEX	0601	TID_TSSR_ENTRY	
2	HEX	0602	TID_TSSR_EXIT	
2	HEX	0603	TID_TSSR_RECOVERY	
2	HEX	0604	TID_TSSR_ INVALID_FORMAT	
2	HEX	0605	TID_TSSR_ INVALID_FUNCTION	
2	HEX	0606	TID_TSSR_ UNLOCK_ERROR_RECOVERY	
2	HEX	0607	TID_TSSR_ INVALID_EXIT_POINT	
2	HEX	0701	TID_TSBR_ENTRY	
2	HEX	0702	TID_TSBR_EXIT	
2	HEX	0703	TID_TSBR_RECOVERY	
2	HEX	0704	TID_TSBR_ INVALID_FORMAT	
2	HEX	0705	TID_TSBR_ INVALID_FUNCTION	
2	HEX	0706	TID_TSBR_ UNLOCK_ERROR_RECOVERY	

Table 681. (continued)

Len	Type	value	Name	Description
2	HEX	0801	TID_TSWQ_ENTRY	
2	HEX	0802	TID_TSWQ_EXIT	
2	HEX	0803	TID_TSWQ_RECOVERY	
2	HEX	0804	TID_TSWQ_ INVALID_FORMAT	
2	HEX	0805	TID_TSWQ_ INVALID_FUNCTION	
2	HEX	0806	TID_TSWQ_ UNLOCK_ERROR_RECOVERY	
2	HEX	0807	TID_TSWQ_ DSSR_INQUIRE_SUSPEND	
2	HEX	0808	TID_TSWQ_ BEFORE_SUSPEND	
2	HEX	0809	TID_TSWQ_ AFTER_SUSPEND	
2	HEX	0901	TID_TSAM_ENTRY	
2	HEX	0902	TID_TSAM_EXIT	
2	HEX	0903	TID_TSAM_RECOVERY	
2	HEX	0904	TID_TSAM_ INVALID_FORMAT	
2	HEX	0905	TID_TSAM_ INVALID_FUNCTION	
2	HEX	0906	TID_TSAM_ 1310_ABEND_1	
2	HEX	0907	TID_TSAM_ 1310_ABEND_2	
2	HEX	0908	TID_TSAM_ 1310_ABEND_3	
2	HEX	0909	TID_TSAM_ 1310_ABEND_4	
2	HEX	090A	TID_TSAM_ 1310_ABEND_5	
2	HEX	090B	TID_TSAM_ 1310_ABEND_6	
2	HEX	090C	TID_TSAM_ 1310_ABEND_7	
2	HEX	090D	TID_TSAM_ 1310_ABEND_8	
2	HEX	090E	TID_TSAM_ 1310_ABEND_9	
2	HEX	090F	TID_TSAM_ 1310_ABEND_10	
2	HEX	0910	TID_TSAM_ 1310_ABEND_11	
2	HEX	0A01	TID_TSSH_ENTRY	

Table 681. (continued)

Len	Type	value	Name	Description
2	HEX	0A02	TID_TSSH_EXIT	
2	HEX	0A03	TID_TSSH_RECOVERY	
2	HEX	0A04	TID_TSSH_ INVALID_FORMAT	
2	HEX	0A05	TID_TSSH_ INVALID_FUNCTION	
2	HEX	0A06	TID_TSSH_ UNLOCK_ERROR_RECOVERY	
2	HEX	0A07	TID_TSSH_ BEFORE_CONNECT	
2	HEX	0A08	TID_TSSH_ AFTER_CONNECT	
2	HEX	0A09	TID_TSSH_ BEFORE_QUERY_SERVER	
2	HEX	0A0A	TID_TSSH_ AFTER_QUERY_SERVER	
2	HEX	0A0B	TID_TSSH_ BEFORE_SERVER_ REQUEST	
2	HEX	0A0C	TID_TSSH_ AFTER_SERVER_REQUEST	
2	HEX	0A0D	TID_TSSH_ BEFORE_CLOSE	
2	HEX	0A0E	TID_TSSH_ AFTER_CLOSE	
2	HEX	0B01	TID_TSAD_ENTRY	
2	HEX	0B02	TID_TSAD_EXIT	
2	HEX	0B03	TID_TSAD_RECOVERY	
2	HEX	0B04	TID_TSAD_ INVALID_FORMAT	
2	HEX	0B05	TID_TSAD_ INVALID_FUNCTION	
2	HEX	0B06	TID_TSAD_ UNLOCK_ERROR_RECOVERY	
2	HEX	0C01	TID_TSMB_ENTRY	
2	HEX	0C02	TID_TSMB_EXIT	
2	HEX	0C03	TID_TSMB_RECOVERY	
2	HEX	0C04	TID_TSMB_ INVALID_FORMAT	
2	HEX	0C05	TID_TSMB_ INVALID_FUNCTION	
2	HEX	0C06	TID_TSMB_ UNLOCK_ERROR_RECOVERY	
2	HEX	F701	TID_TSP_ENTRY	
2	HEX	F702	TID_TSP_EXIT	

Table 681. (continued)

Len	Type	value	Name	Description
2	HEX	F703	TID_TSP_INVALID_ REQUEST	
2	HEX	F704	TID_EITS_ENTRY	
2	HEX	F705	TID_EITS_EXIT	
2	HEX	F706	TID_EITS_RECOVERY	
2	HEX	F707	TID_EITS_ INVALID_FORMAT	
2	HEX	F708	TID_EITS_ INVALID_FUNCTION	
2	HEX	F709	TID_EITS_ INVALID_TS_FUNCTION	
2	HEX	F711	TID_TSDQ_ENTRY	
2	HEX	F712	TID_TSDQ_EXIT	
2	HEX	F713	TID_TSDQ_ERROR	

TSMN Temporary Storage Model Class

```
!:refstep.dfhtsmdc ------------------------------------ DFHTSMD 76 -
!
!
! TSMODEL class.
!
!--------------------------------------------------------------------
```

Table 682.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	4	TSMODEL	
INSTANCE DATA				
Declared Data				
(0)	CHARACTER Priv	4	*	
---------- MDA - TS model class anchor block. ----------				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	44	MDA	
(0)	CHARACTER Prot	8	MDA_EYECATCHER	'TSMDA '
(8)	CHARACTER Prot	8	MDA_MDB_SPTOKEN	MDB subpool token
(10)	CHARACTER Prot	8	MDA_MBR_SPTOKEN	MBR subpool token
(18)	CHARACTER Prot	8	MDA_MDBHEAD	

Table 682. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	ADDRESS Prot	4	MDA_MDB_FIRST	-> first mdb
(1C)	ADDRESS Prot	4	MDA_MDB_LAST	-> last mdb
(20)	CHARACTER Prot	8	MDA_MBRHEAD	
(20)	ADDRESS Prot	4	MDA_MBR_FIRST	-> first mbr
(24)	ADDRESS Prot	4	MDA_MBR_LAST	-> last mbr
(28)	ADDRESS Prot	4	MDA_DEFAULT_MDBP	-> default mdb
(2C)	CHARACTER Prot	0	*	
---------- MDB - TS model block. ----------				
(0)	STRUCTURE Prot	120	MDB	
(0)	CHARACTER Prot	8	MDB_MDBHEAD	chain fields
(0)	ADDRESS Prot	4	MDB_NEXT	-> next mdb
(4)	ADDRESS Prot	4	MDB_PREV	-> previous mdb
(8)	CHARACTER Prot IsA(TSMODELNAME)	8	MDB_NAME	model name field
(10)	CHARACTER Prot	16	MDB_QNAME	queue name field
(20)	CHARACTER Prot IsA(TSPREFIX)	16	MDB_PREFIX	prefix (as input)
(30)	CHARACTER Prot	16	MDB_PREFIX_MASK	prefix mask (0s for wild)
(40)	CHARACTER Prot IsA(TSPREFIX)	16	MDB_MASKED_PREFIX	mask and-ed with prefix
(50)	SIGNED Prot	4	MDB_PREFIXLEN	significant length of prefix
(54)	BIT(8) Prot	1	MDB_FLAGS	flags
	1... .... Prot		MDB_MAIN	='1'b, main
	.1.. .... Prot		MDB_RECOVERABLE	='1'b, recoverable
	..1. .... Prot		MDB_SECURITY	='1'b, security
	...1 .... Prot		MDB_DEFAULT	='1'b, default mdb
	.... 1111 Prot		*	reserved
(55)	CHARACTER Prot	3	*	reserved

Table 682. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	CHARACTER Prot IsA(POOLNAME)	8	MDB_POOL_NAME	pool name
(60)	ADDRESS Prot	4	MDB_POOL_TOKEN	pool token
(64)	CHARACTER Prot IsA(TSSYSID)	4	MDB_SYSID	sysid
(68)	CHARACTER Prot IsA(TSPREFIX)	16	MDB_REMOTE_ PREFIX	remote prefix
(78)	CHARACTER Prot	0	*	
---------- MBR - tsmodel browse block. ----------				
(0)	STRUCTURE Prot	52	MBR	
(0)	CHARACTER Prot	8	MBR_MBRHEAD	chain fields
(0)	ADDRESS Prot	4	MBR_NEXT	-> next mbr
(4)	ADDRESS Prot	4	MBR_PREV	-> previous mbr
(8)	CHARACTER Prot	4	MBR_TRANID	browsing tranid
(C)	CHARACTER Prot	4	MBR_TRANNUM	browsing tran number
(10)	CHARACTER Prot	8	MBR_TRANTOKEN	browsing tran token
(18)	CHARACTER Prot IsA(TSPREFIX)	16	MBR_PREFIX	current cursor value
(28)	SIGNED Prot	4	*	Reserved (was change count).
(2C)	ADDRESS Prot	4	*	Reserved (was -> current mdb)
(30)	ADDRESS Prot	4	*	reserved
(0)	CHARACTER Publ	8	TSMODELNAME	
(0)	CHARACTER Publ	16	TSPREFIX	
(0)	CHARACTER Publ	8	POOLNAME	
(0)	CHARACTER Publ	4	TSSYSID	
(0)	FIXED Publ	4	MDL_RESPONSE	

Constants

Table 683.

Len	Type	value	Name	Description
---------- Constants. ----------				
1	CHARACTER	+	WILDCHAR	
1	CHARACTER		BLANK	
0	BIT	1	TRUE	
0	BIT	0	FALSE	
8	CHARACTER	>TSMDA	MDA_EYECATCHER_ STRING	
8	CHARACTER	TSMODEL	TSMD_MODEL_TYPE	
8	CHARACTER	TSRDO4TS	TSMD_RDO_TYPE	
8	CHARACTER	STATUS	TSMD_RDO_NAME	
8	CHARACTER	ENABLED	TSMD_RDO_ENABLED	
8	CHARACTER	DISABLED	TSMD_RDO_DISABLED	
4	DECIMAL	100	CACHECAP	Limit for cache chain
4	DECIMAL	0	MDL_OK	
4	DECIMAL	1	MDL_NOT_FOUND	
4	DECIMAL	2	MDL_DUPLICATE_NAME	
4	DECIMAL	3	MDL_DUPLICATE_PREFIX	
4	DECIMAL	4	MDL_END_BROWSE	
4	DECIMAL	5	MDL_INVALID_PREFIX	
4	DECIMAL	6	MDL_PURGED	
4	DECIMAL	7	MDL_DISASTER	
4	DECIMAL	8	MDL_INVALID_NAME	
4	DECIMAL	9	MDL_INVALID_ BROWSE_TOKEN	
4	DECIMAL	10	MDL_CATALOG_ERROR	

TSMN Temporary Storage Main Class

```
!:refstep.dfhtsmnc ------------------------------------ DFHTSMN 69 -
!
!
! TSMAIN class.
!
!-------------------------------------------------------------------
```

Table 684.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	4	TSMAIN	
INSTANCE DATA				
Declared Data				

Table 684. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER Priv	4	*	
!:refstep.tsmain_class_data ---------- DFHTSMN 177 - ! ! Note that set storage address/length a temporary for testing under ! CMS. ! !---------- ---------- TSM - tsmain class anchor. ----------				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	88	TSM_CLASS_ANCHOR	
(0)	SIGNED Prot	4	TSM_NMP	number main put/putq's
(4)	SIGNED Prot	4	TSM_NMG	number of main get/getq's
(8)	SIGNED Prot	4	TSM_CURV	current tsmain storage
(C)	SIGNED Prot	4	TSM_MAXV	peak tsmain storage
(10)	CHARACTER Prot	8	TSM_SPTOKEN (0-8)	fixed sp tokens
(58)	CHARACTER Prot	0	*	
---------- TSM - main item header. ----------				
(0)	STRUCTURE Prot	8	TSM	
(0)	CHARACTER Prot	8	TSM_PREFIX	
(0)	CHARACTER Prot	4	TSM_EYECATCHER	'TSM'
(4)	BIT(16) Prot	2	TSM_FLAGS	flags
(4)	BIT(8) Prot	1	*	
	1... .... Prot		TSM_FMH	header in data
	.111 1111 Prot		*	reserved
(5)	CHARACTER Prot	1	*	reserved
(6)	UNSIGNED Prot	2	TSM_LENGTH	item data length
(8)	CHARACTER Prot	0	TSM_DATA	start of user data
---------- LLBB - length header. ----------				

Table 684. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE Prot	4	LLBB	
(0)	UNSIGNED Prot	2	LL	length
(2)	UNSIGNED Prot	2	BB	'0000'x
---------- TSIOA - tsioa eyecatcher. ----------				
(0)	STRUCTURE Prot	8	TSIOA	
(0)	CHARACTER Prot	8	TSIOA_EYECATCHER	
---------- Fixed length subpool arrays. ----------				
(0)	SIGNED Prot	2	TSM_FIXED_ LENGTH_TAB (8)	
(10)	CHARACTER Prot	4	TSM_SUFFIX_TAB (8)	
!:erefstep.tsmain_class_data ----------				
(0)	FIXED Publ	4	TSM_RESPONSE	

Constants

Table 685.

Len	Type	value	Name	Description
---------- Constants. ----------				
4	DECIMAL	8	FIXED_SUBPOOLS	
4	DECIMAL	64	FIXED_LENGTH_ MULTIPLE	
4	DECIMAL	64	VARIABLE_ SUBPOOL_BOUNDARY	
4	DECIMAL	512	FIXED_LENGTH_MAXIMUM	
4	CHARACTER	TSMN	TSM_SPPREFIX	
4	CHARACTER	>TSM	TSM_EYECATCHER_ VALUE	
8	CHARACTER	>TSIOA	TSIOA_EYECATCHER_ STRING	
4	DECIMAL	0	TSM_OK	
4	DECIMAL	1	TSM_INVALID_ EYECATCHER	
4	DECIMAL	2	TSM_PURGED	
4	DECIMAL	3	TSM_DISASTER	
4	DECIMAL	4	TSM_NOSPACE	

TSNM Temporary Storage Name Class

```
!:refstep.dfhtsnmc ------------------------------------ DFHTSNM 66 -
!
!
! TSNAME class.
!
!--------------------------------------------------------------------
```

Table 686.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	4	TSNAME	
INSTANCE DATA				
Declared Data				
(0)	CHARACTER Priv	4	*	
---------- TSN - tsname class anchor block. ----------				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	56	TSN_CLASS_ANCHOR	
(0)	ADDRESS Prot	4	TSN_ROOTP	-> root node
(4)	ADDRESS Prot	4	*	reserved
(8)	CHARACTER Prot	8	TSN_DTN_SPTOKEN	tsdtn subpool token
(10)	CHARACTER Prot	8	TSN_TSQ_SPTOKEN	tsqueue subpool token
(18)	CHARACTER Prot	8	TSN_BRB_SPTOKEN	tsbrb subpool token
(20)	CHARACTER Prot	12	*	statistics
(20)	SIGNED Prot	4	TSN_QNUM	number of queues
(24)	SIGNED Prot	4	TSN_QNUMH	peak number of queues
(28)	SIGNED Prot	4	TSN_NQCR	times queue created
(2C)	SIGNED Prot	4	TSN_CHANGE_ COUNT	directory change count
(30)	CHARACTER Prot	8	TSN_BRBHEAD	
(30)	ADDRESS Prot	4	TSN_BRB_FIRST	-> first browse block
(34)	ADDRESS Prot	4	TSN_BRB_LAST	-> last browse block
(38)	CHARACTER Prot	0	*	

Table 686. (continued)

Offset Hex	Type	Len	Name (dim)	Description
---------- DTN - digital tree node. ----------				
(0)	STRUCTURE Prot	88	DTN	
(0)	CHARACTER Prot	16	DTN_NAME	name field
(10)	ADDRESS Prot	4	DTN_UP	-> up node (or zero)
(14)	UNSIGNED Prot	1	DTN_OFFSET	offset to byte containing index digit
(15)	UNSIGNED Prot	1	DTN_SUBTRACT	value to subtract to isolate index digit
(16)	UNSIGNED Prot	1	DTN_SHIFT	shift value to islolate index digit
(17)	UNSIGNED Prot	1	DTN_DOWN_COUNT	count of non-zero down pointers
(18)	ADDRESS Prot	4	DTN_DOWN (0-15)	down pointer array
(58)	CHARACTER Prot	0	DTN_END	end of down pointer array
---------- BRB - browse block. ----------				
(0)	STRUCTURE Prot	56	BRB	
(0)	ADDRESS Prot	4	BRB_NEXT	-> next brb
(4)	ADDRESS Prot	4	BRB_PREV	-> previous brb
(8)	CHARACTER Prot	4	BRB_TRANID	browsing tranid
(C)	CHARACTER Prot	4	BRB_TRANNUM	browsing tran number
(10)	CHARACTER Prot	8	BRB_TRANTOKEN	browsing tran token
(18)	CHARACTER Prot	16	BRB_NAME	current name value
(28)	SIGNED Prot	4	BRB_CHANGE_ COUNT	change count at last get_next
(2C)	ADDRESS Prot	4	BRB_NODEP	-> current node
(30)	ADDRESS Prot	4	BRB_SLOTP	-> current slot within node
(34)	ADDRESS Prot	4	*	reserved
(0)	FIXED Publ	4	TSN_RESPONSE	

Constants

Table 687.

Len	Type	value	Name	Description
4	DECIMAL	0	TSN_OK	
4	DECIMAL	1	TSN_NOT_FOUND	
4	DECIMAL	2	TSN_DUPLICATE	
4	DECIMAL	3	TSN_END_BROWSE	
4	DECIMAL	4	TSN_INVALID_PREFIX	
4	DECIMAL	5	TSN_PURGED	
4	DECIMAL	6	TSN_DISASTER	
4	DECIMAL	7	TSN_INVALID_NAME	

TSOL Temporary Storage Ownership Lock Class

```
!:refstep.dfhtsolc ----------------------------------- DFHTSOL 67 -
!
!
! TSOLOCK class.
!
!-------------------------------------------------------------------
```

Table 688.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	4	TSOLOCK	
---------- TSO - TS ownership lock. ----------				
INSTANCE DATA				
Declared Data				
(0)	ADDRESS Prot	4	TSO_QOBP	-> queue ownership block
---------- QAB - queue ownership anchor block. ----------				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	560	QAB	
(0)	CHARACTER Prot	8	QAB_PREFIX	
(0)	ADDRESS Prot	4	QAB_NEXT	-> next QAB
(4)	ADDRESS Prot	4	QAB_PREV	-> previous QAB
(8)	CHARACTER Prot	8	QAB_UOWID	UOW id
(10)	ADDRESS Prot	4	QAB_TASK_TOKEN	task token
(14)	CHARACTER Prot	4	QAB_TRANSACTION_ NUMBER	

Table 688. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				transaction number
(18)	CHARACTER Prot	8	QAB_QOBHEAD	
(18)	ADDRESS Prot	4	QAB_QOB_FIRST	-> first QOB
(1C)	ADDRESS Prot	4	QAB_QOB_LAST	-> last QOB
(20)	CHARACTER Prot	8	QAB_MDBHEAD	
(20)	ADDRESS Prot	4	QAB_MDB_FIRST	-> first MDB
(24)	ADDRESS Prot	4	QAB_MDB_LAST	-> last MDB
(28)	BIT(8) Prot	1	QAB_FLAGS	
	1... .... Prot		QAB_SHUNTED	UOW has been shunted
	.1.. .... Prot		QAB_UNSHUNTED	UOW has been unshunted
	..11 1111 Prot		*	
(29)	CHARACTER Prot	3	*	
(2C)	CHARACTER Prot	16	QAB_LOG_ BUFFER_HEADER	
(3C)	CHARACTER Prot	500	QAB_LOG_BUFFER	
---------- QOB - queue ownership block. ----------				
(0)	STRUCTURE Prot	44	QOB	
(0)	CHARACTER Prot	8	QOB_PREFIX	
(0)	ADDRESS Prot	4	QOB_NEXT	-> next QOB for this UOW
(4)	ADDRESS Prot	4	QOB_PREV	-> previous QOB for this UOW
(8)	CHARACTER Prot	16	QOB_QUEUE_NAME	queue name
(18)	OBJECT Prot IsA(TSWAITQ)	8	QOB_WAITQ	ownership wait queue
---------- TSW - TS wait queue head. ----------				
(18)	CHARACTER Prot	8	TSW_HEAD	
(18)	ADDRESS Prot	4	TSW_FIRST	-> first wait queue element
(1C)	ADDRESS Prot	4	TSW_LAST	-> last wait queue element

Table 688. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	ADDRESS Prot	4	QOB_QABP	-> QAB
(24)	ADDRESS Prot	4	QOB_QTOKEN	queue token
(28)	ADDRESS Prot	4	QOB_NQTOKEN	enqueue token
(2C)	CHARACTER Prot	0	*	
---------- TSO - tsolock class anchor block. ----------				
(0)	STRUCTURE Prot	2052	TSO_CLASS_ANCHOR	
(0)	CHARACTER Prot	8	TSO_QAB_SPTOKEN	qab subpool token
(8)	CHARACTER Prot	8	TSO_QOB_SPTOKEN	qob subpool token
(10)	ADDRESS Prot	4	TSO_NQTOKEN	enq pool token
(14)	ADDRESS Prot	4	*	reserved
(18)	CHARACTER Prot	8	TSO_QABHEAD	
(18)	ADDRESS Prot	4	TSO_QAB_FIRST	-> first qab
(1C)	ADDRESS Prot	4	TSO_QAB_LAST	-> last qab
(20)	ADDRESS Prot	4	*	reserved
(24)	CHARACTER Prot	16	TSO_KEYPT_ BUFFER_HEADER	
(34)	CHARACTER Prot	2000	TSO_KEYPT_ BUFFER	
(804)	CHARACTER Prot	0	*	
---------- LBH - log buffer header. ----------				
(0)	STRUCTURE Prot	16	LBH	
(0)	ADDRESS Prot	4	LBH_P	address of buffer
(4)	UNSIGNED Prot	4	LBH_N	length of data in buffer
(8)	SIGNED Prot	4	LBH_M	total length of buffer
(C)	SIGNED Prot	4	*	reserved
(0)	FIXED Publ	4	TSO_RESPONSE	

Constants

Table 689.

Len	Type	value	Name	Description
---------- Constants. ----------				
4	DECIMAL	500	QAB_LOG_BUFFER_ LENGTH	
4	DECIMAL	2000	TSO_KEYPT_ BUFFER_LENGTH	
4	DECIMAL	0	TSO_OK	
4	DECIMAL	1	TSO_PURGED	
4	DECIMAL	2	TSO_DISASTER	
4	DECIMAL	3	TSO_RESTART	
4	DECIMAL	4	TSO_LOCKED	

TSQU Temporary Storage Queue Class

```
!:refstep.dfhtsquc ------------------------------------ DFHTSQU 94 -
!
!
! TSQUEUE class.
!
!----------------------------------------------------------------------
```

Table 690.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	144	TSQUEUE	
---------- TSQ - TS queue control block. ----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	144	TSQ	
(0)	CHARACTER Prot	20	TSQ_PREFIX	
(0)	CHARACTER Prot	16	TSQ_NAME	queue name
(10)	ADDRESS Prot	4	TSQ_UP	-> "up" node
(14)	CHARACTER Prot	124	TSQ_REST	
(14)	ADDRESS Prot	4	TSQ_FIRST_TSIP	-> first TSI
(18)	ADDRESS Prot	4	TSQ_LAST_TSIP	-> last TSI
(1C)	SIGNED Prot	4	TSQ_TOTAL_ ITEMS	total items
(20)	SIGNED Prot	4	TSQ_READ_ CURSOR	read cursor
(24)	ADDRESS Prot	4	TSQ_READ_TSIP	-> read TSI

Table 690. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	OBJECT Prot IsA(TSRLOCK)	16	TSQ_REQUEST_ LOCK	request lock
(28)	OBJECT Prot IsA(TSWAITQ)	8	TSR_WAITQ	
---------- TSW - TS wait queue head. ----------				
(28)	CHARACTER Prot	8	TSW_HEAD	
(28)	ADDRESS Prot	4	TSW_FIRST	-> first wait queue element
(2C)	ADDRESS Prot	4	TSW_LAST	-> last wait queue element
---------- TSR - TS queue request lock. ----------				
(30)	ADDRESS Prot	4	TSR_OWNER	
(38)	OBJECT Prot IsA(TSOLOCK)	4	TSQ_OWNERSHIP_ LOCK	
				ownership lock
---------- TSO - TS ownership lock. ----------				
(38)	ADDRESS Prot	4	TSO_QOBP	-> queue ownership block
(3C)	SIGNED Prot	4	TSQ_COMMITTED_ ITEMS	
				committed item count
(40)	CHARACTER Prot	8	TSQ_QUBHEAD	qub chain header
(40)	ADDRESS Prot	4	TSQ_QUB_FIRST	-> first QUB
(44)	ADDRESS Prot	4	TSQ_QUB_LAST	-> last QUB
(48)	CHARACTER Prot	8	TSQ_CREATION_ TIME	
				time created
(50)	CHARACTER Prot	8	TSQ_LAST_ REFERENCED_TIME	
				time last referenced
(58)	CHARACTER Prot	4	TSQ_TRANSID	creating transid
(5C)	ADDRESS Prot	4	TSQ_IC_DATA_P	-> ic data (or 0)
(60)	BIT(16) Prot	2	TSQ_FLAGS	(see below)
(62)	UNSIGNED Prot	1	TSQ_FIRST_ OPERATION	

Table 690. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				first operation ("put" queues only)
(63)	CHARACTER Prot	1	*	reserved
(64)	ADDRESS Prot	4	TSQ_OLD_ IC_DATA_P	
				-> old ice (or 0)
(68)	CHARACTER Prot	8	TSQ_OLD_ CREATION_TIME	
				creation time for backout
(70)	SIGNED Prot	4	TSQ_TSI_ADDR (8)	ptr array
(90)	CHARACTER Prot	0	*	
---------- TSQ flags. ----------				
(60)	BIT(16) Publ	2	TSQ_FLAG_BYTES	
(60)	BIT(8) Publ	1	*	
	1... .... Publ		TSQ_MAIN	='1'b, queue is main
	.1.. .... Publ		TSQ_BMS	='1'b, queue owned by BMS
	..1. .... Publ		TSQ_IC	='1'b, queue owned by ICP
	...1 .... Publ		TSQ_PUT	='1'b, put-type queue
	.... 1... Publ		TSQ_RECOVERABLE	='1'b, queue recoverable
	.... .1.. Publ		TSQ_DELETED	='1'b, logically deleted
	.... ..1. Publ		TSQ_OWNED	='1'b, queue is owned
	....1 Publ		TSQ_SHUNTED	='1'b, queue is shunted
(61)	BIT(8) Publ	1	*	
	1... .... Publ		TSQ_DISCARD	='1'b, will discard queue
	.1.. .... Publ		TSQ_NEW	='1'b, queue just created
	..1. .... Publ		TSQ_DELETE_ SEEN	='1'b, delete seen (log)
	...1 1111 Publ		*	reserved

Table 690. (continued)

Offset Hex	Type	Len	Name (dim)	Description
---------- TSI - TS item descriptor. ----------				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	8	TSI	item descriptor
(0)	ADDRESS Prot	4	TSI_NEXT	-> next TSI
(4)	ADDRESS Prot	4	TSI_ITEMT	item token
---------- QUB - queue update block. ----------				
(0)	STRUCTURE Prot	20	QUB	queue update block
(0)	ADDRESS Prot	4	QUB_NEXT	-> next QUB
(4)	ADDRESS Prot	4	QUB_PREV	-> previous QUB
(8)	SIGNED Prot	4	QUB_ITEM_NUMBER	item number updated
(C)	ADDRESS Prot	4	QUB_OLD_ITEMT	before image token
(10)	ADDRESS Prot	4	QUB_TSIP	-> tsi for after image
---------- TSQ - class anchor block. ----------				
(0)	STRUCTURE Prot	36	TSQ_CLASS_ANCHOR	
(0)	CHARACTER Prot	8	TSQ_TSI_SPTOKEN	TSI subpool token
(8)	CHARACTER Prot	8	TSQ_QUB_SPTOKEN	QUB subpool token
(10)	CHARACTER Prot	8	TSQ_IC_SPTOKEN	TSICDATA subpool token
(18)	ADDRESS Prot	4	TSQ_TSIFREEHEAD	head of TSI free chain
(1C)	SIGNED Prot	4	TSQ_IC_DATA_N	length of ic_data items
(20)	SIGNED Prot	4	TSQ_QINH	items in longest queue
(24)	CHARACTER Prot	0	*	
---------- QLR - queue type log record. ----------				
(0)	STRUCTURE Prot	72	QLR	
(0)	SIGNED Prot	2	QLR_LENGTH	block length

Table 690. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	SIGNED Prot	2	QLR_PREV_OFFSET	offset to previous
(4)	CHARACTER Prot	4	QLR_RECORD_TYPE	'TSQ'
(8)	CHARACTER Prot	16	QLR_QUEUE_NAME	queue name
(18)	CHARACTER Prot	8	QLR_CREATION_TIME	creation time
(20)	CHARACTER Prot	8	QLR_LAST_REFERENCED_TIME	
				last referenced
(28)	CHARACTER Prot	4	QLR_TRANSID	creating transid
(2C)	UNSIGNED Prot	2	QLR_TOTAL_ITEMS	total items in queue
(2E)	UNSIGNED Prot	2	QLR_COMMITTED_ITEMS	
				total committed items
(30)	UNSIGNED Prot	2	QLR_READ_CURSOR	read cursor
(32)	BIT(16) Prot	2	QLR_FLAGS	flags
(32)	BIT(8) Publ	1	*	
	1... .... Publ		TSQ_MAIN	
	.1.. .... Publ		TSQ_BMS	
	..1. .... Publ		TSQ_IC	
	...1 .... Publ		TSQ_PUT	
	.... 1... Publ		TSQ_RECOVERABLE	
	.... .1.. Publ		TSQ_DELETED	
	.... ..1. Publ		TSQ_OWNED	
	....1 Publ		TSQ_SHUNTED	
(33)	BIT(8) Publ	1	*	
	1... .... Publ		TSQ_DISCARD	
	.1.. .... Publ		TSQ_NEW	
	..1. .... Publ		TSQ_DELETE_SEEN	
	...1 1111 Publ		*	
(34)	CHARACTER Prot	1	QLR_FIRST_OPERATION	
				first operation
(35)	CHARACTER Prot	1	*	reserved
(36)	UNSIGNED Prot	2	QLR_IC_DATA_N	length of any ic data

Table 690. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	UNSIGNED Prot	2	QLR_OLD_ IC_DATA_N	length of any old ice
(3A)	UNSIGNED Prot	2	*	reserved
(3C)	SIGNED Prot	4	*	reserved
(40)	CHARACTER Prot	8	QLR_OLD_ CREATION_TIME	
				old create time !
(48)	CHARACTER Prot	0	QLR_IC_DATA	start of any ic data
Response from tsqueue methods.				
(0)	FIXED Publ	4	TSQ_RESPONSE	
Storage types.				
(0)	FIXED Publ	1	STGTYPE	

Constants

Table 691.

Len	Type	value	Name	Description
---------- Constants. ----------				
4	DECIMAL	32767	MAXITEMS	maximum items in a queue
4	DECIMAL	32763	MAXITEMLENGTH	maximum item length
4	DECIMAL	0	TSQ_OPERATION_NULL	
4	DECIMAL	1	TSQ_OPERATION_PUT	
4	DECIMAL	2	TSQ_OPERATION_ GET_RELEASE	
4	DECIMAL	3	TSQ_OPERATION_ RELEASE	
4	DECIMAL	8	TSIADDR_MAX	8 TSI array slots
4	DECIMAL	256	TSI_POS1	x100th TSI
4	DECIMAL	4096	TSI_POS2	x1000th TSI
4	DECIMAL	8192	TSI_POS3	x2000th TSI
4	DECIMAL	12288	TSI_POS4	x3000th TSI
4	DECIMAL	16384	TSI_POS5	x4000th TSI
4	DECIMAL	20480	TSI_POS6	x5000th TSI
4	DECIMAL	24576	TSI_POS7	x6000th TSI
4	DECIMAL	28672	TSI_POS8	x7000th TSI
4	DECIMAL	0	TSQ_OK	
4	DECIMAL	1	TSQ_DISASTER	
4	DECIMAL	2	TSQ_FULL	

Table 691. (continued)

Len	Type	value	Name	Description
4	DECIMAL	3	TSQ_ITEM_NOT_FOUND	
4	DECIMAL	4	TSQ_PURGED	
4	DECIMAL	5	TSQ_INVALID_LENGTH	
4	DECIMAL	6	TSQ_RESTART	
4	DECIMAL	7	TSQ_LOCKED	
4	DECIMAL	8	TSQ_QUEUE_DELETED	
4	DECIMAL	9	TSQ_NOSPACE	
4	DECIMAL	10	TSQ_CHECK_FAILED	
4	DECIMAL	11	TSQ_INVALID_TYPE	
4	DECIMAL	12	TSQ_DUPLICATE_NAME	
4	DECIMAL	13	TSQ_IOERR	
1	DECIMAL	1	STGTYPE_MAIN	
1	DECIMAL	2	STGTYPE_AUX_TST	

TSRL Temporary Storage Resource Lock Class

```
!:refstep.dfhtsrlc ------------------------------------ DFHTSRL 63 -
!
!
! TSRLOCK class.
!
!--------------------------------------------------------------------
```

Table 692.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	16	TSRLOCK	
INSTANCE DATA				
Declared Data				
(0)	OBJECT Prot IsA(TSWAITQ)	8	TSR_WAITQ	
---------- TSW - TS wait queue head. ----------				
(0)	CHARACTER Prot	8	TSW_HEAD	
(0)	ADDRESS Prot	4	TSW_FIRST	-> first wait queue element
(4)	ADDRESS Prot	4	TSW_LAST	-> last wait queue element
---------- TSR - TS queue request lock. ----------				
(8)	ADDRESS Prot	4	TSR_OWNER	
SHARED DATA				
Declared Data				

Table 692. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE Prot	8	TSR_CLASS_ANCHOR	
(0)	CHARACTER Prot	8	*	reserved
(8)	CHARACTER Prot	0	*	
(0)	FIXED Publ	4	TSR_RESPONSE	

Constants

Table 693.

Len	Type	value	Name	Description
4	DECIMAL	0	TSR_OK	
4	DECIMAL	1	TSR_DELETED	
4	DECIMAL	2	TSR_PURGED	
4	DECIMAL	3	TSR_DISASTER	
4	DECIMAL	4	TSR_RESTART	

TSRL Temporary Storage Shared Class

```
!:refstep.dfhtsshc_body ----------------------------- DFHTSSH 2115 -
!
!
! TSSHARED class.
!
!--------------------------------------------------------------------
```

Table 694.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	4	TSSHARED	
INSTANCE DATA				
Declared Data				
(0)	CHARACTER Priv	4	*	
---------- SHA - tsshared class anchor block. ----------				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	72	SHA	
(0)	CHARACTER Prot	16	SHA_PREFIX	
(0)	SIGNED Prot	2	SHA_LENGTH	control block length

Table 694. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER Prot	1	SHA_ARROW	'>'
(3)	CHARACTER Prot	3	SHA_DFH	'DFH'
(6)	CHARACTER Prot	2	SHA_COMPID	'TS'
(8)	CHARACTER Prot	8	SHA_BLOCK_NAME	'SHA'
Note: The following level 2 structure is also used in DFHTSSHI.				
(10)	CHARACTER Prot	16	SHA_SYSID_TABLE	
(10)	CHARACTER Prot	8	SHA_STEHEAD	
(10)	ADDRESS Prot	4	SHA_STE_FIRST	-> first ste
(14)	ADDRESS Prot	4	SHA_STE_LAST	-> last ste
(18)	CHARACTER Prot	8	SHA_PCAHEAD	
(18)	ADDRESS Prot	4	SHA_PCA_FIRST	-> first pca
(1C)	ADDRESS Prot	4	SHA_PCA_LAST	-> last pca
(20)	CHARACTER Prot	8	SHA_SBBHEAD	
(20)	ADDRESS Prot	4	SHA_SBB_FIRST	-> first sbb
(24)	ADDRESS Prot	4	SHA_SBB_LAST	-> last sbb
(28)	CHARACTER Prot	8	SHA_PBBHEAD	
(28)	ADDRESS Prot	4	SHA_PBB_FIRST	-> first pbb
(2C)	ADDRESS Prot	4	SHA_PBB_LAST	-> last pbb
(30)	CHARACTER Prot	24	SHA_STATISTICS	
(30)	SIGNED Prot	4	SHA_POOLS_ DEFINED	
				number of pools defined
(34)	SIGNED Prot	4	SHA_POOLS_ CONNECTED	
				number of pools connected to
(38)	SIGNED Prot	4	SHA_READ_ REQUESTS	
				number of shared reads
(3C)	SIGNED Prot	4	SHA_WRITE_ REQUESTS	
				number of shared writes

Table 694. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	SIGNED Prot	4	*	
(44)	SIGNED Prot	4	*	
(48)	CHARACTER Prot	0	*	
---------- STE - sysid table entry. ----------				
(0)	STRUCTURE Prot	16	STE	
(0)	CHARACTER Prot	8	STE_PREFIX	
(0)	ADDRESS Prot	4	STE_NEXT	-> next ste
(4)	ADDRESS Prot	4	STE_PREV	-> previous ste
(8)	CHARACTER Prot	4	STE_SYSID	sysid
(C)	ADDRESS Prot	4	STE_PCAP	-> pca for this sysid
---------- PCA - pool control area. ----------				
(0)	STRUCTURE Prot	32	PCA	
(0)	CHARACTER Prot	8	PCA_PREFIX	
(0)	ADDRESS Prot	4	PCA_NEXT	-> next pca
(4)	ADDRESS Prot	4	PCA_PREV	-> previous pca
(8)	CHARACTER Prot	8	PCA_POOL_NAME	pool name
(10)	OBJECT Prot IsA(TSWAITQ)	8	PCA_WAIT_QUEUE	wait queue
---------- TSW - TS wait queue head. ----------				
(10)	CHARACTER Prot	8	TSW_HEAD	
(10)	ADDRESS Prot	4	TSW_FIRST	-> first wait queue element
(14)	ADDRESS Prot	4	TSW_LAST	-> last wait queue element
(18)	ADDRESS Prot	4	PCA_CONNECT_ TOKEN	connect token
(1C)	BIT(8) Prot	1	PCA_FLAGS	
	1... .... Prot		PCA_CONNECT_ FAILED	
				='1'b, connect failed

Table 694. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.111 1111 Prot		*	
(1D)	CHARACTER Prot	3	*	
---------- SBB - shared browse block. ----------				
(0)	STRUCTURE Prot	48	SBB	
(0)	CHARACTER Prot	8	SBB_PREFIX	
(0)	ADDRESS Prot	4	SBB_NEXT	-> next sbb
(4)	ADDRESS Prot	4	SBB_PREV	-> previous sbb
(8)	CHARACTER Prot	4	SBB_TRANID	browsing tranid
(C)	CHARACTER Prot	4	SBB_TRANNUM	browsing tran number
(10)	CHARACTER Prot	8	SBB_TRANTOKEN	browsing tran token
(18)	CHARACTER Prot	16	SBB_NAME	current browse name
(28)	ADDRESS Prot	4	SBB_PCAP	-> pool control area
(2C)	BIT(8) Prot	1	SBB_FLAGS	
	1... .... Prot		SBB_FIRST	='1'b, first get_next
	.111 1111 Prot		*	reserved
(2D)	CHARACTER Prot	3	*	reserved
(30)	CHARACTER Prot	0	*	
---------- PBB - pool browse block. ----------				
(0)	STRUCTURE Prot	32	PBB	
(0)	CHARACTER Prot	8	PBB_PREFIX	
(0)	ADDRESS Prot	4	PBB_NEXT	-> next pbb
(4)	ADDRESS Prot	4	PBB_PREV	-> previous pbb
(8)	CHARACTER Prot	4	PBB_TRANID	browsing tranid
(C)	CHARACTER Prot	4	PBB_TRANNUM	browsing tran number
(10)	CHARACTER Prot	8	PBB_TRANTOKEN	browsing tran token

Table 694. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER Prot	8	PBB_POOL_NAME	current shared TS pool name
(20)	CHARACTER Prot	0	*	
(0)	FIXED Publ	4	TSH_RESPONSE	

Constants

Table 695.

Len	Type	value	Name	Description
4	DECIMAL	32768	SETSTGL	
4	DECIMAL	0	TSH_OK	
4	DECIMAL	1	TSH_DISASTER	
4	DECIMAL	2	TSH_NOT_FOUND	
4	DECIMAL	3	TSH_PURGED	
4	DECIMAL	4	TSH_BROWSE_END	

TSWQ Temporary Storage Wait Queue Class

```
!:refstep.dfhtswqc ------------------------------------ DFHTSWQ 69 -
!
!
! TSWAITQ class.
!
!--------------------------------------------------------------------
```

Table 696.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	8	TSWAITQ	
---------- TSW - TS wait queue head. ----------				
INSTANCE DATA				
Declared Data				
(0)	STRUCTURE Prot	8	TSW_HEAD	
(0)	ADDRESS Prot	4	TSW_FIRST	-> first wait queue element
(4)	ADDRESS Prot	4	TSW_LAST	-> last wait queue element
---------- TSW - TS wait queue element. ----------				
SHARED DATA				
Declared Data				

Table 696. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE Prot	31	TSW	
(0)	CHARACTER Prot	8	TSW_PREFIX	
(0)	ADDRESS Prot	4	TSW_NEXT	-> next wait queue element
(4)	ADDRESS Prot	4	TSW_PREV	-> prev wait queue element
(8)	ADDRESS Prot	4	TSW_SUSPEND_ TOKEN	suspend token
(C)	ADDRESS Prot	4	TSW_WAITER	waiter (task token)
(10)	CHARACTER Prot	8	TSW_SUSPEND_ START_TIME	
				suspend start time
(18)	CHARACTER Prot	4	TSW_TRANSACTION_ NUMBER	
				transaction number
(1C)	BIT(8) Prot	1	TSW_FLAGS	
	1... .... Prot		TSW_RESTART_ REQUIRED	
				='1'b, restart reqd
	.111 1111 Prot		*	
(1D)	FIXED Prot IsA(TSW_RESTYPE)	1	TSW_RESOURCE_ TYPE	resource type
(1E)	UNSIGNED Prot	1	TSW_RESUME_ PRIORITY	
				resume priority
(1F)	CHARACTER Prot	0	*	
(0)	STRUCTURE Publ	8	TSW_CLASS_ANCHOR	
(0)	CHARACTER Publ	8	TSW_TSW_SPTOKEN	TSW subpool token
(8)	CHARACTER Publ	0	*	
Responses.				
(0)	FIXED Publ	4	TSW_RESPONSE	
Resource types. Note that these values must be kept in step with the resource_type option on the append_waiter function.				
(0)	FIXED Publ	1	TSW_RESTYPE	

Constants

Table 697.

Len	Type	value	Name	Description
4	DECIMAL	0	TSW_OK	
4	DECIMAL	1	TSW_RESTART	
4	DECIMAL	2	TSW_PURGED	
4	DECIMAL	3	TSW_DISASTER	
1	DECIMAL	1	TSW_AUX_SPACE	
1	DECIMAL	2	TSW_BUFFER	
1	DECIMAL	3	TSW_WRITE_BUFFER	
1	DECIMAL	4	TSW_STRING	
1	DECIMAL	5	TSW_EXTEND	
1	DECIMAL	6	TSW_QUEUE	
1	DECIMAL	7	TSW_POOL	

USANC User Domain Anchor Block

```
!:refstep.us_anchor_block_and_constants --------------- DFHUSDM 214 -
!
!
! DFHUSANC - User Domain Anchor Block
!
! This anchor block contains the global storage for the user domain.
!
! It defines the domain state information, variables and constants
! required by the US gates and other external programs such as
! DFHUSTRI, the user domain trace interpretation routine.
!
!--------------------------------------------------------------------
```

Table 698.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	168	USA	
(0)	CHARACTER	16	USA_PREFIX	Eyecatcher prefix
(0)	HALFWORD	2	USA_PREFIX_ LENGTH	Length of US anchor
(2)	CHARACTER	14	USA_PREFIX_TEXT	DFHUSANCHOR
---------- Domain state information ----------				
(10)	UNSIGNED	1	USA_US_STATE	US domain state: initialized, quiesced or terminated
---------- System initialization parameters and general flags ----------				
(11)	UNSIGNED	1	USA_SIGNON_SCOPE	SNSCOPE (Signon scope)

Table 698. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(12)	BIT(8)	1	USA_FLAGS	General flags
	1...		USA_ENQ_ LIMIT_EXCEEDED_ MSG	
				ENQ limit message already issued.
	.111 1111		*	Spare flags
(13)	CHARACTER	4	*	Reserved
(17)	STRUCTURE IsA(USERID)	11	USA_DEFAULT_ USERID	DFLTUSER (Default userid)
(17)	UNSIGNED	1	LEN	
(18)	CHARACTER	10	VAL	
(22)	HALFWORD	2	*	Reserved
(24)	UNSIGNED	4	USA_DIRECTORY_ TIMEOUT_VALUE	
				USRDELAY (in TOD units)
(28)	CHARACTER	8	USA_GENERIC_ APPLID	Generic applid
---------- Subpool Tokens ----------				
(30)	STRUCTURE IsA(ETOKEN)	8	USA_GENERAL_ SPTOKEN	
				General subpool, including the anchor
(30)	ADDRESS	4	P	
(34)	FULLWORD	4	N	
(38)	STRUCTURE IsA(ETOKEN)	8	USA_XMTRAN_ SPTOKEN	Transaction data subpool
(38)	ADDRESS	4	P	
(3C)	FULLWORD	4	N	
(40)	STRUCTURE IsA(ETOKEN)	8	USA_USERDATA_ SPTOKEN	
				User data subpool
(40)	ADDRESS	4	P	
(44)	FULLWORD	4	N	
(48)	STRUCTURE IsA(ETOKEN)	8	USA_UTQE_SPTOKEN	Timeout queue subpool
(48)	ADDRESS	4	P	
(4C)	FULLWORD	4	N	
(50)	CHARACTER	8	*	Reserved

Table 698. (continued)

Offset Hex	Type	Len	Name (dim)	Description
---------- Pointers ----------				
(58)	ADDRESS	4	USA_DEFAULT_ USUDB_PTR	
				Ptr to default user usudb
(5C)	ADDRESS	4	USA_USER_ TIMEOUT_QUEUE_PTR	
				Ptr to timeout queue
---------- User Directory related data ----------				
(60)	ADDRESS	4	USA_DIRKEY_ DIRECTORY_TOKEN	
				Userid directory
(64)	ADDRESS	4	USA_USERTOKEN_ DIRECTORY_TOKEN	
				Token directory
---------- Tokens ----------				
(68)	STRUCTURE IsA(ETOKEN)	8	USA_TIMER_TOKEN	Token from Timer Domain
(68)	ADDRESS	4	P	
(6C)	FULLWORD	4	N	
(70)	STRUCTURE IsA(ETOKEN)	8	USA_JOBSTEP_ TRANS_TOKEN	
				Transaction token for jobstep user
(70)	ADDRESS	4	P	
(74)	FULLWORD	4	N	
(78)	ADDRESS	4	USA_DEFAULT_ USER_TOKEN	
				DFLTUSER's token
(7C)	FULLWORD	4	USA_USER_ TOKEN_HWM	Token high water mark
(80)	ADDRESS	4	USA_LOCK_TOKEN1	ENQ lock token 1
(84)	ADDRESS	4	USA_LOCK_TOKEN2	ENQ lock token 2
---------- Statistics ----------				
(88)	UNSIGNED	4	USA_TIMEOUT_ TOTAL_REUSE_TIME	

Table 698. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Total time reused
(8C)	UNSIGNED	4	USA_TIMEOUT_ REUSE_COUNT	
				Number of reuses
(90)	UNSIGNED	4	USA_TIMEOUT_ EXPIRY_COUNT	
				Number of expirys
(94)	UNSIGNED	4	USA_DIRECTORY_ REUSE_COUNT	
				Number of reuses
(98)	UNSIGNED	4	USA_DIRECTORY_ NOT_FOUND_COUNT	
				Number of not-founds
(9C)	CHARACTER	8	USA_LAST_ RESET_TIME	
				Statistics reset time
(A4)	CHARACTER	4	*	avoid silly compiler msgs
(A8)	CHARACTER	0	*	Reserved for alignment

Constants

Table 699.

Len	Type	value	Name	Description
---------- US Domain States ----------				
1	DECIMAL	1	US_STATE_ INITIALIZING	
1	DECIMAL	2	US_STATE_INITIALIZED	
1	DECIMAL	3	US_STATE_QUIESCING	
1	DECIMAL	4	US_STATE_QUIESCED	
1	DECIMAL	5	US_STATE_TERMINATED	
---------- Signon Scope options ----------				
1	DECIMAL	1	US_SCOPE_NONE	
1	DECIMAL	2	US_SCOPE_CICS	
1	DECIMAL	3	US_SCOPE_MVSIMAGE	

Table 699. (continued)

Len	Type	value	Name	Description
1	DECIMAL	4	US_SCOPE_SYSPLEX	
---------- Component id (for use on ME domain calls) ----------				
2	CHARACTER	US	COMPID	Used on ME domain calls
---------- Standard message numbers and system dumpcode values ----------				
1	DECIMAL	1	MNO_ABEND	
8	CHARACTER	US0001	DCD_ABEND	
1	DECIMAL	2	MNO_SEVERE_ERROR	
8	CHARACTER	US0002	DCD_SEVERE_ERROR	
1	DECIMAL	3	MNO_NO_STORAGE	
8	CHARACTER	US0003	DCD_NO_STORAGE	
1	DECIMAL	4	MNO_LOOP	
8	CHARACTER	US0004	DCD_LOOP	
1	DECIMAL	5	MNO_STCK_ERROR	
8	CHARACTER	US0005	DCD_STCK_ERROR	
1	DECIMAL	6	MNO_NO_MVS_STORAGE	
8	CHARACTER	US0006	DCD_NO_MVS_STORAGE	
1	DECIMAL	120	MNO_ENQ_LIMIT_ EXCEEDED	
---------- Trace Point Identifiers ----------				
2	HEX	0101	TID_USDM_ENTRY	
2	HEX	0102	TID_USDM_EXIT	
2	HEX	0103	TID_USDM_RECOVERY	
2	HEX	0104	TID_USDM_ INVALID_FORMAT	
2	HEX	0105	TID_USDM_ INVALID_FUNCTION	
2	HEX	0106	TID_USDM_ UNLOCK_ERROR	
2	HEX	0107	TID_USDM_ NO_STORAGE_FOR_ USA	
2	HEX	0108	TID_USDM_ GET_PARMS_FAILED	
2	HEX	0201	TID_USIS_ENTRY	
2	HEX	0202	TID_USIS_EXIT	
2	HEX	0203	TID_USIS_RECOVERY	

Table 699. (continued)

Len	Type	value	Name	Description
2	HEX	0204	TID_USIS_ INVALID_FORMAT	
2	HEX	0205	TID_USIS_ INVALID_FUNCTION	
2	HEX	0206	TID_USIS_ NO_INQUIRE_PARAMETERS	
2	HEX	0207	TID_USIS_ NO_SET_PARAMETERS	
2	HEX	0208	TID_USIS_ LOCK_ERROR	
2	HEX	0209	TID_USIS_ UNLOCK_ERROR	
2	HEX	020A	TID_USIS_ UNLOCK_ERROR_RECOVERY	
2	HEX	0301	TID_USAD_ENTRY	
2	HEX	0302	TID_USAD_EXIT	
2	HEX	0303	TID_USAD_RECOVERY	
2	HEX	0304	TID_USAD_ INVALID_FORMAT	
2	HEX	0305	TID_USAD_ INVALID_FUNCTION	
2	HEX	0306	TID_USAD_ LOCK_ERROR	
2	HEX	0307	TID_USAD_ UNLOCK_ERROR	
2	HEX	0308	TID_USAD_ UNLOCK_ERROR_RECOVERY	
2	HEX	0309	TID_USAD_ EXCEPTION_UNKNOWN	
2	HEX	030A	TID_USAD_ EXTRACT_FAILED	
2	HEX	030B	TID_USAD_ INVALID_PARAMETERS	
2	HEX	030C	TID_USAD_ USER_NOT_IN_DIRECTORY	
2	HEX	030D	TID_USAD_ USER_DIR_ADD_DUPLICATE	
2	HEX	030E	TID_USAD_ USER_DIR_ADD_ERROR	
2	HEX	030F	TID_USAD_ USER_DIR_DELETE_ ERROR	
2	HEX	0310	TID_USAD_ INVALID_SECURITY_ TOKEN	
2	HEX	0311	TID_USAD_ USE_COUNT_ERROR	

Table 699. (continued)

Len	Type	value	Name	Description
2	HEX	0312	TID_USAD_ DFHUSER_DEQ_FAILED	
2	HEX	0313	TID_USAD_ UDB_PTR_INVALID	
2	HEX	0314	TID_USAD_ ADD_TIMEOUT_FAILED	
2	HEX	0315	TID_USAD_ DEL_TIMEOUT_FAILED	
2	HEX	0316	TID_USAD_ DEL_EXPIRED_FAILED	
2	HEX	0401	TID_USXM_ENTRY	
2	HEX	0402	TID_USXM_EXIT	
2	HEX	0403	TID_USXM_RECOVERY	
2	HEX	0404	TID_USXM_ INVALID_FORMAT	
2	HEX	0405	TID_USXM_ INVALID_FUNCTION	
2	HEX	0406	TID_USXM_ LOCK_ERROR	
2	HEX	0407	TID_USXM_ UNLOCK_ERROR	
2	HEX	0408	TID_USXM_ UNLOCK_ERROR_RECOVERY	
2	HEX	0409	TID_USXM_ GETMAIN_FAILURE	
2	HEX	040A	TID_USXM_ DIRMAN_FAILURE	
2	HEX	040B	TID_USXM_ TRAN_USE_COUNT_ MAX	
2	HEX	040C	TID_USXM_ TRAN_USE_COUNT_ NEG	
2	HEX	040D	TID_USXM_ TRAN_USE_COUNT_ LOW	
2	HEX	040E	TID_USXM_ BAD_SECURITY_TOKEN	
2	HEX	040F	TID_USXM_ TOKEN_TYPE_ERROR	
2	HEX	0410	TID_USXM_ INVALID_TRANSACTION_ TOKEN	
2	HEX	0411	TID_USXM_ ALREADY_ADDED_ SECURITY	

Table 699. (continued)

Len	Type	value	Name	Description
2	HEX	0412	TID_USXM_ NO_PRINCIPAL_UDB_ PTR	
2	HEX	0413	TID_USXM_ USAD_ERROR	
2	HEX	0501	TID_USFL_ENTRY	
2	HEX	0502	TID_USFL_EXIT	
2	HEX	0503	TID_USFL_RECOVERY	
2	HEX	0504	TID_USFL_ INVALID_FORMAT	
2	HEX	0505	TID_USFL_ INVALID_FUNCTION	
2	HEX	0506	TID_USFL_ LOCK_ERROR	
2	HEX	0507	TID_USFL_ UNLOCK_ERROR	
2	HEX	0508	TID_USFL_ UNLOCK_ERROR_RECOVERY	
2	HEX	0509	TID_USFL_ EXCEPTION_UNKNOWN	
2	HEX	050B	TID_USFL_ USER_NOT_IN_DIRECTORY	
2	HEX	050C	TID_USFL_ USER_DIR_ADD_DUPLICATE	
2	HEX	050D	TID_USFL_ UNFLATTEN_USER_ ERROR	
2	HEX	050E	TID_USFL_ USER_DIR_DELETE_ ERROR	
2	HEX	050F	TID_USFL_ INVALID_SECURITY_ TOKEN	
2	HEX	0510	TID_USFL_ USE_COUNT_ERROR	
2	HEX	0511	TID_USFL_ DFHUSER_DEQ_FAILED	
2	HEX	0512	TID_USFL_ UDB_PTR_INVALID	
2	HEX	0513	TID_USFL_ DEL_TIMEOUT_FAILED	
2	HEX	0601	TID_USST_ENTRY	
2	HEX	0602	TID_USST_EXIT	
2	HEX	0603	TID_USST_RECOVERY	
2	HEX	0604	TID_USST_ INVALID_FORMAT	

Table 699. (continued)

Len	Type	value	Name	Description
2	HEX	0605	TID_USST_ INVALID_FUNCTION	
2	HEX	0606	TID_USST_ LOCK_ERROR	
2	HEX	0607	TID_USST_ UNLOCK_ERROR	
2	HEX	0608	TID_USST_ UNLOCK_ERROR_RECOVERY	
2	HEX	0701	TID_USTI_ENTRY	
2	HEX	0702	TID_USTI_EXIT	
2	HEX	0703	TID_USTI_RECOVERY	
2	HEX	0704	TID_USTI_ INVALID_FORMAT	
2	HEX	0705	TID_USTI_ INVALID_FUNCTION	
2	HEX	0706	TID_USTI_ LOCK_ERROR	
2	HEX	0707	TID_USTI_ UNLOCK_ERROR	
2	HEX	0708	TID_USTI_ UNLOCK_ERROR_RECOVERY	
2	HEX	0709	TID_USTI_ EXCEPTION_UNKNOWN	
2	HEX	070A	TID_USTI_ UDB_PTR_INVALID	
2	HEX	070B	TID_USTI_ ADD_QUEUE_ENTRY_ ERROR	
2	HEX	070C	TID_USTI_ ALREADY_IN_QUEUE	
2	HEX	070D	TID_USTI_ DELETE_QUEUE_ENTRY_ ERROR	
2	HEX	070E	TID_USTI_ GET_QUEUE_ENTRY_ ERROR	
2	HEX	070F	TID_USTI_ QUEUE_ENTRY_IN_ USE	
2	HEX	0710	TID_USTI_ SET_QUEUE_ENTRY_ ERROR	
2	HEX	0711	TID_USTI_ TIMER_INTERVAL_ REQ_FAILED	
2	HEX	0712	TID_USTI_ TIMER_CANCEL_REQ_ FAILED	

Table 699. (continued)

Len	Type	value	Name	Description
2	HEX	0713	TID_USTI_ UTQ_IS_EMPTY	
2	HEX	0801	TID_USDE_ENTRY	
2	HEX	0802	TID_USDE_EXIT	
2	HEX	0803	TID_USDE_RECOVERY	
2	HEX	0804	TID_USDE_ INVALID_FORMAT	
2	HEX	0805	TID_USDE_ INVALID_FUNCTION	
2	HEX	0806	TID_USDE_ DFHUSER_DEQ_FAILED	
2	HEX	0807	TID_USDE_ EXCEPTION_UNKNOWN	
2	HEX	0808	TID_USDE_ LOCK_ERROR	
2	HEX	0809	TID_USDE_ UNLOCK_ERROR	
2	HEX	080A	TID_USDE_ UNLOCK_ERROR_RECOVERY	
---------- Subpool Names ----------				
8	CHARACTER	USGENRAL	SPNAME_GENERAL	
---------- Anchor block eyecatcher ----------				
14	CHARACTER	>DFHUSANCHOR	USA_EYE_CATCHER	
---------- US Lock Name ----------				
8	CHARACTER	USADLOCK	US_ADD_LOCK_NAME	
8	CHARACTER	USXMLOCK	US_TXN_LOCK_NAME	

USGPS User Domain statistics *L4A

```
!:refstep.usst_global_statistics ----------------------- DFHUSST 94 -
!
!
! CONTROL BLOCK NAME
! DFHUSGPC
! DESCRIPTIVE NAME =
! CICS User Domain Statistics
! STATUS
! %XB10
! LOCATION
! The user is passed a pointer to the head of the storage block.
!
!-------------------------------------------------------------------
!:refstep.usst_global_statistics_record --------------- DFHUSST 110 -
!
```

```
! User Domain statistics fields.
!
!-------------------------------------------------------------------
```

Table 700.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	28	DFHUSGPS	User domain stats
(0)	UNSIGNED	2	USG_DATA_LENGTH	Length of data area
(2)	UNSIGNED	2	USG_ID	User domain id
(4)	UNSIGNED	1	USG_VERSION	Statistics version number
(5)	CHARACTER	3	*	Reserved
(8)	FULLWORD	4	USG_TIMEOUT_MEAN_REUSE_TIME	
(C)	FULLWORD	4	USG_TIMEOUT_REUSE_COUNT	
(10)	FULLWORD	4	USG_TIMEOUT_EXPIRY_COUNT	
(14)	FULLWORD	4	USG_DIRECTORY_REUSE_COUNT	
(18)	FULLWORD	4	USG_DIRECTORY_NOT_FOUND_COUNT	

Constants

Table 701.

Len	Type	value	Name	Description
1	HEX	01	USG_VERSION_MASK	Version number mask
2	DECIMAL	61	USG_ID_MASK	Stats id mask

UDB User Domain User Data Block

```
!:refstep.usud_user_control_block ---------------------- DFHUSAD 519 -
!
!
! DFHUSUDC US User Data Block
!
! The UDB defines the operator data and user attributes associated
! with a user who has been added to the CICS system.
!
! It is owned by the USAD Gate of the user domain.
!
! It contains the non-security attributes of the user that have been
! obtained from the CICS and LANGUAGE segments in the External
! Security Manager's database. It also contains a pointer to the
! ACEE (Access Control Environment Element), but ONLY for the use of
! the EXEC CICS ADDRESS ACEE command. There are NO security
! capabilities contained in the UDB - only the External Security
! Manager has knowledge of these. If the User Data Block is enabled
! for timeout processing, then the user timeout queue entry (UTQE)
! token, which identifies the entry in the User Timeout Queue (UTQ),
```

```
! is stored in the user data block.
!
!--------------------------------------------------------------------
```

Table 702.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	120	USUD_USER_DATA	User Data Block
(0)	ADDRESS	4	USUD_USER_TOKEN	User Token
(4)	ADDRESS	4	USUD_UTQE_TOKEN	Token for timer queue
(8)	STRUCTURE IsA(ETOKEN)	8	USUD_SECURITY_TOKEN	Security Token
(8)	ADDRESS	4	P	
(C)	FULLWORD	4	N	
(10)	FULLWORD	4	USUD_ADD_USE_COUNT	ADD_USER use count
(14)	FULLWORD	4	USUD_TRAN_USE_COUNT	Transaction use count
(18)	ADDRESS	4	USUD_ACEE_PTR	User's ACEE address
(1C)	HALFWORD	2	USUD_TIMEOUT_INTERVAL	Timeout Interval (mins)
(1E)	BIT(8)	1	USUD_USER_OPTIONS	User options
	1...		USUD_SCOPE_CHECK	Apply SNSCOPE to user
	.1..		USUD_SCOPE_OBTAINED	Scope ENQ obtained
	..1.		USUD_DELETE_IMMEDIATE	Delete immedia
	...1		USUD_VERIFY_NO_PASSWORD	No password
	.... 111.		*	Reserved
	1		USUD_XRF_REFLECTABLE	Reflect signon to XRF
(1F)	STRUCTURE IsA(USERID)	11	USUD_USERID	Userid of this user
(1F)	UNSIGNED	1	LEN	

Table 702. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	CHARACTER	10	VAL	
(2A)	UNSIGNED	1	USUD_OPERATOR_PRIORITY	
				Operator Priority
(2B)	STRUCTURE IsA(GROUPID)	11	USUD_GROUPID	Groupid supplied
(2B)	UNSIGNED	1	LEN	
(2C)	CHARACTER	10	VAL	
(36)	CHARACTER	1	*	Reserved
(37)	STRUCTURE IsA(GROUPID)	11	USUD_CURRENT_GROUPID	
				Current Groupid
(37)	UNSIGNED	1	LEN	
(38)	CHARACTER	10	VAL	
(42)	CHARACTER	1	*	Reserved
(43)	STRUCTURE IsA(ENTRY_PORT)	9	USUD_ENTRY_PORT	Port of Entry
(43)	UNSIGNED	1	TYPE	
(44)	CHARACTER	8	NAME	
(4C)	ADDRESS	4	*	Reserved
(50)	CHARACTER	8	USUD_APPLID	Originating applid
(58)	CHARACTER	1	*	Reserved
(59)	CHARACTER	3	USUD_NATIONAL_LANGUAGE	
				National Language
(5C)	BIT(24)	3	USUD_OPERATOR_CLASSES	
				Operator Classes
(5C)	BIT(8)	1	USUD_OPCLASS_BYTE (0-2)	Address individual bytes
(5F)	BIT(8)	1	*	Reserved
(60)	CHARACTER	20	USUD_USERNAME	Personal name of user
(74)	CHARACTER	1	*	Reserved
(75)	CHARACTER	3	USUD_OPERATOR_IDENT	
				Operator Identifier
(78)	CHARACTER	0	*	End

```
!:refstep.usud_user_directory ------------------------ DFHUSAD 579 -
!
! User Directory
!
! Define the directory key
!
!--------------------------------------------------------------------
```

Table 703.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	USDK_DIRECTORY_KEY	User Directory Key
(0)	CHARACTER	10	USDK_USERID	Userid
(A)	CHARACTER	3	USDK_SCOPE_ACTIVE	Scope check required
(D)	CHARACTER	10	USDK_GROUPID	Groupid
(17)	STRUCTURE IsA(ENTRY_PORT)	9	USDK_ENTRY_PORT	Entry Port
(17)	UNSIGNED	1	TYPE	
(18)	CHARACTER	8	NAME	
(20)	CHARACTER	8	USDK_APPLID	Applid
(28)	CHARACTER	0	*	End

USXD User Domain transaction data

```
!:refstep.usxd_transaction_data ---------------------- DFHUSXM 1398 -
!
!
! USXD_TRANSACTION_DATA
!
! This structure defines the User-Domain-related transaction storage
! pointed to by the User Domain transaction token. There is one such
! structure for every transaction.
!
! It contains one or more user tokens that have been associated with
! the transaction, together with the pointers to the associated User
! Data Blocks. One of these pointers is designated as the active UDB
! pointer, and that is the UDB referenced whenever user attributes
! for the transaction are queried.
!
!--------------------------------------------------------------------
```

Table 704.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	29	USXD_TRANSACTION_DATA	
(0)	ADDRESS	4	USXD_ACTIVE	
(4)	ADDRESS	4	USXD_PRINCIPAL	
(8)	ADDRESS	4	USXD_SESSION	
(C)	ADDRESS	4	USXD_EDF	
(10)	ADDRESS	4	USXD_PRINCIPAL_TOKEN	

Table 704. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	ADDRESS	4	USXD_SESSION_TOKEN	
(18)	ADDRESS	4	USXD_EDF_TOKEN	
(1C)	BIT(8)	1	USXD_FLAGS	
	1...		USXD_XS_CALLED	XS has been initialized
	.111 1111		*	Reserved

USXT User Domain transaction token

```
!:refstep.usxt_transaction_token ---------------------- DFHUSXM 1359 -
!
!
! This structure defines the format of the User Domain transaction
! token that is preserved by the Transaction Manager. There is one
! such token for each transaction.
!
! It contains a pointer to the currently active userid for this
! transaction, and a pointer to the User Domain transaction storage
! structure.
!
!--------------------------------------------------------------------
```

Table 705.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	USXT_TRANSACTION_TOKEN	
(0)	ADDRESS	4	USXT_USERID_PTR	Ptr to current userid
(4)	ADDRESS	4	USXT_USXD_PTR	Ptr to transaction data

WBA1C Web Business Logic Compatibility Interface

```
!:refstep.Business_Logic_Interface -------------------- DFHWBA1 194 -
!
!
! This copybook defines the 'parameter list' which is passed to
! program DFHWBA1 to perform the link to the business logic.
!
! A brief description of the fields and their usage follows:
!
! Variable
! Type and Usage
! wba1_parms_ptr
! A pointer variable used as base for the interface parameter list
! wba1_parms
! top level of the interface parameter list structure
! wba1_eyecatcher
! A char(8) variable which should contain ' BLIP '
! wba1_converter_program_name
! A char(8) field containing the name of the program for decode
! and encode.
! wba1_client_address
! The IP address of the client.
```

```
! decode_client_address_string
! The IP address of the client in "ww.xx.yy.zz" format.
! wba1_data_ptr
! A pointer to the storage containing the HTTP request. For BLIO
! this is an offset.
! wba1_method_offset
! Offset into the HTTP request of the string containing the method
! specified for the request.
! wba1_http_version_offset
! Offset into the HTTP request of the string containing the
! version for the request.
! wba1_resource_offset
! Offset into the HTTP request of the string identifying the CICS
! resource to be invoked for this request.
! wba1_header_offset
! Offset into the HTTP request of the first HTTP header.
! wba1_user_data_offset
! Offset into the HTTP request to the "body" of the request -
! namely any forms data.
! wba1_method_length
! Length of the string containing the method.
! wba1_version_length
! Length of the string containing the version of HTTP supported by
! the client.
! wba1_resource_length
! Length of the string identifying the CICS resource to be invoked
! by this HTTP request.
! wba1_header_length
! Length of the HTTP header request information.(all the headers)
! wba1_user_data_length
! Length of the HTTP request body.
! wba1_input_data_length
! Length of the HTTP request body.
! wba1_server_program_name
! A char(8) name identifying the CICS program that dfhwba1 is to
! invoke by an EXEC CICS LINK.
! wba1_user_token
! A fullword token which uniquely identifies the HTTP request
! being processed.
! wba1_outdata_ptr
! A pointer to the output data.For BLIO this is an offset.
! wba1_response
! Response code of this request.
! wba1_data
! Data for this request if the data is given by offset.
!
!------------------------------------------------------------------------
```

Table 706.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	WBA1_PARMS	
(0)	CHARACTER	102	WBA1_PARMS_PLIST	
(0)	CHARACTER	8	WBA1_EYECATCHER	**HTTP** / **IP** / **BLIO**
(8)	CHARACTER	8	WBA1_CONVERTER_PROGRAM_NAME	
(10)	UNSIGNED	4	WBA1_CLIENT_ADDRESS	
(14)	CHARACTER	15	WBA1_CLIENT_ADDRESS_STRING	

Table 706. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(23)	UNSIGNED	1	WBA1_CLIENT_ ADDRESS_LENGTH	
(24)	FULLWORD	4	*	
(28)	ADDRESS	4	WBA1_DATA_PTR	
(28)	FULLWORD	4	WBA1_DATA_ OFFSET	
(2C)	FULLWORD	4	WBA1_METHOD_ OFFSET	
(30)	FULLWORD	4	WBA1_HTTP_ VERSION_OFFSET	
(34)	FULLWORD	4	WBA1_RESOURCE_ OFFSET	
(38)	FULLWORD	4	WBA1_HEADER_ OFFSET	
(3C)	FULLWORD	4	WBA1_USER_ DATA_OFFSET	
(40)	HALFWORD	2	WBA1_METHOD_ LENGTH	
(42)	HALFWORD	2	WBA1_HTTP_ VERSION_LENGTH	
(44)	HALFWORD	2	WBA1_RESOURCE_ LENGTH	
(46)	HALFWORD	2	WBA1_HEADER_ LENGTH	
(48)	HALFWORD	2	WBA1_USER_ DATA_LENGTH	
(4A)	HALFWORD	2	*	
(4C)	UNSIGNED	4	WBA1_INPUT_ DATA_LENGTH	
(50)	CHARACTER	8	WBA1_SERVER_ PROGRAM_NAME	
(58)	CHARACTER	8	WBA1_USER_TOKEN	
(60)	ADDRESS	4	WBA1_OUTDATA_ PTR	
(60)	FULLWORD	4	WBA1_OUTDATA_ OFFSET	
(64)	UNSIGNED	2	WBA1_RESPONSE	
(66)	CHARACTER	*	WBA1_DATA	

Constants

Table 707.

Len	Type	value	Name	Description
8	CHARACTER	**BLIP**	WBA1_EYECATCHER_ BLIP	

Table 707. (continued)

Len	Type	value	Name	Description
8	CHARACTER	**BLIO**	WBA1_EYECATCHER_ BLIO	

WBABC Web Anchor Block

Table 708.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	136	WBAB_WEB_ ANCHOR_BLOCK	
(0)	CHARACTER	16	WBAB_PREFIX	
(0)	HALFWORD	2	WBAB_ANCHOR_ LENGTH	
(2)	CHARACTER	14	WBAB_EYECATCHER	
(10)	ADDRESS	4	*	
(14)	ADDRESS	4	WBAB_DFHWBST_ ENTRY_POINT	
(18)	ADDRESS	4	WBAB_DFHWBTC_ ENTRY_POINT	
(1C)	ADDRESS	4	*	
(20)	ADDRESS	4	WBAB_STATE_ ANCHOR_PTR	
(24)	ADDRESS	4	WBAB_TEMPLATE_ ANCHOR_PTR	
(28)	ADDRESS	4	*	
(2C)	CHARACTER	4	WBAB_3270_ ENVIRONMENT_TOKEN	
(30)	CHARACTER	8	WBAB_STATE_TOKEN	
(38)	CHARACTER	8	WBAB_BUFFER_ TOKEN	
(40)	CHARACTER	8	WBAB_HTML_ BUFFER_TOKEN	
(48)	CHARACTER	8	WBAB_OUTPUT_ ELEM_LIST_TOKEN	
(50)	CHARACTER	8	WBAB_WBRCL_ ELEM_LIST_TOKEN	
(58)	CHARACTER	8	WBAB_WBRCT_ TABLE_TOKEN	
(60)	CHARACTER	8	WBAB_ROW_ ARRAY_TOKEN	
(68)	CHARACTER	8	WBAB_COL_ ARRAY_TOKEN	
(70)	CHARACTER	8	WBAB_OVERLAPPED_ FIELD_TOKEN	
(78)	FULLWORD	4	WBAB_OPENEDITION_ UID	

Table 708. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7C)	ADDRESS	4	WBAB_UNESCAPE_ CODEPAGE_PTR	
(80)	CHARACTER	8	WBAB_MDT_TOKEN	

WBANC Web Domain Anchor Block

```
!:refstep.wb_anchor_block_and_constants --------------- DFHWBAN 156 -
!
!
! This anchor block contains the global storage for the WB domain.
!
! It defines the domain state information, variables and constants
! required by the WB gates.
!
!-------------------------------------------------------------------
```

Table 709.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1280	WBA	
!:refstep.wba_prefix ---------- DFHWBAN 174 - ! ! Block header ! !----------				
(0)	CHARACTER	16	WBA_PREFIX	===> eyecatcher <===
(0)	HALFWORD	2	WBA_LENGTH	length of wba
(2)	CHARACTER	14	WBA_PREFIX_TEXT	DFHWBAnchor
!:erefstep.wba_prefix ---------- !:refstep.wba_domain_state ---------- DFHWBAN 182 - ! ! Web Domain state information. ! !----------				
(10)	ADDRESS	4	WBA_LOCK_TOKEN	WB domain lock token
(14)	ADDRESS	4	WBA_STATE_ ANCHOR_PTR	
(18)	STRUCTURE IsA(ETOKEN)	8	WBA_GENERAL_ SPTOKEN	
				token received when subpool was added
(18)	ADDRESS	4	P	
(1C)	FULLWORD	4	N	
(20)	STRUCTURE IsA(ETOKEN)	8	WBA_BUFFER_TOKEN	
(20)	ADDRESS	4	P	
(24)	FULLWORD	4	N	

Table 709. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	UNSIGNED	1	WBA_WB_STATE	WB domain state initialized, quiesced or terminated
(29)	UNSIGNED	1	WBA_FLAGS	
	1...		WBA_COLD_START	CICS cold started
	.1..		WBA_WARM_START	CICS warm started
	..1.		WBA_RECOVERY_ COMPLETE	
				Recovery complete
	...1		*	Reserved
	.... 1...		WBA_ISO_ 8859_1_ CCSID_AVAIL	
				ISO-8859-1 ccsid is available
	.... .1..		WBA_037_ CCSID_AVAIL	
				037 ccsid available
	11		*	
(2A)	UNSIGNED	2	WBA_HOST_ SERIAL_NUM	
				Host serial hwmk
(2C)	UNSIGNED	4	WBA_ISO_ 8859_1_CCSID	
				ISO-8859-1 ccsid
(30)	ADDRESS	4	WBA_WEBREQUEST_ CLASSP	
				Base for WebReq class
(34)	ADDRESS	4	WBA_3270_ANCHOR	Web 3270 support
(38)	ADDRESS	4	WBA_UNESCAPE_ CODEPAGE_PTR	
				ASCII unescape info
(3C)	HALFWORD	2	*	Reserved
(3E)	HALFWORD	2	WBA_CODEPAGE_ NUMBER	
				Default codepage num

Table 709. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	CHARACTER	8	WBA_CODEPAGE_NAME	Default codepage name
(48)	CHARACTER	38	WBA_PRODUCT_TOKEN	Product for HTTP hdrs
(6E)	CHARACTER	2	*	Token expansion ONLY
(70)	CHARACTER	8	WBA_DEFAULT_USERID	Default userid
(78)	ADDRESS	4	WBA_FIRST_UME	First URI map element
(7C)	ADDRESS	4	WBA_LAST_UME	Last URI map element
(80)	ADDRESS	4	WBA_FIRST_UVH	First virtual host
(84)	ADDRESS	4	WBA_LAST_UVH	Last virtual host
(88)	STRUCTURE IsA(ETOKEN)	8	WBA_UME_SUBPOOL	UME subpool
(88)	ADDRESS	4	P	
(8C)	FULLWORD	4	N	
(90)	STRUCTURE IsA(ETOKEN)	8	WBA_UMX1_SUBPOOL	Small UMX subpool
(90)	ADDRESS	4	P	
(94)	FULLWORD	4	N	
(98)	STRUCTURE IsA(ETOKEN)	8	WBA_UMX2_SUBPOOL	Large UMX subpool
(98)	ADDRESS	4	P	
(9C)	FULLWORD	4	N	
(A0)	STRUCTURE IsA(ETOKEN)	8	WBA_UVH_SUBPOOL	UVH subpool
(A0)	ADDRESS	4	P	
(A4)	FULLWORD	4	N	
(A8)	STRUCTURE IsA(ETOKEN)	8	WBA_UPN1_SUBPOOL	Small UPN subpool
(A8)	ADDRESS	4	P	
(AC)	FULLWORD	4	N	
(B0)	STRUCTURE IsA(ETOKEN)	8	WBA_UPN2_SUBPOOL	Large UPN subpool
(B0)	ADDRESS	4	P	
(B4)	FULLWORD	4	N	
(B8)	ADDRESS	4	WBA_URI_LOCK_TOKEN	URIMAP lock token
(BC)	ADDRESS	4	WBA_URI_DIRTOKEN	URIMAP dir token
(C0)	UNSIGNED	4	WBA_037_CCSID	037 ccsid

Table 709. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C4)	ADDRESS	4	WBA_STATS_ BUFFER_PTR	
				Statistics buffer
(C8)	CHARACTER	8	WBA_STATS_ LAST_RESET_TIME	
				Stats last reset time
(D0)	CHARACTER	8	WBA_WBO_SPTOKEN	Outbound sub-pool
(D8)	ADDRESS	4	WBA_WBO_ LOCK_TOKEN	Outbound lock
(DC)	BIT(8)	1	WBA_USER_ EXIT_STATUS	
				Global user exits
	1...		WBA_XRSINDI_ ACTIVE	
				XRSINDI is active
	.1..		WBA_XWBOPEN_ ACTIVE	
				XWBOPEN is active
	..1.		WBA_XWBSNDO_ ACTIVE	
				XWBSNDO is active
	...1		WBA_XWBAUTH_ ACTIVE	
				XWBAUTH is active
(DD)	CHARACTER	3	*	filler
(E0)	ADDRESS	4	WBA_WBO_FIRST	WBA/WBO chain: first
(E4)	ADDRESS	4	WBA_WBO_LAST	WBA/WBO chain: last
(E8)	CHARACTER	56	WBA_STATISTICS	
(E8)	ADDRESS	4	WBA_STATS_ LOCK_TOKEN	
				Lock statistics count
(EC)	FULLWORD	4	WBA_URIM_ REFERENCE_COUNT	
				# of LOCATE_URIMAPs
(F0)	FULLWORD	4	WBA_URIM_ MATCH_COUNT	

Table 709. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Successful locates
(F4)	FULLWORD	4	WBA_URIM_ NO_MATCH_COUNT	
				Unsuccessful locates
(F8)	FULLWORD	4	WBA_URIM_ DISABLED_COUNT	
				# times URI disabled
(FC)	FULLWORD	4	WBA_URIM_ SCH_HTTP_COUNT	
				# SCHEME(HTTP) URIs
(100)	FULLWORD	4	WBA_URIM_ SCH_HTTPS_COUNT	
				# SCHEME(HTTPS) URIs
(104)	FULLWORD	4	WBA_URIM_ SCH_WMQ_COUNT	
				# SCHEME(WMQ) URIs
(108)	FULLWORD	4	WBA_URIM_ REDIRECT_COUNT	
				# of redirects
(10C)	FULLWORD	4	WBA_URIM_ PIPELINE_COUNT	
				# of pipeline reqsts
(110)	FULLWORD	4	WBA_URIM_ STATIC_COUNT	
				# of static content
(114)	FULLWORD	4	WBA_URIM_ DYNAMIC_COUNT	
				# of dynamic content
(118)	FULLWORD	4	WBA_URIM_ ANALYZER_COUNT	
				# of analyzer calls
(11C)	FULLWORD	4	WBA_HOST_ DISABLED_COUNT	
				# times host disabled

Table 709. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(120)	STRUCTURE IsA(ETOKEN)	8	WBA_WBS_SPTOKEN	WBS subpool tok
(120)	ADDRESS	4	P	
(124)	FULLWORD	4	N	
(128)	ADDRESS	4	WBA_WBS_ LOCK_TOKEN	WBS lock token
(12C)	ADDRESS	4	WBA_WBS_FIRST	First WBS on chain
(130)	ADDRESS	4	WBA_WBS_LAST	Last WBS on chain
(134)	FULLWORD	4	WBA_NO_OF_WBSS	Number of WBS's
(138)	STRUCTURE IsA(ETOKEN)	8	WBA_ANCHOR_ SPTOKEN	Anchor subpool token
(138)	ADDRESS	4	P	
(13C)	FULLWORD	4	N	
(140)	CHARACTER	4	*	Reserverd
!:erefstep.wba_domain_state ---------- !:refstep.wba_translate_tables ---------- DFHWBAN 263 - ! ! Web Domain Translate Tables. ! !----------				
(144)	CHARACTER	0	WBA_END_STATE	
(144)	CHARACTER	188	*	Force 265 alignment
(200)	CHARACTER	256	WBA_8859_ TO_037_TT	Translate table
(300)	CHARACTER	256	WBA_037_ TO_8859_TT	Translate table
(400)	CHARACTER	256	WBA_8859_ UPPERCASE_TT	
				Translate table
!:erefstep.wba_translate_tables ----------				
(500)	CHARACTER	0	WBA_END	

```
!:erefstep.wb_  literals ----------
!:refstep.wb_ unescape_ codepage_table ---------- DFHWBAN 286 -
!
  ! The following is the conversion table for escaped symbols passed
  ! to the template manager DFHWBTL. It will contain whatever is
  ! coded in DFHCNV for DFHWBUD CLINTCP or, if no DFHWBUD, the default
  ! US codepage (see flag bytes to determine which codepage has been
! used).
!
  !----------
```

Table 710.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	273	WBA_TTABL	
(0)	CHARACTER	17	WBA_TTABL_HDR	
(0)	HALFWORD	2	WBA_TTABL_LEN	
(2)	CHARACTER	14	WBA_TTABL_ EYECATCH	
(10)	CHARACTER	1	WBA_STARTUP_ FLAGS	
	1111		*	
	.... 1...		WBA_NOT_SBCS	
	.... .1..		WBA_UNESCAPE_ TABLE_INITIALIZED	
	.... ..1.		WBA_CCNV_ LOAD_OK	
	1		WBA_WBUD_USED	
(11)	CHARACTER	256	WBA_CONVTABL	each byte addressable
(11)	CHARACTER	1	EBCDIC_VALUE (0-255)	for conversion

Constants

Table 711.

Len	Type	value	Name	Description
!:refstep.wb_domain_states ---------- DFHWBAN 276 - ! ! WB Domain States (printed in formatted dump) ! !----------				
1	DECIMAL	1	WB_STATE_ INITIALISING	
1	DECIMAL	2	WB_STATE_INITIALISED	
1	DECIMAL	3	WB_STATE_QUIESCING	
1	DECIMAL	4	WB_STATE_QUIESCED	
1	DECIMAL	5	WB_STATE_TERMINATED	
!:erefstep.wb_domain_states ---------- !:refstep.wb_literals ---------- DFHWBAN 307 - ! ! Literals ! !----------				
8	CHARACTER	WBGENRAL	WB_GENERAL	General purpose subpool for WB domain
8	CHARACTER	WBOUTBND	WB_OUTBOUND	subpool for outbound HTTP
2	DECIMAL	16	WB_WBO_CHAIN_OFFSET	

Table 711. (continued)

Len	Type	value	Name	Description
2	DECIMAL	16	WB_WBS_CHAIN_OFFSET	
14	CHARACTER	>DFHWBANCHOR	WBA_EYE_CATCHER	
8	CHARACTER	WBLOCK	WB_LOCK_NAME	Domain lock
8	CHARACTER	WBOLOCK	WB_WBO_LOCK_NAME	WBO lock
8	CHARACTER	WBSLOCK	WB_STATS_LOCK_NAME	Stats lock
8	CHARACTER	WEBREQAN	WEBREQUEST_ANCHOR	
1	CHARACTER	>	ARROW	
3	CHARACTER	DFH	DFH	
4	DECIMAL	4096	WB_STATS_BUFFER_SIZE	
8	CHARACTER	WBS	WB_WBS	WBS subpool
8	CHARACTER	WBSLOCK	WB_WBS_LOCK_NAME	WBS lock

WBBLC Web Business Logic Interface parameters

```
!:refstep.Business_Logic_Interface ------------------- DFHWBBLI 251 -
!
!
! This copybook defines the 'parameter list' which is passed to
! program DFHWBBLI to perform the link to the business logic.
!
! A brief description of the fields and their usage follows:
!
! Variable
! Type and Usage
! wbbl_parms_ptr
! A pointer variable used as base for the interface parameter list
! wbbl_length
! A halfword binary number that must be set to the total length of
! the BLI parameter list.
! wbbl_eyecatcher
! A 14-character field that must be set to the standard eyecatcher
! string '>DFHWBBLIPARMS'.
! wbbl_status_size
! A one-byte binary field that must be set to the length of the
! "wbbl_status" substructure (currently 8).
! wbbl_mode
! A single character that indicates the addressing mode for
! "wbbl_indata" and "wbbl_outdata". It must be set to 'P' to
! indicate that these values are pointers, or to 'O' or 'D' to
! indicate that these values are offsets (from the start of the
! parameter list). 'D' also indicates that the user data is in
! ASCII (ISO-8859-1).
! wbbl_version
! A halfword binary number that indicates which version of the BLI
! parameter list is currently being used. It should be set using
! the constant value "wbbl_current_version".
! wbbl_prolog_size
! A halfword binary number that must be set to the length of the
! "wbbl_prolog" substructure (currently 56).
! wbbl_vector_size
! A halfword binary number that must be set to the length of the
! "wbbl_vector" substructure (currently 64).
! wbbl_response
! A fullword binary field in which DFHWBBLI returns its response
! code.
```

```
! wbbl_client_address
! A fullword 32-bit field that must be set to the binary IP
! address of the client, if this is known.
! wbbl_client_address_length
! A one-byte binary field that must be set to the length of
! "wbbl_client_address_string".
! wbbl_client_address_string
! A string of up to 15 characters which are the "dotted-decimal"
! representation of "wbbl_client_address", padded on the right
! with binary zeroes.
! wbbl_converter_program_name
! The eight-character name of the program that is to be used for
! converter DECODE and ENCODE functions.
! wbbl_server_program_name
! The eight-character name of the application program that is to
! be used to process the request and produce the response.
! wbbl_user_token
! An eight-character field in which the caller of DFHWBBLI can
! pass data which identifies the current conversational state with
! the client. It is usually set to the first eight characters of
! the +query-string+ portion of the URL (that is, any data
! following a question mark ('?')).
! wbbl_ssl_keysize
! Size of the encryption key negotiated during the SSL handshake,
! if secure sockets layer is being used. Zero if SSL is not being
! used.
! wbbl_indata_ptr
! If "wbbl_mode" is 'P', this is the address of the HTTP request
! data that is to be passed to the application.
! wbbl_indata_offset
! If "wbbl_mode" is 'O' or 'D', this field is the offset (from
! the start of the parameter list) of the HTTP request data
! that is to be passed to the application.
! wbbl_indata_length
! A fullword binary number that must be set to the length of the
! data located by "wbbl_indata_ptr" or "wbbl_indata_offset".
! wbbl_outdata_ptr
! If "wbbl_mode" is 'P', this is the fullword address in which
! DFHWBBLI will return the address of the response data from the
! application. This address is not necessarily the same as
! "wbbl_indata_ptr".
! wbbl_outdata_offset
! If "wbbl_mode" is 'O' or 'D', this is the fullword in which
! DFHWBBLI will return the offset (from the start of the
! parameter list) of the response data from the application.
! This offset is not necessarily the same as
! "wbbl_indata_offset".
! wbbl_outdata_length
! The fullword binary field in which DFHWBBLI will return the
! length of the response data located by "wbbl_outdata_ptr" or
! "wbbl_outdata_offset".
! wbbl_method_offset, wbbl_method_length
! Two fullword binary numbers that must contain the offset (from
! the start of the request data) and the length of the HTTP method
! that is to be used to process the request. The method should be
! one of: GET, POST, HEAD, PUT, DELETE, LINK, UNLINK, or REQUEUE.
! wbbl_http_version_offset, wbbl_http_version_length
! Two fullword binary numbers that must contain the offset (from
! the start of the request data) and the length of the version of
! the HTTP protocol that is to be used to process the request.
! wbbl_resource_offset, wbbl_resource_length
! Two fullword binary numbers that must contain the offset (from
! the start of the request data) and the length of the URI
! resource that is being requested (that is, the non-network part
! of the URL, starting at the first slash ('/') in the URL).
! wbbl_header_offset, wbbl_header_length
! Two fullword binary numbers that must contain the offset (from
```

```
! the start of the request data) and the length of the HTTP
! headers associated with this request. This is a list of zero or
! more headers in the format:
!
! header_name: header_valueCRLF
!
! where the colon and space (': ') delimit the header name from
! the value, and CRLF (X'0D25') delimits the end of the header
! value. The end of the list is denoted by an empty header, which
! contains only a single CRLF.
!
! The first CRLF-delimited line of an HTTP request is not
! regarded as a header. The offset to the start of the headers is
! to the character immediately following the CRLF that delimits
! the first HTTP request line (which may be another CRLF if no
! headers are present).
! wbbl_user_data_offset, wbbl_user_data_length
! Two fullword binary numbers that must contain the offset (from
! the start of the request data) and the length of the body of the
! HTTP request, if any.
! wbbl_client_certificate_offset, wbbl_client_certificate_length
! Two fullword binary numbers that must contain the offset (from
! the start of the request data) and the length of the X.509
! client certificate, if any. If the certificate is present, it
! must be in its binary BER-encoded form, and not base-64 encoded.
!
!------------------------------------------------------------------------
```

Table 712.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	WBBL_PARMS	
(0)	CHARACTER	144	WBBL_PARMS_PLIST	
(0)	CHARACTER	16	WBBL_PREFIX	
(0)	HALFWORD	2	WBBL_LENGTH	Length of BLI parmlist
(2)	CHARACTER	14	WBBL_EYECATCHER	
(2)	CHARACTER	1	WBBL_ARROW	Eyecatcher arrow (>)
(3)	CHARACTER	3	WBBL_DFH	Product prefix (DFH)
(6)	CHARACTER	2	WBBL_COMPID	Component id (WB)
(8)	CHARACTER	8	WBBL_BLOCK_ NAME	Block name (BLIPARMS)
(10)	CHARACTER	8	WBBL_STATUS	
(10)	UNSIGNED	1	WBBL_STATUS_ SIZE	Size of this status structure
(11)	CHARACTER	1	WBBL_MODE	'O'=offset, 'P'=pointer, 'D'=ascii data
(12)	HALFWORD	2	WBBL_VERSION	Version of WBBL parmlist
(14)	HALFWORD	2	WBBL_PROLOG_ SIZE	Size of WBBL prolog
(16)	HALFWORD	2	WBBL_VECTOR_ SIZE	Size of WBBL vector

Table 712. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER	56	WBBL_PROLOG	
(18)	FULLWORD	4	WBBL_RESPONSE	DFHWBBLI response
(1C)	UNSIGNED	4	WBBL_CLIENT_ ADDRESS	
				Client IP address
(20)	UNSIGNED	1	WBBL_CLIENT_ ADDRESS_LENGTH	
				Length of string
(21)	CHARACTER	15	WBBL_CLIENT_ ADDRESS_STRING	
				Dotted-decimal IP ad
(30)	CHARACTER	8	WBBL_CONVERTER_ PROGRAM_NAME	
				Converter program
(38)	CHARACTER	8	WBBL_SERVER_ PROGRAM_NAME	
				Server application
(40)	CHARACTER	8	WBBL_USER_ TOKEN	Token or query string
(48)	UNSIGNED	4	WBBL_SERVER_ ADDRESS	
				Server IP addr
(4C)	UNSIGNED	2	WBBL_SERVER_ PORTNUMBER	
				Server port
(4E)	HALFWORD	2	WBBL_SSL_ KEYSIZE	SSL key size
(50)	CHARACTER	64	WBBL_VECTOR	
(50)	ADDRESS	4	WBBL_INDATA_ PTR	Addr of request (MODE=P)
(50)	FULLWORD	4	WBBL_INDATA_ OFFSET	Offset of request (MODE=O or MODE=D)
				Offset of request (MODE=O)
(54)	FULLWORD	4	WBBL_INDATA_ LENGTH	
				Length of request data
(58)	ADDRESS	4	WBBL_OUTDATA_ PTR	Addr of response (MODE=P)

Table 712. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	FULLWORD	4	WBBL_OUTDATA_OFFSET	Offset of response (MODE=O or MODE=D)
				Offset to response (MODE=O)
(5C)	FULLWORD	4	WBBL_OUTDATA_LENGTH	
				Length of response data
(60)	FULLWORD	4	WBBL_METHOD_OFFSET	
				Offset to request method
(64)	FULLWORD	4	WBBL_METHOD_LENGTH	
				Length of request method
(68)	FULLWORD	4	WBBL_HTTP_VERSION_OFFSET	
				Offset to HTTP version
(6C)	FULLWORD	4	WBBL_HTTP_VERSION_LENGTH	
				Length of HTTP version
(70)	FULLWORD	4	WBBL_RESOURCE_OFFSET	
				Offset to resource (URL)
(74)	FULLWORD	4	WBBL_RESOURCE_LENGTH	
				Length of resource
(78)	FULLWORD	4	WBBL_HEADER_OFFSET	
				Offset to first HTTP header
(7C)	FULLWORD	4	WBBL_HEADER_LENGTH	
				Length of all HTTP headers
(80)	FULLWORD	4	WBBL_USER_DATA_OFFSET	
				Offset to user data (forms)

Table 712. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)	FULLWORD	4	WBBL_USER_ DATA_LENGTH	
				Length of user data
(88)	FULLWORD	4	WBBL_CLIENT_ CERTIFICATE_ OFFSET	
				Offset to certificate
(8C)	FULLWORD	4	WBBL_CLIENT_ CERTIFICATE_ LENGTH	
				Length of certificate
(90)	CHARACTER	*	WBBL_DATA	User data (if present)
(90)	CHARACTER	*	WBBL_CLIENT_ CERTIFICATE	
				Certificate data (if present)

Constants

Table 713.

Len	Type	value	Name	Description
4	DECIMAL	1	WBBL_VERSION_	CTS130
4	DECIMAL	1	WBBL_CURRENT_	VERSION
1	CHARACTER	D	WBBL_MODE_AS	CII_DATA
1	CHARACTER	O	WBBL_MODE_OF	FSET
1	CHARACTER	P	WBBL_MODE_PO	INTER

WBOEC Web Output Element List Element Block *OSA

```
!:refstep.wboel_output_element_list ------------------- DFHWBTC 907 -
!
!
! Define the output element list element control block which is
! needed in order to be able to retain the HTML buffers for maps
! that have been generated, and only regenerate the HTML for those
! maps that have changed.
!
!-----------------------------------------------------------------------
```

Table 714.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	89	WBOEL_OUTPUT_ ELEMENT_LIST	

Table 714. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	ADDRESS	4	WBOEL_NEXT_ OUTPUT_ELEM	
(4)	ADDRESS	4	WBOEL_PREV_ OUTPUT_ELEM	
(8)	CHARACTER	48	WBOEL_TEMPLATE_ NAME	
(38)	CHARACTER	8	WBOEL_MAPSET_ NAME	
(40)	CHARACTER	8	WBOEL_MAP_NAME	
(48)	CHARACTER	2	WBOEL_MAP_START	
(48)	UNSIGNED	1	WBOEL_ROW_START	
(49)	UNSIGNED	1	WBOEL_COL_START	
(4A)	CHARACTER	2	WBOEL_MAP_END	
(4A)	UNSIGNED	1	WBOEL_ROW_END	
(4B)	UNSIGNED	1	WBOEL_COL_END	
(4C)	ADDRESS	4	WBOEL_HTML_ BUFFER_PTR	
(50)	FULLWORD	4	WBOEL_HTML_ BUFFER_LEN	
(54)	FULLWORD	4	WBOEL_BUFFER_ SEQNUM	
(58)	BIT(8)	1	WBOEL_FLAGS	
	1...		WBOEL_PROCESSED_ BEFORE	
	.111 1111		*	

WRB Web Request Block Class

Table 715.

Offset Hex	Type	Len	Name (dim)	Description
(0)	DeclareClass	4	WEBREQ	
INSTANCE DATA				
Declared Data				
(0)	CHARACTER Priv	4	*	

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
dcl wbapfx char ext; ! API forms functions ! !:refstep.wbrq_class_data ---------- DFHWBRQ 468 - ! ! The following control blocks are defined: ! ! WebRequest class anchor block (wra) ! contains class related private information, including the anchor ! for the chain of class objects currently installed. Created ! during initialization of the Web Domain. Lives for the ! lifetime of CICS. ! WebRequest class object (wrb) ! Contains information about a Class object which is currently ! installed - created when incoming data arrives on a Port with ! CWXN specified as the transaction to be started to process the ! new work. Chained together as a linked list. ! WebRequest class browse block (wrbr) ! Contains information about an ongoing browse of the WebRequest ! objects. Created at INQUIRE START, and destroyed at INQUIRE END. ! !---------- ---------- WRA - WebRequest class anchor block ----------				
SHARED DATA				
Declared Data				
(0)	STRUCTURE Prot	48	WRA	
(0)	CHARACTER Prot	16	WRA_PREFIX	
(0)	SIGNED Prot	2	WRA_LENGTH	length of wra
(2)	CHARACTER Prot	1	WRA_ARROW	
(3)	CHARACTER Prot	3	WRA_DFH	
(6)	CHARACTER Prot	2	WRA_DOMID	
(8)	CHARACTER Prot	8	WRA_BLOCK_NAME	
(10)	CHARACTER Prot	8	WRA_WRB_SPTOKEN	wrb subpool token
(18)	CHARACTER Prot	8	WRA_WRBR_ SPTOKEN	wrbr subpool token
(20)	CHARACTER Prot	8	*	
(20)	ADDRESS Prot	4	WRA_WRB_FIRST	-> first wrb
(24)	ADDRESS Prot	4	WRA_WRB_LAST	-> last wrb
(28)	CHARACTER Prot	8	WRA_WRBRHEAD	
(28)	ADDRESS Prot	4	WRA_WRBR_FIRST	-> first tbr
(2C)	ADDRESS Prot	4	WRA_WRBR_LAST	-> last tbr

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	CHARACTER Prot	0	*	
---------- Header for wrb chain. ----------				
(0)	CHARACTER Prot	*	WRA_WRBHEAD	
---------- WRB - WebRequest ----------				
(0)	STRUCTURE Publ	1052	WRB	
(0)	CHARACTER Publ	16	WRB_PREFIX	
(0)	SIGNED Publ	2	WRB_LENGTH	WRB control block length
(2)	CHARACTER Publ	14	WRB_EYECATCHER	Eyecatcher '>DFHWBREQBLK'
(10)	ADDRESS Publ	4	WRB_NEXT	-> next wrb
(14)	ADDRESS Publ	4	WRB_PREV	-> previous wrb
(18)	BIT(8) Publ	1	WRB_FLAGS1	
	1... .... Publ		WRB_GREATER_ THAN_32K	
	.1.. .... Publ		WRB_FIRST_ LINE_COMPLETE	
	..1. .... Publ		WRB_SHARED_ TS_REPOSITORY	
	...1 .... Publ		WRB_RECEIVE_ COMPLETE	
	.... 1... Publ		WRB_HEADERS_ RECEIVED	
	.... .1.. Publ		WRB_INITIAL_ BUFFER	
	.... ..1. Publ		WRB_EXEC_ CICS_WEB_SEND	
	....1 Publ		WRB_SEND_ DOCUMENT	
(19)	BIT(8) Publ	1	WRB_FLAGS2	
	1... .... Publ		WRB_CONNECTION_ PERSISTENT	
	.1.. .... Publ		WRB_CONTENT_ LENGTH_FOUND	
	..1. .... Publ		WRB_CONTENT_ TYPE_APPL_ SUPPLIED	
	...1 .... Publ		WRB_KEEP_ ALIVE_SENT	

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1... Publ		WRB_USER_DATA_ESCAPED	
	.... .1.. Publ		WRB_FIRST_RECV_IN_REQUEST	
	.... ..1. Publ		WRB_TIDYUP_COMPLETE	
	....1 Publ		WRB_SEND_RESPONSE_FAILED	
(1A)	BIT(8) Publ	1	WRB_FLAGS3	Authentication
	1... .... Publ		WRB_REGISTER_CERTIFICATE	
	.1.. .... Publ		WRB_PASSWORD_EXPIRED	
	..1. .... Publ		WRB_HEADERS_READ	
	...1 .... Publ		WRB_SUPPRESS_BUFFER_TRACE	
	.... 1... Publ		WRB_AUTOMATIC_AUTHENTICATION	
	.... .1.. Publ		WRB_CERTIFICATE_AUTOREGISTER	
	.... ..1. Publ		WRB_CERTIFICATE_AUTHENTICATION	
	....1 Publ		WRB_BASIC_AUTHENTICATION	
(1B)	BIT(8) Publ	1	WRB_FLAGS4	
	1... .... Publ		WRB_ASCII_USER_DATA	
	.1.. .... Publ		WRB_URL_ENCODED_BODY	
	..1. .... Publ		WRB_NON_TEXT_BODY	
	...1 .... Publ		WRB_DATE_HEADER_FOUND	
	.... 1... Publ		WRB_VERSION_HTTP11	
	.... .1.. Publ		WRB_NON_HTTP_REQUEST	
	.... ..1. Publ		WRB_SEND_BODY	
	....1 Publ		WRB_REQ_URI_ASTERISK	
(1C)	BIT(8) Publ	1	WRB_FLAGS5	
	1... .... Publ		WRB_CONNECTION_CLOSE	
	.1.. .... Publ		WRB_CHUNKED_REQUEST	

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1. .... Publ		WRB_TE_CHUNKED	
	...1 .... Publ		WRB_TE_ TRAILERS	
	.... 1... Publ		WRB_TRAILER_ HEADER	
	.... .1.. Publ		WRB_TRAILER_ ON_RESPONSE	
	.... ..1. Publ		WRB_USER_ DATA_BUFFER	
(1D)	BIT(8) Publ	1	WRB_FLAGS6	
	1... .... Publ		WRB_BYPASS_ ANALYZER	
	.1.. .... Publ		WRB_STATIC_ RESPONSE	
	..1. .... Publ		WRB_STATIC_ NAME_GETMAIN	
	...1 .... Publ		WRB_CONN_ KEEPALIVE_FOUND	
	.... 1... Publ		WRB_TRANSFER_ ENCODED_FOUND	
	.... .1.. Publ		WRB_CONTENT_ LENGTH_SEND_FOUND	
	.... ..1. Publ		WRB_IF_ MOD_SINCE_FOUND	
	....1 Publ		WRB_REDIRECT_ PERMANENT	
(1E)	BIT(8) Publ	1	WRB_FLAGS7	
	1... .... Publ		WRB_CHUNKED_ RESPONSE	
	.1.. .... Publ		WRB_INITIAL_ CHUNK_SENT	
	..1. .... Publ		WRB_SEND_CHUNK	
	...1 .... Publ		WRB_SEND_ IMMEDIATE	
	.... 1... Publ		WRB_SEND_ EVENTUAL	
	.... .1.. Publ		WRB_SEND_ ZERO_CHUNK	
	.... ..1. Publ		WRB_SEND_ MEDIATYPE_ NON_TEXT	
	....1 Publ		WRB_SEND_ DATA_SENT_ OVER_SOCKET	
(1F)	BIT(8) Publ	1	WRB_FLAGS8	

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1... .... Publ		WRB_HOST_ HEADER_FOUND	
	.1.. .... Publ		WRB_CONTENT_ TYPE_FOUND	
	..1. .... Publ		WRB_CONTENT_ ENCODING_FOUND	
	...1 .... Publ		WRB_IF_ UNMOD_SINCE_FOUND	
	.... 1... Publ		WRB_EXPECT_ FOUND	
	.... .1.. Publ		WRB_HIGHER_ VERSION	
	.... ..1. Publ		WRB_SEND_ CLOSE_CONN	
	....1 Publ		WRB_CONN_ CLOSE_FOUND	
(20)	BIT(8) Publ	1	WRB_FLAGS9	
	1... .... Publ		WRB_SERVER_ HEADER_FOUND	
	.1.. .... Publ		WRB_CONNECTION_ HEADER_FOUND	
	..1. .... Publ		WRB_PREV_ SEND_DELETED_DOC	
	...1 .... Publ		WRB_SEND_ EVENTUAL_ERASED	
	.... 1... Publ		WRB_IN_WBEP	
	.... .1.. Publ		WRB_USAGE_ PIPELINE	
	.... ..1. Publ		WRB_ABS_URI	
	....1 Publ		*	
(21)	BIT(8) Publ	1	WRB_FLAGS10	
(22)	BIT(8) Publ	1	WRB_FLAGS11	
(23)	BIT(8) Publ	1	WRB_FLAGS12	
(24)	BIT(8) Publ	1	WRB_FLAGS13	
(25)	BIT(8) Publ	1	WRB_FLAGS14	
(26)	BIT(8) Publ	1	WRB_FLAGS15	
(27)	BIT(8) Publ	1	WRB_FLAGS16	
(28)	CHARACTER Publ	8	WRB_SESSION_ TOKEN	
(28)	ADDRESS Publ	4	WRB_SESSION_ TOKEN_PART1	
(2C)	UNSIGNED Publ	4	WRB_SESSION_ TOKEN_PART2	

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	UNSIGNED Publ	4	WRB_REPOSITORY_TOKEN	
				Pool Token
(34)	UNSIGNED Publ	1	WRB_METHOD_TYPE	
(35)	UNSIGNED Publ	1	WRB_SSL_TYPE	
(36)	SIGNED Publ	2	WRB_KEYSIZE	
(38)	SIGNED Publ	2	WRB_QUERYSTRING_OFFSET	
(3A)	SIGNED Publ	2	WRB_QUERYSTRING_LENGTH	
(3C)	CHARACTER Publ	4	*	
(40)	CHARACTER Publ	8	WRB_USERID	
(48)	ADDRESS Publ	4	WRB_SERVER_DATA_PTR	
(4C)	ADDRESS Publ	4	WRB_METHOD_PTR	
(50)	SIGNED Publ	4	WRB_REMAINING_BUFFER_LEN	
(54)	SIGNED Publ	4	WRB_CHUNK_SIZE_HDR_LEN	
(58)	CHARACTER Publ	8	WRB_SERVER_PROGRAM_NAME	
(60)	CHARACTER Publ	8	WRB_CONVERTER_PROGRAM_NAME	
(68)	CHARACTER Publ	8	WRB_USER_TOKEN	
(70)	UNSIGNED Publ	4	WRB_CLIENT_ADDRESS	
(74)	UNSIGNED Publ	4	WRB_SERVER_ADDRESS	
(78)	CHARACTER Publ	16	WRB_CHAR_CLIENT_ADDRESS_AREA	
(78)	UNSIGNED Publ	1	WRB_CHAR_CLIENT_ADDRESS_LEN	
(79)	CHARACTER Publ	15	WRB_CHAR_CLIENT_ADDRESS	
(88)	CHARACTER Publ	16	WRB_CHAR_SERVER_ADDRESS_AREA	
(88)	UNSIGNED Publ	1	WRB_CHAR_SERVER_ADDRESS_LEN	

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(89)	CHARACTER Publ	15	WRB_CHAR_ SERVER_ADDRESS	
(98)	CHARACTER Publ	40	WRB_COMMON	
(98)	SIGNED Publ	4	WRB_METHOD_ OFFSET	
(9C)	SIGNED Publ	4	WRB_METHOD_ LENGTH	
(A0)	SIGNED Publ	4	WRB_RESOURCE_ OFFSET	
(A4)	SIGNED Publ	4	WRB_RESOURCE_ LENGTH	
(A8)	SIGNED Publ	4	WRB_HTTP_ VERSION_OFFSET	
(AC)	SIGNED Publ	4	WRB_HTTP_ VERSION_LENGTH	
(B0)	SIGNED Publ	4	WRB_HEADER_ OFFSET	
(B4)	SIGNED Publ	4	WRB_HEADER_ LENGTH	
(B8)	SIGNED Publ	4	WRB_USER_ DATA_OFFSET	
(BC)	SIGNED Publ	4	WRB_USER_ DATA_LENGTH	
(C0)	ADDRESS Publ	4	WRB_SUSPEND_ TOKEN	
(C4)	UNSIGNED Publ	4	WRB_INPUT_ DATA_LENGTH	
(C8)	UNSIGNED Publ	4	WRB_RECEIVE_ BUFFER_OFFSET	
(CC)	UNSIGNED Publ	4	WRB_BYTES_ RECEIVED	
(D0)	UNSIGNED Publ	4	WRB_CONTENT_ LENGTH	
(D4)	ADDRESS Publ	4	WRB_CURRENT_PTR	
(D8)	ADDRESS Publ	4	WRB_OUTDATA_PTR	
(DC)	UNSIGNED Publ	4	WRB_OUTDATA_ LENGTH	
(E0)	CHARACTER Publ	8	WRB_DFHCNV_KEY	
(E8)	CHARACTER Publ	8	WRB_SERVER_ PROTOCOL	
(F0)	CHARACTER Publ	4	WRB_TASK_NUM	
(F4)	CHARACTER Publ	4	WRB_REPOSITORY_ STCK	

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F8)	CHARACTER Publ	8	WRB_ANALYZER_ NAME	
(100)	SIGNED Publ	4	WRB_ANALYZER_ RESPONSE	
(104)	SIGNED Publ	4	WRB_ANALYZER_ REASON	
(108)	SIGNED Publ	4	WRB_CONVERTER_ RESPONSE	
(10C)	SIGNED Publ	4	WRB_CONVERTER_ REASON	
(110)	ADDRESS Publ	4	WRB_HEADER_ BROWSE_TOKEN	
(114)	SIGNED Publ	4	WRB_HEADER_ BROWSE_OFFSET	
(118)	SIGNED Publ	4	WRB_USER_ DATA_CURSOR	
(11C)	SIGNED Publ	4	WRB_RESPONSE_ HEADER_LEN	
(120)	CHARACTER Publ	4	WRB_TRANNUM	
(124)	CHARACTER Publ	4	*	
(128)	CHARACTER Publ	6	WRB_REPOSITORY_ HEADER	
(12E)	UNSIGNED Publ	2	WRB_SERVER_ PORTNUMBER	
(130)	STRUCTURE Publ IsA(ETOKEN)	8	WRB_CERT_ REPOSITORY_TOKEN	
(130)	ADDRESS Publ	4	P	
(134)	SIGNED Publ	4	N	
(138)	CHARACTER Publ	40	WRB_CLIENT_ CODEPAGE	
(160)	CHARACTER Publ	8	WRB_TCPIPSERVICE	
(168)	ADDRESS Publ	4	WRB_RECEIVE_ DATA_PTR	
(16C)	ADDRESS Publ	4	WRB_OVERLEN_ DATA_PTR	
(170)	CHARACTER Publ	16	WRB_NEW_ SEND_DOCTOKEN	
(180)	SIGNED Publ	4	WRB_RESPONSE_ LINE_LENGTH	
(184)	SIGNED Publ	4	WRB_SEND_ BODY_LENGTH	
(188)	CHARACTER Publ	8	WRB_FAILING_ PROGRAM	

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(190)	CHARACTER Publ	8	WRB_INITIAL_ STRING	
(198)	CHARACTER Publ	4	WRB_ABEND_CODE	
(19C)	SIGNED Publ	2	WRB_ERROR_CODE	
(19E)	BIT(8) Publ	1	*	
(19F)	CHARACTER Publ	77	WRB_FORMFIELD_ DATA	
(19F)	UNSIGNED Publ	1	WRB_FORMFIELD_ PREV_CONVERT	
(1A0)	CHARACTER Publ	8	WRB_FORMFIELD_ SERVER_CODEPAGE	
(1A8)	CHARACTER Publ	48	WRB_FORMFIELD_ CLIENT_CODEPAGE	
(1D8)	ADDRESS Publ	4	WRB_FORMFIELD_ STRUCT_PTR	
(1DC)	SIGNED Publ	4	WRB_FORMFIELD_ STRUCT_LENGTH	
(1E0)	SIGNED Publ	4	WRB_FORMFIELD_ STRUCT_DATA_LEN	
(1E4)	ADDRESS Publ	4	WRB_FORMFIELD_ BROWSE_TOKEN	
(1E8)	SIGNED Publ	4	WRB_FORMFIELD_ BROWSE_OFFSET	
(1EF)	CHARACTER Publ	73	WRB_STATIC_ RESPONSE_DATA	
(1EF)	UNSIGNED Publ	1	WRB_STATIC_ TYPE	
(1F0)	CHARACTER Publ	56	WRB_STATIC_ MEDIATYPE	
(228)	CHARACTER Publ	8	WRB_STATIC_ CODEPAGE	
(230)	ADDRESS Publ	4	WRB_STATIC_ NAME_PTR	
(234)	SIGNED Publ	4	WRB_STATIC_ NAME_LEN	
(238)	SIGNED Publ	4	WRB_MESSAGE_ NUMBER	
(23C)	ADDRESS Publ	4	WRB_MESSAGE_PTR	
(240)	SIGNED Publ	4	WRB_MESSAGE_LEN	
(244)	BIT(32) Publ	4	WRB_USERID_ TOKEN	
(248)	SIGNED Publ	4	WRB_API_ DATA_LENGTH	
(24C)	ADDRESS Publ	4	WRB_HOST_PTR	
(250)	SIGNED Publ	4	WRB_HOST_LEN	

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(254)	ADDRESS Publ	4	WRB_UME_PTR	
(258)	SIGNED Publ	2	WRB_MEDIATYPE_ OFFSET	
(25A)	SIGNED Publ	2	WRB_MEDIATYPE_ LENGTH	
(25C)	UNSIGNED Publ	4	WRB_CHARACTERSET	
(260)	UNSIGNED Publ	4	WRB_HOSTCODEPAGE	
(264)	UNSIGNED Publ	4	WRB_REQUEST_ HEADER_CCSID	
(268)	SIGNED Publ	4	WRB_CONVERTED_ USER_DATA_LEN	
(26C)	ADDRESS Publ	4	WRB_CONVERSION_ TARGET_PTR	
(270)	SIGNED Publ	4	WRB_CONVERSION_ TARGET_LEN	
(274)	ADDRESS Publ	4	WRB_NEW_ SERVER_DATA_PTR	
(278)	ADDRESS Publ	4	WRB_CONVERTED_ BODY_PTR	
(27C)	SIGNED Publ	4	WRB_CONVERTED_ BODY_LEN	
(280)	SIGNED Publ	4	WRB_CONVERTED_ BODY_STORLEN	
(284)	UNSIGNED Publ	4	WRB_CONTENT_ TYPE_CCSID	
(288)	CHARACTER Publ	40	WRB_CONTENT_ TYPE_CODEPAGE	
(2B0)	SIGNED Publ	4	WRB_CONTENT_ TYPE_CODEPAGE_LEN	
(2B4)	CHARACTER Publ	16	WRB_RECEIVE_ SHARED_DATA	
(2B4)	CHARACTER Publ	16	WRB_RECEIVE_ BODY_DATA	
(2B4)	ADDRESS Publ	4	WRB_RECEIVE_ BODY_PTR	
(2B8)	SIGNED Publ	4	WRB_RECEIVE_ BODY_LEN	
(2BC)	ADDRESS Publ	4	WRB_RECEIVE_ BODY_PTR2	
(2C0)	SIGNED Publ	4	WRB_RECEIVE_ BODY_LEN2	
(2B4)	CHARACTER Publ	16	WRB_RECEIVE_ CHUNK_DATA	
(2B4)	ADDRESS Publ	4	WRB_RECEIVE_ CHUNK_PTR	

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2B8)	SIGNED Publ	4	WRB_RECEIVE_ CHUNK_LEN	
(2BC)	ADDRESS Publ	4	WRB_RECEIVE_ CHUNK_PTR2	
(2C0)	ADDRESS Publ	4	WRB_RECEIVE_ CHUNK_LEN2	
(2C4)	UNSIGNED Publ	4	WRB_RECEIVE_ CONV_SOURCE_CCSID	
(2C8)	UNSIGNED Publ	4	WRB_RECEIVE_ CONV_TARGET_CCSID	
(2CC)	CHARACTER Publ	8	WRB_RECEIVE_ CONV_TOKEN	
(2D4)	ADDRESS Publ	4	WRB_RECEIVE_ CONT_PTR	
(2D8)	SIGNED Publ	4	WRB_RECEIVE_ CONT_LEN	
(2DC)	ADDRESS Publ	4	WRB_RECEIVE_ SET_BUFFER_PTR	
(2E0)	SIGNED Publ	4	WRB_RECEIVE_ SET_BUFFER_LEN	
(2E4)	SIGNED Publ	4	WRB_RECEIVE_ CHUNK_OFFSET	
(2E8)	SIGNED Publ	4	WRB_SEND_ MEDIATYPE_LEN	
(2EC)	CHARACTER Publ	56	WRB_SEND_ MEDIATYPE	
(324)	UNSIGNED Publ	4	WRB_SEND_ SERVER_ CODEPAGE_CCSID	
(328)	UNSIGNED Publ	4	WRB_SEND_ CLIENT_ CODEPAGE_CCSID	
(32C)	CHARACTER Publ	40	WRB_SEND_ CLIENT_CODEPAGE	
(354)	STRUCTURE Publ IsA(BUFFER)	16	WRB_SEND_ BODY_BUFFER	
(354)	ADDRESS Publ	4	P	
(358)	SIGNED Publ	4	N	
(35C)	SIGNED Publ	4	M	
(360)	SIGNED Publ	4	T	
(364)	STRUCTURE Publ IsA(BUFFER)	16	WRB_SEND_ RETRIEVE_BUFFER	
(364)	ADDRESS Publ	4	P	
(368)	SIGNED Publ	4	N	

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(36C)	SIGNED Publ	4	M	
(370)	SIGNED Publ	4	T	
(374)	STRUCTURE Publ IsA(BLOCK)	8	WRB_SEND_ RESP_LINE_BLOCK	
(374)	ADDRESS Publ	4	P	
(378)	SIGNED Publ	4	N	
(37C)	STRUCTURE Publ IsA(BUFFER)	16	WRB_SEND_ HEADERS_BUFFER	
(37C)	ADDRESS Publ	4	P	
(380)	SIGNED Publ	4	N	
(384)	SIGNED Publ	4	M	
(388)	SIGNED Publ	4	T	
(38C)	SIGNED Publ	4	WRB_SEND_ CHUNK_HEADER_ OFFSET	
(390)	SIGNED Publ	4	WRB_SEND_ CLIENT_ CODEPAGE_LEN	
(394)	SIGNED Publ	4	WRB_TRAILER_ HEADER_LEN	
(398)	ADDRESS Publ	4	WRB_RECEIVE_ CHUNK_HEADER_PTR	
(39C)	CHARACTER Publ	8	WRB_MOD_ HDR_ABSTIME	
(3A4)	CHARACTER Publ	8	WRB_UNMOD_ HDR_ABSTIME	
(3AC)	ADDRESS Publ	4	WRB_AC_BIN_PTR	ARM correlator bin ptr !
(3B0)	SIGNED Publ	4	WRB_AC_BIN_LEN	ARM correlator bin len !
(3B4)	ADDRESS Publ	4	WRB_RETRIEVE_ BODY_PTR	
(3B8)	SIGNED Publ	4	WRB_RETRIEVE_ BODY_LEN	
(3BC)	CHARACTER Publ	40	WRB_RECEIVE_ CLIENT_CODEPAGE	
(3E4)	CHARACTER Publ	56	WRB_CONTENT_ TYPE_MEDIATYPE	
(464)	SIGNED Publ	4	WRB_SERVER_HDR_ IN_LEN	

```
------------------------------------------------------------------------
 WRBR - WebRequest browse block
------------------------------------------------------------------------
```

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE Prot	40	WRBR	
(0)	ADDRESS Prot	4	WRBR_NEXT	-> next wrbr
(4)	ADDRESS Prot	4	WRBR_PREV	-> previous wrbr
(8)	CHARACTER Prot	4	WRBR_TRANID	browsing tranid
(C)	CHARACTER Prot	4	WRBR_TRANNUM	browsing tran number
(10)	CHARACTER Prot	8	WRBR_TRANTOKEN	browsing tran token
(18)	CHARACTER Prot	4	WRBR_TOKEN	cursor value
(1C)	SIGNED Prot	4	WRBR_CHANGE_COUNT	change count at last get_next
(20)	ADDRESS Prot	4	WRBR_WRBP	-> current wrbr
(24)	ADDRESS Prot	4	*	reserved
!:erefstep.wbrq_class_data ----------				
(0)	FIXED Publ	1	TRUNCATE	
(0)	FIXED Publ	1	SET	
(0)	FIXED Publ	1	PERSIST	
(0)	FIXED Publ	1	INITIAL	
(0)	FIXED Publ	1	CONVERT	
(0)	FIXED Publ	1	CHUNK	
(0)	FIXED Publ	1	ACTION	
(0)	FIXED Publ	1	CLOSE_STATUS	
(0)	FIXED Publ	1	MEDIA_TYPE	
(0)	FIXED Publ	4	WRQ_RESPONSE	

Constants

Table 716.

Len	Type	value	Name	Description
Restricted Materials of IBM Structure generated for this format WBAP DFHWBAP_ARG DSECT First the enumerated type fields Each name is assigned a numeric value WBAP_START_BROWSE EQU 001 WBAP_READ_NEXT EQU 002 WBAP_END_BROWSE EQU 003 WBAP_GET_MESSAGE_BODY EQU 004 WBAP_GET_HTTP_RESPONSE EQU 005 WBAP_SEND_RESPONSE EQU 006 WBAP_READ EQU 007 WBAP_WRITE_HEADER EQU 008 WBAP_INQUIRE EQU 009 WBAP_INITIALIZE_TRANSACTION EQU 010 WBAP_OK EQU 001 WBAP_EXCEPTION EQU 002 WBAP_DISASTER EQU 003 WBAP_INVALID EQU 004 WBAP_KERNERROR EQU 005 WBAP_PURGED EQU 006 WBAP_INVALID_FUNCTION EQU 001 WBAP_HEADER_NOT_FOUND EQU 002 WBAP_FORMFLD_NOT_FOUND EQU 003 WBAP_HEADER_VALUE_LENGTH_ERROR EQU 004 WBAP_HEADER_NAME_LENGTH_ERROR EQU 005 WBAP_FORMFLD_VALUE_LENGTH_ERROR EQU 006 WBAP_FORMFLD_NAME_LENGTH_ERROR EQU 007 WBAP_INVALID_REQUEST_FORMAT EQU 008 WBAP_INVALID_HEADER EQU 009 WBAP_INVALID_TRAILER_HEADER EQU 010 WBAP_INVALID_FORMFLD EQU 011 WBAP_BROWSE_END EQU 012 WBAP_NON_WEB_TRANSACTION EQU 013 WBAP_INVALID_DOCUMENT_TOKEN EQU 014 WBAP_CODEPAGE_NOT_FOUND EQU 015 WBAP_HEADER_BROWSE_ACTIVE EQU 016 WBAP_HEADER_BROWSE_NOT_ACTIVE EQU 017 WBAP_NO_PREVIOUS_WEB_SEND EQU 018 WBAP_FORMFLD_BROWSE_ACTIVE EQU 019 WBAP_FORMFLD_BROWSE_NOT_ACTIVE EQU 020 WBAP_CLIENT_CODEPAGE_UNSUPP EQU 021 WBAP_SERVER_CODEPAGE_UNSUPP EQU 022 WBAP_NO_FORMS_DATA EQU 023 WBAP_INVALID_CODEPAGE_COMBIN EQU 024 WBAP_CONTAINER_NOT_FOUND EQU 025 WBAP_GETMAIN_FAILED EQU 026 WBAP_SEND_ERROR EQU 027 WBAP_CONNECTION_CLOSED EQU 028 WBAP_TRAILER_NOT_SUPPORTED EQU 029 WBAP_CHUNKING_ACTIVE EQU 030 WBAP_MSG_BODY_NOT_ALLOWED EQU 031 WBAP_PREVIOUS_SEND_FAILED EQU 032 WBAP_INVALID_SEND_SEQUENCE EQU 033 WBAP_CHUNK_INCOMPLETE EQU 034 WBAP_HEADER_MISSED_THE_BUS EQU 035 WBAP_CHUNKING_INVAL_NONHTTP EQU 036 WBAP_BODY_TRUNCATED EQU 037 WBAP_INVALID_CLIENT_CODEPAGE EQU 038 WBAP_INVALID_SERVER_CODEPAGE EQU 039 WBAP_BODY_INCOMPLETE EQU 040 WBAP_INVALID_MEDIATYPE EQU 041 WBAP_CHUNKING_INVAL_HTTP10 EQU 042 WBAP_PARTIAL_BODY EQU 043 WBAP_STATUS_INFO_NOTREQ EQU 044 WBAP_CLIENT_CODEPAGE_NOTREQ EQU 045 WBAP_SERVER_CODEPAGE_NOTREQ EQU 046 WBAP_MEDIATYPE_NOTREQ EQU 047				

Table 716. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	WBAP_START_BROWSE	
1	DECIMAL	2	WBAP_READ_NEXT	
1	DECIMAL	3	WBAP_END_BROWSE	
1	DECIMAL	4	WBAP_GET_ MESSAGE_BODY	
1	DECIMAL	5	WBAP_GET_ HTTP_RESPONSE	
1	DECIMAL	6	WBAP_SEND_RESPONSE	
1	DECIMAL	7	WBAP_READ	
1	DECIMAL	8	WBAP_WRITE_HEADER	
1	DECIMAL	9	WBAP_INQUIRE	
1	DECIMAL	10	WBAP_INITIALIZE_ TRANSACTION	
1	DECIMAL	1	WBAP_OK	
1	DECIMAL	2	WBAP_EXCEPTION	
1	DECIMAL	3	WBAP_DISASTER	
1	DECIMAL	4	WBAP_INVALID	
1	DECIMAL	5	WBAP_KERNERROR	
1	DECIMAL	6	WBAP_PURGED	
1	DECIMAL	1	WBAP_INVALID_ FUNCTION	
1	DECIMAL	2	WBAP_HEADER_ NOT_FOUND	
1	DECIMAL	3	WBAP_FORMFLD_ NOT_FOUND	
1	DECIMAL	4	WBAP_HEADER_ VALUE_LENGTH_ERROR	
1	DECIMAL	5	WBAP_HEADER_ NAME_LENGTH_ERROR	
1	DECIMAL	6	WBAP_FORMFLD_ VALUE_LENGTH_ERROR	
1	DECIMAL	7	WBAP_FORMFLD_ NAME_LENGTH_ERROR	
1	DECIMAL	8	WBAP_INVALID_ REQUEST_FORMAT	
1	DECIMAL	9	WBAP_INVALID_HEADER	
1	DECIMAL	10	WBAP_INVALID_ TRAILER_HEADER	
1	DECIMAL	11	WBAP_INVALID_FORMFLD	
1	DECIMAL	12	WBAP_BROWSE_END	
1	DECIMAL	13	WBAP_NON_ WEB_TRANSACTION	

Table 716. (continued)

Len	Type	value	Name	Description
1	DECIMAL	14	WBAP_INVALID_ DOCUMENT_TOKEN	
1	DECIMAL	15	WBAP_CODEPAGE_ NOT_FOUND	
1	DECIMAL	16	WBAP_HEADER_ BROWSE_ACTIVE	
1	DECIMAL	17	WBAP_HEADER_ BROWSE_NOT_ACTIVE	
1	DECIMAL	18	WBAP_NO_PREVIOUS_ WEB_SEND	
1	DECIMAL	19	WBAP_FORMFLD_ BROWSE_ACTIVE	
1	DECIMAL	20	WBAP_FORMFLD_ BROWSE_NOT_ACTIVE	
1	DECIMAL	21	WBAP_CLIENT_ CODEPAGE_UNSUPP	
1	DECIMAL	22	WBAP_SERVER_ CODEPAGE_UNSUPP	
1	DECIMAL	23	WBAP_NO_FORMS_DATA	
1	DECIMAL	24	WBAP_INVALID_ CODEPAGE_COMBIN	
1	DECIMAL	25	WBAP_CONTAINER_ NOT_FOUND	
1	DECIMAL	26	WBAP_GETMAIN_FAILED	
1	DECIMAL	27	WBAP_SEND_ERROR	
1	DECIMAL	28	WBAP_CONNECTION_ CLOSED	
1	DECIMAL	29	WBAP_TRAILER_ NOT_SUPPORTED	
1	DECIMAL	30	WBAP_CHUNKING_ACTIVE	
1	DECIMAL	31	WBAP_MSG_ BODY_NOT_ALLOWED	
1	DECIMAL	32	WBAP_PREVIOUS_ SEND_FAILED	
1	DECIMAL	33	WBAP_INVALID_ SEND_SEQUENCE	
1	DECIMAL	34	WBAP_CHUNK_ INCOMPLETE	
1	DECIMAL	35	WBAP_HEADER_ MISSED_THE_BUS	
1	DECIMAL	36	WBAP_CHUNKING_ INVAL_NONHTTP	
1	DECIMAL	37	WBAP_BODY_TRUNCATED	
1	DECIMAL	38	WBAP_INVALID_ CLIENT_CODEPAGE	

Table 716. (continued)

Len	Type	value	Name	Description
1	DECIMAL	39	WBAP_INVALID_ SERVER_CODEPAGE	
1	DECIMAL	40	WBAP_BODY_INCOMPLETE	
1	DECIMAL	41	WBAP_INVALID_ MEDIATYPE	
1	DECIMAL	42	WBAP_CHUNKING_ INVAL_HTTP10	
1	DECIMAL	43	WBAP_PARTIAL_BODY	
1	DECIMAL	44	WBAP_STATUS_ INFO_NOTREQ	
1	DECIMAL	45	WBAP_CLIENT_ CODEPAGE_NOTREQ	
1	DECIMAL	46	WBAP_SERVER_ CODEPAGE_NOTREQ	
1	DECIMAL	47	WBAP_MEDIATYPE_ NOTREQ	
1	DECIMAL	48	WBAP_CLOSE_ STATUS_NOTREQ	
1	DECIMAL	49	WBAP_CONVERT_NOTREQ	
1	DECIMAL	50	WBAP_PREV_ SEND_DELETED_DOC	
1	DECIMAL	51	WBAP_FORMFIELD_ STRUCT_FORM_ERR	
1	DECIMAL	52	WBAP_NO_CURRENT_ CHANNEL	
1	DECIMAL	53	WBAP_CHANNEL_ NOT_FOUND	
1	DECIMAL	54	WBAP_CONVERSION_ ERROR	
1	DECIMAL	55	WBAP_CONTAINER_ CONV_IGNORED	
1	DECIMAL	56	WBAP_READONLY_ CONTAINER	
1	DECIMAL	57	WBAP_INVALID_ CHANNEL_NAME	
1	DECIMAL	58	WBAP_INVALID_ CONTAINER_NAME	
1	DECIMAL	59	WBAP_USER_ PROTOCOL_NOT_SUPP	
1	DECIMAL	60	WBAP_CONTAINER_ SUBSEQUENT_REC	
1	DECIMAL	61	WBAP_CHUNKING_ INVALID	
1	DECIMAL	62	WBAP_EVENTUAL_ INVALID	

Table 716. (continued)

Len	Type	value	Name	Description
1	DECIMAL	63	WBAP_INTERNAL_ CONVERSION_ERROR	
1	DECIMAL	64	WBAP_FORMFIELD_ CANNOT_GET_BODY	
1	DECIMAL	65	WBAP_FORMFIELD_ STRUCT_CORRUPT	
1	DECIMAL	66	WBAP_FORMFIELD_ CORRUPT_HEADER	
1	DECIMAL	67	WBAP_FORMFIELD_ NO_BOUNDARY_STR	
1	DECIMAL	68	WBAP_FORMFIELD_ NO_CONTENT_HDR	
1	DECIMAL	69	WBAP_FORMFIELD_ UNKNOWN_FORMTYPE	
1	DECIMAL	70	WBAP_NO_CONVERT_PARM	
1	DECIMAL	71	WBAP_INITIALIZATION_ FAULT	
1	DECIMAL	72	WBAP_UNEXPECTED_ CCNV_RESPONSE	
1	DECIMAL	73	WBAP_UNEXPECTED_ KEDD_RESPONSE	
1	DECIMAL	74	WBAP_UNEXPECTED_ PGCR_RESPONSE	
1	DECIMAL	75	WBAP_UNEXPECTED_ PGCH_RESPONSE	
1	DECIMAL	76	WBAP_UNEXPECTED_ SMGF_RESPONSE	
1	DECIMAL	77	WBAP_UNEXPECTED_ DHDH_RESPONSE	
1	DECIMAL	78	WBAP_UNEXPECTED_ WBQM_RESPONSE	
1	DECIMAL	1	WBAP_HTTP	
1	DECIMAL	2	WBAP_NON_HTTP	
1	DECIMAL	1	WBAP_YES	
1	DECIMAL	2	WBAP_NO	
1	DECIMAL	3	WBAP_CLIENTAUTH	
1	DECIMAL	3	WBAP_DEFAULT	
1	DECIMAL	1	WBAP_HEADER	
1	DECIMAL	2	WBAP_FORMFIELD	
1	DECIMAL	3	WBAP_END	
1	DECIMAL	1	WBAP_IMMEDIATE	
1	DECIMAL	2	WBAP_EVENTUAL	
1	DECIMAL	1	WBAP_CLOSE	
1	DECIMAL	2	WBAP_NOCLOSE	

Table 716. (continued)

Len	Type	value	Name	Description
1	DECIMAL	2	WBAP_HTTPS	
1	DECIMAL	1	WBAP_DOCDELETE	
1	DECIMAL	2	WBAP_NODOCDELETE	
1	DECIMAL	0	WRB_METHOD_NONE	
1	DECIMAL	1	WRB_METHOD_GET	
1	DECIMAL	2	WRB_METHOD_POST	
1	DECIMAL	3	WRB_METHOD_HEAD	
1	DECIMAL	4	WRB_METHOD_PUT	
1	DECIMAL	5	WRB_METHOD_LINK	
1	DECIMAL	6	WRB_METHOD_UNLINK	
1	DECIMAL	7	WRB_METHOD_REQUEUE	
1	DECIMAL	8	WRB_METHOD_DELETE	
1	DECIMAL	9	WRB_METHOD_OPTIONS	
1	DECIMAL	10	WRB_METHOD_TRACE	
1	DECIMAL	11	WRB_METHOD_CONNECT	
1	DECIMAL	1	WRB_STATIC_REDIRECT	
1	DECIMAL	2	WRB_STATIC_HFSFILE	
1	DECIMAL	3	WRB_STATIC_TEMPLATE	
4	DECIMAL	0	WRB_SSL_NO	
4	DECIMAL	1	WRB_SSL_YES	
4	DECIMAL	2	WRB_SSL_CLIAUTH	
1	CHARACTER	N	WRB_PERSIST_NO	
1	CHARACTER	Y	WRB_PERSIST_YES	
4	DECIMAL	1052	WRB_ROUNDED_ UP_LENGTH	
1	NUMB HEX	00	TRUNCATE_NO	
1	NUMB HEX	01	TRUNCATE_YES	
1	NUMB HEX	00	SET_NO	
1	NUMB HEX	01	SET_YES	
1	NUMB HEX	00	PERSIST_NO	
1	NUMB HEX	01	PERSIST_YES	
1	NUMB HEX	00	INITIAL_NO	
1	NUMB HEX	01	INITIAL_YES	
1	NUMB HEX	00	CONVERT_NO	
1	NUMB HEX	01	CONVERT_YES	
1	NUMB HEX	02	CONVERT_DEFAULT	
1	NUMB HEX	01	CHUNK_NO	
1	NUMB HEX	02	CHUNK_YES	

Table 716. (continued)

Len	Type	value	Name	Description
1	NUMB HEX	01	ACTION_IMMEDIATE	
1	NUMB HEX	02	ACTION_EVENTUAL	
1	NUMB HEX	01	CLOSE_YES	
1	NUMB HEX	02	CLOSE_NO	
1	NUMB HEX	01	MEDIA_YES	
1	NUMB HEX	02	MEDIA_NO	
4	DECIMAL	1	WRQ_OK	
4	DECIMAL	2	WRQ_PURGED	
4	DECIMAL	3	WRQ_DISASTER	
4	DECIMAL	4	WRQ_SOCKETS_ RECEIVE_ERROR	
4	DECIMAL	5	WRQ_SOCKETS_ SEND_ERROR	
4	DECIMAL	6	WRQ_SOCKETS_ CLOSE_ERROR	
4	DECIMAL	7	WRQ_CLIENT_ERROR	
4	DECIMAL	8	WRQ_STORAGE_ERROR	
4	DECIMAL	9	WRQ_NO_ANALYZER	
4	DECIMAL	10	WRQ_ANALYZER_ LINK_ERROR	
4	DECIMAL	11	WRQ_ANALYZER_ERROR	
4	DECIMAL	12	WRQ_SOIS_ INQUIRE_FAILED	
4	DECIMAL	13	WRQ_NOT_HTTP_REQUEST	
4	DECIMAL	14	WRQ_WBQM_ PUT_HEADER_FAILED	
4	DECIMAL	15	WRQ_WBQM_ PUT_USER_FAILED	
4	DECIMAL	16	WRQ_NOT_WEB_REQUEST	
4	DECIMAL	17	WRQ_HDR_BROWSE_ ACTIVE	
4	DECIMAL	18	WRQ_HDR_BROWSE_ NOT_ACTIVE	
4	DECIMAL	19	WRQ_REPOSITORY_ IO_ERROR	
4	DECIMAL	20	WRQ_HDR_BROWSE_END	
4	DECIMAL	21	WRQ_HDR_NOT_FOUND	
4	DECIMAL	22	WRQ_INVALID_ REQUEST_FORMAT	
4	DECIMAL	23	WRQ_HDR_VALUE_ LENGTH_ERROR	
4	DECIMAL	24	WRQ_HDR_NAME_ LENGTH_ERROR	

Table 716. (continued)

Len	Type	value	Name	Description
4	DECIMAL	25	WRQ_INVALID_HEADER	
4	DECIMAL	26	WRQ_DOCUMENT_ NOT_FOUND	
4	DECIMAL	27	WRQ_CODEPAGE_ NOT_FOUND	
4	DECIMAL	28	WRQ_WBQM_ GET_REPTOKEN_ERR	
4	DECIMAL	29	WRQ_WBQM_ GET_BODY_OUT_FAILED	
4	DECIMAL	30	WRQ_WBQM_ GET_RESPLINE_FAILED	
4	DECIMAL	31	WRQ_WBQM_ GET_HEADER_OUT_ FAILED	
4	DECIMAL	32	WRQ_CONNECTION_ CLOSED	
4	DECIMAL	33	WRQ_HDR_LENGTH_ERROR	
4	DECIMAL	34	WRQ_ANALYZER_ DATALENG_ERROR	
4	DECIMAL	35	WRQ_NO_PREVIOUS_SEND	
4	DECIMAL	36	WRQ_BAD_PREVIOUS_ SEND	
4	DECIMAL	37	WRQ_FORMFIELD_ BROWSE_ACTIVE	
4	DECIMAL	38	WRQ_FORMFIELD_ BROWSE_NOT_ACTIVE	
4	DECIMAL	39	WRQ_FORMFIELD_ NOT_FOUND	
4	DECIMAL	40	WRQ_FORMFIELD_ VALUE_LENGTH_ERROR	
4	DECIMAL	41	WRQ_FORMFIELD_ NAME_LENGTH_ERROR	
4	DECIMAL	42	WRQ_INVALID_ FORMFIELD	
4	DECIMAL	43	WRQ_FORMFIELD_ BROWSE_END	
4	DECIMAL	44	WRQ_FORMFIELD_ STRUCT_FORM_ERROR	
4	DECIMAL	45	WRQ_FORMFIELD_ CANNOT_GET_BODY	
4	DECIMAL	46	WRQ_FORMFIELD_ CANNOT_GET_CONTENT_ HEADER	
4	DECIMAL	47	WRQ_FORMFIELD_ STRUCT_CORRUPT	

Table 716. (continued)

Len	Type	value	Name	Description
4	DECIMAL	48	WRQ_FORMFIELD_ CORRUPT_CONTENT_ HEADER	
4	DECIMAL	49	WRQ_FORMFIELD_ CANNOT_GET_BOUNDARY_ STRING	
4	DECIMAL	50	WRQ_FORMFIELD_ UNKNOWN_FORM_TYPE	
4	DECIMAL	51	WRQ_NO_CONVERT_PARM	
4	DECIMAL	52	WRQ_CLIENT_ CODEPAGE_UNSUPPORTED	
4	DECIMAL	53	WRQ_SERVER_ CODEPAGE_UNSUPPORTED	
4	DECIMAL	54	WRQ_NO_FORMS_DATA	
4	DECIMAL	55	WRQ_INVALID_ CODEPAGE_COMBINATION	
4	DECIMAL	56	WRQ_BASIC_ AUTHENTICATE_ERROR	
4	DECIMAL	57	WRQ_NO_CLIENT_ CERTIFICATE_USERID	
4	DECIMAL	58	WRQ_ANALYZER_ABEND	
4	DECIMAL	59	WRQ_INSUFFICIENT_ THREADS	
4	DECIMAL	60	WRQ_SSL_HANDSHAKE_ ERROR	
4	DECIMAL	61	WRQ_METHOD_ NOT_IMPLEMENTED	
4	DECIMAL	62	WRQ_VERSION_ NOT_SUPPORTED	
4	DECIMAL	63	WRQ_NO_HOST_HEADER	
4	DECIMAL	64	WRQ_INVALID_ EXPECT_HEADER	
4	DECIMAL	65	WRQ_HTTP10_ INVALID_EXPECT	
4	DECIMAL	66	WRQ_REQUEST_TIMEOUT	
4	DECIMAL	67	WRQ_ANALYZER_ CHARACTERSET_ERROR	
4	DECIMAL	68	WRQ_ANALYZER_ HOSTCODEPAGE_ERROR	
4	DECIMAL	69	WRQ_URIMAP_ CHARACTERSET_ERROR	
4	DECIMAL	70	WRQ_URIMAP_ HOSTCODEPAGE_ERROR	
4	DECIMAL	71	WRQ_INBOUND_ HEADER_CONVERSION_ ERROR	

Table 716. (continued)

Len	Type	value	Name	Description
4	DECIMAL	72	WRQ_INBOUND_ USER_DATA_CONVERSION_ ERROR	
4	DECIMAL	73	WRQ_DATA_ LENGTH_EXCEEDED	
4	DECIMAL	74	WRQ_CHUNKED_ CONTENT_CONFLICT	
4	DECIMAL	75	WRQ_INVALID_ CHUNK_SIZE_HEADER	
4	DECIMAL	76	WRQ_MORE_DATA	
4	DECIMAL	77	WRQ_TRAILER_ LENGTH_ERROR	
4	DECIMAL	78	WRQ_SOCKETS_ERROR	
4	DECIMAL	79	WRQ_INVALID_ CHARACTERSET	
4	DECIMAL	80	WRQ_INVALID_ TRAILING_HEADER	
4	DECIMAL	81	WRQ_TRAILER_ NOT_SUPPORTED	
4	DECIMAL	82	WRQ_WRB_NOT_ON_CHAIN	
4	DECIMAL	83	WRQ_INVALID_CHUNK	
4	DECIMAL	84	WRQ_PREVIOUS_ SEND_FAILED	
4	DECIMAL	85	WRQ_INVALID_ SEND_SEQUENCE	
4	DECIMAL	86	WRQ_INVALID_CODEPAGE	
4	DECIMAL	87	WRQ_CHUNK_INCOMPLETE	
4	DECIMAL	88	WRQ_HEADER_ MISSED_THE_BUS	
4	DECIMAL	89	WRQ_URIMAP_DISABLED	
4	DECIMAL	90	WRQ_PRECONDITION_ FAILED	
4	DECIMAL	91	WRQ_INVALID_ CLIENT_CODEPAGE	
4	DECIMAL	92	WRQ_INVALID_ SERVER_CODEPAGE	
4	DECIMAL	93	WRQ_BODY_INCOMPLETE	
4	DECIMAL	94	WRQ_INVALID_ MEDIATYPE	
4	DECIMAL	95	WRQ_NO_DATA	
4	DECIMAL	96	WRQ_NON_HTTP_DATA	
4	DECIMAL	97	WRQ_INVALID_HOSTNAME	
4	DECIMAL	98	WRQ_STATUS_ INFO_NOT_REQUIRED	

Table 716. (continued)

Len	Type	value	Name	Description
4	DECIMAL	99	WRQ_CLIENT_ CODEPAGE_NOT_REQUIRED	
4	DECIMAL	100	WRQ_SERVER_ CODEPAGE_NOT_REQUIRED	
4	DECIMAL	101	WRQ_MEDIATYPE_ NOT_REQUIRED	
4	DECIMAL	102	WRQ_CLOSE_ STATUS_NOT_REQUIRED	
4	DECIMAL	103	WRQ_CONVERT_ NOT_REQUIRED	
4	DECIMAL	104	WRQ_PRECONDITION2_ FAILED	
4	DECIMAL	105	WRQ_PREV_ SEND_DELETED_DOC	
4	DECIMAL	106	WRQ_WHITE_SPACE_ONLY	
4	DECIMAL	107	WRQ_OPTIONS_ NOT_ALLOWED	
4	DECIMAL	108	WRQ_INVALID_ OPTIONS_URI	
4	DECIMAL	109	WRQ_METHOD_ NOT_OK_FOR_10	

WBSTC Web State Manager Data

```
!:refstep.dfhwbst_copybook --------------------------- DFHWBST 3487 -
!
!
! This file contains state data structure and the state anchor block
! declarations.
!
!--------------------------------------------------------------------
!:refstep.wbst_state_data ---------------------------- DFHWBST 3497 -
!
! wbsth_prefix Eyecatcher for state block
! wbsth_partnership_status The state of the task relationship
! wbsth_master_taskid Task number of master transaction
! wbsth_master_cuowid CICS uow id for master transaction
! wbsth_master_ecb ECB for master transaction
! wbsth_slave_taskid Task number of slave transaction
! wbsth_slave_cuowid CICS uow id for slave transaction
! wbsth_slave_ecb ECB for slave transaction
! wbsth_timestamp Timestamp of this state block
! wbsth_user_data The state user data
!
!--------------------------------------------------------------------
```

Table 717.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	705	WBSTH_STATE_BLOCK	
(0)	CHARACTER	16	WBSTH_PREFIX	
(0)	HALFWORD	2	WBSTH_PREFIX_ LENGTH	

Table 717. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER	14	WBSTH_PREFIX_ TEXT	
(10)	UNSIGNED	4	WBSTH_PARTNERSHIP_ STATUS	
(14)	CHARACTER	4	WBSTH_MASTER_ TASKID	
(18)	CHARACTER	8	WBSTH_MASTER_ CUOWID	
(20)	UNSIGNED	4	WBSTH_MASTER_ECB	
(20)	UNSIGNED	1	*	
(21)	UNSIGNED	3	WBSTH_M_C_CODE	
(24)	CHARACTER	4	WBSTH_SLAVE_ TASKID	
(28)	CHARACTER	8	WBSTH_SLAVE_ CUOWID	
(30)	UNSIGNED	4	WBSTH_SLAVE_ECB	
(30)	UNSIGNED	1	*	
(31)	UNSIGNED	3	WBSTH_S_C_CODE	
(34)	UNSIGNED	4	WBSTH_TIMESTAMP	
(38)	CHARACTER	649	WBSTH_USER_DATA	

Table 718.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	649	WBSTU_STATE_DATA	
(0)	CHARACTER	8	WBSTU_FACILITY_ TOKEN	
(8)	CHARACTER	4	WBSTU_TARGET_ TRANSACTION_ID	
(C)	CHARACTER	4	WBSTU_NEXT_ TRANSACTION_ID	
(10)	CHARACTER	4	WBSTU_TERMID	
(14)	CHARACTER	4	WBSTU_TARGET_ ABEND_CODE	
(18)	CHARACTER	8	WBSTU_TCPIPSERVICE	
(20)	CHARACTER	8	WBSTU_BMS_ PAGE_TOKEN	
(28)	ADDRESS	4	WBSTU_3270_ PAGE_TOKEN	
(2C)	ADDRESS	4	WBSTU_MDT_ TABLE_PTR	
(30)	ADDRESS	4	WBSTU_OUTPUT_ DATA_PTR	
(34)	FULLWORD	4	WBSTU_OUTPUT_ DATA_LENGTH	

Table 718. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	ADDRESS	4	WBSTU_OUTPUT_ OFFSET	
(3C)	ADDRESS	4	WBSTU_OUTPUT_ LENGTH_REMAINING	
(40)	ADDRESS	4	WBSTU_INPUT_ DATA_PTR	
(44)	FULLWORD	4	WBSTU_INPUT_ DATA_LENGTH	
(48)	CHARACTER	8	WBSTU_EXPORTED_ DOCUMENT	
(48)	ADDRESS	4	WBSTU_EXPORTED_ DOCUMENT_PTR	
(4C)	FULLWORD	4	WBSTU_EXPORTED_ DOCUMENT_LEN	
(50)	UNSIGNED	1	WBSTU_CONVERSATION_ TYPE	
(51)	UNSIGNED	1	WBSTU_AID	
(52)	HALFWORD	2	WBSTU_CURSOR	
(54)	BIT(8)	1	WBSTU_USER_STATE	
	1...		WBSTU_PSEUDO_ CONVERSATION	
	.1..		WBSTU_DATA_TYPE	
	..1.		WBSTU_INITIAL_ RECEIVE	
	...1		WBSTU_LAST_ SEND_WSF_QUERY	
	.... 1...		WBSTU_INITIAL_ UNFORMATTED	
	.... .1..		WBSTU_LIGHTPEN	
	.... ..1.		WBSTU_INITIAL_ FLOW	
	1		WBSTU_SEND_ CONTROL_ERASE	
(55)	UNSIGNED	1	WBSTU_SCREEN_ WIDTH	BA60652C
(56)	CHARACTER	1	WBSTU_ALIAS_ PROGID	
(57)	BIT(8)	1	WBSTU_TASK_STATE	
	1...		WBSTU_DFHPEP_SENT_MSG	
	.111 1111		*	
(58)	CHARACTER	2	WBSTU_TARGET_ STARTCODE	
(5A)	CHARACTER	2	WBSTU_NEXT_ STARTCODE	
(5C)	UNSIGNED	4	*	

Table 718. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(60)	CHARACTER	8	WBSTU_MISCELLANEOUS_DATA	
				Extended state data
(60)	ADDRESS	4	WBSTU_MISC_DATA_PTR	
(64)	FULLWORD	4	WBSTU_MISC_DATA_LEN	
(68)	UNSIGNED	1	WBSTU_URL_LENGTH	
(69)	CHARACTER	255	WBSTU_URL	
(168)	UNSIGNED	1	WBSTU_TRANSACTION_DATA_LENGTH	
(169)	CHARACTER	255	WBSTU_TRANSACTION_DATA	
(268)	ADDRESS	4	WBSTU_FIRST_OUTPUT_ELEM	
(26C)	ADDRESS	4	WBSTU_LAST_OUTPUT_ELEM	
(270)	FULLWORD	4	WBSTU_BUFFER_SEQNUM	
(274)	FULLWORD	4	WBSTU_NUMBER_OF_MAPS	
(278)	BIT(8)	1	WBSTU_QUERY_CODES	
	1...		WBSTU_QUERY_COLOR	
	.1..		WBSTU_QUERY_HIGHLIGHT	
	..1.		WBSTU_QUERY_IMPLICIT_PARTN	
	...1		WBSTU_QUERY_REPLY_MODES	
	.... 1...		WBSTU_QUERY_SUMMARY	
	.... .111		*	
(279)	CHARACTER	16	WBSTU_REPOSITORY_TSQNAME	
(279)	CHARACTER	6	WBSTU_REPOSITORY_TSQPREFIX	
(27F)	CHARACTER	6	WBSTU_REPOSITORY_TASKID	
(285)	CHARACTER	4	WBSTU_REPOSITORY_HTML	

Table 719.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	WBSTA_ANCHOR_ BLOCK	
(0)	CHARACTER	16	WBSTA_ANCHOR_ PREFIX	
(0)	HALFWORD	2	WBSTA_ANCHOR_ PREFIX_LEN	
(2)	CHARACTER	14	WBSTA_ANCHOR_ PREFIX_TEXT	
(10)	UNSIGNED	4	WBSTA_GARBAGE_ INTERVAL	
				In minutes
(14)	CHARACTER	4	WBSTA_DIRECTORY_ TOKEN	
(18)	ADDRESS	4	WBSTA_LOCK_TOKEN	
(1C)	CHARACTER	4	WBSTA_WAKEUP_ TIME	As 0hhmmssC
(20)	UNSIGNED	4	WBSTA_TERMINAL_ TIMEOUT	
				In minutes

Constants

Table 720.

Len	Type	value	Name	Description
1	DECIMAL	0	WBSTH_NOT_ INITIALIZED	
1	DECIMAL	1	WBSTH_INITIALIZED	
1	DECIMAL	2	WBSTH_MADE	
1	DECIMAL	3	WBSTH_BROKEN	
1	DECIMAL	4	WBSTH_TERMINATED	
1	DECIMAL	0	WBSTU_NEW_ CONVERSATION	
1	DECIMAL	1	WBSTU_MAP_ CONVERSATION	
1	DECIMAL	2	WBSTU_TEXT_ CONVERSATION	
1	DECIMAL	3	WBSTU_TC_ CONVERSATION	

WBUCC Web Interface URP Constants *MCA

```
!:refstep.dfhwburp_constants ------------------------ DFHWBURP 155 -
!
!
! This copybook defines the constants which are used by
! the User Replaceable Programs.
!
```

```
! &lt; Constant >
! Meaning
!
! &lt; URP_DECODE >
! The call is to the decode function of the converter program.
!
! &lt; URP_ENCODE >
! The call is to the encode function of the converter program.
!
! &lt; URP_OK >
! The RESPONSE value from the User Replaceable Program is OK.
!
! &lt; URP_EXCEPTION >
! The RESPONSE value from the User Replaceable Program is
! EXCEPTION.
!
! &lt; URP_INVALID >
! The RESPONSE value from the User Replaceable Program is
! INVALID.
!
! &lt; URP_DISASTER >
! The RESPONSE value from the User Replaceable Program is
! DISASTER.
!
! &lt; URP_OK_LOOP >
! The RESPONSE value from the User Replaceable Program is OK_LOOP.
!
! &lt; URP_CORRUPT_CLIENT_DATA >
! An architected
! REASON for an EXCEPTION response produced by the
! converter decode function.
!
! &lt; URP_SECURITY_FAILURE >
! An architected
! REASON for an EXCEPTION response produced by the
! converter decode function.
!
! &lt; URP_RESOURCE_TOO_SHORT >
! Reason code returned by CICS-supplied default Analyzer DFHWBADX
! if
! the URI on the HTTP Request is shorter than that expected by the
! default analyzer.
!
! &lt; URP_FIRST_SLASH_MISSING >
! Reason code returned by CICS-supplied default Analyzer DFHWBADX
! if
! it cannot locate a an EBCDIC "/" character in the URI of the
! incoming
! data.
!
! &lt; URP_CONV_NAME_INVALID >
! Reason code returned by CICS-supplied default Analyzer DFHWBADX
! if
! it detects that the name of the converter program to be invoked
! for
! this request is greater than 8 bytes long or has a length of
! zero.
!
! &lt; URP_TRAN_NAME_INVALID >
! Reason code returned by CICS-supplied default Analyzer DFHWBADX
! if
! it detects that the name of the transaction to be started by CICS
! to
! process this request is greater than 8 bytes long or has a
! length of zero.
!
! &lt; URP_SERV_NAME_INVALID >
```

```
! Reason code returned by CICS-supplied default Analyzer DFHWBADX
! if
! it detects that the name of the target program to be invoked for
! this request is greater than 8 bytes long, or has a length of
! zero.
!
! &lt; URP_USER_TOKEN_INVALID >
! Reason code returned by CICS-supplied default Analyzer DFHWBADX
! if
! it detects that the name of the target program to be invoked for
! this request is greater than 8 bytes long, or has a length of
! zero.
!
! &lt; URP_SERVER_NAME_MISSING >
! Reason code returned by CICS-supplied default Analyzer DFHWBADX
! if
! it cannot identify the name of the target program from the URI in
! the
! HTTP request received.
!
! &lt; URP_RECEIVE_OUTSTANDING >
! An architected
! REASON for an EXCEPTION response produced by the
! converter decode function. When this response is
! returned, CICS will issue a further RECEIVE for
! more data.
!
! &lt; eyecatchers >
! Definitions of the eyecatchers at the front
! of the COMMAREAs passed to the Web Interface
! user replaceable programs.
!
!-------------------------------------------------------------------
 ------------------------------------!
  Converter Function Types !
 ------------------------------------!
```

Constants

Table 721.

Len	Type	value	Name	Description
2	DECIMAL	1	URP_DECODE	
2	DECIMAL	2	URP_ENCODE	
------------------------------------! URP Response Values ! ------------------------------------!				
4	DECIMAL	0	URP_OK	
4	DECIMAL	4	URP_EXCEPTION	
4	DECIMAL	8	URP_INVALID	
4	DECIMAL	12	URP_DISASTER	
4	DECIMAL	16	URP_OK_LOOP	
---! URP: Converter reasons for exception response ! ---!				
4	DECIMAL	1	URP_SECURITY_FAILURE	
4	DECIMAL	2	URP_CORRUPT_ CLIENT_DATA	

Table 721. (continued)

Len	Type	value	Name	Description
4	DECIMAL	3	URP_RECEIVE_ OUTSTANDING	
--! URP: Analyzer reasons for exception response ! --!				
4	DECIMAL	1	URP_RESOURCE_ TOO_SHORT	
4	DECIMAL	2	URP_FIRST_ SLASH_MISSING	
4	DECIMAL	4	URP_CONV_ NAME_INVALID	
4	DECIMAL	5	URP_TRAN_ NAME_INVALID	
4	DECIMAL	6	URP_SERV_ NAME_INVALID	
4	DECIMAL	7	URP_USER_ TOKEN_INVALID	
4	DECIMAL	8	URP_SERVER_ NAME_MISSING	
------------------------------------! Eyecatcher values ! ------------------------------------!				
8	CHARACTER	>decode	DECODE_EYECATCHER_ INIT	
8	CHARACTER	>encode	ENCODE_EYECATCHER_ INIT	
8	CHARACTER	>analyze	ANALYZE_EYECATCHER_ INIT	
8	CHARACTER	>dfhwbun	DFHWBUN_EYECATCHER_ INIT	
------------------------------------! DFHWBUN current version ! ------------------------------------!				
4	DECIMAL	2	DFHWBUN_CURRENT_ VERSION	
------------------------------------! DFHCNV keys ! ------------------------------------!				
8	CHARACTER	DFHWBHH	CNV_HTTP_ HEADER_KEY	
8	CHARACTER	DFHWBUD	CNV_USER_DATA_KEY	
------------------------------------! Possible values of wbra_request_type ! ------------------------------------!				
1	DECIMAL	1	WBRA_TYPE_HTTP	
1	DECIMAL	2	WBRA_TYPE_NON_HTTP	

Table 721. (continued)

Len	Type	value	Name	Description
------------------------------------! Possible values of wbra_unescape ! ------------------------------------!				
1	DECIMAL	3	WBRA_UNESCAPE_ REQUIRED	
1	DECIMAL	4	WBRA_UNESCAPE_ NOT_REQUIRED	
------------------------------------! Possible values of wbep_error_code ! ------------------------------------!				
2	DECIMAL	1	WBEP_BLIO_ GREATER_THAN_32K_ RESPONSE	
2	DECIMAL	2	WBEP_COMMAREA_ NO_CONTENT	
2	DECIMAL	3	WBEP_DFHWBBLI_ DOCUMENT_NOT_FOUND	
2	DECIMAL	4	WBEP_DFHWBBLI_ CODEPAGE_NOT_FOUND	
2	DECIMAL	5	WBEP_DFHWBBLI_ API_ERROR	
2	DECIMAL	6	WBEP_DFHWBBLI_ LINK_FAILED_TERMERR	
2	DECIMAL	7	WBEP_DFHWBBLI_ LINK_FAILED_INVREQ	
2	DECIMAL	8	WBEP_DFHWBBLI_ LINK_FAILED_LENGERR	
2	DECIMAL	9	WBEP_DFHWBBLI_ LINK_FAILED_PGMIDERR	
2	DECIMAL	10	WBEP_DFHWBBLI_ LINK_FAILED_SYSIDERR	
2	DECIMAL	11	WBEP_DFHWBBLI_ LINK_FAILED_ROLLEDBACK	
2	DECIMAL	12	WBEP_DFHWBBLI_ LINK_FAILED_NOTAUTH	
2	DECIMAL	13	WBEP_DFHWBBLI_ LINK_FAILED	
2	DECIMAL	14	WBEP_INVALID_ DECODE_PARAMETER_ LIST	
2	DECIMAL	15	WBEP_DECODE_ERROR	
2	DECIMAL	16	WBEP_INVALID_ ENCODE_PARAMETER_ LIST	
2	DECIMAL	17	WBEP_ENCODE_ERROR	
2	DECIMAL	18	WBEP_SAVE_ CERTIFICATE_FAILED	

Table 721. (continued)

Len	Type	value	Name	Description
2	DECIMAL	19	WBEP_DFHWBBLI_ ABEND_HANDLER_ INVOKED	
2	DECIMAL	20	WBEP_INVALID_ATTACH	
2	DECIMAL	21	WBEP_RECEIVE_ERROR	
2	DECIMAL	22	WBEP_ANALYZER_ LINK_ERROR	
2	DECIMAL	23	WBEP_DFHWBXN_ CODEPAGE_ERROR	
2	DECIMAL	24	WBEP_NO_ANALYZER_ SPECIFIED	
2	DECIMAL	25	WBEP_RECEIVE_ STORAGE_ERROR	
2	DECIMAL	26	WBEP_HEADER_ LENGTH_ERROR	
2	DECIMAL	27	WBEP_DFHWBXN_ LOGIC_ERROR	
2	DECIMAL	28	WBEP_LINK_ DFHWBBLI_FAILED	
2	DECIMAL	29	WBEP_ANALYZER_ERROR	
2	DECIMAL	30	WBEP_ANALYZER_ DATALENGTH_ERROR	
2	DECIMAL	31	WBEP_NOT_ AUTHORIZED_TO_ START_ALIAS	
2	DECIMAL	32	WBEP_DFHWBBLI_ BAD_PREVIOUS_WEB_ SEND	
2	DECIMAL	33	WBEP_BAD_ COMMAREA_RESPONSE	
2	DECIMAL	34	WBEP_ALIAS_ TASK_PURGED	
2	DECIMAL	35	WBEP_SECURITY_ UNKNOWN_ESM_RESP	
2	DECIMAL	36	WBEP_SECURITY_ ESM_NOT_RESPONDING	
2	DECIMAL	37	WBEP_SECURITY_ APPLICATION_NOTAUTH	
2	DECIMAL	38	WBEP_SECURITY_ USERID_REVOKED	
2	DECIMAL	39	WBEP_SECURITY_ SECLABEL_CHECK_ FAILED	
2	DECIMAL	40	WBEP_SECURITY_ GROUP_ACCESS_REVOKED	
2	DECIMAL	41	WBEP_SECURITY_ INVALID_USERID	

Table 721. (continued)

Len	Type	value	Name	Description
2	DECIMAL	42	WBEP_ATTACH_ LOGIC_ERROR	
2	DECIMAL	43	WBEP_USER_ NOT_AUTHORISED	
2	DECIMAL	44	WBEP_CLIENT_ AUTHENTICATION_ ERROR	
2	DECIMAL	45	WBEP_ANALYZER_ ABENDED	
2	DECIMAL	46	WBEP_ABNORMAL_ TERMINATION	
2	DECIMAL	47	WBEP_METHOD_ NOT_IMPLEMENTED	
2	DECIMAL	48	WBEP_VERSION_ NOT_SUPPORTED	
2	DECIMAL	49	WBEP_NO_HOST_HEADER	
2	DECIMAL	50	WBEP_INVALID_ EXPECT_HEADER	
2	DECIMAL	51	WBEP_HTTP10_ INVALID_EXPECT	
2	DECIMAL	52	WBEP_REQUEST_TIMEOUT	
2	DECIMAL	53	WBEP_DFHWBXN_ CHARACTERSET_ERROR	
2	DECIMAL	54	WBEP_DFHWBXN_ HOSTCODEPAGE_ERROR	
2	DECIMAL	55	WBEP_CONVERSION_ ERROR	
2	DECIMAL	56	WBEP_DATA_ LENGTH_EXCEEDED	
2	DECIMAL	57	WBEP_CHUNKED_ CONTENT_CONFLICT	
2	DECIMAL	58	WBEP_INVALID_ CHUNK_SIZE_HEADER	
2	DECIMAL	59	WBEP_TRAILER_ LENGTH_ERROR	
2	DECIMAL	60	WBEP_PRECONDITION_ FAILED	
2	DECIMAL	61	WBEP_INVALID_CHUNK	
2	DECIMAL	62	WBEP_NON_HTTP_DATA	
2	DECIMAL	63	WBEP_PRECONDITION2_ FAILED	
2	DECIMAL	64	WBEP_INVALID_ RESPONSE_LENGTH	
2	DECIMAL	65	WBEP_INVALID_ RESPONSE_POINTER	

Table 721. (continued)

Len	Type	value	Name	Description
2	DECIMAL	66	WBEP_OPTIONS_NOT_ALLOWED	
2	DECIMAL	67	WBEP_OPTIONS_NO_ASTERISK	
2	DECIMAL	68	WBEP_METHOD_NOT_OK_FOR_10	

WBURC Web URIMAP definitions

```
!:refstep.dfhwburc_copybook --------------------------- DFHWBUR 773 -
!
!
! This copybook contains mappings for the data areas used by Web
! Domain's URIMAP support. These data areas are:
!
! UME
! The URI Mapping Element.
! UMX
! The URI Mapping Extension
! UVH
! The URI Virtual Host
! UPN
! The URI Path Node
!
!-------------------------------------------------------------------
```

Table 722.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	240	URI_MAPPING_ELEMENT	
(0)	CHARACTER	16	UME_PREFIX	Standard domain prefix
(0)	HALFWORD	2	UME_LENGTH	Length of this UME
(2)	CHARACTER	14	UME_EYECATCHER	'DFHWBURIMAP'
(10)	ADDRESS	4	UME_NEXT	Next UME in chain
(14)	ADDRESS	4	UME_PREV	Previous UME in chain
(18)	CHARACTER	8	UME_URIMAP	Name of URIMAP
(20)	ADDRESS	4	UME_HOST_PTR	Pointer to HOST (UVH)
(24)	ADDRESS	4	UME_PATH_FINAL_NODE_PTR	
				Terminal UPN
(28)	UNSIGNED	1	UME_SCHEME	Scheme: 1=HTTP, 2=HTTPS

Table 722. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(29)	UNSIGNED	1	UME_USAGE	Usage: 1=server, 2=client, 3=pipeline
(2A)	BIT(8)	1	UME_FLAGS	Flag byte
	1...		UME_ACTIVE	URIMAP is active
	.1..		UME_INVOKE_ ANALYZER	
				Invoke Analyzer program
	..1.		UME_REDIRECT_ TEMPORARY	
				Temporary redirect
	...1		UME_REDIRECT_ PERMANENT	
				Permanent redirect
	.... 1...		UME_GENERIC_ RESOURCE	
				Generic target resource
	.... .1..		UME_STATIC_ SERVER	Static server content
	.... ..1.		UME_DYNAMIC_ SERVER	
				Dynamic server content
	1		UME_PIPELINE_ SERVER	
				Pipeline server
(2B)	BIT(8)	1	UME_EXISTENCE	Existence bits
	1...		UME_TCPIPSERVICE_ X	
				TCPIPSERVICE exists
	.1..		UME_PROGRAM_X	PROGRAM exists
	..1.		UME_PIPELINE_X	PIPELINE exists
	...1		UME_WEBSERVICE_ X	WEBSERVICE name exists
	.... 1...		UME_HFSFILE_X	HFSFILE exists
	.... .1..		UME_TEMPLATENAME_ X	
				Templatename exists

Table 722. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		UME_ALTERNATE_ URL_X	
				Alternate URL exists
	1		UME_CERTIFICATE_ LABEL_X	
				Certificate label exists
(2C)	ADDRESS	4	UME_PATHNAME_PTR	Pathname
(30)	CHARACTER	8	UME_TCPIPSERVICE	
(38)	HALFWORD	2	UME_ALTERNATE_ URL_LEN	
				Length of alternate URL
(3A)	HALFWORD	2	UME_PATHNAME_LEN	Length of pathname
(3C)	ADDRESS	4	UME_ALTERNATE_ URL_PTR	
				Redirect URL UMX ptr
(40)	CHARACTER	160	UME_TARGET	Disjoint attributes
(40)	CHARACTER	72	UME_DYNAMIC_ RESOURCE	
(40)	CHARACTER	4	UME_TRANSACTION	CWS transaction
(44)	CHARACTER	4	*	Unused
(44)	UNSIGNED	2	UME_PORTNUMBER	Port number
(46)	UNSIGNED	1	*	reserved
(48)	CHARACTER	8	UME_CONVERTER	Converter program name
(50)	CHARACTER	8	UME_USERID	Userid for alias tran
(58)	CHARACTER	48	UME_RESOURCE	Target resource
(58)	CHARACTER	8	UME_PROGRAM	CWS application program
(60)	CHARACTER	8	UME_PIPELINE	PIPELINE resource
(68)	CHARACTER	32	UME_WEBSERVICE	WEBSERVICE resource
(40)	CHARACTER	160	UME_STATIC_ RESOURCE	
(40)	CHARACTER	48	UME_TEMPLATENAME	CWS template name
(40)	ADDRESS	4	UME_HFSFILE_ PTR	HFS path UMX ptr
(70)	CHARACTER	56	UME_MEDIATYPE	IANA mediatype

Table 722. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A8)	CHARACTER	40	UME_CHARACTERSET	IANA character set
(D0)	CHARACTER	10	UME_HOSTCODEPAGE	CICS host codepage name
(DA)	CHARACTER	6	*	Alignment
(40)	CHARACTER	36	UME_OUTBOUND_ REQUEST	
(40)	ADDRESS	4	UME_CERTIFICATE_ LABEL_PTR	
(44)	CHARACTER	3	*	Reserved
(47)	UNSIGNED	1	UME_CIPHER_ COUNT	Number of ciphers
(48)	CHARACTER	28	UME_CIPHER_ SUITES	
				Cipher suite list
(E0)	CHARACTER	16	UME_STATISTICS	
(E0)	UNSIGNED	4	UME_REFERENCE_ COUNT	
				# times located
(E4)	UNSIGNED	4	UME_DISABLED_ COUNT	
				# times found disabled
(E8)	UNSIGNED	4	UME_REDIRECT_ COUNT	
				# times redirected
(EC)	UNSIGNED	4	*	Reserved
(F0)	CHARACTER	0	*	End of UME

Table 723.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	URI_MAPPING_ EXTENSION	
(0)	CHARACTER	16	UMX_PREFIX	Standard domain prefix
(0)	HALFWORD	2	UMX_LENGTH	Length of this UMX
(2)	CHARACTER	14	UMX_EYECATCHER	'DFHWBURIMAPXN'
(10)	ADDRESS	4	UMX_URIMAP_PTR	Owning URIMAP
(14)	CHARACTER	1	UMX_TYPE	Extension type
(15)	BIT(8)	1	UMX_FLAGS	Reserved
(16)	HALFWORD	2	UMX_NAME_SIZE	Size of extended name

Table 723. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER	*	UMX_NAME	Extended name

Table 724.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	170	URI_VIRTUAL_HOST	Virtual Host
(0)	CHARACTER	16	UVH_PREFIX	Standard prefix
(0)	HALFWORD	2	UVH_LENGTH	Length of UVH
(2)	CHARACTER	14	UVH_EYECATCHER	'EDFHWBVIRTHOST'
(10)	ADDRESS	4	UVH_NEXT	Next UVH in chain
(14)	ADDRESS	4	UVH_PREV	Previous UVH in chain
(18)	ADDRESS	4	UVH_PATH_FIRST	First path on this host
(1C)	ADDRESS	4	UVH_PATH_LAST	Last path on this host
(20)	BIT(8)	1	UVH_FLAGS	Flags
	1...		UVH_ACTIVE	This host is active
	.1..		UVH_REMOTE	This is a remote host
(21)	BIT(8)	1	UVH_EXISTENCE	Existence bits
	1...		UVH_TCPIPSERVICE_X	TCPIPSERVICE exists
(22)	UNSIGNED	2	UVH_SERIAL_NUM	Unique host serial number
(24)	CHARACTER	8	UVH_TCPIPSERVICE	Associated TCPIPSERVICE
(2C)	FULLWORD	4	UVH_REFERENCE_COUNT	Number of references
(30)	FULLWORD	4	UVH_DISABLED_COUNT	# references when disabled
(34)	HALFWORD	2	UVH_HOST_LEN	Length of host name
(36)	CHARACTER	116	UVH_HOST_NAME	Host name

Table 725.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	URI_PATH_NODE	Path node
(0)	ADDRESS	4	UPN_PARENT	Address of parent node

Table 725. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	ADDRESS	4	UPN_CHILD	Address of child node
(8)	ADDRESS	4	UPN_NEXT	Address of next sibling node
(C)	BIT(8)	1	UPN_FLAGS	
	1...		UPN_LEAF	Leaf node: child is a UME
	.1..		UPN_GENERIC	This node name is generic
	..11 11..		*	Unused
	.... ..1.		UPN_QUERYFARM	Children are querystring
	1		UPN_QUERYSTRING	This node is querystring
(D)	BIT(8)	1	*	Alignment
(E)	HALFWORD	2	UPN_NAME_SIZE	Length of node name
(10)	CHARACTER	*	UPN_NAME	Name of this node

XCCBC External CICS Interface Control blocks

```
CONTROL BLOCK NAME = DFHXCCBC
DESCRIPTIVE NAME  = CICS External CICS Interface Control
                    Block definitions

Restricted Materials of IBM

FUNCTION =
     This file contains the control block and constant
     declarations used by the External CICS Interface.
     The file is included in each EXCI module.
     The control blocks are:
         XCGLOBAL - XCGLOBAL block
         XCUSER - XCUSER block
         XCPIPE - XCPIPE block
     All blocks are MVS GETMAINED from storage above the 16MB
     line, subpool 1.
LIFETIME =
     There is only ever one XCGLOBAL block per TCB, and it is
     created on the first Initialise_user call for that TCB. It
     remains until TCB Termination.
     An XCUSER Block is created for each new 'user' defined to
     the system via an Initialise_user call. It remains until
     TCB termination.
     An XCPIPE block is created when an allocate_pipe EXCI
     request is issued for a particular user. It is destroyed
     when a deallocate_pipe request is issued, or at TCB
     termination.
LOCATION =
     XCGLOBAL is chained off the batch AFCB.
     XCUSER blocks are chained together and anchored off XCGLOBAL
     XCPIPE blocks for a particular user are chained together
     and anchored off the relevant XCUSER.
NOTES :
```

```
  DEPENDENCIES = S/370
  RESTRICTIONS = none
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
   XCGGLOBAL Block
```

Table 726.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	408	XCGLOBAL	
(0)	CHARACTER	16	XCG_PREFIX	Standard Prefix
(0)	HALFWORD	2	XCG_LENGTH	
(2)	CHARACTER	14	XCG_EYE	>XC_GLOBAL
Module addresses				
(10)	ADDRESS	4	XCG_PRH_ADDR	Entry Point of DFHXCPRH
(14)	ADDRESS	4	XCG_XFQ_ADDR	Entry Point of DFHXFQ
(18)	ADDRESS	4	XCG_EIP_ADDR	Entry Point of DFHXCEIP
(1C)	ADDRESS	4	XCG_TRP_ADDR	Entry Point of DFHXCTRP
(20)	ADDRESS	4	XCG_TRI_ADDR	Entry Point of DFHXCTRI
(24)	ADDRESS	4	XCG_DMP_ADDR	Entry Point of DFHXCDMP
(28)	ADDRESS	4	XCG_URM_ADDR	Entry Point of DFHXCURM
(2C)	ADDRESS	4	XCG_TRA_ADDR	Entry Point of DFHXCTRA
(30)	ADDRESS	4	XCG_MSG_ADDR	Entry Point of DFHMEBM
(34)	ADDRESS	4	XCG_MTAB_ADDR	Entry Point of DFHMET4E
Working Storage addresses. For XCEIP there is only ever one instance of EIP's working storage, as all EXEC requests are funelled through one user called DFHXCEIP. For XCPRH, XCG_PRH_WS points to the working storage of DFHXCPRH for the currently active user. Each user will have its XCPRH's working storage hung of its XCUSER block.				
(38)	ADDRESS	4	XCG_PRH_WS	Addr(DFHXCPRH's working stg)
(3C)	ADDRESS	4	XCG_EIP_WS	Addr(DFHXCEIP's working stg)
(40)	FULLWORD	4	XCG_PRH_WS_LEN	Len(DFHXCPRH's working stg)
(44)	FULLWORD	4	XCG_EIP_WS_LEN	Len(DFHXCEIP's working stg)
URM Global fields .				
(48)	ADDRESS	4	XCG_URM_ANCHOR	URM global storage anchor

Table 726. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	CHARACTER	8	XCG_PROGRAM	Server program name
Parameters for Trace and message facilities				
(54)	ADDRESS	4	XCG_TRAP_WA_PTR	DFHXCTRA's work area address
(58)	ADDRESS	4	XCG_TRACE_ANCHOR	Trace anchor block address
(5C)	UNSIGNED	4	XCG_TRACE_ TABLE_SIZE	
				Trace table size
(60)	CHARACTER	1	XCG_TRACE_LVL	Level of tracing required
	1...		LEVEL1	Tracing level 1 required
	.1..		LEVEL2	Tracing level 2 required
	..11 1111		*	Reserved
(61)	BIT(8)	1	XCG_TRACE_FLAGS	Trace flags
	1...		XCG_GTF_STARTED	Initial GTF status
	.1..		XCG_TRAP_ACTIVE	Initial status of TRAP
	..1.		XCG_TRACE_ CONFDATA	
				CONFDATA=HIDETC
	...1 1111		*	Reserved
(62)	BIT(8)	1	XCG_MSG_FLAGS	Message flags
	1...		XCG_MSG_ UPPERCASE	Uppercase msgs required
	.111 1111		*	Reserved
(63)	BIT(8)	1	*	Reserved
Parameters for Dump facilities .				
(64)	FULLWORD	4	XCG_DUMP_NUM	Dump number
(68)	ADDRESS	4	XCG_DUMP_ TITLE_PTR	Pointer to dump summary title
(6C)	FULLWORD	4	XCG_DUMP_ TITLE_LEN	Length of dump summary title
(70)	CHARACTER	8	XCG_DUMPCODE	Dumpcode
(78)	CHARACTER	9	XCG_DUMP_STR	Character form of dump id
(81)	BIT(8)	1	XCG_DUMP_FLAGS	Global dump flags
	1...		XCG_SDUMP_ IN_PROGRESS	

Table 726. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				SDUMP taken by DFHXCDMP
	.111 1111		*	Reserved
(82)	HALFWORD	2	XCG_RETRY_TIME	SDUMP Retry time
(84)	ADDRESS	4	XCG_DUMP_ ERROR_DATA	
				Ptr to PSW and regs for EXDUF
Pointers to TCB, XCUSER etc .				
(88)	ADDRESS	4	XCG_TCB	Pointer to our TCB
(8C)	ADDRESS	4	XCG_XCUSER_PTR	Pointer to first XCUSER block
(90)	ADDRESS	4	XCG_CURRENT_XCU	Ptr to currently inuse XCUSER
(94)	ADDRESS	4	XCG_CURRENT_XCP	Ptr to currently insue XCPIPE
(98)	HALFWORD	2	XCG_SVC_INS	SVC number
(9A)	HALFWORD	2	*	Reserved
Timeout value from user options module				
(9C)	FULLWORD	4	XCG_TIMEOUT	Server timeout value
(A0)	CHARACTER	4	XCG_IRP_LEVEL	Returned DFHIRP level
(A4)	BIT(8)	1	XCG_IRP_ CHK_FLAGS	Returned DFHIRP level
	1...		XCG_LEVEL_ CHECKED	IRP level checked already@L1A
	.1..		XCG_LEVEL_OK	IRP level is OK !
	..11 1111		*	Reserved
(A5)	BIT(8)	1	XCG_SECURITY_ FLAGS	Security options
	1...		XCG_SURROGATE_ CHK	Surrogate-user check
(A6)	CHARACTER	1	XCG_VERSION_FLAG	VERSION FLAG
(A7)	BIT(8)	1	XCG_OPT_FLAGS	OPTION FLAGS
	1...		XCG_TEXCI_BKOUT	BACKOUT AFTER ABEND
Message buffer used for WTO of EXCI messages				
(A8)	CHARACTER	132	XCG_INT_MSG	Internal message area
(A8)	HALFWORD	2	XCG_INT_MSG_LEN	LEN
(AA)	HALFWORD	2	XCG_INT_MSG_0	BB

Table 726. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(AC)	CHARACTER	124	XCG_INT_ MSG_TEXT	Maximum size msg output
(128)	FULLWORD	4	XCG_WTO_PARMS	Space for extra WTO parms
Jobname.stepname.procname string kept in XCGLOBAL, used on first DPL (as part of bind data) to inform the target CICS about who we are.				
(12C)	HALFWORD	2	XCG_JOBNAME_LEN	Length of jobname field
(12E)	CHARACTER	35	XCG_JOBNAME	Jobname field
Values and lengths of inserts for message DFHEX0004				
(151)	CHARACTER	8	XCG_JNAME	Jobname
(159)	CHARACTER	8	XCG_SNAME	Stepname
(161)	CHARACTER	8	XCG_PNAME	Procname
(169)	CHARACTER	8	XCG_MVSID	Sysid in SMF
(171)	CHARACTER	8	XCG_APPLID	Target applid
(179)	CHARACTER	3	*	Reserved
(17C)	FULLWORD	4	XCG_I1LEN	Length of jobname
(180)	FULLWORD	4	XCG_I2LEN	Length of stepname
(184)	FULLWORD	4	XCG_I3LEN	Length of procname
(188)	FULLWORD	4	XCG_I4LEN	Length of sysid
(18C)	FULLWORD	4	XCG_I5LEN	Length of applid
(190)	CHARACTER	8	XCG_XCFGROUP	XCF Group Name

XCUSER Block

Table 727.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	444	XCUSER	
(0)	CHARACTER	16	XCU_PREFIX	Standard Prefix
(0)	HALFWORD	2	XCU_LENGTH	
(2)	CHARACTER	14	XCU_EYE	>XC_USER
(10)	CHARACTER	8	XCU_APPL_NAME	Applications MYNAME
(18)	ADDRESS	4	XCU_XCG_PTR	Pointer back to XCGLOBAL
(1C)	ADDRESS	4	XCU_NEXT_XCU	Next XCUSER on chain
(20)	ADDRESS	4	XCU_PIPE_PTR	First pipe on XCUSER chain

Table 727. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	ADDRESS	4	XCU_WS_ADDR	Pointer to PRH's working stg
(28)	CHARACTER	404	XCU_FMH07_MSG	Msg buffer returned on API
(28)	HALFWORD	2	XCU_MSG_LEN	
(2A)	HALFWORD	2	XCU_MSG_0	
(2C)	CHARACTER	400	XCU_MSG_TEXT	

`XCPIPE Block`

Table 728.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	450	XCPIPE	
(0)	CHARACTER	16	XCP_PREFIX	Standard Prefix
(0)	HALFWORD	2	XCP_LENGTH	
(2)	CHARACTER	14	XCP_EYE	>DFHXCPIPE
(10)	ADDRESS	4	XCP_NEXT_XCP	Next pipe on the chain
(14)	CHARACTER	8	XCP_CICS_NAME	Target CICS applid
(1C)	CHARACTER	8	XCP_LOGON_NAME	Target CICS connection
(24)	ADDRESS	4	XCP_XCUSER_PTR	Pointer to owning USER block
(28)	CHARACTER	2	XCP_PIPE_STATUS	Current status of pipe
(28)	CHARACTER	1	XCP_OPEN_STATUS	Pipe is open or closed
	1...		OPEN	Pipe Open
	.1..		MUST_CLOSE	Pipe Open but must close
	..11 1111		*	Reserved
(29)	CHARACTER	1	XCP_CONV_STATE	Conversation state
	1...		FIRST_CONVERS	First convers. since open
	.111 1111		*	Reserved
(2A)	CHARACTER	2	XCP_FLAGS	
(2A)	BIT(8)	1	XCP_ALLOC_OPTS	Copy of callers alloc opts
(2B)	BIT(8)	1	*	Reserved
(2C)	ADDRESS	4	XCP_IRP_IOAREA	Addr of I/O area for IRP

Table 728. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	UNSIGNED	4	XCP_IRP_IO_LEN	Length of I/O area
(34)	UNSIGNED	4	XCP_IRP_DLENGTH	Actual length of data sent
(38)	ADDRESS	4	XCP_XFRASTG1	Addr of Xformers I/O area
(3C)	ADDRESS	4	XCP_IRCLS	Main alist for DFHIR
(40)	CHARACTER	40	XCP_IRCSB	Sublist for DFHIR
(68)	CHARACTER	96	XCP_UU_FMH	FMH for USERID,RRS,UOWID
(C8)	CHARACTER	128	XCP_BIND	Bind data area
(148)	CHARACTER	8	LOGON_PARMS	DFHIRP LOGON parameters
(148)	ADDRESS	4	XCP_LUSERID	Logon userid
(14C)	ADDRESS	4	XCP_LSLCB	Addr of IRP's SLCB
(150)	CHARACTER	8	CONNECT_PARMS	
(150)	BIT(32)	4	XCP_THRDID	Connect thread id
(154)	ADDRESS	4	XCP_SCCB	Addr of session's SCCB
(158)	CHARACTER	32	SWITCH_PARMS	
(158)	ADDRESS	4	XCP_DATA_1	1st data address (RH)
(15C)	UNSIGNED	4	XCP_LEN_1	1st data length
(160)	ADDRESS	4	XCP_DATA_2	2nd data address (RH)
(164)	UNSIGNED	4	XCP_LEN_2	2nd data length
(168)	ADDRESS	4	XCP_DATA_3	3rd data address (RH)
(16C)	UNSIGNED	4	XCP_LEN_3	3rd data length
(170)	ADDRESS	4	XCP_DATA_4	4th data address (RH)
(174)	UNSIGNED	4	XCP_LEN_4	4th data length
(178)	CHARACTER	32	DPL_EXEC_PLIST	
(178)	ADDRESS	4	XCP_ARG_0	A(Arg0)
(17C)	ADDRESS	4	XCP_ARG_1	A(Arg1)
(180)	ADDRESS	4	XCP_ARG_2	A(Arg2)
(184)	ADDRESS	4	XCP_ARG_3	A(Arg3)
(188)	ADDRESS	4	XCP_ARG_4	A(Arg4)
(18C)	ADDRESS	4	XCP_ARG_5	A(Arg5)

Table 728. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(190)	ADDRESS	4	XCP_ARG_6	A(Arg6)
(194)	ADDRESS	4	XCP_ARG_7	A(Arg7)
(198)	CHARACTER	28	XCP_EID	Arg 0
(1B4)	CHARACTER	3	XCP_RH_INPUT	
(1B4)	BIT(8)	1	XCP_RH_I1	Input RH - 1st byte
(1B5)	BIT(8)	1	XCP_RH_I2	Input RH - 2nd byte
(1B6)	BIT(8)	1	XCP_RH_I3	Input RH - 3nd byte
(1B7)	CHARACTER	3	XCP_RH_OUTPUT	
(1B7)	BIT(8)	1	XCP_RH_O1	Output RH - 1st byte
(1B8)	BIT(8)	1	XCP_RH_O2	Output RH - 2nd byte
(1B9)	BIT(8)	1	XCP_RH_O3	Output RH - 3nd byte
(1BA)	CHARACTER	8	XCP_IRCEX	DFHIR Extension

```
XCTRI_PLIST - Plist for Trace Initialisation, Termination and
              Recovery,
```

Table 729.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	XCTRI_PLIST	
(0)	UNSIGNED	1	XCTRI_FUNCTION	Function code
(1)	UNSIGNED	1	XCTRI_RESPONSE	Response code
(2)	UNSIGNED	1	* (2)	Reserved
(4)	ADDRESS	4	XCTRI_WS	A(WS for use by DFHXCTRI)
(8)	ADDRESS	4	XCTRI_XCG_PTR	A(XCGLOBAL block)

Constants

Table 730.

Len	Type	value	Name	Description
XCGLOBAL Constants				
14	CHARACTER	>XC_GLOBAL	XCGLOBAL_ EYECATCHER	
1	CHAR HEX	01	XCG_DFHXCOPT_V1	
1	CHAR HEX	02	XCG_DFHXCOPT_V2	
1	CHAR HEX	03	XCG_DFHXCOPT_V3	
XCUSER Constants				

Table 730. (continued)

Len	Type	value	Name	Description
14	CHARACTER	>XC_USER	XCUSER_EYECATCHER	
XCPIPE Constants				
14	CHARACTER	>XC_PIPE	XCPIPE_EYECATCHER	
Constants for use with XCTRI_FUNCTION				
1	HEX	01	XCTRI_INITIALISE	
1	HEX	02	XCTRI_TERMINATE	
1	HEX	03	XCTRI_RECOVERY	
Constants for use with XCTRI_RESPONSE				
1	HEX	01	XCTRI_OK	
1	HEX	02	XCTRI_DISASTER	
External CICS Interface Abend Codes				
2	DECIMAL	401	XCSTB_CALLED_ IN_AMODE24	
2	DECIMAL	402	XCPRH_ESTAE_ SETUP_FAILURE	
2	DECIMAL	403	XCPRH_XCGLOBAL_ GM_ERROR	
2	DECIMAL	404	XCPRH_CANNOT_ CALL_XCDMP	
2	DECIMAL	405	XCPRH_SSI_ VERIFY_FAIL	
2	DECIMAL	406	XCPRH_SVC_CALL_FAIL	
2	DECIMAL	407	XCPRH_INCORRECT_ SVC_LEVEL	
2	DECIMAL	408	XCPRH_WS_GM_FAILURE	
2	DECIMAL	409	XCPRH_VERIFY_ GM_ERROR	
2	DECIMAL	410	XCPRH_XCUSER_ GM_FAILURE	
2	DECIMAL	411	XCDMP_NO_SVCNUM	
2	DECIMAL	412	XCEIP_UNSUPPORTED_ COMMAND	
2	DECIMAL	413	XCEIP_NO_ RETCODE_AREA	
2	DECIMAL	414	XCEIP_ESTAE_SETUP	
2	DECIMAL	415	XCEIP_CANNOT_ CALL_XCDMP	

XMANC Transaction Manager Domain Anchor Block *L3A

```
Transaction Manager Anchor Block
This control block contains the global storage for the
Transaction Manager domain.
```

Table 731.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	288	XMANCHOR	
(0)	CHARACTER	16	*	prefix
(0)	HALFWORD	2	XMA_LENGTH	inclusive length of anchor
(2)	CHARACTER	14	XMA_EYECATCHER	EBCDFHXMAnchor
(10)	CHARACTER	8	XMA_GENERAL_ SUBPOOL	
				XM general subpool token
(18)	ADDRESS	4	XMA_LOCK_TOKEN	XM domain lock token
(1C)	FULLWORD	4	XMA_XM_STATE	XM domain state
(20)	BIT(8)	1	XMA_GLOBAL_ USER_EXITS_STATUS	
	1...		XMA_XRSINDI_ ACTIVE	
				XRSINDI exit active
	.1..		XMA_XXMATT_ ACTIVE	XXMATT exit active
	..1.		XMA_XAPMGR_ ACTIVE	XAPADMGR exit act
	...1 1111		*	Reserved
(21)	BIT(8)	1	XMA_FLAGS	Flags
	1...		XMA_FORCE_ PURGE_ISSUED	
				Force purge has been issued
	.1..		XMA_TXN_ WAITING_FOREVER	
				Some transaction is in an infinite wait due to a severe transaction initialisation or termination error
	..1.		XMA_KILL_ISSUED	Kill was issued
	...1 1111		*	Reserved
(22)	CHARACTER	2	*	Reserved
(24)	ADDRESS	4	XMA_CATALOG_ LOCK_TOKEN	

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				XM domain catalog lock token
!:refstep.trandef_global_state ----------------------- DFHXMAN 176 - ! ! ! Transaction definition global state ! !--				
(28)	CHARACTER	72	XMA_TRANDEF_ GLOBAL_STATE	
(28)	CHARACTER	24	XMA_TRANDEF_ SUBPOOL_TOKENS	
(28)	CHARACTER	8	XMA_TRANDEF_ INSTANCE_SUBPOOL	
				Subpool tok. for instances
(30)	CHARACTER	8	XMA_TRANDEF_ STATIC_SUBPOOL	
				Subpool token for static
(38)	CHARACTER	8	XMA_TRANDEF_ TPNAME_SUBPOOL	
				Subpool token for tpnames
(40)	CHARACTER	4	XMA_LOCAL_ SYSTEM	Sysid of local system
(44)	ADDRESS	4	XMA_STATIC_ BLOCK_HEAD	
				Head of static block chain
(48)	ADDRESS	4	XMA_STATIC_ BLOCK_TAIL	
				Tail of static block chain
(4C)	BIT(8)	1	XMA_TRANDEF_ CONTROL_FLAGS	
				Various control flags
	1...		XMA_TXD_ RECOVERY_COMPLETE	
				trandef recovery processing complete
	.111 1111		*	Reserved
(4D)	CHARACTER	3	*	Reserved
(50)	CHARACTER	12	XMA_TRANDEF_ DIRECTORY_TOKENS	

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	CHARACTER	4	XMA_TXD_ DIRECTORY_TOKEN	
				Trandef directory
(54)	CHARACTER	4	XMA_RTXD_ DIRECTORY_TOKEN	
				Remote trandef directory
(58)	CHARACTER	4	XMA_TPNM_ DIRECTORY_TOKEN	
				TPName trandef directory
(5C)	ADDRESS	4	XMA_TRANDEF_ LOCK_TOKEN	
				Trandef state lock token
(60)	UNSIGNED	4	XMA_TRANDEF_ INSTANCE_COUNT	
				Number of instances created
(64)	CHARACTER	8	XMA_DTRTRAN_ TOKEN	trandef token
(64)	ADDRESS	4	XMA_DTRTRAN_ TOKEN_P	
				trandef instance address
(68)	UNSIGNED	4	XMA_DTRTRAN_ TOKEN_N	
				validation number
(6C)	CHARACTER	4	XMA_DTRTRAN_ TRAN_ID	
				DTRTRAN tranid
`!:erefstep.trandef_global_state ----------`				
(70)	CHARACTER	88	XMA_TRANSACTION_ GLOBAL_STATE	
(70)	FULLWORD	4	XMA_DETACH_ COUNT	number of detaches
(74)	ADDRESS	4	XMA_FIRST_ TRANSACTION	
				first transaction in chain
(78)	ADDRESS	4	XMA_LAST_ TRANSACTION	
				last transaction in chain

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7C)	ADDRESS	4	XMA_FIRST_ TXN_BROWSE	
				first txn browse in chain
(80)	CHARACTER	8	XMA_TRANSACTION_ SUBPOOL	
				transaction subpool token
(88)	ADDRESS	4	XMA_PROFORMA_ TXN	pro-forma transaction
(8C)	ADDRESS	4	XMA_FIRST_ BAD_TXN_ ENVIRONMENT	
				first bad txn environment (for dump formatting only)
(90)	CHARACTER	8	XMA_TRANNUM_ RANGE	trannum range
(90)	CHARACTER	4	XMA_LOW_ TRANNUM	next free trannum
(94)	CHARACTER	4	XMA_HIGH_ TRANNUM	free trannums end of range
(98)	FULLWORD	4	XMA_ATTACH_ COUNT	number of attaches
(9C)	CHARACTER	8	XMA_CSXM_ TRANDEF_TOKEN	
				CSXM trandef token
(A4)	CHARACTER	4	*	Reserved
(A8)	CHARACTER	0	*	Round to doubleword
!:refstep.tclass_global_state ------------------------ DFHXMAN 221 - ! ! TClass global state ! !----------				
(A8)	CHARACTER	8	XMA_TCLASS_ SUBPOOL	
				TClass subpool token
(B0)	CHARACTER	4	XMA_TCLASS_ DIRECTORY_TOKEN	
				TClass directroy token
(B4)	UNSIGNED	4	XMA_TCLASS_ INSTANCE_COUNT	

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Number of tclasses created
(B8)	BIT(8)	1	XMA_TCLASS_ CONTROL_FLAGS	
				Various control flags
	1...		XMA_TCLASS_ RECOVERY_COMPLETE	
				Tclass recovery processing complete
(B9)	CHARACTER	3	*	Reserved
(BC)	ADDRESS	4	XMA_TCLASS_ CHAIN_HEAD	
				Head of tclass master chain
(C0)	ADDRESS	4	XMA_TCLASS_ CHAIN_TAIL	
				Tail of tclass master chain
(C4)	CHARACTER	4	*	Reserved
(C8)	CHARACTER	0	*	Round to doubleword
!:erefstep.tclass_global_state ------------------------------------ !:refstep.mxt_global_state ---------------------------- DFHXMAN 243 - ! ! Note that the catalogued state is placed here since MXT is the ! only thing that is catalogued at the moment. ! ! MXT global state ! !--				
(C8)	CHARACTER	4	XMA_CATALOGUED_ STATE	
				State restored from catalog
(C8)	UNSIGNED	4	XMA_MXT_LIMIT	Maximum number of user tasks
(CC)	CHARACTER	8	XMA_MXT_ TCLASS_TOKEN	
				MXT tclass token
(CC)	ADDRESS	4	XMA_MXT_ TCLASS_PTR	
				Address of MXT tclass
(D4)	BIT(8)	1	XMA_MXT_FLAGS	

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		XMA_MXT_ LIMIT_SET	MXT limit has been set
	.1..		XMA_MXT_QUEUING	System is at MXT
(D5)	CHARACTER	3	*	Reserved
(D8)	ADDRESS	4	XMA_SCHEDULER_ ERROR_HEAD	
				Head of queue of txns which failed in the scheduler
(DC)	ADDRESS	4	XMA_SYSTEM_ ATTACH_RETRY_HEAD	
				Head of queue of system txns to be re-DS attached
(E0)	FULLWORD	4	XMA_CUSHION_ SIZE_BELOW	
				size of 24 bit cushion
(E4)	FULLWORD	4	XMA_CUSHION_ SIZE_ABOVE	
				size of 31 bit cushion
(E8)	CHARACTER	8	XMA_TOTAL_TASKS	Total number of tasks attached at the time of the last statistics reset
!:erefstep.mxt_global_state ----------				
(F0)	ADDRESS	4	XMA_STATS_ BUFFER_PTR	
				XM stats buffer address
(F4)	CHARACTER	4	*	Reserved
(F8)	CHARACTER	8	XMA_LAST_ RESET_TIME	
				time XM stats were last reset
(100)	CHARACTER	8	XMA_GENERAL_ SUBPOOL_24	
				XM general subpool token for 24 bit storage areas
(108)	CHARACTER	8	*	Spare

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(110)	CHARACTER	8	XMA_RUNTRAN_ SUBPOOL	
				transaction subpool token for context blocks
!:refstep.cekl_xm_purge_requests ---------- DFHXMAN 274 - ! ! CEKL can be used to purge transactions before they become ! @02A DS attached; however the purge requests are issued (refer to ! @02A macro DFHXMKLI for details) without the XM lock being ! acquired. @02A ! ! A difference between the two counts, of requests issued and ! @02A of requests actions, indicates that a scan of the XM global ! @02A transaction chain should be performed in order that such ! trans- @02A actions be purged in a timely manner. ! @02A ! ! CEKL XM purge requests ! @02A ! !----------				
(118)	CHARACTER	8	XMA_CEKL_ XM_PURGE_REQUESTS	
(118)	FULLWORD	4	XMA_CQ_ISSUED	total number of CEKL purge requests issued
(11C)	FULLWORD	4	XMA_XM_ACTIONED	total number of CEKL purgerequests actioned actioned
!:erefstep.cekl_xm_purge_requests ----------				
(120)	CHARACTER	0	*	round to doubleword

Constants

Table 732.

Len	Type	value	Name	Description
Transaction Manager Domain States				
4	DECIMAL	1	PRE_INITIALISING	
4	DECIMAL	2	PRE_INITIALISED	
4	DECIMAL	3	INITIALISING	
4	DECIMAL	4	INITIALISED	
4	DECIMAL	5	QUIESCING	
4	DECIMAL	6	QUIESCED	
4	DECIMAL	7	TERMINATING	
4	DECIMAL	8	TERMINATED	

XMCLC Transaction Manager Transaction Class *L3A

Table 733.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	128	XM_TCLASS	
(0)	CHARACTER	16	TCL_PREFIX	
(0)	HALFWORD	2	TCL_LENGTH	Inclusive length
(2)	CHARACTER	1	TCL_ARROW	Arrow
(3)	CHARACTER	3	TCL_DFH	DFH
(6)	CHARACTER	2	TCL_DOMID	Domain-id
(8)	CHARACTER	8	TCL_BLOCK_NAME	"TCLASS " as eyecatcher
(10)	CHARACTER	8	TCL_TCLASS_NAME	Tclass name
(18)	ADDRESS	4	TCL_NEXT_TCLASS	Next tclass in master chain
(1C)	FULLWORD	4	TCL_USAGE_COUNT	INT of trandef instances referencing this tclass
(20)	FULLWORD	4	TCL_LOCK_COUNT	Number of lock requests preventing delete of tclass
(24)	CHARACTER	4	*	Reserved
(28)	CHARACTER	8	TCL_TCLASS_TOKEN	Token for this tclass
(28)	ADDRESS	4	TCL_TCLASS_ ADDRESS	
				Address of this tclass
(2C)	UNSIGNED	4	TCL_INSTANCE_ NUMBER	
				Instance validation number
(30)	CHARACTER	8	TCL_LOCK_TOKEN	Tclass resource lock token
(38)	CHARACTER	12	TCL_DEFINITION_ STATE	
				State of tclass definition
(38)	UNSIGNED	4	TCL_DEFINED_ MAX_ACTIVE	
				Max. number of transactions that can be active

Table 733. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	UNSIGNED	4	TCL_DEFINED_ PURGE_THRESHOLD	
				Size of queue at which transactions will be purged
(40)	BIT(8)	1	TCL_DEFINITION_ FLAGS	
				Various flags
	1...		TCL_DUMMY_ ENTRY	Transient dummy/ placeholder tclass definition
	.1..		TCL_DUMMY_ WARNING_ MSG_ISSUED	
				An attach-time warning msg has been issued
	..11 1111		*	Reserved
(41)	CHARACTER	3	*	Reserved
(44)	CHARACTER	60	TCL_OPERATIONAL_ STATE	
				State of operational tclass
(44)	UNSIGNED	4	TCL_MAX_QUEUED	Maximum size of queue (one less than purge threshold except zero maps to high)
(48)	UNSIGNED	4	TCL_CURRENT_ ACTIVE	
				Num of txns that are active
(4C)	UNSIGNED	4	TCL_CURRENT_ QUEUED	
				Num of txns that are queued
(50)	ADDRESS	4	TCL_TRANSACTION_ QUEUE_HEAD	
				Head of list of queuing txns
(54)	FULLWORD	4	TCL_ATTACHES_ ALREADY_COUNTED	
				Num attaches counted on previous interval

Table 733. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	CHARACTER	40	TCL_STATISTICS	Statistics for this tclass
(58)	FULLWORD	4	TCL_TOTAL_ ATTACHES	
				Attach requests for tclass
(5C)	FULLWORD	4	TCL_PURGED_ IMMEDIATELY	
				Purges due to purge threshold being reached
(60)	FULLWORD	4	TCL_TOTAL_ QUEUED	Txns that had to queue
(64)	FULLWORD	4	TCL_PURGED_ WHILE_QUEUING	
				Txns purged while queuing
(68)	FULLWORD	4	TCL_PEAK_ ACTIVE	Highest number of active txns
(6C)	FULLWORD	4	TCL_PEAK_ QUEUED	Highest number of queued txns
(70)	FULLWORD	4	TCL_TIMES_ AT_MAX_ACTIVE	
				No. of times at maxactive
(74)	FULLWORD	4	TCL_TIMES_ AT_PURGE_ THRESHOLD	
				No. of times at purge threshold limit
(78)	CHARACTER	8	TCL_TOTAL_ QUEUING_TIME	
				Time spent waiting by those that WERE queued
(80)	CHARACTER	0	*	Round to dword

XMCAT Transaction Manager Catalog Records

```
!:refstep.xm_state_catalog_record ---------------------- DFHXMCT 47 -
!
!
! XM domain state catalog record
!
! Currently the only piece of state that is saved over a CICS
! restart is the MXT limit.
!
! The DTRTRAN isn't saved because no EXEC CICS SET DTRTRAN service
```

```
! is currently available. It is always read from the SIT so there is
! no need to save it over a warm start.
!
!--------------------------------------------------------------------
```

Table 734.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	XM_STATE_ CATALOG_RECORD	
(0)	UNSIGNED	4	CAT_MXT_LIMIT	

```
!:erefstep.xm_ state_catalog_ record ----------------------------------
!:refstep.trandef_ catalog_ record ---------------------- DFHXMCT 59 -
!
  ! Transaction definition catalog record.
!
  ! The transaction definition externals are catalogued together with
  ! each of the aliases that the definition has. The alias existence
  ! bits indicate whether the alias names stored later in the record
  ! are actually active.
!
  ! Note that the 64 character TPName is not written to the catalog in
  ! the case when the definition does not have an active TPName alias.
!
  ! Both the externals and the alias information are copied directly
  ! from the transaction definition to this catalog record. The alias
  ! information is defined as a LIKE as it needs to be interpreted
  ! when the definition is recovered from the catalog. The externals
  ! are copied directly into the recovered definition and don't need
  ! to be interpreted.
!
  !--------------------------------------------------------------------
```

Table 735.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	192	TRANDEF_ CATALOG_RECORD	
(0)	CHARACTER	112	CAT_EXTERNALS	
(70)	CHARACTER	16	CAT_ALIASES	
(70)	BIT(8)	1	TXDSTAT_ ALIAS_EXISTENCE_ BITS	
	1...		TXDSTAT_ ALIAS_X	
	.1..		TXDSTAT_ TASKREQ_X	
	..1.		TXDSTAT_ XTRANID_X	
	...1		TXDSTAT_ TPNAME_X	
	 1111		*	
(71)	CHARACTER	3	*	
(74)	CHARACTER	4	TXDSTAT_ALIAS	
(78)	CHARACTER	4	TXDSTAT_TASKREQ	
(7C)	CHARACTER	4	TXDSTAT_XTRANID	

Table 735. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(80)	CHARACTER	64	CAT_TPNAME	Only if active TPName

```
!:erefstep.trandef_catalog_record ----------------------------------
!:refstep.tclass_catalog_record ----------------------- DFHXMCT 81 -
!
! TClass catalog record.
!
! The tclass record simply consists of the 'max-active' and
! 'purge-threshold' settings.
!
!--------------------------------------------------------------------
```

Table 736.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	TCLASS_ CATALOG_RECORD	
(0)	UNSIGNED	4	CAT_MAX_ACTIVE	
(4)	UNSIGNED	4	CAT_PURGE_ THRESHOLD	

XMRLC Transaction Manager Resource Lock Element *L3A

```
!:refstep.dfhxmrlc ----------------------------------- DFHXMRLL 57 -
!
!
! DFHXMRLC - Resource Lock Control Blocks
!
! Callers of the resource locking servies must include both the
! resource lock element and the resource lock token control blocks.
!
!--------------------------------------------------------------------
!:refstep.resource_lock_token ------------------------ DFHXMRLL 81 -
!
! Resource Lock Token
!
! Each resource to be locked must have a double word "lock token"
! associated with it. The lock token must be initialised to nulls
! and consists of the head of the RLE chain plus an indication of
! the owner of the lock. If the definition is not locked then the
! 'owner' field will be blank.
!
! The token must be defined on a word boundary.
!
!--------------------------------------------------------------------
```

Table 737.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	RESOURCE_ LOCK_TOKEN	
(0)	ADDRESS	4	RESOURCE_ LOCK_WAITERS	
				Waiting lock elements

Table 737. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	BIT(32)	4	RESOURCE_ LOCK_OWNER	
				Identitiy of lock owner

```
!:erefstep.resource_lock_token -------------------------------------
!:refstep.resource_lock_element ---------------------- DFHXMRLL 65 -
!
! Resource Lock Element
!
! The Resource Lock Element describes a single waiter in a queue of
! tasks waiting to obtain exclusive access to a particular resource.
! The head of the queue is addressed from the resource lock token
! associated with that resource.
!
!--------------------------------------------------------------------
```

Table 738.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	17	RLE	
(0)	CHARACTER	4	RLE_EYECATCHER	RLE as eyecatcher
(4)	ADDRESS	4	RLE_RESOURCE	Addr of resource waiting on
(8)	ADDRESS	4	RLE_NEXT	Next waiter in chain
(C)	BIT(32)	4	RLE_SUSPEND_ TOKEN	DS suspend/resume token
(10)	BIT(8)	1	RLE_FLAGS	Various flags
	1...		RLE_RESUMER	Responsibility for resume
	.111 1111		*	Reserved

XMXBC Transaction Manager Tran. Browse Element *L3A

```
Transaction Browse
This control block defines the transaction browse element used
to browse transactions and transaction tokens.
```

Table 739.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	XM_XB	
(0)	CHARACTER	16	*	prefix
(0)	HALFWORD	2	XM_XB_LENGTH	inclusive length
(2)	CHARACTER	14	XM_XB_EYECATCHER	DFHXMTxnBrwEl
(10)	ADDRESS	4	XM_XB_NEXT_XB	next txn browse element

Table 739. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	ADDRESS	4	XM_XB_PREV_TXN	previous transaction browsed
(18)	BIT(8)	1	XM_XB_FLAGS	flags:
	1...		XM_XB_TOKEN_BROWSE	
				token browse: 0 - transaction browse, 1 - transaction token browse
(19)	UNSIGNED	1	XM_XB_TOKEN_OWNER	owner for token browse
(1A)	CHARACTER	2	*	reserved
(1C)	ADDRESS	4	XM_XB_BROWSING_TXN	txn which started the browse (or 0 if no such txn)
(20)	CHARACTER	0	*	round to doubleword

XMXDC Transaction Manager Transaction Definition

Table 740.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	208	TXD_INSTANCE	
(0)	CHARACTER	16	TXDINST_PREFIX	
(0)	HALFWORD	2	TXDINST_LENGTH	Inclusive length
(2)	CHARACTER	1	TXDINST_ARROW	Arrow
(3)	CHARACTER	3	TXDINST_DFH	DFH
(6)	CHARACTER	2	TXDINST_DOMID	Domain-id
(8)	CHARACTER	8	TXDINST_BLOCK_NAME	
				"TXDINST " as eyecatcher
(10)	CHARACTER	4	TXDINST_TRANSACTION_ID	
				Transid here for eyecatcher
(14)	ADDRESS	4	TXDINST_STATIC_BLOCK_ADDR	
				Address of static block
(18)	ADDRESS	4	TXDINST_BACK_CHAIN	Previous instance of this installed trandef

Table 740. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	CHARACTER	8	TXDINST_ TRANDEF_TOKEN	
				Token for this instance
(1C)	ADDRESS	4	TXDINST_ INSTANCE_ADDR	
				Address of this instance
(20)	UNSIGNED	4	TXDINST_ INSTANCE_NUMBER	
				Instance validation number
(24)	FULLWORD	4	TXDINST_ USE_COUNT	No. of txns using instance
(28)	BIT(8)	1	TXDINST_ MISCELLANEOUS_ FLAGS	
				Various internal flags
	1...		TXDINST_ ADD_CREATED	
				Instance created by Add
	.1..		TXDINST_ SET_CREATED	
				Instance created by Set
	..11		*	Reserved
	.... 1...		TXDINST_ SYSTEM_ATTACH	
				Attach as a system task
	.... .1..		TXDINST_ SHUTDOWN_OVERRIDE	
				Allow attaches for txn disabled at shutdown
	.... ..1.		TXDINST_DTRTRAN	Instance created as the DTRTRAN
	1		*	Reserved
(29)	UNSIGNED	1	TXDINST_REMOTE	Remote or possibly remote
(2A)	CHARACTER	2	*	Reserved
(2C)	CHARACTER	8	TXDINST_ TCLASS_TOKEN	

Table 740. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Tclass token
(34)	CHARACTER	32	TXDINST_ TRANDEF_ RELATED_TOKENS	
				Owned by other areas of CICS
(34)	CHARACTER	8	TXDINST_ AP_TOKEN	AP domain's token
(3C)	CHARACTER	8	*	Reserved
(44)	CHARACTER	8	TXDINST_ PG_TOKEN	Program Manager's token
(4C)	CHARACTER	8	*	Reserved
(54)	CHARACTER	12	*	Reserved
(60)	CHARACTER	112	TXDINST_ EXTERNALS	Users view of trandef
(60)	CHARACTER	8	TXDINST_ INITIAL_PROGRAM	
				Initial program to invoke
(68)	CHARACTER	8	TXDINST_ PROFILE_NAME	
				Terminal profile to use
(70)	UNSIGNED	4	TXDINST_TWASIZE	Transaction Work Area size
(74)	UNSIGNED	1	TXDINST_ TASKDATAKEY	
				Taskdatakey: cics/user
(75)	UNSIGNED	1	TXDINST_ TASKDATALOC	
				Taskdataloc: below/any
(76)	UNSIGNED	1	TXDINST_ TRAN_PRIORITY	
				Priority of trandef
(77)	UNSIGNED	1	TXDINST_ PARTITIONSET	
				Partnset: none/named/ keep/own
(78)	CHARACTER	8	TXDINST_ PARTITIONSET_NAME	
				Name of partitionset if NAMED

Table 740. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(80)	UNSIGNED	1	TXDINST_STATUS	Status: enabled/ disabled
(81)	UNSIGNED	1	TXDINST_ SYSTEM_RUNAWAY	
				System runaway: yes/no
(82)	UNSIGNED	1	TXDINST_ INDOUBT_WAIT	
				Indoubt wait: yes/no
(83)	UNSIGNED	1	TXDINST_ INDOUBT_ACTION	
				Indoubt: backout/commit
(84)	UNSIGNED	4	TXDINST_ INDOUBT_WAIT_TIME	
				Indoubt wait interval (mins)
(88)	UNSIGNED	4	TXDINST_ RUNAWAY_LIMIT	
				Runaway limit if not system
(8C)	UNSIGNED	1	TXDINST_ STORAGE_CLEAR	
				Storage clear: yes/no
(8D)	CHARACTER	1	TXDINST_ CONFDATA	Confdata: yes/no
(8E)	UNSIGNED	1	TXDINST_ RESOURCE_SECURITY	
				Resource security: yes/no
(8F)	UNSIGNED	1	TXDINST_ COMMAND_SECURITY	
				Command security: yes/no
(90)	UNSIGNED	4	TXDINST_ DTIMEOUT	Deadlock timeout interval
(94)	CHARACTER	8	TXDINST_ REMOTE_NAME	
				Txn name on remote system
(9C)	CHARACTER	4	TXDINST_ REMOTE_SYSTEM	
				Name of remote system

Table 740. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	CHARACTER	8	TXDINST_TRPROF	Transaction routing profile
(A8)	UNSIGNED	1	TXDINST_DYNAMIC	Dynamic routing: yes/no
(A9)	UNSIGNED	1	TXDINST_ LOCAL_QUEUING	
				Queue routed txns: yes/no
(AA)	UNSIGNED	1	TXDINST_ STORAGE_FREEZE	
				Freemain storage: yes/no
(AB)	UNSIGNED	1	TXDINST_TCLASS	Txn has a TClass: yes/no
(AC)	CHARACTER	8	TXDINST_ TCLASS_NAME	
				TClass name if applicable
(B4)	UNSIGNED	1	TXDINST_RESTART	Transaction restart: yes/no
(B5)	UNSIGNED	1	TXDINST_ SYSTEM_PURGEABLE	
				System purgeable: yes/no
(B6)	UNSIGNED	1	TXDINST_ TERMERR_PURGEABLE	
				Term error purgeable: yes/no
(B7)	UNSIGNED	1	TXDINST_ TRANSACTION_DUMP	
				Transaction dump: yes/no
(B8)	UNSIGNED	1	TXDINST_ TRANSACTION_TRACE	
				Txn trace: stnd/specl/ suprsd
(B9)	UNSIGNED	1	TXDINST_ SHUTDOWN_STATUS	
				disabled/ enabled at Shutdown
(BA)	UNSIGNED	1	TXDINST_ ISOLATED_SUBSPACE	

Table 740. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Isolated subspace: yes/no
(BB)	BIT(8)	1	TXDINST_ EXTERNAL_FLAGS	
				Various recovered flags
	1...		TXDINST_ REMOTE_ SYSTEM_SPECIFIED	
				RemoteSystem specified
	.111 1111		*	Reserved
(BC)	CHARACTER	8	TXDINST_BREXIT	Bridge transaction exit
(C4)	UNSIGNED	1	TXDINST_ ROUTABLE_STATUS	
				Routable starts: routable/ notroutable
(C5)	CHARACTER	3	*	Reserved
(C8)	UNSIGNED	4	TXDINST_ OTSTIMEOUT	
				OTS timeout in seconds
(CC)	UNSIGNED	4	*	Reserved
(D0)	CHARACTER	0	*	Round to dword

Table 741.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	176	TXD_STATIC	
(0)	CHARACTER	16	TXDSTAT_PREFIX	
(0)	HALFWORD	2	TXDSTAT_LENGTH	Inclusive length
(2)	CHARACTER	1	TXDSTAT_ARROW	Arrow
(3)	CHARACTER	3	TXDSTAT_DFH	DFH
(6)	CHARACTER	2	TXDSTAT_DOMID	Domain-id
(8)	CHARACTER	8	TXDSTAT_ BLOCK_NAME	
				"TXDSTAT " as eyecatcher
(10)	CHARACTER	4	TXDSTAT_ TRANSACTION_ID	
				Transaction id
(14)	ADDRESS	4	TXDSTAT_ LATEST_INSTANCE	

Table 741. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				The last instance created for this definition
(18)	ADDRESS	4	TXDSTAT_ NEXT_STATIC_BLOCK	
				Next static block in chain
(1C)	FULLWORD	4	TXDSTAT_ USE_COUNT	No. of references to this
(20)	BIT(8)	1	TXDSTAT_ STATUS_FLAGS	
				Various status flags
	1...		TXDSTAT_ACTIVE	Definition is active and not quiescing
	.1..		TXDSTAT_ REMOTE_DIR_X	
				Defn. has entry in RTXD Dir
	..1.		TXDSTAT_ SYSTEM_DEFINITION	
				Added by the system
	...1 1111		*	Reserved
(21)	CHARACTER	3	*	Reserved
(24)	ADDRESS	4	TXDSTAT_ REMOTE_DIR_PREV	
				Prev defn with same remote name and system
(28)	ADDRESS	4	TXDSTAT_ REMOTE_DIR_NEXT	
				Next defn with same remote name and system
(2C)	CHARACTER	8	TXDSTAT_ LOCK_TOKEN	Update lock token
(34)	CHARACTER	12	*	Reserved
(40)	CHARACTER	60	TXDSTAT_ TRANDEF_STATS	
				Stats per installed transid
(40)	BIT(64)	8	TXDSTAT_ CREATION_TIME	

Table 741. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				STCK when 1st created
(48)	UNSIGNED	4	TXDSTAT_ ATTACH_COUNT	
				Number of attaches
(4C)	UNSIGNED	4	TXDSTAT_ RESTART_COUNT	
				Number of restarts
(50)	UNSIGNED	4	TXDSTAT_ STG_VIOLATIONS	
				Storage violations suffered
(54)	UNSIGNED	4	TXDSTAT_ DYN_LOCAL_COUNT	
				Dynamic txn local runs
(58)	UNSIGNED	4	TXDSTAT_ DYN_REMOTE_COUNT	
				Dynamic txn remote runs
(5C)	UNSIGNED	4	TXDSTAT_ REMOTE_ START_COUNT	
				No. of remote starts of txn
(60)	UNSIGNED	4	TXDSTAT_ FORCED_ ACTN_NOWAIT	
				No ability to wait
(64)	UNSIGNED	4	TXDSTAT_ FORCED_ ACTN_OPERATOR	
				Forced by operator
(68)	UNSIGNED	4	TXDSTAT_ FORCED_ ACTN_TIMEOUT	
				Forced after timeout
(6C)	UNSIGNED	4	TXDSTAT_ FORCED_ ACTN_TRANDEF	
				Decision in trandef taken

Table 741. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(70)	UNSIGNED	4	TXDSTAT_ FORCED_ACTN_OTHER	
				Forced for other reason
(74)	UNSIGNED	4	TXDSTAT_ INDOUBT_ WAIT_COUNT	
				Number of indoubt waits
(78)	UNSIGNED	4	TXDSTAT_ ACTION_MISMATCHES	
				Mismatch trandef decision
(7C)	ADDRESS	4	TXDSTAT_ TPNAME_ADDR	
				Addr of TPName if active
(80)	CHARACTER	4	*	Reserved
(84)	CHARACTER	16	TXDSTAT_ALIASES	
(84)	BIT(8)	1	TXDSTAT_ ALIAS_EXISTENCE_ BITS	
				Aliases that are active
	1...		TXDSTAT_ ALIAS_X	Alias is active
	.1..		TXDSTAT_ TASKREQ_X	
				Taskreq is active
	..1.		TXDSTAT_ XTRANID_X	
				XTranid is active
	...1		TXDSTAT_ TPNAME_X	TPName is active
	 1111		*	Reserved
(85)	CHARACTER	3	*	Reserved
(88)	CHARACTER	4	TXDSTAT_ALIAS	Alias transid if active
(8C)	CHARACTER	4	TXDSTAT_TASKREQ	Taskreq transid if active
(90)	CHARACTER	4	TXDSTAT_XTRANID	Xtranid transid if active
(94)	CHARACTER	28	TXDSTAT_ TCB_COUNTS	TCB count information
(94)	UNSIGNED	4	TXDSTAT_ NEXT_DECAY	

Table 741. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				triggers next decay
(98)	CHARACTER	12	TXDSTAT_ TOTAL_COUNTS	
				Current running totals
(98)	UNSIGNED	4	TXDSTAT_ TOT_ATTACHES	
				no. of tran attaches
(9C)	UNSIGNED	4	TXDSTAT_ TOT_TCB_COUNTS (2)	
				counts for TCB types
(A4)	CHARACTER	12	TXDSTAT_ INTERVAL_COUNTS	
				Current interval counts
(A4)	UNSIGNED	4	TXDSTAT_ INT_ATTACHES	
				no. of tran attaches
(A8)	UNSIGNED	4	TXDSTAT_ INT_TCB_COUNTS (2)	
				counts for TCB types
(B0)	CHARACTER	0	*	Round to dword

Constants

Table 742.

Len	Type	value	Name	Description
Total number of types of open TCB.				
1	DECIMAL	7	NUM_OPEN_TYPES	SEE ABOVE COMMENT !!
Number of types of open TCB which can inherit subspaces (ie DSIT_INHERIT_YES).				
1	DECIMAL	2	NUM_SUBSPACE_ OPEN_TYPES	
Number of combinations of types of open TCB which can inherit subspaces (ie DSIT_INHERIT_YES). This number is 2 to the power NUM_SUBSPACE_OPEN_TYPES.				
4	DECIMAL	4	COMBO_SUBSPACE_ OPEN_TYPES	

XMXNC Transaction Manager Transaction *L3A

```
Transaction
This control block defines the transaction storage for the
Transaction Manager domain.
```

Table 743.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	432	XM_TXN	
(0)	CHARACTER	16	*	prefix
(0)	HALFWORD	2	XM_TXN_LENGTH	inclusive length
(2)	CHARACTER	14	XM_TXN_ EYECATCHER	>DFHXMTxn
(10)	UNSIGNED	1	XM_TXN_ FACILITY_TYPE	
				facility type
(11)	UNSIGNED	1	XM_TXN_ START_CODE	start code
(12)	UNSIGNED	1	XM_TXN_ TASK_PRIORITY	
				task priority
(13)	BIT(8)	1	XM_TXN_FLAGS	flags
	1...		XM_TXN_ INFINITE_WAIT	
				transaction in infinite wait
	.1..		XM_TXN_ PRIORITY_SET	
				priority has been set
	..1.		XM_TXN_ INIT_PURGE_ PROTECT	
				protected from purge during attach phase 2
	...1		XM_TXN_ TERM_PURGE_ PROTECT	
				protected from purge during detach
	.... 1...		XM_TXN_ CREATED_BY_ATTACH	
				created by attach rather than get txn environment
	.... .1..		XM_TXN_TCLASS	txn has a related tclass

Table 743. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		XM_TXN_ TCLASS_LOCKED	
				txn has a tclass locked
	1		XM_TXN_ INSUFF_ STG_MSG_ISSUED	
				Attach failed msg issued
(14)	UNSIGNED	2	XM_TXN_ BROWSE_COUNT	
				# of txn browses in progress
(16)	UNSIGNED	1	XM_TXN_ ATTACH_MESSAGE	
				attach failure message
(17)	BIT(8)	1	XM_TXN_FLAGS2	flags
	1...		XM_TXN_ DEFERRED_ ABEND_TXN_DUMP	
				take a transaction dump on deferred abend
	.1..		XM_TXN_ FORCE_PURGE_ ISSUED	
				force purge issued against this transaction
	..1.		XM_TXN_ PROHIBIT_ INLINE_CALLS	
				Force inline sets to make full domain calls
	...1		XM_TXN_ DEFERRED_ ABEND_SET	
				A deferred abend has been set
	.... 1...		XM_TXN_ DEFERRED_ MESSAGE_SET	
				A deferred message has been set

Table 743. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		XM_TXN_ GROUP_ID_ INHERITED	
				tran group id inherited
	.... ..1.		XM_TXN_ UOW_ID_SUPPLIED	
				transaction is to be attached with an inherited external unit of work id
	1		XM_TXN_ REPORT_CONDITION	
				APAC to be invoked after transaction abend
(18)	ADDRESS	4	XM_TXN_ FACILITY_TOKEN	
				principal_facility_address
(1C)	CHARACTER	8	XM_TXN_ PRIMARY_ CLIENT_REQUEST_BLOCK	
				request block
(1C)	ADDRESS	4	XM_TXN_ PRIMARY_ CLIENT_REQUEST_BLOCK_ADDR	
				address of primary client's block
(20)	FULLWORD	4	XM_TXN_ PRIMARY_ CLIENT_REQUEST_BLOCK_LEN	
				length of primary client's block
(24)	ADDRESS	4	XM_TXN_ ATTACH_PARMS_ADDR	
				attach parms address
(28)	FULLWORD	4	XM_TXN_ ATTACH_ PARMS_LENGTH	
				attach parms length
(2C)	CHARACTER	8	XM_TXN_ REMOTE_NAME	remote name if applic

Table 743. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	CHARACTER	4	XM_TXN_ REMOTE_SYSTEM	
				remote system if applic
(38)	CHARACTER	8	XM_TXN_ TRANSACTION_TOKEN	
				transaction token
(38)	ADDRESS	4	XM_TXN_ TRANSACTION_ADDR	
				address of transaction
(3C)	CHARACTER	4	XM_TXN_TRANNUM	transaction number
(40)	ADDRESS	4	XM_TXN_ NEXT_TRANSACTION	
				next transaction in chain
(44)	ADDRESS	4	XM_TXN_ PREV_TRANSACTION	
				previous transaction in chain
(48)	CHARACTER	4	XM_TXN_ ORIGINAL_ TRANSACTION_ID	
				original tran. id.
(4C)	BIT(8)	1	XM_TXN_FLAG3	flags
	1...		XM_TXN_ PURGE_ISSUED	
				purge was issued against this txn
	.1..		XM_TXN_ KILL_ISSUED	
				kill was issued against this txn
	..1.		XM_TXN_ START_ATTACH	
				E-C START ATTACH
	...1		XM_TXN_ UPDATE_ODR_USER	
				mnxm odr_action
	.... 1...		XM_TXN_NO_ADCB	txn has no ADCB
	.... .111		*	reserved

Table 743. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4D)	CHARACTER	3	*	reserved
(50)	CHARACTER	32	*	task scheduling state
(50)	CHARACTER	8	XM_TXN_ ATTACH_TIME	
				XM attach time
(58)	CHARACTER	8	XM_TXN_ TCLASS_WAIT_START	
				time TCLASS wait started
(58)	CHARACTER	8	XM_TXN_ TCLASS_WAIT_TIME	
				time waited for TCLASS
(60)	CHARACTER	8	XM_TXN_ MXT_WAIT_START	
				time max. task wait started
(60)	CHARACTER	8	XM_TXN_ MXT_WAIT_TIME	
				time waited for max. task
(68)	UNSIGNED	1	XM_TXN_ SCHEDULE_STAGE	
				stage which schedule is at
(69)	UNSIGNED	1	XM_TXN_PHASE	pre/init/bind/ term
(6A)	CHARACTER	2	*	reserved
(6C)	ADDRESS	4	XM_TXN_ DS_TASK_TOKEN	
				Dispatcher task token
(70)	CHARACTER	4	XM_TXN_ PRIMARY_ TRANSACTION_ID	
				primary tran. id.
(74)	CHARACTER	4	XM_TXN_ ABEND_CODE	abend code
(78)	UNSIGNED	1	XM_TXN_ ABEND_IN_PROGRESS	
				abend in progress
(79)	UNSIGNED	1	XM_TXN_ SYSTEM_ TRANSACTION	

Table 743. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				system transaction
(7A)	UNSIGNED	2	XM_TXN_ RESTART_COUNT	
				restart count
(7C)	CHARACTER	4	XM_TXN_ RE_ATTACHED_ UOW_TOKEN	
				UOW token passed by RM domain for re-attached txn resulting from an unshunt
(80)	CHARACTER	8	XM_TXN_ TRANDEF_TOKEN	
				trandef token
(88)	ADDRESS	4	XM_TXN_ SCHEDULER_ RETRY_CHAIN	
				System DS attaches to retry
(88)	ADDRESS	4	XM_TXN_ SCHEDULER_ ERROR_CHAIN	
				Txns with fatal errors in scheduler
(8C)	CHARACTER	16	*	Tclass state
(8C)	ADDRESS	4	XM_TXN_ TCLASS_DELAY_ADDR	
				Addr of area to store queuing delay
(90)	ADDRESS	4	XM_TXN_ NEXT_TCLASS_ WAITER	
				Next transaction waiting for tclass/MXT
(94)	CHARACTER	8	XM_TXN_ TCLASS_TOKEN	
				tclass token
(9C)	CHARACTER	4	XM_TXN_ DEFERRED_ABEND	
				deferred abend code

Table 743. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	CHARACTER	27	XM_TXN_ EXTERNAL_UOW_ID	
				SNA architected unit of work id
(BB)	UNSIGNED	1	XM_TXN_ RE_ATTACHED_ TRANSACTION	
				Re-attached txn as a result of RM domain unshunt
(BC)	UNSIGNED	1	XM_TXN_ ROLLBACK_ REQUESTED	
				Commit to be converted to Rollback
(BD)	UNSIGNED	1	XM_TXN_RESTART	Transaction is to be restarted after transaction abend
(BE)	CHARACTER	2	*	reserved
(C0)	CHARACTER	4	XM_TXN_PURGE_FS	Purge word
(C0)	BIT(8)	1	XM_TXN_ PURGE_FLAG	Flag byte
	1...		XM_TXN_ PURGE_REQUESTED	
				Purge requested
	.1..		XM_TXN_ PURGE_DS_ATTACHED	
				DS attached
	..11 1111		*	Reserved
(C1)	CHARACTER	3	XM_TXN_ PURGE_TRANNUM	
				Transaction number
(C4)	BIT(8)	1	XM_TXN_ ROUTABLE_STATUS	
				transaction routable status
(C5)	BIT(8)	1	XM_TXN_ PRIMARY_ CLIENT_TYPE	
				identity of component that issued the ATTACH
(C6)	CHARACTER	2	*	reserved

Table 743. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C8)	CHARACTER	28	XM_TXN_ TRANSACTION_ GROUP_ID	
				transaction group id
(E4)	CHARACTER	4	XM_TXN_ WLM_SRC_TOKEN	
				WLM SRC_TOKEN
(E8)	ADDRESS	4	XM_TXN_ EWLM_CORRELATOR_ ADDR	
				EWLM correlator
(EC)	FULLWORD	4	XM_TXN_ EWLM_CORRELATOR_ LENGTH	
				EWLM corr length
(F0)	ADDRESS	4	XM_TXN_ ORIGIN_ DATA_LENGTH	
				Origin Data addr
(F4)	FULLWORD	4	XM_TXN_ ORIGIN_DATA_ADDR	
				Origin Data length
(F8)	CHARACTER	8	*	reserved to align token_array on cache
boundary TOKEN_ARRAY must be at the end of the TXN so that entries can be added without requiring extensive recompilation				
!:refstep.token_array ------------------------------ DFHXMXN 1128 - ! ! ! The tokens in the XM_TXN are only ever referenced using the XMIQ ! set_Transaction_token and inquire_transaction_token interface. The ! following overlay field definitions are included only so that ! these fields are easily recognised in the data areas. The order of ! the tokens must reflect the order of the token owners defined in ! the CDURUN definition in DFHXMIQR e.g. xm_txn_ap_token refers to ! the token indexed by xmiq_ap. ! !----------				
(100)	CHARACTER	176	*	
(100)	CHARACTER	8	XM_TXN_TOKEN (22)	
(100)	CHARACTER	176	XM_TXN_ TOKEN_ARRAY	

Table 743. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(100)	CHARACTER	8	XM_TXN_ AP_TOKEN	
(108)	CHARACTER	8	XM_TXN_ SM_TOKEN	
(110)	CHARACTER	8	XM_TXN_ TD_TOKEN	
(118)	CHARACTER	8	XM_TXN_ MN_TOKEN	
(120)	CHARACTER	8	XM_TXN_ PG_TOKEN	
(128)	CHARACTER	8	XM_TXN_ IS_TOKEN	IS domain
(130)	CHARACTER	8	XM_TXN_ XM_TOKEN	
(138)	CHARACTER	8	XM_TXN_ SO_TOKEN	
(140)	CHARACTER	8	XM_TXN_ WB_TOKEN	
(148)	CHARACTER	8	XM_TXN_ XS_TOKEN	
(150)	CHARACTER	8	XM_TXN_ US_TOKEN	
(158)	CHARACTER	8	XM_TXN_ LG_TOKEN	
(160)	CHARACTER	8	XM_TXN_ TF_TOKEN	
(168)	CHARACTER	8	XM_TXN_ RM_TOKEN	
(170)	CHARACTER	8	XM_TXN_ BR_TOKEN	Bridge
(178)	CHARACTER	8	XM_TXN_ IE_TOKEN	IE domain
(180)	CHARACTER	8	XM_TXN_ RZ_TOKEN	RZ domain
(188)	CHARACTER	8	XM_TXN_ EJ_TOKEN	EJ domain !
(190)	CHARACTER	8	XM_TXN_ DP_TOKEN	DP domain !
(198)	CHARACTER	8	XM_TXN_ PI_TOKEN	PI domain !
(1A0)	CHARACTER	8	XM_TXN_ AD_TOKEN	AD component MN domain !
(1A8)	CHARACTER	8	XM_TXN_ DD_TOKEN	DD domain !
!:erefstep.token_array ----------				
(1B0)	CHARACTER	0	*	round to doubleword

Constants

Table 744.

Len	Type	value	Name	Description
Null value for xm_txn_attach_message THESE VALUES INDEX INTO THE STRUCTURE ARRAY DECLARED IN DFHXMAT CALLED primary_client_callback_gates ENSURE CONSISTENT UPDATES				
1	DECIMAL	0	XM_TXN_NULL_ ATTACH_MESSAGE	
Values for xm_txn_primary_client_type				
1	DECIMAL	1	XM_TXN_NONE	
1	DECIMAL	2	XM_TXN_TERMINAL	
1	DECIMAL	3	XM_TXN_TRANDATA	
1	DECIMAL	4	XM_TXN_START	
1	DECIMAL	5	XM_TXN_START_ TERMINAL	
1	DECIMAL	6	XM_TXN_SCHEDULER	
1	DECIMAL	7	XM_TXN_XM_ RUN_TRANSACTION	
1	DECIMAL	8	XM_TXN_BRIDGE	
1	DECIMAL	9	XM_TXN_SOCKET	
1	DECIMAL	10	XM_TXN_WEB	
1	DECIMAL	11	XM_TXN_RRS_UR	
1	DECIMAL	12	XM_TXN_LU61_SESSION	
1	DECIMAL	13	XM_TXN_APPC_SESSION	
1	DECIMAL	14	XM_TXN_MRO_SESSION	
1	DECIMAL	15	XM_TXN_IP_ECI	
1	DECIMAL	16	XM_TXN_IIRR	
1	DECIMAL	17	XM_TXN_RZ_ INSTORE_TRPORT	
1	DECIMAL	18	XM_TXN_IS_SESSION	
Values for xm_txn_schedule_stage				
1	DECIMAL	1	XM_TXN_PRE_SCHEDULE	
1	DECIMAL	2	XM_TXN_TCLASS_ SCHEDULED	
1	DECIMAL	3	XM_TXN_MXT_SCHEDULED	
1	DECIMAL	4	XM_TXN_DS_ATTACHED	
Values for xm_txn_phase				
1	DECIMAL	1	XM_TXN_PRE_INIT	
1	DECIMAL	2	XM_TXN_INIT	
1	DECIMAL	3	XM_TXN_POST_INIT	
1	DECIMAL	4	XM_TXN_BIND	
1	DECIMAL	5	XM_TXN_TERM	

Table 744. (continued)

Len	Type	value	Name	Description
Null value for xm_txn_deferred_abend				
4	CHARACTER		XM_TXN_NULL_ DEFERRED_ABEND	
4	DECIMAL	0	XM_TXN_NULL_TOKEN	
4	DECIMAL	22	XM_TXN_TOKEN_OWNERS	

XSANC Security Domain anchor block

```
!:refstep.xs_anchor_block_and_constants ---------------- DFHXSDM 843 -
!
!
! Define the XS Domain declarations. This step produces the
! "DFHXSANC COPY" file, for general use by the domain. This copybook
! also contains constants required by all the modules in the domain.
!
! Note that this copy file will be used in other routines, for
! example DFHXSTRI for trace interpretation.
!
! Because this file uses the user-defined types declared in
! "DFHXSTYP COPY", all programs that include this file must also
! include "DFHXSTYP".
!
!-------------------------------------------------------------------
```

Table 745.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	XSA	XS domain anchor block
(0)	CHARACTER	16	XSA_PREFIX	===> eyecatcher <===
(0)	HALFWORD	2	XSA_PREFIX_ LENGTH	length of xsa
(2)	CHARACTER	14	XSA_PREFIX_TEXT	DFHXSANCHOR
(10)	UNSIGNED	1	XSA_XS_STATE	XS domain state initialised, quiesce or terminated
(11)	BIT(8)	1	*	reserved for flags
(12)	CHARACTER	2	XSA_CICS_SVC	The CICS type-3 SVC
(12)	UNSIGNED	1	XSA_CICS_ SVC_OPCODE	
				SVC operation code
(13)	UNSIGNED	1	XSA_CICS_ SVC_NUMBER	
				SVC number from kernel

Table 745. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	ADDRESS	4	XSA_AUTHORIZED_ BLOCK_POINTER	
				The key-zero portion of the XS state
(18)	CHARACTER	4	XSA_APPC_SEED	"Random Number" seed for XSLU APPC Functions
!:refstep.xsa_subpool_tokens ------------------------ DFHXSDM 1080 - ! ! Here we define the subpool tokens representing the various storage ! manager subpools acquired for the Security Domain. ! !----------				
(1C)	STRUCTURE IsA(ETOKEN)	8	XSA_SPTOKEN_ GENERAL	
				General use subpool, including the XS anchor
(1C)	ADDRESS	4	P	
(20)	FULLWORD	4	N	
(24)	STRUCTURE IsA(ETOKEN)	8	XSA_XSXM_POOL	Quickcell pool for XSXM
(24)	ADDRESS	4	P	
(28)	FULLWORD	4	N	
!:erefstep.xsa_subpool_tokens ---------- !:refstep.xsa_lock_tokens ---------- DFHXSDM 1088 - ! ! Here we define the lock tokens representing the various locks ! obtained from the Lock Manager and used by the Security Domaain. ! !----------				
(2C)	ADDRESS	4	XSA_DOMAIN_ LOCK_TOKEN	
				XS domain lock token
(30)	ADDRESS	4	XSA_RESCHECK_ LOCK_TOKEN	
				Resource check lock
(34)	ADDRESS	4	XSA_REBUILD_ LOCK_TOKEN	
				Security Rebuild lock
(38)	ADDRESS	4	XSA_EXTRACT_ LOCK_TOKEN	
				Security Extract lock

Table 745. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.xsa_lock_tokens ----------				
(3C)	CHARACTER	3	*	Alignment
(3F)	STRUCTURE IsA(USERID)	11	XSA_DFLTUSER	Default userid
(3F)	UNSIGNED	1	LEN	
(40)	CHARACTER	10	VAL	
(4A)	HALFWORD	2	XSA_DFLTUSER_ NAME_N	
				Length of dflt name
(4C)	CHARACTER	20	XSA_DFLTUSER_ NAME	Default common name
(60)	CHARACTER	0	*	Reserved This is for double word boundary alignment. End of XS anchor block

Constants

Table 746.

Len	Type	value	Name	Description
---------- XS Domain States (printed in formatted dump) ----------				
1	DECIMAL	1	XS_STATE_ INITIALISING	
1	DECIMAL	2	XS_STATE_INITIALISED	
1	DECIMAL	3	XS_STATE_QUIESCING	
1	DECIMAL	4	XS_STATE_QUIESCED	
1	DECIMAL	5	XS_STATE_TERMINATED	
---------- Component id (for use on ME domain calls) ----------				
2	CHARACTER	XS	COMPID	used on ME domain call
---------- Standard message numbers and system dumpcode values ----------				
1	DECIMAL	1	MNO_ABEND	
8	CHARACTER	XS0001	DCD_ABEND	
1	DECIMAL	2	MNO_SEVERE_ERROR	
8	CHARACTER	XS0002	DCD_SEVERE_ERROR	
1	DECIMAL	3	MNO_NO_STORAGE	

Table 746. (continued)

Len	Type	value	Name	Description
8	CHARACTER	XS0003	DCD_NO_STORAGE	
1	DECIMAL	4	MNO_LOOP	
8	CHARACTER	XS0004	DCD_LOOP	
1	DECIMAL	5	MNO_STCK_ERROR	
8	CHARACTER	XS0005	DCD_STCK_ERROR	
1	DECIMAL	6	MNO_NO_MVS_STORAGE	
8	CHARACTER	XS0006	DCD_NO_MVS_STORAGE	
---------- XS domain message numbers and system dumpcode values! ----------				
4	DECIMAL	1108	MNO_APPCLU_ RACLIST_FAILED	
8	CHARACTER	XS1108	DCD_APPCLU_ RACLIST_FAILED	
---------- Trace point identifiers ----------				
2	HEX	0101	TID_XSDM_ENTRY	
2	HEX	0102	TID_XSDM_EXIT	
2	HEX	0103	TID_XSDM_RECOVERY	
2	HEX	0104	TID_XSDM_ INVALID_FORMAT	
2	HEX	0105	TID_XSDM_ INVALID_FUNCTION	
2	HEX	0106	TID_XSDM_ LOCK_ERROR	
2	HEX	0107	TID_XSDM_ UNLOCK_ERROR	
2	HEX	0108	TID_XSDM_ NO_STORAGE_FOR_ XSA	
2	HEX	0109	TID_XSDM_ GET_PARMS_FAILED	
2	HEX	010A	TID_XSDM_ GET_SVC_ERROR	
2	HEX	010B	TID_XSDM_ ROLE_MANAGER_ERROR	
2	HEX	0201	TID_XSAD_ENTRY	
2	HEX	0202	TID_XSAD_EXIT	
2	HEX	0203	TID_XSAD_RECOVERY	
2	HEX	0204	TID_XSAD_ INVALID_FORMAT	
2	HEX	0205	TID_XSAD_ INVALID_FUNCTION	

Table 746. (continued)

Len	Type	value	Name	Description
2	HEX	0206	TID_XSAD_ XSSA_FAILURE	
2	HEX	0207	TID_XSAD_ XSSB_FAILURE	
2	HEX	0301	TID_XSIS_ENTRY	
2	HEX	0302	TID_XSIS_EXIT	
2	HEX	0303	TID_XSIS_RECOVERY	
2	HEX	0304	TID_XSIS_ INVALID_FORMAT	
2	HEX	0305	TID_XSIS_ INVALID_FUNCTION	
2	HEX	0306	TID_XSIS_ XSSC_FAILURE	
2	HEX	0307	TID_XSIS_ XSSI_FAILURE	
2	HEX	0308	TID_XSIS_ EXTRACT_LOCK_ERROR	
2	HEX	0309	TID_XSIS_ EXTRACT_UNLOCK_ ERROR	
2	HEX	030A	TID_XSIS_ REBUILD_LOCK_ERROR	
2	HEX	030B	TID_XSIS_ REBUILD_UNLOCK_ ERROR	
2	HEX	0401	TID_XSXM_ENTRY	
2	HEX	0402	TID_XSXM_EXIT	
2	HEX	0403	TID_XSXM_RECOVERY	
2	HEX	0404	TID_XSXM_ INVALID_FORMAT	
2	HEX	0405	TID_XSXM_ INVALID_FUNCTION	
2	HEX	0406	TID_XSXM_ GETMAIN_FAILURE	
2	HEX	0501	TID_XSFL_ENTRY	
2	HEX	0502	TID_XSFL_EXIT	
2	HEX	0503	TID_XSFL_RECOVERY	
2	HEX	0504	TID_XSFL_ INVALID_FORMAT	
2	HEX	0505	TID_XSFL_ INVALID_FUNCTION	
2	HEX	0506	TID_XSFL_ INVALID_SECURITY_ TOKEN	

Table 746. (continued)

Len	Type	value	Name	Description
2	HEX	0507	TID_XSFL_ INVALID_FORMAT_ PASSED_TO_XSSA	
2	HEX	0508	TID_XSFL_ INVALID_FUNCTION_ PASSED_TO_XSSA	
2	HEX	0509	TID_XSFL_ INVALID_FLATTENED_ BUFFER	
2	HEX	050A	TID_XSFL_ DISASTROUS_ERROR_ IN_XSSA	
2	HEX	0601	TID_XSPW_ENTRY	
2	HEX	0602	TID_XSPW_EXIT	
2	HEX	0603	TID_XSPW_RECOVERY	
2	HEX	0604	TID_XSPW_ INVALID_FORMAT	
2	HEX	0605	TID_XSPW_ INVALID_FUNCTION	
2	HEX	0606	TID_XSPW_ XSSB_FAILURE	
2	HEX	0607	TID_XSPW_ XSSD_FAILURE	
2	HEX	0608	TID_XSPW_ XSSE_FAILURE	
2	HEX	0701	TID_XSRC_ENTRY	
2	HEX	0702	TID_XSRC_EXIT	
2	HEX	0703	TID_XSRC_RECOVERY	
2	HEX	0704	TID_XSRC_ INVALID_FORMAT	
2	HEX	0705	TID_XSRC_ INVALID_FUNCTION	
2	HEX	0706	TID_XSRC_ LOCK_ERROR	
2	HEX	0707	TID_XSRC_ UNLOCK_ERROR	
2	HEX	0708	TID_XSRC_ DISPATCHER_ERROR	
2	HEX	0709	TID_XSRC_ RESOURCE_CHECK_ ENTRY	
2	HEX	070A	TID_XSRC_ RESOURCE_CHECK_ EXIT	
2	HEX	070B	TID_XSRC_ RESOURCE_CHECK_ ERROR	

Table 746. (continued)

Len	Type	value	Name	Description
2	HEX	070C	TID_XSRC_ INVALID_RESOURCE_ TYPE	
2	HEX	070D	TID_XSRC_ INVALID_ACCESS	
2	HEX	070E	TID_XSRC_ XSSC_FAILURE	
2	HEX	070F	TID_XSRC_ XRF_TRACKING_ERROR	
2	HEX	0801	TID_XSLU_ENTRY	
2	HEX	0802	TID_XSLU_EXIT	
2	HEX	0803	TID_XSLU_RECOVERY	
2	HEX	0804	TID_XSLU_ INVALID_FORMAT	
2	HEX	0805	TID_XSLU_ INVALID_FUNCTION	
2	HEX	0806	TID_XSLU_ ESTAE_FAILURE	
2	HEX	0807	TID_XSLU_ EXTRACT_FAILURE	
2	HEX	0808	TID_XSLU_ XSSB_FAILURE	
2	HEX	0809	TID_XSLU_ EXTRACT_LOCK_ERROR	
2	HEX	080A	TID_XSLU_ EXTRACT_UNLOCK_ ERROR	
2	HEX	0901	TID_XSEJ_ENTRY	
2	HEX	0902	TID_XSEJ_EXIT	
2	HEX	0903	TID_XSEJ_RECOVERY	
2	HEX	0904	TID_XSEJ_ INVALID_FORMAT	
2	HEX	0905	TID_XSEJ_ INVALID_FUNCTION	
2	HEX	0906	TID_XSEJ_ IRRSDL00_ENTRY	
2	HEX	0907	TID_XSEJ_ IRRSDL00_EXIT	
2	HEX	0908	TID_XSEJ_ IRRSDL00_ERROR	
2	HEX	0909	TID_XSEJ_ FASTAUTH_ENTRY	
2	HEX	090A	TID_XSEJ_ FASTAUTH_EXIT	
2	HEX	090B	TID_XSEJ_ SIMPLE_MATCH	

Table 746. (continued)

Len	Type	value	Name	Description
2	HEX	090C	TID_XSEJ_ WILDCARD_MATCH	
2	HEX	090D	TID_XSEJ_ ROLE_BUFFERS	
2	HEX	0911	TID_XSEJ_ AUDIT_FAILURE	
2	HEX	0A01	TID_XSKR_ENTRY	
2	HEX	0A02	TID_XSKR_EXIT	
2	HEX	0A03	TID_XSKR_RECOVERY	
2	HEX	0A04	TID_XSKR_ INVALID_FORMAT	
2	HEX	0A05	TID_XSKR_ INVALID_FUNCTION	
2	HEX	0A06	TID_XSKR_ IRRSPK00_ENTRY	
2	HEX	0A07	TID_XSKR_ IRRSPK00_EXIT	
2	HEX	0A08	TID_XSKR_ IRRSPK00_ERROR	
2	HEX	0A09	TID_XSKR_ IRRSIM00_ENTRY	
2	HEX	0A0A	TID_XSKR_ IRRSIM00_EXIT	
2	HEX	0A0B	TID_XSKR_ IRRSIM00_ERROR	
2	HEX	0B01	TID_XSCT_ENTRY	
2	HEX	0B02	TID_XSCT_EXIT	
2	HEX	0B03	TID_XSCT_RECOVERY	
2	HEX	0B04	TID_XSCT_ INVALID_FORMAT	
2	HEX	0B05	TID_XSCT_ INVALID_FUNCTION	
2	HEX	0B06	TID_XSCT_ IRRSDL00_ENTRY	
2	HEX	0B07	TID_XSCT_ IRRSDL00_EXIT	
2	HEX	0B08	TID_XSCT_ IRRSDL00_ERROR	
2	HEX	0B09	TID_XSCT_ XSSE_FAILURE	
2	HEX	FE01	TID_XSS_ENTRY	
2	HEX	FE02	TID_XSS_EXIT	
2	HEX	FE03	TID_XSS_INSTALLATION_ DATA	
2	HEX	FE04	TID_XSS_EXCEPTION	

Table 746. (continued)

Len	Type	value	Name	Description
2	HEX	FE05	TID_XSS_SVC_ERROR	
---------- Subpool Names ----------				
8	CHARACTER	XSGENRAL	SPNAME_GENERAL	
8	CHARACTER	XSXMPOOL	XSXM_SUBPOOL_NAME	
---------- Anchor block eyecatcher ----------				
14	CHARACTER	>DFHXSANCHOR	XSA_EYE_CATCHER	
---------- Security Lock names ----------				
8	CHARACTER	XSLOCK	XS_DOMAIN_LOCKNAME	
8	CHARACTER	XSRCHECK	XS_RESCHECK_ LOCKNAME	
8	CHARACTER	XSRBUILD	XS_REBUILD_ LOCKNAME	
8	CHARACTER	XSXTRACT	XS_EXTRACT_ LOCKNAME	

XSSS Security supervisor storage

```
!:refstep.xsss_security_anchor_block ------------------- DFHXSS 945 -
!
!
! Security domain supervisor storage.
!
! This is the storage area managed by the Security Domain's SVC
! routine, DFHXSS.
!
!---------------------------------------------------------------------
```

Table 747.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	784	DFHXSSS	Security supervisor storage
(0)	CHARACTER	16	XSSS_EYECATCHER	Standard control block prefix
(0)	HALFWORD	2	XSSS_LENGTH	Length of entire control block
(2)	CHARACTER	1	XSSS_ARROW	Highlighting arrow
(3)	CHARACTER	5	XSSS_COMPONENT	Component identification
(8)	CHARACTER	8	XSSS_BLOCKID	Block identification

Table 747. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	UNSIGNED	1	XSSS_VERSION	Version number of block
(11)	CHARACTER	1	XSSS_FLAG1	Security Domain flag byte 1
	1...		XSSS_SECURITY_ ACTIVE	
				Security active....SEC=YES
	.1..		XSSS_PREFIX_ REQUIRED	
				Prefixing active...SECPRFX=YES
	..1.		XSSS_SURROGATE_ CHECK	
				Surrogate checking.XUSER=YES
	...1		XSSS_PARTNER_ CHECK	
				Partner LU check...XAPPC=YES
	.... 1...		XSSS_INSTLN_ REQUIRED	
				ESM instln data....ESMEXITS=
	.... .1..		XSSS_PSB_CHECK	PSB check.....PSBCHK=YES
	.... ..1.		XSSS_XEJB_CHECK	XEJB check.....XEJB=YES
	1		XSSS_HFSFILE_ CHECK	
				HFS file check.....XHFS=YES
(12)	CHARACTER	1	XSSS_FLAG2	Security Domain flag byte 2
(12)	BIT(8)	1	*	Reserved
(13)	CHARACTER	1	XSSS_FLAG3	Security Domain flag byte 3
	1...		XSSS_RESSEC	Always perform RESSEC
	.1..		XSSS_CMDSEC	Always perform CMDSEC
	..11 1111		*	Reserved
(14)	ADDRESS	4	XSSS_CWA_ADDRESS	CWA address (only if ESMEXITS=INSTLN)
(18)	CHARACTER	8	XSSS_SUBSYS	CICS subsystem identifier

Table 747. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.xsss_security_vector_table ------------------ DFHXSS 1104 - ! ! This section contains pointers to various service routines that ! are required to be in protected storage for integrity reason. ! !----------				
(20)	CHARACTER	16	XSSS_SECURITY_ VECTOR_TABLE	
				Miscellaneous pointers
(20)	ADDRESS	4	XSSS_EARLY_ VERIFY_ROUTINE	
				Early verification stub
(24)	ADDRESS	4	*	Reserved
(28)	ADDRESS	4	*	Reserved
(2C)	ADDRESS	4	*	Reserved
!:erefstep.xsss_security_vector_table ------------------------------				
(30)	STRUCTURE IsA(SECURITY_TOKEN)	8	XSSS_DEFAULT_ SECURITY_TOKEN	
				Token for default user
(30)	ADDRESS	4	P	
(34)	FULLWORD	4	N	
(38)	STRUCTURE IsA(SECURITY_TOKEN)	8	XSSS_JOBSTEP_ SECURITY_TOKEN	
				Token for jobstep user
(38)	ADDRESS	4	P	
(3C)	FULLWORD	4	N	
!:refstep.xsss_appclu_filter ------------------------- DFHXSS 1049 - ! ! APPCLU Filter String ! ! We supply the ESM with a filter so that only those profiles ! relevant to our CICS Region's VTAM netid and local LUname are ! brought into storage. ! ! This filter is build after CICS opens the VTAM ACB, which may ! occur a long time after CICS has initialised. ! ! The filter is built with a 2 byte length prefix to meet the ! requirements of the ESM. ! ! This filter is only built if the SIT specified XAPPC=YES. ! !----------				
(40)	CHARACTER	24	XSSS_APPCLU_ FILTER	Used in RACLIST processing

Table 747. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	HALFWORD	2	XSSS_APPCLU_ FILTER_LENGTH	
				actual length of string
(42)	CHARACTER	22	XSSS_APPCLU_ FILTER_STRING	
				= netid.local_luname.*
!:erefstep.xsss_appclu_filter ----------				
(58)	CHARACTER	8	XSSS_GENERIC_ APPLID	
				Generic applid for region
(60)	ADDRESS	4	XSSS_ROLE_ STORAGE_ MANAGER_PTR	
				Storage Manager object
(64)	HALFWORD	2	XSSS_CLASSNAME_ COUNT	
				Number of entries in the classname table
(66)	CHARACTER	1	*	Reserved
(67)	STRUCTURE IsA(USERID)	11	XSSS_REGION_ USERID	Userid for CICS region
(67)	UNSIGNED	1	LEN	
(68)	CHARACTER	10	VAL	
(72)	CHARACTER	5	*	Reserved
(77)	STRUCTURE IsA(GROUPID)	11	XSSS_REGION_ GROUPID	
				Groupid for CICS region
(77)	UNSIGNED	1	LEN	
(78)	CHARACTER	10	VAL	
(82)	CHARACTER	5	*	Reserved
(87)	STRUCTURE IsA(PREFIX)	11	XSSS_PREFIX	Resource name prefix
(87)	UNSIGNED	1	LEN	
(88)	CHARACTER	10	VAL	
(92)	HALFWORD	2	*	Reserved for alignment

Table 747. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:refstep.xsss_security_token_anchor ------------------ DFHXSS 1093 - ! ! This section contains the anchor blocks for the various management ! routines used to allocate and use security tokens. ! !----------				
(94)	CHARACTER	20	XSSS_SECURITY_ TOKEN_MANAGER	
				Security token manager
(94)	ADDRESS	4	XSSS_DIRECTORY_ PTR	
				Directory manager anchor
(98)	ADDRESS	4	XSSS_STORAGE_ INTERFACE_PTR	
				Storage interface anchor
(9C)	ADDRESS	4	XSSS_STORAGE_ MANAGER_PTR	
				Storage manager anchor
(A0)	ADDRESS	4	XSSS_EXTENSION_ MANAGER_PTR	
				Storage extension anchor
(A4)	UNSIGNED	4	XSSS_TOKEN_HWM	Allocation high-water-mark
!:erefstep.xsss_security_token_anchor ------------------------------				
(A8)	CHARACTER	140	XSSS_CLASSNAME_ TABLE	
				Classnames
(A8)	CHARACTER	10	XSSS_APPC	XAPPC entry
(A8)	CHARACTER	8	CLASS_NAME	
(B0)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(B1)	UNSIGNED	1	CLASS_MEMBER_ LENGTH	
(B2)	CHARACTER	10	XSSS_TRANSACTION	XPCT entry

Table 747. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B2)	CHARACTER	8	CLASS_NAME	
(BA)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(BB)	UNSIGNED	1	CLASS_MEMBER_ LENGTH	
(BC)	CHARACTER	10	XSSS_SPCOMMAND	XCMD entry
(BC)	CHARACTER	8	CLASS_NAME	
(C4)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(C5)	UNSIGNED	1	CLASS_MEMBER_ LENGTH	
(C6)	CHARACTER	10	XSSS_DB2ENTRY	XDB2ENT entry
(C6)	CHARACTER	8	CLASS_NAME	
(CE)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(CF)	UNSIGNED	1	CLASS_MEMBER_ LENGTH	
(D0)	CHARACTER	10	XSSS_TDQUEUE	XDCT entry
(D0)	CHARACTER	8	CLASS_NAME	
(D8)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	

Table 747. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(D9)	UNSIGNED	1	CLASS_MEMBER_ LENGTH	
(DA)	CHARACTER	10	XSSS_FILE	XFCT entry
(DA)	CHARACTER	8	CLASS_NAME	
(E2)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(E3)	UNSIGNED	1	CLASS_MEMBER_ LENGTH	
(E4)	CHARACTER	10	XSSS_JOURNAL	XJCT entry
(E4)	CHARACTER	8	CLASS_NAME	
(EC)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(ED)	UNSIGNED	1	CLASS_MEMBER_ LENGTH	
(EE)	CHARACTER	10	XSSS_PROGRAM	XPPT entry
(EE)	CHARACTER	8	CLASS_NAME	
(F6)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	

Table 747. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(F7)	UNSIGNED	1	CLASS_MEMBER_LENGTH	
(F8)	CHARACTER	10	XSSS_PSB	XPSB entry
(F8)	CHARACTER	8	CLASS_NAME	
(100)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(101)	UNSIGNED	1	CLASS_MEMBER_LENGTH	
(102)	CHARACTER	10	XSSS_TSQUEUE	XTST entry
(102)	CHARACTER	8	CLASS_NAME	
(10A)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(10B)	UNSIGNED	1	CLASS_MEMBER_LENGTH	
(10C)	CHARACTER	10	XSSS_TRANSATTACH	XCTRAN entry
(10C)	CHARACTER	8	CLASS_NAME	
(114)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	

Table 747. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(115)	UNSIGNED	1	CLASS_MEMBER_LENGTH	
(116)	CHARACTER	10	XSSS_SURROGATE	XUSER entry
(116)	CHARACTER	8	CLASS_NAME	
(11E)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(11F)	UNSIGNED	1	CLASS_MEMBER_LENGTH	
(120)	CHARACTER	10	XSSS_EJBROLE	XEJB entry
(120)	CHARACTER	8	CLASS_NAME	
(128)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(129)	UNSIGNED	1	CLASS_MEMBER_LENGTH	
(12A)	CHARACTER	10	XSSS_GENERIC	XRES entry
(12A)	CHARACTER	8	CLASS_NAME	
(132)	CHARACTER	1	CLASS_FLAGS	
	1...		CLASS_RESSEC	
	.1..		CLASS_CMDSEC	
	..11		*	
	.... 1...		CLASS_GENERIC	
	.... .1..		CLASS_DUPLICATE	
	.... ..1.		CLASS_REBUILD	
	1		CLASS_ACTIVE	
(133)	UNSIGNED	1	CLASS_MEMBER_LENGTH	
(134)	CHARACTER	0	XSSS_CLASSNAME_TABLE_END	

Table 747. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				End of table
(134)	CHARACTER	6	*	Reserved (alignment)
(140)	CHARACTER	8	XSSS_MAP_ LOCATORS	
(140)	ADDRESS	4	XSSS_CODED_ ROLE_MAP_PTR	
				Map coded-role to xrole
(144)	ADDRESS	4	XSSS_METHOD_ ROLE_MAP_PTR	
				Map method to role-list
(148)	BIT(64)	8	XSSS_STRING_ LENGTHS	
				Lengths
(148)	UNSIGNED	1	XSSS_EJBROLE_ PREFIX_LENGTH	
				Length of EJBROLEPRFX
(149)	UNSIGNED	1	XSSS_KEYRING_ LENGTH	
				Length of keyring name
(14A)	UNSIGNED	1	XSSS_KERBEROS_ REALM_LENGTH	
				Length of realm name
(14B)	UNSIGNED	1	XSSS_KERBEROS_ PRINCIPAL_LEN	
				Length of principal
(150)	CHARACTER	16	XSSS_EJBROLE_ PREFIX_VALUE	
				EJBROLE Prefix
(160)	CHARACTER	64	XSSS_KEYRING_ NAME	Keyring name
(1A0)	CHARACTER	128	XSSS_KERBEROS_ REALM_NAME	
				Realm name
(220)	CHARACTER	240	XSSS_KERBEROS_ PRINCIPAL	
				Principal name
(310)	CHARACTER	0	*	Reserved for alignment

```
!:refstep.xsss_classentry ---------------------------- DFHXSS 1073 -
!
! Resource class table entry
!
! The following is an entry in the resource class table.
!
!--------------------------------------------------------------------
```

Table 748.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	10	CLASSENTRY	Entry in resource class table
(0)	CHARACTER	8	CLASS_NAME	ESM classname for this entry
(8)	CHARACTER	1	CLASS_FLAGS	Flags
	1...		CLASS_RESSEC	This class subject to RESSEC
	.1..		CLASS_CMDSEC	This class subject to CMDSEC
	..11		*	Reserved
	.... 1...		CLASS_GENERIC	Generic resource class
	.... .1..		CLASS_DUPLICATE	Classname is a duplicate
	.... ..1.		CLASS_REBUILD	This class being rebuilt
	1		CLASS_ACTIVE	This class is RACLISTed
(9)	UNSIGNED	1	CLASS_MEMBER_LENGTH	
				Maximum member length

```
!:erefstep.xsss_classentry ----------------------------------------
!:refstep.xsss_security_entry ------------------------ DFHXSS 1135 -
!
! Security Directory entry
!
! The following is an entry in the Security Domain's directory. It
! is located from a Security_Token by using BPQHSH2 Building Block
! that is anchored in "xsss_directory_ptr." Note that, to save
! storage, "xsdi_applid" is only present if its existence bit
! ("xsdi_applid_x") is set.
!
!--------------------------------------------------------------------
```

Table 749.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	XSDI_SECURITY_ENTRY	Security Entry
(0)	HALFWORD	2	XSDI_LENGTH	Length of entry
(2)	BIT(8)	1	XSDI_FLAGS	Flag byte
	1...		*	Reserved

Table 749. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		XSDI_APPLID_X	Applid is present
	..11 1111		*	Reserved
(3)	STRUCTURE IsA(USERID)	11	XSDI_USERID	Owning userid
(3)	UNSIGNED	1	LEN	
(4)	CHARACTER	10	VAL	
(E)	BIT(8)	1	*	Reserved for alignment
(F)	STRUCTURE IsA(ENTRY_PORT)	9	XSDI_ENTRY_PORT	Associated Port-of-Entry
(F)	UNSIGNED	1	TYPE	
(10)	CHARACTER	8	NAME	
(18)	ADDRESS	4	XSDI_ACEE_PTR	Address of ACEE
(1C)	UNSIGNED	4	*	Reserved
(20)	CHARACTER	8	XSDI_APPLID	(Optional) applid

Constants

Table 750.

Len	Type	value	Name	Description
---------- The following constants define the release-dependent version numbers of this control block. xsss_version_num is the most current. ----------				
1	DECIMAL	1	XSSS_V321	Version 3.2.1
1	DECIMAL	2	XSSS_V410	Version 4.1.0
1	DECIMAL	3	XSSS_V610	Version 6.1.0
1	DECIMAL	4	XSSS_V620	Version 6.2.0
1	DECIMAL	5	XSSS_V650	Version 6.5.0
1	DECIMAL	5	XSSS_VERSION_NUM	Current vers'n
---------- The following constant defines the length of the flattened security data block. This length must be the same as that defined in DFHXSSA. If it is not, DFHXSSA will not compile. ----------				
1	DECIMAL	48	XSSS_FLATTENED_ SECURITY_LENGTH	

XSXD Security Domain transaction data

```
!:refstep.XSXM_transaction_data ---------------------- DFHXSXM 998 -
!
!
! There is one such structure for every transaction.
!
! The structure contains the three types of facility token expressed
! first as a three-element array, and then as individually named
! tokens. All the unique instances of these tokens are kept in
! another three element array.
!
!--------------------------------------------------------------------
```

Table 751.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	XSXD_TRANSACTION_DATA	
(0)	CHARACTER	24	*	
(0)	CHARACTER	8	XSXD_FACILITY_TOKEN (3)	
(0)	ADDRESS	4	P	
(4)	FULLWORD	4	N	
(0)	CHARACTER	24	*	
(0)	CHARACTER	8	XSXD_PRINCIPAL_TOKEN	
(0)	ADDRESS	4	P	
(4)	FULLWORD	4	N	
(8)	CHARACTER	8	XSXD_SESSION_TOKEN	
(8)	ADDRESS	4	P	
(C)	FULLWORD	4	N	
(10)	CHARACTER	8	XSXD_EDF_TOKEN	
(10)	ADDRESS	4	P	
(14)	FULLWORD	4	N	
(18)	CHARACTER	24	XSXD_UNIQUE_TOKEN_LIST	
(18)	CHARACTER	8	XSXD_UNIQUE_TOKEN (3)	
(18)	ADDRESS	4	P	
(1C)	FULLWORD	4	N	

```
!:refstep.xsxm_transaction_communication_area -------- DFHXSXM 1026 -
!
! We also include a double-word communication area, which is
! intended for communication between the early-verification phase of
! the signon function and the normal verification phase, entered
! during ADD_USER security processing. This double-word is only used
! by non-RACF external security managers, and is never used by CICS.
!
!--------------------------------------------------------------------
```

Table 751. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	BIT(64)	8	XSXD_COMMUNICATION_AREA	

XSXT Security Domain transaction token

```
!:refstep.XS_transaction_token ---------------------- DFHXSXM 1036 -
!
!
! This structure defines the format of the Security Domain
! transaction token that is preserved by the Transaction Manager.
! There is one such token for each transaction.
!
! The transaction token consists of two fullwords. The first
! fullword is the address of the transaction data. The second
! fullword contains a 16-bit stack of transaction options, that is,
! eight pairs of RESSEC and CMDSEC options. The topmost pair
! represent the current RESSEC and CMDSEC. The low-order 16 bits are
! reserved for a count of the stack depth, but it is not currently
! used.
!
!--------------------------------------------------------------------
```

Table 752.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	XSXT_TRAN_TOKEN	XS Transaction token
(0)	ADDRESS	4	XSXT_TRAN_DATA_PTR	Ptr to transaction data
(4)	BIT(16)	2	XSXT_STACK	Stack of RESSEC/CMDSEC
(4)	BIT(8)	1	XSXT_STACK_1	First byte of stack
	1...		XSXT_RESSEC	Current RESSEC value
	.1..		XSXT_CMDSEC	Current CMDSEC value
(5)	BIT(8)	1	XSXT_STACK_2	Second byte of stack
(6)	HALFWORD	2	XSXT_COUNT	Not used

RWCOD EYU9WRAM COMMAREA DSECT LITERALS

```
CONTROL BLOCK NAME = EYURWCOD
                 C CONTROL BLOCK = EYUCWCOD
                 PLI CONTROL BLOCK = EYUPWCOD
                 COBOL CONTROL BLOCK = EYULWCOD
DESCRIPTIVE NAME  = CICS EYU9WRAM Literals

Restricted Materials of IBM

FUNCTION =
       Define Literals for the EYURWCOM Copy Book.
       This copybook may be included in a user written
```

```
       Routing Action Module in order to facilitate
       communication between the Action module and the CPSM
       Services. It defines the values associated with the
       various fields in the EYURWCOM Copy Book.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
DEFINE THE VALUES FOR THE WCOM_CTYPE FUNCTION INDICATOR:
  0 = ROUTE SELECT
  1 = ROUTE ERROR
  2 = ROUTE TERMINATION
  3 = TRANSACTION ABEND
  4 = ROUTE NOTIFICATION
  5 = ROUTE INITIATE
  6 = ROUTE COMPLETE
```

Constants

Table 753.

Len	Type	value	Name	Description
1	CHARACTER	0	WCOM_CTYPE_SEL	
1	CHARACTER	1	WCOM_CTYPE_ERR	
1	CHARACTER	2	WCOM_CTYPE_TRM	
1	CHARACTER	3	WCOM_CTYPE_ABD	
1	CHARACTER	4	WCOM_CTYPE_NOT	
1	CHARACTER	5	WCOM_CTYPE_INIT	
1	CHARACTER	6	WCOM_CTYPE_COMP	
DEFINE THE VALUES FOR THE WCOM_ERR_ROUTE INDICATOR WHEN THE WCOM_CTYPE INDICATOR IS SET TO THE VALUE '1': 0 = SYSID NOT FOUND 1 = SYSID OUT OF SERVICE 2 = NO SESSIONS IMMEDIATELY AVAILABLE 3 = ALLOCATION TIMEOUT 4 = QUEUE PURGED ON ALLOCATE 5 = FUNCTION NOT SUPPORTED 6 = DPL - LENGERR 7 = DPL - PGMIDERR 8 = DPL - INVREQ 9 = DPL - NOTAUTH A = DPL - TERMERR B = DPL - ROLLBACK F = BOTH DPL & NTIS - RESUNAVAIL G = DPL - SYSIDERR				
1	CHARACTER	0	WCOM_ERR_NFND	
1	CHARACTER	1	WCOM_ERR_OUT	
1	CHARACTER	2	WCOM_ERR_NSESS	
1	CHARACTER	3	WCOM_ERR_TIMED	
1	CHARACTER	4	WCOM_ERR_PURGED	
1	CHARACTER	5	WCOM_ERR_NOTSUP	
1	CHARACTER	6	WCOM_ERR_LENGERR	
1	CHARACTER	7	WCOM_ERR_PGMIDERR	
1	CHARACTER	8	WCOM_ERR_INVREQ	

Table 753. (continued)

Len	Type	value	Name	Description
1	CHARACTER	9	WCOM_ERR_NOTAUTH	
1	CHARACTER	A	WCOM_ERR_TERMERR	
1	CHARACTER	B	WCOM_ERR_ROLLBACK	
1	CHARACTER	F	WCOM_ERR_RESUNAVAIL	
1	CHARACTER	G	WCOM_ERR_SYSIDERR	
DEFINE THE VALUES FOR THE WCOM_DYRTYPE INDICATOR: 0 = DYNAMIC TRANSACTION ROUTING REQUEST 1 = NOTIFY REQUEST 2 = DYNAMIC ROUTING START REQUEST 3 = DYNAMIC ROUTING START WITH DATA REQUEST 4 = DYNAMIC ROUTING OF DPL REQUEST 5 = DYNAMIC ROUTING OF CBTS REQUEST 6 = NON TERMINAL START REQUEST 7 = DYNAMIC ROUTING OF IIOP REQUEST 8 = DYNAMIC ROUTING OF LINK3270 BRIDGE REQUEST 9 = DYNAMIC ROUTING OF DPL REQUEST WITH CHANNEL A = DYNAMIC ROUTING START REQUEST WITH CHANNEL B = NON TERMINAL START REQUEST WITH CHANNEL				
1	CHARACTER	0	WCOM_DYRTYPE_DTR	
1	CHARACTER	1	WCOM_DYRTYPE_NOTFY	
1	CHARACTER	2	WCOM_DYRTYPE_START	
1	CHARACTER	3	WCOM_DYRTYPE_STARD	
1	CHARACTER	4	WCOM_DYRTYPE_DPL	
1	CHARACTER	5	WCOM_DYRTYPE_CBTS	
1	CHARACTER	6	WCOM_DYRTYPE_NTIS	
1	CHARACTER	7	WCOM_DYRTYPE_IIOP	
1	CHARACTER	8	WCOM_DYRTYPE_LK3270	
1	CHARACTER	9	WCOM_DYRTYPE_DPLCHA	Dynamic DPL with channel
1	CHARACTER	A	WCOM_DYRTYPE_TRMCHA	Dynamic START with channel
1	CHARACTER	B	WCOM_DYRTYPE_NTISCHA	Non-terminal START with channel
DEFINE THE VALUES FOR THE WCOM_CALLER INDICATOR: 0 = RELAY PROGRAM 1 = EXTERNAL SERVICE PROGRAM 2 = SCHEDULER SERVICES 3 = IIOP SERVICES				
1	CHARACTER	0	WCOM_CALL_RELAY	
1	CHARACTER	1	WCOM_CALL_SRVPGM	
1	CHARACTER	2	WCOM_CALL_SCHEDSERV	
1	CHARACTER	3	WCOM_CALL_IIOPSERV	

Table 753. (continued)

Len	Type	value	Name	Description
DEFINE THE VALUES FOR THE WCOM_STATUS CPSM STATUS INDICATOR: 0 = CPSM ACTIVE 1 = SM_SCOPE/SM_BALANCE NOT AVAILABLE				
1	CHARACTER	0	WCOM_STAT_ACT	
1	CHARACTER	1	WCOM_STAT_NACT	
DEFINE THE VALUES FOR THE WCOM_AFF_STAT AFFINITY STATUS INDICATOR: U = AFFINITY IS NOT DEFINED C = AN AOR SYSID IS COMMITTED D = AFFINITY IS DEFINED A = AFFINITY IS ACTIVE BLANK = AFFINITY STATUS IS UNKNOWN				
1	CHARACTER	U	WCOM_AFF_UNDEF	
1	CHARACTER	U	WCOM_AFF_UND	
1	CHARACTER	C	WCOM_AFF_COMMIT	
1	CHARACTER	D	WCOM_AFF_DEFINE	
1	CHARACTER	A	WCOM_AFF_ACTIVE	
1	CHARACTER		WCOM_AFF_UNKN	
DEFINE THE VALUES FOR THE WCOM_AFFAOR_STAT INDICATOR: BLANK = UNDEFINED VALUE 0 = THE AOR IS OK 1 = THE AOR IS DOWN 2 = THE AOR IS ACTIVE BUT HAS TERMINATE AND RESTARTED SINCE THE AFFINITY WAS INITIALLY CREATED 3 = THE AOR IS ACTIVE BUT THE LINK TO IT IS NOT AVAILABLE				
1	CHARACTER		WCOM_AFFAOR_NDEF	
1	CHARACTER	0	WCOM_AFFAOR_OK	
1	CHARACTER	1	WCOM_AFFAOR_DOWN	
1	CHARACTER	2	WCOM_AFFAOR_DIFF	
1	CHARACTER	3	WCOM_AFFAOR_NLNK	
DEFINE THE VALUES FOR THE WCOM_AFF_TYPE INDICATOR: 0 = AFFINITY UNDEFINED 1 = GLOBAL AFFINITY 2 = USERID AFFINITY 3 = LUNAME AFFINITY 4 = BAPPL AFFINITY				
1	CHARACTER	0	WCOM_AFF_NONE	
1	CHARACTER	1	WCOM_AFF_GLOBAL	
1	CHARACTER	2	WCOM_AFF_USERID	
1	CHARACTER	3	WCOM_AFF_LUNAME	
1	CHARACTER	4	WCOM_AFF_BAPPL	

Table 753. (continued)

Len	Type	value	Name	Description
DEFINE THE VALUES FOR THE WCOM_AFF_LIFE INDICATOR: 0 = NOT APPLICABLE 1 = PSEUDO CONVERSATION 2 = SIGNON 3 = LOGON 4 = SYSTEM 5 = PERMANENT 6 = DELIMIT 7 = ACTIVITY 8 = PROCESS				
1	CHARACTER	0	WCOM_AFF_NA	
1	CHARACTER	1	WCOM_AFF_PCONV	
1	CHARACTER	2	WCOM_AFF_SIGNON	
1	CHARACTER	3	WCOM_AFF_LOGON	
1	CHARACTER	4	WCOM_AFF_SYSTEM	
1	CHARACTER	5	WCOM_AFF_PERM	
1	CHARACTER	6	WCOM_AFF_DELIMIT	
1	CHARACTER	7	WCOM_AFF_ACTIVITY	
1	CHARACTER	8	WCOM_AFF_PROCESS	
DEFINE THE VALUES FOR THE WCOM_AFF_AUTO INDICATOR: 0 = WLM WILL NOT AUTOMATICALLY CREATE AFFINITY AT SM_BALANCE 1 = WLM WILL AUTOMATICALLY CREATE AFFINITY AT SM_BALANCE 2 = NOT APPLICABLE				
1	CHARACTER	0	WCOM_AFF_AUTON	
1	CHARACTER	1	WCOM_AFF_AUTOY	
1	CHARACTER	2	WCOM_AFF_AUTONA	
DEFINE THE VALUES FOR THE WCOM_DTRTRAN_IND INDICATOR: 0 = TRANSACTION IS NOT A DTRTRAN 1 = TRANSACTION IS A DTRTRAN				
1	CHARACTER	0	WCOM_DTRTRAN_NO	
1	CHARACTER	1	WCOM_DTRTRAN_YES	
DEFINE THE VALUES FOR THE WCOM_DTRREJ_IND INDICATOR: 0 = DO NOT REJECT THE TRANSACTION 1 = REJECT THE TRANSACTION				
1	CHARACTER	0	WCOM_DTRREJ_NO	
1	CHARACTER	1	WCOM_DTRREJ_YES	
DEFINE THE VALUES FOR THE WCOM_RET_RESPONSE RESPONSE TO CPSM INDICATOR: 0 = OK 1 = MSG ISSUED 2 = ABORT TRAN				
4	DECIMAL	0	WCOM_RET_NORM	
4	DECIMAL	1	WCOM_RET_MSG	
4	DECIMAL	2	WCOM_RET_ABORT	

Table 753. (continued)

Len	Type	value	Name	Description
DEFINE THE VALUES FOR THE WCOM_TERM_TYPE TERMINAL TYPE INDICATOR: 0 = LU2 TERMINAL 1 = LU6 TERMINAL 2 = UNKNOWN TERMINAL 3 = NO TERMINAL				
1	CHARACTER	0	WCOM_TERM_LU2	
1	CHARACTER	1	WCOM_TERM_LU6	
1	CHARACTER	2	WCOM_TERM_LUUNK	
1	CHARACTER	3	WCOM_TERM_LUNONE	
DEFINE THE WCOM API FUNCTION CODES: 1 = SM_ROUTE 2 = SM_SCOPE 3 = SM_BALANCE 4 = SM_CREAFF 5 = SM_DELAFF				
4	DECIMAL	1	WCOM_SM_LOWFUNC	
4	DECIMAL	1	WCOM_SM_ROUTE	
4	DECIMAL	2	WCOM_SM_SCOPE	
4	DECIMAL	3	WCOM_SM_BALANCE	
4	DECIMAL	4	WCOM_SM_CREAFF	
4	DECIMAL	5	WCOM_SM_DELAFF	
4	DECIMAL	5	WCOM_SM_MAXFUNC	
DEFINE THE VALUES FOR THE WCOM_API_RESP CPSM TO EYU9WRAM RESPONSE VALUES: 0 = NORMAL RESPONSE 1 = INVALID REQUEST - CHECK WCOM_API_REASON 2 = PARAMETER ERROR - AN EXPLICIT OR IMPLIED PARAMETER IS IN ERROR. CHECK WCOM_API_REASON 3 = SM_ROUTE WARNING - CHECK WCOM_API_REASON 4 = SM_ROUTE ERROR - RESERVED 5 = SM_SCOPE WARNING - CHECK WCOM_API_REASON 6 = SM_SCOPE ERROR - RESERVED 7 = SM_BALANCE WARNING - CHECK WCOM_API_REASON 8 = SM_BALANCE ERROR - RESERVED 9 = DISASTER - A CLEANUP AND RETURN SHOULD BE EXECUTED. NO FURTHER PROCESSING IS ALLOWED. 10 = SM_CREAFF WARNING - CHECK WCOM_API_REASON 11 = SM_CREAFF ERROR - RESERVED 12 = SM_DELAFF WARNING - RESERVED 13 = SM_DELAFF ERROR - RESERVED				
4	DECIMAL	0	WCOM_RESP_OK	
4	DECIMAL	1	WCOM_RESP_INVREQ	
4	DECIMAL	2	WCOM_RESP_PRMERR	
4	DECIMAL	3	WCOM_RESP_RTEWRN	
4	DECIMAL	4	WCOM_RESP_RTEERR	
4	DECIMAL	5	WCOM_RESP_SCPWRN	
4	DECIMAL	6	WCOM_RESP_SCPERR	
4	DECIMAL	7	WCOM_RESP_BALWRN	

Table 753. (continued)

Len	Type	value	Name	Description
4	DECIMAL	8	WCOM_RESP_BALERR	
4	DECIMAL	9	WCOM_RESP_DISAST	
4	DECIMAL	10	WCOM_RESP_CREWRN	
4	DECIMAL	11	WCOM_RESP_CREERR	
4	DECIMAL	12	WCOM_RESP_DELWRN	
4	DECIMAL	13	WCOM_RESP_DELERR	
DEFINE THE VALUES FOR THE WCOM_API_REASON CPSM TO EYU9WRAM REASON VALUES: DEFINE THE REASONS FOR A RESPONSE OF WCOM_RESP_INVREQ: 1 = THERE IS NO SUCH FUNCTION. 2 = THE FUNCTION CANNOT BE USED DURING ROUTE ABEND PROCESSING. 3 = THE FUNCTION CANNOT BE USED DURING ROUTE TERMINATION PROCESSING. 4 = THE FUNCTION IS VALID BUT DISABLED. 5 = A PREVIOUS API FUNCTION RESULTED IN THE WCOM_RESP_DISAST RESPONSE. ALL API FUNCTIONS ARE DISABLED. 6 = SM_CREAFF CALLED BUT AN AFFINITY ALREADY EXISTS. 7 = SM_CREAFF CALLED BUT AFFINITY IS NOT DEFINED. 8 = SM_CREAFF AOR NOT FOUND IN SCOPE LIST. 9 = SM_DELAFF AFFINITY IS NOT ACTIVE. 10 = SM_DELAFF. CAN'T DELETE SYSTEM LIFETIMES. 11 = SM_DELAFF. CAN'T DELETE PERMANENT LIFETIMES. 12 = THE FUNCTION CANNOT BE USED DURING ROUTE COMPLETE PROCESSING.				
4	DECIMAL	1	WCOM_REAS_NOFUNC	
4	DECIMAL	2	WCOM_REAS_RTABND	
4	DECIMAL	3	WCOM_REAS_RTTERM	
4	DECIMAL	4	WCOM_REAS_NOAVAL	
4	DECIMAL	5	WCOM_REAS_DISAST	
4	DECIMAL	6	WCOM_REAS_AFFACT	
4	DECIMAL	7	WCOM_REAS_AFFDEF	
4	DECIMAL	8	WCOM_REAS_AORNFN	
4	DECIMAL	9	WCOM_REAS_AFFNAC	
4	DECIMAL	10	WCOM_REAS_AFFSYS	
4	DECIMAL	11	WCOM_REAS_AFFPRM	
4	DECIMAL	12	WCOM_REAS_RTCOMP	
DEFINE THE REASONS FOR A RESPONSE OF WCOM_RESP_PRMERR: 1 = A SCOP_VECT IS REQURES TO EXECUTE THE FUNCTION BUT A SCOP_VECT DOES NOT EXIST. 2 = THE FUNCTION WILL CREATE A SCOP_VECT BUT A SCOP_VECT ALREADY EXISTS. 3 = THE SM_ROUTE FUNCTION IS ATTEMPTING TO SPECIFY A DESTINATION OTHER THAN THE DEFAULT, BUT THE TRANSACTION IS EITHER ATI OR DEFINED AS A STATIC ROUTE. 4 = THE SM_ROUTE FUNCTION REQUIRES A VALID AOR APPLID BUT ONE WAS NOT FOUND IN WCOM_SEL_AOR.				
4	DECIMAL	1	WCOM_REAS_NOSCOP	
4	DECIMAL	2	WCOM_REAS_ISSCOP	

Table 753. (continued)

Len	Type	value	Name	Description
4	DECIMAL	3	WCOM_REAS_RTNTFY	
4	DECIMAL	4	WCOM_REAS_BADAOR	
DEFINE THE REASONS FOR A RESPONSE OF WCOM_RESP_SCPWRN: 1 = SM_SCOPE DETERMINED THAT AN AFFINITY RELATION SHOULD BE CREATED IS THE SM_BALANCE FUNCTION IS CALLED. HOWEVER, THE RELATION CAN NOT BE ADDED BECAUSE CPSM SERVICES ARE NOT AVAUILABLE. A SUBSEQUENT SM_BALANCE CALL WILL RESULT IN A RESPONSE OF WCOM_RESP_BALWRN 2 = SM_SCOPE DETERMINED THAT AN AFFINITY RELATION SHOULD BE CREATED IS THE SM_BALANCE FUNCTION IS CALLED. THE RELATION CAN NOT BE ADDED BECAUSE THE TYPE IS PSUEDO CONVERSAION, WHICH IS NOT SUPPORTED FOR THE LUTYPE IN USE. THE SCOPE VECTOR IS EMPTY.				
4	DECIMAL	1	WCOM_REAS_AFFADD	
4	DECIMAL	2	WCOM_REAS_PCONLU	
DEFINE THE REASONS FOR A RESPONSE OF WCOM_RESP_BALWRN: 1 = A SM_BALANCE WAS CALLED WITH A VALID SCOPE VECTOR BUT THERE ARE NO ELEMENTS IN IT. NO APPLID HAS BEEN SET. 2 = A SM_BALANCE WAS CALLED WITH A VALID SCOPE VECTOR BUT EITHER ALL ELEMENTS WERE MARKED IGNORE OR THE BALANCE FUNCTION DETECTED INACTIVE LINKS OR AORS ON ALL NON-IGNORED CANDIDATE AORS. NO APPLID HAS BEEN BEEN SET. 3 = SM_BALANCE SELECTED AN AFFINITY AOR WHICH HAS BEEN MARKED IGNORE. THE AOR WAS SELECTED AND THE ENTRY IS UNMARKED. 4 = SM_BALANCE SELECTED AN AFFINITY AOR. THE AOR IS NOT ACTIVE. THE AOR IS SELECTED BECAUSE OF AFFINITY REQUIREMENTS 5 = SM_BALANCE SELECTED AN AFFINITY AOR. THE COMMUNICATION LINK TO THE AOR IS NOT ACTIVE. THE AOR IS SELECTED BECAUSE OF AFFINITY REQUIREMENTS. 6 = SM_BALANCE WAS CALLED AND ATTEMPTED TO CREATE AN AFFINITY RELATION. HOWEVER THE RELATION CAN NOT BE ADDED BECAUSE CPSM SERVICES ARE NOT AVAILABLE. THE APPLID OF THE BEST AOR HAS BEEN SET BUT NO AFFINITY HAS BEEN ADDED. 7 = SM_BALANCE SELECTED AN AFFINITY AOR. THE AOR IS ACTIVE AND THE LINK IS AVAILABLE. HOWEVER, NO SESSIONS ARE AVAILABLE AFTER HAVING QUEUED A PREVIOUS ROUTE REQUEST FOR THE SAME AOR. THE AOR IS SELECTED BECAUSE OF AFFINITY REQUIREMENTS.				
4	DECIMAL	1	WCOM_REAS_NOELE	
4	DECIMAL	2	WCOM_REAS_IGNORE	
4	DECIMAL	3	WCOM_REAS_AFFIGN	
4	DECIMAL	4	WCOM_REAS_AORNAC	
4	DECIMAL	5	WCOM_REAS_LNKNAC	
4	DECIMAL	6	WCOM_REAS_NOADD	
4	DECIMAL	7	WCOM_REAS_AFFSES	
DEFINE THE REASONS FOR A RESPONSE OF WCOM_RESP_RTEWRN: 1 = SM_ROUTE WAS CALLED WITH AN APPLID, BUT THERE IS NO LINK TO THE AOR. NO APPLID HAS BEEN SET.				
4	DECIMAL	1	WCOM_REAS_NOLINK	

Table 753. (continued)

Len	Type	value	Name	Description
DEFINE THE REASONS FOR A RESPONSE OF WCOM_RESP_CREWRN: 1 = SM_CREAFF ATTEMPTED TO CREATE AN AFFINITY BUT FOUND THAT ONE HAD JUST BEEN CREATED BY ANOTHER DTR TRANSACTION. WCOM_SEL_AOR / WCOM_SEL_SYSID HAD BEEN UPDATED. 2 = SM_CREAFF AOR IS QUIESCING OR QUIESCED. AFFINITY NOT CREATED. 3 = SM_CREAFF AOR IS FOUND BUT IS MARKED IGNORE. AFFINITY NOT CREATED. 4 = SM_CREAFF TRANSACTION GROUP IS DORMANT. AFFINITY NOT CREATED. 5 = SM_CREAFF AOR IS NOT ACTIVE. AFFINITY NOT CREATED. 6 = SM_CREAFF CAN'T ADD SYSTEM OR PERMANENT AFFINITY BECAUSE THE WORKLOAD IS NOT CONSIDERED ACTIVE.				
4	DECIMAL	1	WCOM_REAS_AFFFND	
4	DECIMAL	2	WCOM_REAS_AORQUI	
4	DECIMAL	3	WCOM_REAS_AORIGN	
4	DECIMAL	4	WCOM_REAS_TGRDOR	
4	DECIMAL	5	WCOM_REAS_AORDWN	
4	DECIMAL	6	WCOM_REAS_SYSPRM	
DEFINE THE VALUES FOR THE WCOM_PROCESS_COMP INDICATOR: 0 = PROCESS COMPLETING, YES 1 = PROCESS COMPLETING, NO				
1	CHARACTER	0	WCOM_PROCESS_ COMP_N	
1	CHARACTER	1	WCOM_PROCESS_ COMP_Y	
DEFINE THE VALUES FOR THE WCOM_ACTIVITY_COMP INDICATOR: 0 = ACTIVITY COMPLETING, YES 1 = ACTIVITY COMPLETING, NO				
1	CHARACTER	0	WCOM_ACTIVITY_ COMP_N	
1	CHARACTER	1	WCOM_ACTIVITY_ COMP_Y	
DEFINE THE LENGTH OF EYURWCOM COMMUNICATIONS AREA:				
2	DECIMAL	407	WCOM_WCOM_LENGTH	
2	DECIMAL	407	WCOM_LENGTH	
DEFINE THE LENGTH OF EYURWCOM PREFIX:				
2	DECIMAL	20	WCOM_PFX_LEN	

RWCOM EYU9WRAM COMMAREA DSECT

```
CONTROL BLOCK NAME = EYURWCOM
                     C CONTROL BLOCK = EYUCWCOM
                     PLI CONTROL BLOCK = EYUPWCOM
                     COBOL CONTROL BLOCK = EYULWCOM
DESCRIPTIVE NAME  = CICS EYU9WRAM Commarea Copybook

Restricted Materials of IBM

FUNCTION =
```

```
        COMMAREA Passed to a Workload Manager Routing
        Action Module (WRAM).
        This copybook may be included in a user written
        Routing Action Module in order to facilitate
        communication between the Action module and the CPSM
        Services.
        Copybook EYURWCOD may be used to define the values for
        the INDICATORs, RESPONSES and REASONS defined in this
        copybook.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------
```

Table 754.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	407	EYURWCOM	
Control Block Prefix				
(0)	CHARACTER	20	WCOM_PREFIX	
(0)	HALFWORD	2	WCOM_SLENGTH	Structure Length
(2)	CHARACTER	1	WCOM_ARROW	">" delimiter
(3)	CHARACTER	8	WCOM_NAME	"EYURWCOM"
(B)	CHARACTER	1	WCOM_BLANK	" "
(C)	CHARACTER	8	WCOM_PGMNAME	"EYU9WRAM"
Call Type Indicator: 0 = ROUTE SELECTION 1 = ERROR IN ROUTE SELECTION 2 = ROUTED TRANSACTION TERMINATED 3 = ROUTED TRANSACTION ABENDED 4 = ROUTE NOTIFY				
(14)	CHARACTER	1	WCOM_CTYPE	
Route Selection Error Code: 0 = SYSID NOT FOUND 1 = SYSID OUT OF SERVICE 2 = NO SESSIONS IMMEDIATELY AVAILABLE 3 = TIMEOUT ON ALLOCATE 4 = QUEUE PURGED ON ALLOCATE 5 = Function not supported 6 = DPL - LENGERR 7 = DPL - PGMIDERR 8 = DPL - INVREQ 9 = DPL - NOTAUTH A = DPL - TERMERR B = DPL - ROLLBACK C = NTIS - Transiderr D = NTIS - ioerr E = NTIS - useriderr F = DPL & NTIS - resunavail G = Non-DPL SYSIDERR for TCP/IP connections				
(15)	CHARACTER	1	WCOM_ERR_ROUTE	
Initial Call Type Indicator				
(16)	CHARACTER	1	WCOM_INIT_CTYPE	

Table 754. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Workload Manager Caller Indicator: 0 = CICS/ESA Relay Program 1 = External Service Program 2 = Scheduler Services 3 = IIOP Routing services				
(17)	CHARACTER	1	WCOM_CALLER	
Default Remote SYSID				
(18)	CHARACTER	4	WCOM_REM_SYSID	
Default Remote TRANSID				
(1C)	CHARACTER	8	WCOM_REM_TRANID	
Default Remote APPLID				
(24)	CHARACTER	8	WCOM_REM_APPLID	
Invocation Count				
(2C)	FULLWORD	4	WCOM_CALL_COUNT	
Input Buffer Pointer				
(30)	ADDRESS	4	WCOM_INP_BUFF	
Input Buffer Length				
(34)	FULLWORD	4	WCOM_INP_BUFFL	
Task Priority				
(38)	CHARACTER	2	WCOM_TASK_PRIO	
Task Service Class Token				
(3A)	CHARACTER	4	WCOM_SCLASS	
Request Type: 0 = Dynamic routing request 1 = Notify request 2 = Dynamic transaction START request 3 = Dynamic transaction START with data request with data request 4 = Dynamic routing of DPL 5 = Dynamic routing of CBTS request 6 = Non terminal START request 7 = IIOP routing request 8 = Link3270 bridge 9 = LINK (DPL) with CHANNEL A = Terminal START with CHANNEL B = Non-terminal START with CHANNEL				
(3E)	CHARACTER	1	WCOM_DYRTYPE	
Reserved				
(3F)	CHARACTER	1	WCOM_FILL2	
DPL Program name				
(40)	CHARACTER	8	WCOM_DYRLPROG	

Table 754. (continued)

Offset Hex	Type	Len	Name (dim)	Description
WCOM_WORK_AREA and WCOM_WORK_LNTH are for the use of the WRAM program. If the WRAM program requires work area, it can obtain storage and anchor the address and length. Each Time the WRAM program is called for a specific transaction instance, the two fields will be properly set by CPSM. In this fashion, the WRAM program can obtain and manage storage which is persistent for the duration of the routed transaction. It is the responsibility of the WRAM program to free the area, as appropriate.				
(48)	ADDRESS	4	WCOM_WORK_AREA	
Persistent Storage Length				
(4C)	FULLWORD	4	WCOM_WORK_LNTH	
CPSM Service Status Indicator: 0 = CPSM SERVICES ARE AVAILABLE 1 = SM_SCOPE AND SM_BALANCE are NOT AVAILABLE				
(50)	CHARACTER	1	WCOM_STATUS	
Terminal Type 0 = TERMINAL IS LU2 TYPE 1 = TERMINAL IS LU6 TYPE 2 = TERMINAL TYPE IS UNKNOWN 3 = TRANSACTION HAS NO TERMINAL				
(51)	CHARACTER	1	WCOM_TERM_TYPE	
Reserved				
(52)	CHARACTER	2	WCOM_FILL3	
API Token Value				
(54)	FULLWORD	4	WCOM_DA_TOKEN	
WRAM Return Code to CPSM				
(58)	FULLWORD	4	WCOM_RET_RESP	
Applid of Last Selected AOR				
(5C)	CHARACTER	8	WCOM_ERR_APPLID	
Sysid of Last Selected AOR				
(64)	CHARACTER	4	WCOM_ERR_SYSID	
Transaction Id for Task				
(68)	CHARACTER	8	WCOM_TRANSID	
Userid				
(70)	CHARACTER	8	WCOM_USERID	
Luname				
(78)	CHARACTER	17	WCOM_LUNAME	
Reserved				
(89)	CHARACTER	3	WCOM_FILL4	
CPSM API Response Code				
(8C)	FULLWORD	4	WCOM_API_RESP	
CPSM API Reason Code				
(90)	FULLWORD	4	WCOM_API_REASON	

Table 754. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	Scope Vector Element List Pointer			
(94)	ADDRESS	4	WCOM_SCOP_VECT	
	Scope Vector Count			
(98)	FULLWORD	4	WCOM_SCOP_CNT	
	APPLID of SM_BALANCE Selected AOR			
(9C)	CHARACTER	8	WCOM_SEL_AOR	
	SYSID of SM_BALANCE Selected AOR			
(A4)	CHARACTER	4	WCOM_SEL_SYSID	
	Affinity State Indicator: U = AFFINITY IS NOT DEFINED C = AFFINITY IS ACTIVE AND IS COMMITTED D = AFFINITY IS DEFINED A = AFFINITY IS ACTIVE BLANK = AFFINITY STATUS IS UNKNOWN			
(A8)	CHARACTER	1	WCOM_AFF_STAT	
	DTRTRAN Status Indicator 0 = TRANSACTION IS NOT A DTRTRAN 1 = TRANSACTION IS A DTRTRAN			
(A9)	CHARACTER	1	WCOM_DTRTRAN_IND	
	DTRTRAN Rejection Indicator 0 = DO NOT REJECT THE TRANSACTION (DEFAULT) 1 = REJECT THE TRANSACTION			
(AA)	CHARACTER	1	WCOM_DTRREJ_IND	
	Affinity AOR Status BLANK = NOT APPLICABLE 0 = THE AOR IS OK 1 = THE AOR IS DOWN 2 = THE AOR IS ACTIVE BUT HAS TERMINATED AND RESTARTED SINCE THE AFFINITY WAS INITIALLY CREATED 3 = THE AOR IS ACTIVE BUT THE LINK TO IT IS NOT AVAILABLE			
(AB)	CHARACTER	1	WCOM_AFFAOR_STAT	
	Transaction Group Affinity Type 0 = NONE 1 = GLOBAL 2 = USERID 3 = LUNAME 4 = BAPPL			
(AC)	CHARACTER	1	WCOM_AFF_TYPE	
	Transaction Group Affinity Lifetime 0 = NOT APPLICATION 1 = PSEUDO CONVERSATION 2 = SIGNON 3 = LOGON 4 = SYSTEM 5 = PERMANENT 6 = DELIMIT 7 = ACTIVITY 8 = PROCESS			
(AD)	CHARACTER	1	WCOM_AFF_LIFE	

Table 754. (continued)

Offset Hex	Type	Len	Name (dim)	Description
WLM Automatic Affinity Create Status 0 = WLM WILL NOT AUTOMATICALLY CREATE AFFINITY AT SM_BALANCE 1 = WLM WILL AUTOMATICALLY CREATE AFFINITY AT CREATE AFFINITIES AT SM_BALANCE 2 = NOT APPLICABLE				
(AE)	CHARACTER	1	WCOM_AFF_AUTO	
Reserved				
(AF)	CHARACTER	1	WCOM_FILL5	
Workload Name				
(B0)	CHARACTER	8	WCOM_WORK_NAME	
Transaction Group Name				
(B8)	CHARACTER	8	WCOM_TGRP_NAME	
Event Name				
(C0)	CHARACTER	8	WCOM_EVENT_NAME	
Transaction Commarea Address				
(C8)	ADDRESS	4	WCOM_COMMAREA	
Length of Transaction Commarea				
(CC)	FULLWORD	4	WCOM_COMMAREAL	
CBTS Process Name				
(D0)	CHARACTER	36	WCOM_PROCESS_NAME	
CBTS Process Type				
(F4)	CHARACTER	8	WCOM_PROCESS_TYPE	
CBTS Process Id				
(FC)	CHARACTER	52	WCOM_PROCESS_ID	
CBTS Activity Id				
(130)	CHARACTER	52	WCOM_ACTIVITY_ID	
CBTS Activity Name				
(164)	CHARACTER	16	WCOM_ACTIVITY_NAME	
CBTS Process completing Indicator N = Process completing, NO Y = Process completing, YES				
(174)	CHARACTER	1	WCOM_PROCESS_COMP	
CBTS Activity completing Indicator N = Activity completing, NO Y = Activity completing, YES				
(175)	CHARACTER	1	WCOM_ACTIVITY_COMP	
Link3270 Bridge Facility Token				

Table 754. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(176)	CHARACTER	8	WCOM_BRIDGE_ TOKEN	
(17E)	CHARACTER	8	WCOM_DYRUSERID	
The userid specified on the request. Set by all dynamic applications but more importantly for NTIS and BTS in that it may not be the same as WCOM_USERID because these two have the ability to specify a different userid to be associated with the request				
(186)	CHARACTER	1	WCOM_CICS_LEVEL	
The required CICS level of the target x'00' - any release will satisfy the request x'01' - must be a CICS TS 2.2 region x'02' - must be a CICS TS 2.3 region x'03' - must be a CICS TS 3.1 region				
(187)	CHARACTER	16	WCOM_DYRCHANL	

RWSVD Scope Vector Element LITERALS

```
CONTROL BLOCK NAME = EYURWSVD
                  C CONTROL BLOCK = EYUCWSVD
                  PLI CONTROL BLOCK = EYUPWSVD
                  COBOL CONTROL BLOCK = EYULWSVD
DESCRIPTIVE NAME  = CICS EYURWSVD Literals

Restricted Materials of IBM

FUNCTION =
       Define Literals for the EYUPWSVE Copy Book.
       This copybook may be included in a user written
       Routing Action Module in order to facilitate
       communication between the Action module and the CPSM
       Services. It defines the values associated with the
       various fields in the EYURWSVE Copy Book.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------
DEFINE THE VALUES FOR THE WSVE_RTERR_IND INDICATOR:
  0 = NO ERRORS
  1 = ERROR AFTER NO QUEUE
  2 = ERROR AFTER QUEUE
  3 = START NO SUPPORTED
  4 = DPL LENGERR
  5 = DPL PGMIDERR
  6 = DPL INVREQ
  7 = DPL NOTAUTH
  8 = DPL TERMERR
  9 = DPL ROLLBACK
 10 = START TRANSIDERR
 11 = START IOERR
 12 = START USERIDERR
 13 = BOTH RESUNAVAIL
 14 = Non-DPL SYSIDERR on a TCP/IP conneection
```

Constants

Table 755.

Len	Type	value	Name	Description
1	CHARACTER	0	WSVE_RTERR_NO	
1	CHARACTER	0	WSVE_RTERR_NERR	
1	CHARACTER	1	WSVE_RTERR_NQNS	
1	CHARACTER	2	WSVE_RTERR_QNS	
1	CHARACTER	3	WSVE_RTERR_NOTSUPP	
1	CHARACTER	4	WSVE_RTERR_LENGERR	
1	CHARACTER	5	WSVE_RTERR_ PGMIDERR	
1	CHARACTER	6	WSVE_RTERR_INVREQ	
1	CHARACTER	7	WSVE_RTERR_NOTAUTH	
1	CHARACTER	8	WSVE_RTERR_TERMERR	
1	CHARACTER	9	WSVE_RTERR_ ROLLBACK	
1	CHARACTER	A	WSVE_RTERR_ TRANSIDERR	
1	CHARACTER	B	WSVE_RTERR_IOERR	
1	CHARACTER	C	WSVE_RTERR_ USERIDERR	
1	CHARACTER	D	WSVE_RTERR_ RESUNAVAIL	
1	CHARACTER	E	WSVE_RTERR_ SYSIDERR	
DEFINE THE VALUES FOR THE WSVE_SEL_IND INDICATOR: A = AOR IS SELECTABLE 9 = AOR IS NOT SELECTABLE				
1	CHARACTER	A	WSVE_SEL_OK	
1	CHARACTER	9	WSVE_SEL_NOT	
DEFINE THE VALUES FOR THE WSVE_IGNORE INDICATOR: 0 = DO NOT IGNORE 1 = IGNORE ELEMENT				
1	CHARACTER	0	WSVE_IGNORE_NO	
1	CHARACTER	1	WSVE_IGNORE_YES	
DEFINE THE VALUES FOR THE WSVE_STAT_WSVE INDICATOR: 0 = ALL FIELDS VALID 1 = APPLID IS VALID 1 = SYSID IS VALID				
1	CHARACTER	0	WSVE_STAT_OK	
1	CHARACTER	1	WSVE_STAT_APP	
1	CHARACTER	2	WSVE_STAT_SYSID	

Table 755. (continued)

Len	Type	value	Name	Description
DEFINE THE VALUES FOR THE WSVE_AOR_STATE INDICATOR: 0 = AOR IS UP BUT NOT ACCEPTING WORK. 1 = AOR IS ACTIVE. 2 = AOR IS DOWN. 3 = AOR IS QUIESCING. 4 = ONLY TRANSACTIONS BOUND BY AFFINITY RULES WILL CAN BE ROUTED.				
1	CHARACTER	0	WSVE_AOR_INACT	
1	CHARACTER	1	WSVE_AOR_ACTIVE	
1	CHARACTER	2	WSVE_AOR_DOWN	
1	CHARACTER	3	WSVE_AOR_QUING	
1	CHARACTER	4	WSVE_AOR_UNKN	
DEFINE THE VALUES FOR THE WSVE_IPOVER INDICATOR: 0 = AOR IS SUBJECT TO AN IP OVERRIDE 1 = AOR IS NOT SUBJECT TO AN IP OVERRIDE				
1	CHARACTER	0	WSVE_IPOVR_YES	
1	CHARACTER	1	WSVE_IPOVR_NO	
DEFINE THE VALUES FOR THE WSVE_HLTH INDICATORS: 0 = THE CONDITION DEFINED BY THE HEALTH INDICATOR IS FALSE 1 = THE CONDITION DEFINED BY THE HEALTH INDICATOR IS TRUE 2 = THE CONDITION DEFINED BY THE HEALTH INDICATOR IS UNKNOWN				
1	CHARACTER	0	WSVE_HLTH_FALSE	
1	CHARACTER	1	WSVE_HLTH_TRUE	
1	CHARACTER	2	WSVE_HLTH_UNKN	
DEFINE THE VALUES FOR THE WSVE_LINK_STAT INDICATOR: 0 = LINK IS ACTIVE 1 = LINK IS DOWN 2 = LINK IS NOT DEFINED				
1	CHARACTER	0	WSVE_LINK_ACT	
1	CHARACTER	1	WSVE_LINK_DOWN	
1	CHARACTER	2	WSVE_LINK_UNDEF	
DEFINE THE VALUES FOR THE WSVE_EVENT_SEV INDICATOR: 0 = VERY LOW SEVERITY 1 = LOW SEVERITY 2 = LOW WARN 3 = OK 4 = HIGH WARN 5 = HIGH SEVERITY 6 = VERY HIGH SEVERITY N = EVENT NOT DEFINED				
1	CHARACTER	0	WSVE_EVENT_VLS	
1	CHARACTER	1	WSVE_EVENT_LS	
1	CHARACTER	2	WSVE_EVENT_LW	
1	CHARACTER	3	WSVE_EVENT_OK	
1	CHARACTER	4	WSVE_EVENT_HW	
1	CHARACTER	5	WSVE_EVENT_HS	
1	CHARACTER	6	WSVE_EVENT_VHS	

Table 755. (continued)

Len	Type	value	Name	Description
1	CHARACTER	N	WSVE_EVENT_NULL	
DEFINE THE LENGTH OF A SCOPE VECTOR ELEMENT				
4	DECIMAL	56	WSVE_WSVE_SIZE	
4	DECIMAL	56	WSVE_LENGTH	

RWSVE Scope Vector Element DSECT

```
CONTROL BLOCK NAME = EYURWSVE
                  C CONTROL BLOCK = EYUCWSVE
                  PLI CONTROL BLOCK = EYUPWSVE
                  COBOL CONTROL BLOCK = EYULWSVE
DESCRIPTIVE NAME  = CICS EYURWSVE Copybook

Restricted Materials of IBM

FUNCTION =
       Definition map for SCOPE VECTOR elements.
       This copybook may be included in a user written
       Routing Action Module in order to properly map the
       SCOPE VECTOR elements returned in the WCOM_SCOP_VECT
       address field of the EYUPWCOM communications area.
       Copybook EYULWSVD may be used to define the values for
       the INDICATORs defined in this copybook.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------
```

Table 756.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	EYURWSVE	
(0)	CHARACTER	56	WSVE_SCOPE_VECTOR	
AOR TOKEN				
(0)	CHARACTER	8	WSVE_TOKEN	
AOR APPLID				
(8)	CHARACTER	8	WSVE_APPLID	
AOR LOAD Count				
(10)	FULLWORD	4	WSVE_LOAD_CNT	

Table 756. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Route Error Indicator: 0 = ROUTE ERROR NOT RAISED FOR THIS AOR THIS AOR 1 = AN ATTEMPT TO ROUTE TO THIS AOR PREVIOUSLY WITHOUT QUEUEING RESULTED IN A NO SESSIONS AVAILABLE ROUTE ERROR REASON 2 = AN ATTEMPT TO ROUTE TO THIS AOR PREVIOUSLY WITH QUEUEING RESULTED IN A NO RESULTED IN A NO SESSIONS AVAILABLE ROUTE ERROR REASON 3 = START NOT SUPPORTED 4 = DPL - LENGERR 5 = DPL - PGMIDERR 6 = DPL - INVREQ 7 = DPL - NOTAUTH 8 = DPL - TERMERR 9 = DPL - ROLLBACK 10 = NTIS - TRANSIDERR 11 = NTIS - IOERR 12 = NTIS - USERIDERR 13 = BOTH - RESUNAVAIL				
(14)	CHARACTER	1	WSVE_RTERR_IND	
Reserved				
(15)	CHARACTER	2	WSVE_FILL0	
AOR Selection Indicator: A = AOR IS SELECTABLE BECAUSE IT IS AN AVAILABLE AOR OR BECAUSE IT IS AN AFFINITY AOR AND MUST BE SELECTED 9 = AOR IS NOT SELECTABLE.				
(17)	CHARACTER	1	WSVE_SEL_IND	
AOR Weight				
(18)	CHARACTER	8	WSVE_WEIGHT	
AOR SYSID				
(20)	CHARACTER	4	WSVE_SYSID	
Indicate Ignore: 0 = CPSM SHOULD NOT IGNORE THE ELEMENT DURING SM_BALANCE PROCESSING. 1 = CPSM SHOULD IGNORE THE ELEMENT DURING SM_BALANCE PROCESSING.				
(24)	CHARACTER	1	WSVE_IGNORE	
Indicate Element Status: 0 = ALL FIELDS ARE VALID. 1 = ONLY WSVE_APPLID IS VALID. 2 = ONLY WSVE_SYSID IS VALID.				
(25)	CHARACTER	1	WSVE_STAT_WSVE	
Indicate AOR State: 0 = AOR IS UP BUT NOT ACCEPTING WORK. 1 = AOR IS ACTIVE. 2 = AOR IS DOWN. 3 = AOR IS QUIESCING. ONLY TRANSACTIONS WHICH ARE BOUND BY AFFINITY RELATIONS CAN BE ROUTED. 4 = AOR STATE IS UNKNOWN				
(26)	CHARACTER	1	WSVE_AOR_STATE	

Table 756. (continued)

Offset Hex	Type	Len	Name (dim)	Description
AOR IP Override indicator 0 = AOR will be rejected because of IP override: A DPL is being requested, but the IP connection is down. This means that any non-IP connection between the TOR and AOR will be rejected for DPL by CICS, so we have to pre-empt that rejection setting the IGNORE flag in this scope vector element. 1 = AOR will not be rejected by an IP override				
(27)	CHARACTER	1	WSVE_IPOVER	
HEALTH INDICATORS				
(28)	CHARACTER	4	WSVE_HLTH_IND	
INDICATE STORAGE HEALTH: 0 = AOR IS NOT SHORT ON STORAGE 1 = AOR IS SHORT ON STORAGE. 2 = HEALTH IS UNKNOWN.				
(28)	CHARACTER	1	WSVE_HLTH_SOS	
INDICATE MAXTASK: 0 = AOR IS NOT AT MAXTASK. 1 = AOR IS AT MAXTASK. 2 = HEALTH IS UNKNOWN.				
(29)	CHARACTER	1	WSVE_HLTH_MAXT	
INDICATE STALL: 0 = AOR IS NOT IN STALL. 1 = AOR IS IN STALL. 2 = HEALTH IS UNKNOWN.				
(2A)	CHARACTER	1	WSVE_HLTH_ STALL	
INDICATE DUMPING: 0 = AOR IS NOT DUMPING. 1 = AOR IS DUMPING. 2 = HEALTH IS UNKNOWN.				
(2B)	CHARACTER	1	WSVE_HLTH_DUMP	
INDICATE LINK STATUS: 0 = LINK TO AOR IS ACTIVE. 1 = LINK TO AOR IS NOT ACTIVE. 2 = LINK TO AOR IS NOT DEFINED.				
(2C)	CHARACTER	1	WSVE_LINK_STAT	
INDICATE EVENT SEVERITY FOR THE EVENT SPECIFIED IN THE TRANSACTION GROUP FOR WHICH THE TRANSACTION IS DEFINED: 0 = VERY LOW SEVERE 1 = LOW SEVERE 2 = LOW WARNING 3 = EVERYTHNG IS OK 4 = HIGH WARNING 5 = HIGH SEVERE 6 = VERY HIGH SEVERE N = THE TRANGROUP DOES NOT DEFINE AN EVENT				
(2D)	CHARACTER	1	WSVE_EVENT_SEV	
AOR Release Type and Version				
(2E)	CHARACTER	4	WSVE_RELID	

Table 756. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2E)	CHARACTER	1	WSVE_RELID_ TYPE	
(2F)	CHARACTER	3	WSVE_RELID_ VERS	
Reserved				
(32)	CHARACTER	2	WSVE_FILL3	
Reserved				
(34)	CHARACTER	4	WSVE_FILL4	

RWTRA EYURWTRA WLM COMMAREA DSECT

```
-------------------------------------------------------------------
CONTROL BLOCK NAME = EYURWTRA
                  C CONTROL BLOCK = EYUCWTRA
                  PLI CONTROL BLOCK = EYUPWTRA
                  COBOL CONTROL BLOCK = EYULWTRA
DESCRIPTIVE NAME  = CICS WLM Dynamic Transaction Routing
                    Communications Area Copybook.

Restricted Materials of IBM

FUNCTION =
      This Copy Book generates the EYURWTRA area which is created
      by a service program requesting Dynamic Transaction Routing
      support.
NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS = None
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
-------------------------------------------------------------------
```

Table 757.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	280	EYURWTRA	Structure Name
Control Block Prefix				
(0)	CHARACTER	20	WTRA_PREFIX	WTRA prefix area
(0)	HALFWORD	2	WTRA_SLENGTH	Structure Length
(2)	CHARACTER	1	WTRA_ARROW	">" delimiter
(3)	CHARACTER	8	WTRA_NAME	"EYURWTRA"
(B)	CHARACTER	1	WTRA_BLANK	" "
(C)	CHARACTER	8	WTRA_PGMNAME	Name of calling service pgm
Function ID				
(14)	CHARACTER	1	WTRA_FUNC	Function ID
Routing Request Type				
(15)	CHARACTER	1	WTRA_DYRTYPE	Request type
(16)	CHARACTER	8	WTRA_DYRLPROG	DPL Program name

Table 757. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Routing Error Indicator				
(1E)	CHARACTER	1	WTRA_ERR	Error type if Route Error
Call Back Option				
The Call Back option is set to YES if CPSM/WLM requests to be re-invoked for Route Termination when the transaction program terminates. It is set to NO if no call back is requested.				
(1F)	CHARACTER	1	WTRA_OPTER	Call Back Option.
(20)	FULLWORD	4	WTRA_RESPONSE	Response 0=Normal 8=Abort
(24)	FULLWORD	4	WTRA_BUFFADDR	Address of input buffer
(28)	FULLWORD	4	WTRA_BUFFLNTH	Length of input buffer
(2C)	CHARACTER	8	WTRA_TRANID	Transaction Identifier
(34)	CHARACTER	8	WTRA_USERID	USERID
(3C)	CHARACTER	4	WTRA_TERMID	Principal Facility ID Normally obtained from EIBTRMID
(40)	CHARACTER	8	WTRA_APPLID	APPLID of default/selected AOR
(48)	CHARACTER	4	WTRA_SYSID	SYSID of default/selected AOR
(4C)	CHARACTER	17	WTRA_LUNAME	LUNAME to use
(5D)	CHARACTER	8	WTRA_BRIDGE_TOKEN	Link3270 Bridge Token
(65)	CHARACTER	8	WTRA_DYRUSERID	Userid for routing
(6D)	CHARACTER	1	WTRA_DYRLEVEL	CICS level required
(6E)	CHARACTER	2	WTRA_FILL1	Reserved
Next Transaction Identifier				
The Identifier of the Transaction which will be executed after the current transaction completes. This should be set prior to calling using the Route Termination Function.				
(70)	CHARACTER	8	WTRA_NEXTTRAN	
Last WLM API Response and Reason Codes				
WTRA_API_RESP and WTRA_API_REAS contains the last Response and Reason Codes given to the WLM Routing Action Module. If the WTRA_RESPONSE is not 0, these fields can be used to determine the outcome of the API function which caused the error.				

Table 757. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(78)	FULLWORD	4	WTRA_API_RESP	Last API RESPONSE to WRAM
(7C)	FULLWORD	4	WTRA_API_REAS	Last API REASON to WRAM
Communications Area				
(80)	ADDRESS	4	WTRA_COMMAREA	Commarea Address (0 if none)
(84)	FULLWORD	4	WTRA_COMMAREAL	Commarea Length (0 if none)
(88)	CHARACTER	16	WTRA_FILL2	Reserved.
(98)	CHARACTER	128	WTRA_USERAREA	Routing exit user area reserved for use by EYU9XLOP.

Constants

Table 758.

Len	Type	value	Name	Description
-- Define the values for the WTRA_FUNC Function ID indicator --				
1	CHARACTER	0	WTRA_FUNCSEL	Route Select
1	CHARACTER	1	WTRA_FUNCERR	Route Error
1	CHARACTER	2	WTRA_FUNCTRM	Route Termination
1	CHARACTER	3	WTRA_FUNCNOT	Route Notification The transaction is@NEW is to be routed statically to the named APPLID.
1	CHARACTER	4	WTRA_FUNCABD	Route ABEND
-- Define the values for the WTRA_DYRTYPE Request Type indicator --				
1	CHARACTER	0	WTRA_DYRTYPE_DYN	Dynamic trans route
1	CHARACTER	1	WTRA_DYRTYPE_NBY	Notify
1	CHARACTER	2	WTRA_DYRTYPE_ST	Dynamic START
1	CHARACTER	3	WTRA_DYRTYPE_STD	Dynamic START w/data@L1A

Table 758. (continued)

Len	Type	value	Name	Description
1	CHARACTER	4	WTRA_DYRTYPE_DPL	Dynamic DPL request
1	CHARACTER	5	WTRA_DYRTYPE_CICSBTS	CICSBTS route
1	CHARACTER	6	WTRA_DYRTYPE_NETNAME	Non-terminal Start
1	CHARACTER	7	WTRA_DYRTYPE_IIOP	IIOP route
1	CHARACTER	8	WTRA_DYRTYPE_3270	Dynamic 3270 Bridge@L3A
---------- Define the values for the WTRA_ERR Route Error indicator ----------				
1	CHARACTER	0	WTRA_ERRNFND	SYSID not found
1	CHARACTER	1	WTRA_ERROUT	SYSID out of service
1	CHARACTER	2	WTRA_ERRNSES	No sessions Available
1	CHARACTER	3	WTRA_ERRAREJ	Allocate rejected
1	CHARACTER	4	WTRA_ERRQPUR	Queue purged
1	CHARACTER	5	WTRA_ERRNOTSUP	Not supported
1	CHARACTER	6	WTRA_ERRDPLLEN	DPL - LENGERR
1	CHARACTER	7	WTRA_ERRDPLPGM	DPL - PGMIDERR
1	CHARACTER	8	WTRA_ERRDPLINV	DPL - INVREQ
1	CHARACTER	9	WTRA_ERRDPLNOT	DPL - NOTAUTH
1	CHARACTER	A	WTRA_ERRDPLTRM	DPL - TERMERR
---------- Define the values for the WTRA_OPTER Call Back indicator ----------				
1	CHARACTER	0	WTRA_CALLYES	Call Back requested on route termination
1	CHARACTER	1	WTRA_CALLNO	Call Back not requested on route termination
---------- Define the length of the WTRA Prefix Area ----------				
4	DECIMAL	20	WTRA_PFX_LEN	
---------- Define the length of the EYURWTRA Area ----------				
4	DECIMAL	280	WTRA_LENGTH	

NGCBC GFE parameter lists and structures

```
!:refstep.Storage_management_interface --------------- GFENGINE 171 -
!
!
! Storage_Management_Interface
!
! The interface to the Storage Management routine, GFESTMAN.
!
!--------------------------------------------------------------------
```

Table 759.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	GFSM_PARMS	
(0)	FULLWORD	4	GFSM_FUNCTION	
(4)	CHARACTER	12	GFSM_SPEC_PARMS	
!:refstep.gfsm_alloc_parms --------------------------- GFENGINE 218 - ! ! gfsm_alloc_parms ! ! The parameters for the Storage Management Allocate routine. ! !--				
(4)	CHARACTER	8	GFSM_ALLOC_ PARMS	
(4)	ADDRESS	4	GFSM_ALLOC_ ADDR	
(8)	FULLWORD	4	GFSM_ALLOC_ LENGTH	
!:erefstep.gfsm_alloc_parms -- !:refstep.gfsm_free_parms --------------------------- GFENGINE 236 - ! ! gfsm_fetch_parms ! ! The parameters for the Storage Management Free routine. ! !--				
(4)	CHARACTER	8	GFSM_FREE_PARMS	
(4)	ADDRESS	4	GFSM_FREE_ADDR	
(8)	FULLWORD	4	GFSM_FREE_ LENGTH	
!:erefstep.gfsm_free_parms -- !:refstep.gfsm_fetch_parms --------------------------- GFENGINE 260 - ! ! gfsm_fetch_parms ! ! The parameters for the Storage Management Fetch routine. ! !--				
(4)	CHARACTER	12	GFSM_FETCH_ PARMS	
(4)	ADDRESS	4	GFSM_FETCH_ ADDR	
(8)	FULLWORD	4	GFSM_FETCH_ LENGTH	

Table 759. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	ADDRESS	4	GFSM_FETCH_ BUFFER_ADDR	
!:erefstep.gfsm_fetch_parms ----------				
(10)	ADDRESS	4	GFSM_USER_DATA	
(14)	FULLWORD	4	GFSM_RETCODE	

```
!:erefstep.Storage_ Management_ errors --------------------------------
!:erefstep.Storage_ management_ interface ----------------------------
!:refstep.Engine_  interface -------------------------- GFENGINE 364 -
!
! Engine_ interface
!
  ! The interface the Generic Formatting Engine, GFENGINE.
!
  !-------------------------------------------------------------------
```

Table 760.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	28	GFE_PARMS	
(0)	FULLWORD	4	GFE_FUNCTION	
(4)	CHARACTER	20	GFE_SPEC_PARMS	
!:refstep.gfe_init_parms ---------- GFENGINE 417 - ! ! gfe_init_parms ! !----------				
(4)	CHARACTER	20	GFE_INIT_PARMS	
(4)	ADDRESS	4	GFE_INIT_ TABLE_ADDR	
(8)	FULLWORD	4	GFE_INIT_TOKEN	
(C)	CHARACTER	8	GFE_INIT_ STRUCT	
(14)	ADDRESS	4	GFE_INIT_ USER_DATA	
!:erefstep.gfe_init_parms ---------- !:refstep.gfe_format_parms ---------- GFENGINE 442 - ! ! gfe_format_parms ! !----------				
(4)	CHARACTER	12	GFE_FORMAT_ PARMS	
(4)	ADDRESS	4	GFE_FORMAT_ TOKEN	
(8)	ADDRESS	4	GFE_FORMAT_ TABLE_ADDR	
(C)	ADDRESS	4	GFE_FORMAT_ ADDR	

Table 760. (continued)

Offset Hex	Type	Len	Name (dim)	Description
!:erefstep.gfe_format_parms ---------- !:refstep.gfe_term_parms ---------- GFENGINE 460 - ! ! gfe_term_parms ! !----------				
(4)	CHARACTER	4	GFE_TERM_PARMS	
(4)	ADDRESS	4	GFE_TERM_TOKEN	
!:erefstep.gfe_term_parms ----------				
(18)	FULLWORD	4	GFE_RETCODE	

```
!:erefstep.Engine_  errors ----------
!:erefstep.Engine_  interface ----------
!:refstep.CBIT_  header ---------- GFENGINE 584 -
!
! CBIT_header
!
  ! The fixed part of the CBIT . There is one of these per CBIT .
!
  !----------
```

Table 761.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	CBIT	
(0)	CHARACTER	8	CBIT_EYE_CATCHER	
(8)	FULLWORD	4	CBIT_LENGTH	
(C)	BIT(8)	1	CBIT_FLAGS	
(D)	CHARACTER	3	*	
(10)	CHARACTER	8	CBIT_CTLBLK_NAME	
(18)	FULLWORD	4	CBIT_ARRAY_SIZE	
(1C)	FULLWORD	4	CBIT_TABLE_INDEX	
(20)	ADDRESS	4	CBIT_USER_DATA	
(24)	CHARACTER	12	*	
(30)	CHARACTER	0	CBIT_FORMAT_INFO	

```
!:erefstep.CBIT_  header ----------
!:refstep.CBIT_  info_record ---------- GFENGINE 606 -
!
! CBIT_ info_record.
!
  ! The variable part of the CBIT . There is one of these for each
  ! field in the structure which is formatted in the CBIT .
!
  !----------
```

Table 762.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	51	CBIT_INFO	
(0)	FULLWORD	4	CBIT_VAR_LENGTH	

Table 762. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	CHARACTER	8	CBIT_ADDRESS	
(C)	CHARACTER	8	CBIT_OFFSET	
(14)	CHARACTER	16	CBIT_TYPE	
(24)	FULLWORD	4	CBIT_NAME_LENGTH	
(28)	FULLWORD	4	CBIT_RAW_LENGTH	
(2C)	FULLWORD	4	CBIT_FMT_LENGTH	
(30)	UNSIGNED	1	CBIT_TYPE_CODE	
(31)	UNSIGNED	1	CBIT_BIT_ POSITION	
(32)	UNSIGNED	1	CBIT_LEVEL	
(33)	CHARACTER	0	CBIT_INFO_END	

Constants

Table 763.

Len	Type	value	Name	Description
4	DECIMAL	1	GFSM_ALLOC	
4	DECIMAL	2	GFSM_FREE	
4	DECIMAL	3	GFSM_FETCH	
!:refstep.Storage_Management_errors ----------------- GFENGINE 192 - ! ! Storage_Management_errors ! ! The possible errors that can be reported by the various functions ! from the Storage Interface. ! !----------				
4	DECIMAL	0	GFSM_ALLOC_OK	
4	DECIMAL	8	GFSM_ALLOC_SOS	
4	DECIMAL	0	GFSM_FREE_OK	
4	DECIMAL	8	GFSM_FREE_BADADDR	
4	DECIMAL	0	GFSM_FETCH_OK	
4	DECIMAL	8	GFSM_FETCH_BADADDR	
4	DECIMAL	1	GFE_INIT	
4	DECIMAL	2	GFE_FORMAT	
4	DECIMAL	3	GFE_TERM	
!:refstep.Engine_errors ----------------------------- GFENGINE 386 - ! ! Engine_errors ! ! The possible errors that can be reported by the various functions ! from the Generic Formatting Engine. ! !----------				
4	DECIMAL	0	GFE_INIT_OK	

Table 763. (continued)

Len	Type	value	Name	Description
4	DECIMAL	8	GFE_INIT_DST_ERROR	
4	DECIMAL	16	GFE_INIT_ INVALID_STRUCT	
4	DECIMAL	24	GFE_INIT_ STORAGE_ERROR	
4	DECIMAL	0	GFE_FORMAT_OK	
4	DECIMAL	8	GFE_FORMAT_ INVALID_TOKEN	
4	DECIMAL	16	GFE_FORMAT_DST_ERROR	
4	DECIMAL	24	GFE_FORMAT_ STORAGE_ERROR	
4	DECIMAL	0	GFE_TERM_OK	
4	DECIMAL	8	GFE_TERM_ INVALID_TOKEN	
4	DECIMAL	16	GFE_TERM_ STORAGE_ERROR	
8	CHARACTER	>CBIT	CBIT_EYE	

Notices

This information was developed for products and services offered in the U.S.A. IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

IBM World Trade Asia Corporation
Licensing
2-31 Roppongi 3-chome, Minato-ku
Tokyo 106, Japan

The following paragraph does not apply in the United Kingdom or any other country where such provisions are inconsistent with local law:

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore this statement may not apply to you.

This publication could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact IBM United Kingdom Laboratories, MP151, Hursley Park, Winchester, Hampshire, England, SO21 2JN.

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Programming License Agreement, or any equivalent agreement between us.

Programming interface information

This book is intended to help you diagnose problems in your CICS s

CAUTION:
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.

Product-sensitive Programming Interface and Associated Guidance Information is identified where it occurs by an introductory statement to a data area.

Trademarks

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. A current list of IBM trademarks is available on the Web at Copyright and trademark information at www.ibm.com/legal/copytrade.shtml.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other product and service names might be trademarks of IBM or other companies.

Readers' Comments — We'd Like to Hear from You

CICS Transaction Server for z/OS
Version 3 Release 2
CICS Supplementary Data Areas

Publication No. GC34-6864-04

We appreciate your comments about this publication. Please comment on specific errors or omissions, accuracy, organization, subject matter, or completeness of this book. The comments you send should pertain to only the information in this manual or product and the way in which the information is presented.

For technical questions and information about products and prices, please contact your IBM branch office, your IBM business partner, or your authorized remarketer.

When you send comments to IBM, you grant IBM a nonexclusive right to use or distribute your comments in any way it believes appropriate without incurring any obligation to you. IBM or any other organizations will only use the personal information that you supply to contact you about the issues that you state on this form.

Comments:

Thank you for your support.

Submit your comments using one of these channels:
- Send your comments to the address on the reverse side of this form.
- Send a fax to the following number: +44 (0) 1962 816151
- Send your comments via email to: idrcf@uk.ibm.com

If you would like a response from IBM, please fill in the following information:

Name	Address
Company or Organization	
Phone No.	Email address

Readers' Comments — We'd Like to Hear from You
GC34-6864-04

Cut or Fold
Along Line

Fold and Tape | **Please do not staple** | Fold and Tape

PLACE
POSTAGE
STAMP
HERE

IBM United Kingdom Limited
User Technologies Department (MP095)
Hursley Park
Winchester
Hampshire
United Kingdom
SO21 2JN

Fold and Tape | **Please do not staple** | Fold and Tape

GC34-6864-04

Cut or Fold
Along Line

GC34-6864-04