CICS Transaction Server for z/OS
Version 4 Release 2

Data Areas

IBM

CICS Transaction Server for z/OS
Version 4 Release 2

Data Areas

Contents

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CICS Transaction Server for z/OS Data Areas

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

This manual documents information NOT intended to be used as a Programming
Interface of Version 4 Release 2.

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.

W2LC Web2.0 Resource Layout Mapping

```
DESCRIPTIVE NAME  = Web 2.0 Samples - Common macros
  Licensed Materials - Property of IBM
  CICS SupportPac CA8K
  US Government Users Restricted Rights - Use, duplication
  or disclosure restricted by GSA ADP Schedule Contract
  with IBM Corporation
FUNCTION = Common macros for use by SupportPac CA8K samples
DESCRIPTION
  This copybook describes the layout of the Resource Layout
  Mapping structure that is passed to the Resource Service
  Routine from the Atom feed document generator sample
  The RLM is used to specify the conversions from character-
  based items, such as those in an XML file, into the equivalent
  binary representations in a CICS resource, such as a TSqueue
  or file, and the reverse transformation from binary to
  character.
```

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Table 1.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	80	DFHRLM_HEADER	RLM header
(0)	CHARACTER	8	RLM_EYE_CATCHER	>DFHRLM< eyecatcher
(8)	FULLWORD	4	RLM_VERSION_MAJOR	Major version number
(C)	FULLWORD	4	RLM_VERSION_MINOR	Minor version number
(10)	FULLWORD	4	*	Reserved
(14)	FULLWORD	4	RLM_LENGTH	Total length of RLM
(18)	CHARACTER	32	RLM_NAME	Name of this RLM
(38)	FULLWORD	4	*	Reserved
(3C)	FULLWORD	4	RLM_STRUCT_SIZE	Size of described structure
(40)	CHARACTER	16	*	Reserved

Table 2.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	DFHRLM_ENTRY	
(0)	UNSIGNED	1	RLM_ENTRY_TYPE	

```
--------------------------------------------------------------------
Type 1 record structure
Data entry structure defining a single field to be converted.
--------------------------------------------------------------------
```

Table 3.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	DFHRLM_DATA_ENTRY	
(0)	UNSIGNED	1	RLM1_ENTRY_TYPE	Data entry, type=X'01'
(1)	UNSIGNED	1	RLM1_CONVERT_TYPE	Conversion type
(2)	HALFWORD	2	RLM1_DATA_COUNT	Length, or decimal digit count
(4)	UNSIGNED	1	RLM1_DATA_FRACT	Decimal fraction digit count
(5)	UNSIGNED	1	*	Reserved
(6)	HALFWORD	2	RLM1_NAMESPACE_LEN	Namespace URI length
(8)	HALFWORD	2	RLM1_LOCAL_NAME_LEN	
				Local name length
(A)	HALFWORD	2	*	Reserved
(C)	HALFWORD	2	RLM1_DEFAULT_LEN	Length of default value
(E)	BIT(8)	1	RLM1_DATA_FLAGS	Flag byte

Table 3. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		*	Reserved
	.1..		RLM1_SIGN_ LEADING	Leading sign
	..1.		RLM1_SIGN_ SEPARATE	
				Separate sign
(F)	CHARACTER	13	*	Reserved
(1C)	ADDRESS	4	RLM1_NAMESPACE_ PTR	Address of namespace URI
(20)	FULLWORD	4	*	Reserved
(24)	ADDRESS	4	RLM1_LOCAL_ NAME_PTR	
				Address of local name
(28)	CHARACTER	12	*	Reserved
(34)	ADDRESS	4	RLM1_DEFAULT_ VALUE_PTR	
				Address of default value
(38)	CHARACTER	8	*	Reserved

```
!--------------------------------------------------------------------
! Type 2 record structure - Fixed Repeat
!--------------------------------------------------------------------
```

Table 4.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	DFHRLM_ FIXED_REPEAT_ ENTRY	
(0)	UNSIGNED	1	RLM2_ENTRY_TYPE	Fixed repeat entry, type=X'02
(1)	BIT(8)	1	RLM2_CONTENT_ DESC	Content description
	1...		*	Reserved
	.1..		RLM2_INLINE_VAR	Separate count field
	..1.		RLM2_CONTENT_ MIXED	
				Can contain mixed content
	...1		RLM2_CONTENT_ STRUCT	
				Content is a structure
(2)	HALFWORD	2	RLM2_CONTENT_ COUNT	Array dimension
(4)	CHARACTER	3	*	Reserved

Table 4. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7)	UNSIGNED	1	RLM2_STRUCT_ NAME_LEN	
				Length of structure name
(8)	FULLWORD	4	RLM2_VAR_ COUNT_OFFSET	
				Offset of optional
(C)	ADDRESS	4	RLM2_CONTENT_LEN	Size of one element
(10)	CHARACTER	20	*	Reserved
(24)	ADDRESS	4	RLM2_STRUCT_NAME	
(28)	CHARACTER	16	*	Reserved

Table 5.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	DFHRLM_ END_REPEAT_ENTRY	
(0)	UNSIGNED	1	RLM4_ENTRY_TYPE	End Repeat entry, type=X'04'
(1)	CHARACTER	7	*	Padding to doubleword

```
!-------------------------------------------------------------------
! Type 5 record structure - End of File
!-------------------------------------------------------------------
```

Table 6.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	DFHRLM_ END_OF_FILE_ENTRY	
(0)	UNSIGNED	1	RLM5_ENTRY_TYPE	End of File entry, type=X'05'
(1)	CHARACTER	7	*	Padding to doubleword

W2PC Web2.0 ATOMPARAMETERS container

```
DESCRIPTIVE NAME  = Web 2.0 Sample - ATOMPARAMETERS container
    Licensed Materials - Property of IBM
    CICS SupportPac CA8K
    US Government Users Restricted Rights - Use, duplication
    or disclosure restricted by GSA ADP Schedule Contract
    with IBM Corporation
DESCRIPTION
 This copybook maps the parameters passed in the ATOMPARAMETERS
 Each parameter passed in this container is a pointer to an
 eight byte area. The first parameter is a pointer to a
 64-bit options string, whose definition is mapped by the
 ATMP_OPTIONS_BITS dsect. The second parameter is a pointer to
 two fullwords in which the response and reason code can be
 returned. The remaining parameters are pointers to
 pointer+length structures, in which the first word contains a
```

pointer to the parameter's value and the second word contains
its length.
The parameters in the containmer are as follows:
 ATMP_OPTIONS
    Address of a double word containing 64 option bits.
    The first word is used to send options to the service
    routine, and the second word is used to receive
    options from the service routine.
 ATMP_RESPONSE
    Address of a double word in which the response and
    reason code can be returned. These are both
    initialized to zero, indicating successful completion.
 ATMP_RESNAME
    Address of a double word containing a pointer to the
    CICS resource name, followed by its length.
 ATMP_RESTYPE
    Address of a double word containing a pointer to the
    CICS resource type name in uppercase, followed by
    its length. The type can be PROGRAM, TSQUEUE, or FILE.
 ATMP_ATOMTYPE
    Address of a double word containing a pointer to the
    type of Atom document being processed, in lowercase,
    followed by its length. It is either entry or feed.
 ATMP_ATOMID
    Address of a double word containing a pointer to the
    unique Atom request identifier (from the atom:id
    element), followed by its length.
 ATMP_SELECTOR
    Address of a double word containing a pointer to the
    selector value from the URL, followed by its length.
    This parameter is used to select the record within
    the CICS resource that is to be accessed. In this
    implementation, the selector is the operand of
    the "s=" keyword within the querystring section
    of the URL.
 ATMP_HTTPMETH
    Address of a double word containing a pointer to the
    the HTTP method padded, followed by its length
    It is GET, POST, PUT or DELETE.
 ATMP_RLM
    Address of a double word containing a pointer to the
    Resource Layout Mapping area, followed by its length.
 ATMP_MTYPEIN
    Address of a double word containing a pointer to the
    the mediatype of the incoming HTTP request body,
    if any, followed by its length. It is only meaningful
    if the HTTP method is POST or PUT, otherwise the
    pointer and length are both zero.
 ATMP_MTYPEOUT
    Address of a double word containing a pointer to an
    area in which the routine must return the mediatype of
    the data being returned in the ATOMCONTENT container,
    followed by the length of that area (56 bytes).
 ATMP_UPDATED
    Address of a double word containing a pointer to an
    area in which the routine must return the date and
    time at which the returned document was last updated,
    followed by the length of that area (32 bytes).
    The value must be returned in xs:dateTime format,
    which is the same as RFC3339 format, namely
    yyyy-mm-ddThh:mm:ss.fffZ, or as spaces. (The .fff
    fractional seconds are optional, and may be omitted.)
    If spaces are returned, the currect time is assumed.
 ATMP_ETAGVAL
    Address of a double word containing a pointer to the
    Etag value for the selected record, followed by its
    length. The Etag (or entity tag) is any string

that can be used to identify the record instance
uniquely. It could be based on an accurate timestamp
or version number, but in this implementation it is
the hexadecimal value of the binary checksum of the
record derived by the CKSM machine instruction.
The checksum may theoretically sometimes be the same
for different record instances, but this is likely to
be rare. It is "probably good enough" for its primary
purposeof guarding against the updating of data in a
PUT operation that was derived from data that was
previously obtained in a GET operation but is now
stale (i.e. it was updated by someone else since the
GET request had completed).

ATMP_WINSIZE
   Address of a double word containing a pointer to the
   feed window size, followed by its length. The value
   is a numeric string that contains the default number
   of entries to be returned in each feed,

ATMP_NEXTSEL
   Address of a double word into which the service
   routine should set a pointer and length of a selector
   value for the next record in the resource, if any.

ATMP_PREVSEL
   Address of a double word into which the service
   routine should set a pointer and length of a selector
   value for the previous record in the resource, if any.

ATMP_FIRSTSEL
   Address of a double word into which the service
   routine should set a pointer and length of a selector
   value for the first (newest) record in the resource,
   if any.

ATMP_LASTSEL
   Address of a double word into which the service
   routine should set a pointer and length of a selector
   value for the last (oldest) record in the resource,
   if any.

ATMP_ID_FLD
   Address of a double word containing a pointer to the
   NAME OF THE FIELD within the resource that contains
   the atom identifier (from the atom:id element), if
   present, followed by its length. If it is present,
   the service routine should use this named field to
   store the contents of the atom:id element.

ATMP_UPDATED_FLD
   Address of a double word containing a pointer to
   the NAME OF THE FIELD within the resource that
   contains the time when the resource was last updated,
   if present, followed by its length. If no such field
   exists, the pointer and length are both zero.
   If it is present, the service routine should use this
   named field to locate the value of the timestamp that
   can be used to construct the value returned in the
   UPDATED parameter. This may be all spaces if the
   resource does not contain such a field.

ATMP_KEY_FLD
   Address of a double word containing a pointer to the
   NAME OF THE FIELD within the resource that contains
   the key (RIDFLD) for File Control operations, if any,
   followed by its length. Only relevant when the
   resource type is FILE.

ATMP_TITLE_FLD
   Address of a double word containing a pointer to
   the NAME OF THE FIELD within the resource that
   contains the Atom title of the represented entry,
   if present, followed by its length.
   If it is present, the service routine should use this
   named field to locate the entry title, and return it

in the ATOMTITLE container.
ATMP_SUBTITLE_FLD
    Address of a double word containing a pointer to
    the NAME OF THE FIELD within the resource that
    contains the Atom subtitle of the represented entry,
    if present, followed by its length.
    If it is present, the service routine should use this
    named field to locate the entry subtitle, and return
    it in the ATOMSUBTITLE container.
ATMP_SUMMARY_FLD
    Address of a double word containing a pointer to
    the NAME OF THE FIELD within the resource that
    contains the Atom summary of the represented entry,
    if present, followed by its length.
    If it is present, the service routine should use this
    named field to locate the entry summary, and return
    it in the ATOMSUMMARY container.

Table 7.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	100	ATMP_PARAMETER_LIST	
(0)	ADDRESS	4	ATMP_OPTIONS	Address of 64-bit options bitmap
(4)	ADDRESS	4	ATMP_RESPONSE	Address of response/reason doubleword
(8)	ADDRESS	4	ATMP_RESNAME	Address of resource name ptr/length
(C)	ADDRESS	4	ATMP_RESTYPE	Address of resource type ptr/length
(10)	ADDRESS	4	ATMP_ATOMTYPE	Address of atom document type ptr/len
(14)	ADDRESS	4	ATMP_ATOMID	Address of atom id ptr/length
(18)	ADDRESS	4	ATMP_SELECTOR	Address of entry selector ptr/length
(1C)	ADDRESS	4	ATMP_HTTPMETH	Address of HTTP mathod ptr/length
(20)	ADDRESS	4	ATMP_RLM	Address of Resource Layout Mapping pt/ln
(24)	ADDRESS	4	ATMP_MTYPEIN	Address of inbound mediatype ptr/length
(28)	ADDRESS	4	ATMP_MTYPEOUT	Address of outbound mediatype ptr/len
(2C)	ADDRESS	4	ATMP_UPDATED	Address of updated timestamp ptr/len
(30)	ADDRESS	4	ATMP_ETAGVAL	Address of Etag value ptr/len
(34)	ADDRESS	4	ATMP_WINSIZE	Address of window size ptr/len
(38)	ADDRESS	4	ATMP_NEXTSEL	Address of next feed selector ptr/len

Table 7. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	ADDRESS	4	ATMP_PREVSEL	Address of prev feed selector ptr/len
(40)	ADDRESS	4	ATMP_FIRSTSEL	Address of first feed selector ptr/len
(44)	ADDRESS	4	ATMP_LASTSEL	Address of last feed selector ptr/len
(48)	ADDRESS	4	ATMP_ID_FLD	Address of atom id fieldname ptr/len
(4C)	ADDRESS	4	ATMP_UPDATED_FLD	Address of updated fieldname ptr/len
(50)	ADDRESS	4	ATMP_KEY_FLD	Address of key fieldname ptr/length
(54)	ADDRESS	4	ATMP_TITLE_FLD	Address of title fieldname ptr/length
(58)	ADDRESS	4	ATMP_SUBTITLE_ FLD	Address of subtitle fieldname ptr/len
(5C)	ADDRESS	4	ATMP_SUMMARY_FLD	Address of summary fieldname ptr/len
(60)	ADDRESS	4	ATMP_PARAMETER_ 25	Address of URM parameter 25 (unused)

Table 8.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	ATMP_RESPONSES	Addressed by ATMP_RESPONSE
(0)	UNSIGNED	4	ATMP_RESPONSE_ CODE	Response code
(4)	UNSIGNED	4	ATMP_REASON_CODE	Reason code

Table 9.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	ATMP_PARAMETER	Parameter locator double word
(0)	ADDRESS	4	ATMP_PARAMETER_ PTR	Parameter address
(4)	FULLWORD	4	ATMP_PARAMETER_ LEN	Parameter length

Table 10.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	ATMP_OPTIONS_BITS	Bits addressed by ATMP_OPTIONS
(0)	BIT(32)	4	ATMP_OPTIONS_ INBIT	

Table 10. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	BIT(32)	4	ATMP_OPTIONS_ OUTBIT	
(4)	BIT(8)	1	ATMP_OUTOPT_ BYTE0	High byte not usable in COBOL
(5)	BIT(8)	1	ATMP_OUTOPT_ BYTE1	
	1...		OPTTITLE	ATOMTITLE container returned
	.1..		OPTSUBTI	ATOMSUBTITLE container returned
	..1.		OPTSUMMA	ATOMSUMMARY container returned
	...1 1111		*	
(6)	BIT(8)	1	ATMP_OUTOPT_ BYTE2	
(7)	BIT(8)	1	ATMP_OUTOPT_ BYTE3	

Table 11.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	ATMP_OPTIONS_ WORDS	Words addressed by ATMP_OPTIONS
(0)	UNSIGNED	4	ATMP_OPTIONS_IN	Input request bits (not used)
(4)	UNSIGNED	4	ATMP_OPTIONS_OUT	Output response bits

A03 VTAM global statistics

```
CONTROL BLOCK NAME = DFHA03DS
DESCRIPTIVE NAME  = CICS VTAM global Statistics.
   @BANNER_START 02
                          DFHA03DS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = This DSECT describes VTAM global statistics.
        The data described by this DSECT is placed in storage by
        DFHSTVT, one of the the statistics modules in the AP domain.
        It contains VTAM global statistics.
        The same DSECT describes the system and user copies of the
        statistics. Several copies of the statistics may exist until
        the callers request has satisified.
LIFETIME = The storage area is created when a request for VTAM
        global stats is received. It is released when the caller
        has acknowledged receipt of the data .
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
 -----------------------------------------------------------------
```

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

Table 12.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHA03DS	VTAM statistics (Global)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A03LEN	Length of data area
(0)	SIGNED	0	A03IDE	"0021" VTAM global stats mask
(2)	ADDRESS	2	A03ID	VTAM global storage id
(2)	BITSTRING	0	A03VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A03DVERS	VTAM stats version number
(5)	CHARACTER	3		Reserved
(8)		4	A03RPLXT	Times at RPL max
(C)		2	A03RPLX	Max RPLs posted
(E)	BITSTRING	2	A03VTSOS	VTAM SOS
(10)	HALFWORD	2	A03DOC	Dynamic open count
(12)	HALFWORD	2		Reserved
(14)	FULLWORD	4	A03LUNUM	Current LUs in session
(18)	FULLWORD	4	A03LUHWM	HWM LUs in session
(1C)	FULLWORD	4	A03PSIC	PRSS inquire count
(20)	FULLWORD	4	A03PSNC	PRSS nib count
(24)	FULLWORD	4	A03PSOC	PRSS opndst count
(28)	FULLWORD	4	A03PSUC	PRSS unbind count
(2C)	FULLWORD	4	A03PSEC	PRSS error count
(30)	CHARACTER	4	A03PSTYP	SNPS/MNPS/NOPS - Persistency
(34)		4	A03PSDIN	PSDINT - Format 0hhmmss
(34)		0	A03END	"*"
(34)		0	A03CLEN	"*-A03LEN" Length of DSECT

A04 Autoinstall statistics

```
                  CONTROL BLOCK NAME = DFHA04DS
                  DESCRIPTIVE NAME  = CICS Autoinstall Statistics.
                     @BANNER_START 02

                                        DFHA04DS
                     Licensed Materials - Property of IBM
                     "Restricted Materials of IBM"
                     5655-S97
                     @BANNER_END
                  FUNCTION = This DSECT describes Autoinstall statistics.
                          + Shipped remote definition statistics.
                        The data described by this DSECT is placed in storage by
                        DFHAPST, the statistics module in the AP domain.
                        It contains autoinstall statistics.
                        The same DSECT describes the system and user copies of the
                        statistics. Several copies of the statistics may exist until
                        the callers request has been satisified.
                  LIFETIME = The storage area is created when a request for
                        autoinstall global stats is received. It is released when
                        the caller has acknowledged receipt of the data .
                  LOCATION = Caller is passed a pointer to the storage.
                  INNER CONTROL BLOCKS = none
                  NOTES :
                     DEPENDENCIES = S/370
                     RESTRICTIONS = none
                     MODULE TYPE = Control block definition
                  -------------------------------------------------------------------
                  EXTERNAL REFERENCES = none
                     DATA AREAS = none
                     CONTROL BLOCKS = DFHTCTFX TCTVADAT
                                      DFHTCTFX TCTVADRJ
                                      DFTTCTTE TCTVADLO
                                      DFHTCTFX TCTVADPK
                                      DFHTCTFX TCTVADPX
                                      DFHTCTFX TCTVADQT
                                      DFHTCTFX TCTVADQK
                                      DFHTCTFX TCTVADQX
                     GLOBAL VARIABLES (Macro pass) = none
                  -------------------------------------------------------------------
```

Table 13.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHA04DS	Autoinstall statistics (Global)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A04LEN	Length of data area
(0)	SIGNED	0	A04IDE	"0024" Autoinstall global stats mask
(2)	ADDRESS	2	A04ID	Autoinstall global storage id
(2)	BITSTRING	0	A04VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A04DVERS	stats version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	A04VADAT	Total attempts
(C)	HALFWORD	2	A04VADSH	Times setlogon hold issued
(E)	CHARACTER	2		Reserved

Table 13. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	FULLWORD	4	A04VADRJ	Total rejected
(14)	FULLWORD	4	A04VADLO	Total deleted
(18)	HALFWORD	2	A04VADPK	Peak concurrent attempts
(1A)	HALFWORD	2	A04VADPX	Times peak reached
(1C)	FULLWORD	4	A04VADQT	No. queued logons
(20)	HALFWORD	2	A04VADQK	Peak of Q'd logons
(22)	HALFWORD	2	A04VADQX	No. times peak is reached
Remote statistics – shipped definitions				
(24)		4	A04RDINT	Shipped delete interval
(28)		4	A04RDIDL	Shipped delete idle time
(2C)	FULLWORD	4	A04SKBLT	Remote terminals built
(30)	FULLWORD	4	A04SKINS	Remote terminals installed
(34)	FULLWORD	4	A04SKDEL	Remote terminals deleted
(38)	FULLWORD	4	A04TIEXP	Times interval expired
(3C)	FULLWORD	4	A04RDREC	# remdels received
(40)	FULLWORD	4	A04RDISS	# remdels issued
(44)	FULLWORD	4	A04RDDEL	# remdel deletes
(48)	FULLWORD	4	A04CIDCT	Current idle count
(4C)	CHARACTER	8	A04CIDLE	Current idle time
(54)	CHARACTER	8	A04CMAXI	Current maximum idle time
(5C)	FULLWORD	4	A04TIDCT	Total idle count
(60)	CHARACTER	8	A04TIDLE	Total idle time
(68)	CHARACTER	8	A04TMAXI	Maximum idle time
(68)		0	A04END	"*"
(68)		0	A04CLEN	"*-A04LEN" Length of DSECT

A06 Terminal statistics

```
CONTROL BLOCK NAME = DFHA06DS
DESCRIPTIVE NAME  = CICS Terminal Statistics.
   @BANNER_START 02
                        DFHA06DS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = This DSECT describes the terminal statistics maintained
```

```
                       in the AP domain.
                       The data represents the statistics maintained for each
                       terminal. It is used by DFHAPST to map the data in the
                       statistics domain call data buffer. It is also used
                       by DFHSTUP and user programs to map the same data.
                  LIFETIME = Duration of the domain call.
                  LOCATION = Caller is passed a pointer to the head of the block.
                  INNER CONTROL BLOCKS = None
                  NOTES :
                     DEPENDENCIES = S/370
                     RESTRICTIONS = none
                     MODULE TYPE = Control block definition
                 -------------------------------------------------------------------
                  EXTERNAL REFERENCES = None
                     DATA AREAS = None
                     CONTROL BLOCKS = DFHTCTTE TCTLENP
                                      DFHTCTTE TCTTETI
                                      DFHTCTTE TCTTENI
                                      DFHTCTTE TCTTETO
                                      DFHTCTTE TCTTETE
                                      DFHTCTTE TCTTEOT
                                      DFHTCTTE TCTTEOE
                                      DFHTCTTE TCTTESVC
                                      DFHTCTTE TCTETCNT
                                      DFHTCTTE TCTEMCNT
                                      DFHTCTTE TCTECCNT
                                      DFHTCTTE TCTTETT
                                      DFHTCTTE TCTEAMIB
                     GLOBAL VARIABLES (Macro pass) = None
                 -------------------------------------------------------------------
```

Table 14.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHA06DS	Terminal Stats DSECT (RESID & TOTAL)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A06LEN	Length of data area
(0)	SIGNED	0	A06IDR	"34" Terminal RESID stats id mask
(0)	SIGNED	0	A06IDL	"82" BTAM line stats id mask.
The next field should be loaded with one of the two previous values				
(2)	ADDRESS	2	A06ID	Terminal stats id
(2)	BITSTRING	0	A06VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A06DVERS	Terminal statistics version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	4	A06TETI	Terminal id
(C)	BITSTRING	1	A06TETT	Terminal type (cf TCTTTET)
(D)	BITSTRING	1	A06EAMIB	Access method (cf TCTEAMIB)
(E)	CHARACTER	2		Reserved
(10)		4	A06LENP	Number of polls
(14)	BITSTRING	4	A06TENI	Input messages

Table 14. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	BITSTRING	4	A06TENO	Output messages
(1C)	BITSTRING	4	A06TEOT	Number of transactions
(20)	FULLWORD	4	A06CSVC	Storage violations
(24)	BITSTRING	4	A06TETE	Transmission errors
(28)	BITSTRING	4	A06TEOE	Transaction errors
(2C)	FULLWORD	4	A06TCNT	Pipeline messages (Total)
(30)	FULLWORD	4	A06SCNT	Pipeline messages (Groups)
(34)	HALFWORD	2	A06MCNT	Pipeline messages (Max consec)
(36)	HALFWORD	2		Reserved
(38)	CHARACTER	8	A06LUNAM	LU Name
(40)	CHARACTER	1	A06PRTY	Terminal Priority
(41)	CHARACTER	3		Reserved
(44)	FULLWORD	4	A06STG	TIOA Storage
(48)	CHARACTER	4	A06SYSID	Owning SYSID of terminal/session
(4C)	BITSTRING	8	A06ONTM	Autoinstall logon time (Local)
(54)	BITSTRING	8	A06OFFTM	Autoinstall logoff time (Local)
(5C)	BITSTRING	8	A06GONTM	Autoinstall logon time (GMT)
(64)	BITSTRING	8	A06GOFTM	Autoinstall logoff time (GMT)
(64)		0	A06END	"*"
(64)		0	A06CLEN	"*-A06LEN" Length of DSECT

A08 LSR pool statistics

```
CONTROL BLOCK NAME = DFHA08DS
DESCRIPTIVE NAME  = CICS Statistics for LSR Pools.
   @BANNER_START 02
                        DFHA08DS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = This data block describes the LSR Pool Statistics
           for a specified LSR Pool and totals for all pools.
           The data described here is placed in storage by DFHAPST.
           This DSECT is also used by DFHSTUP and user programs to
           to map the statistics block.
LIFETIME = The storage area is created when a request for AP
           domain File Control statistics is received. It is
           released when the caller has acknowledged receipt of
           the data.
```

```
           LOCATION = The caller is passed a pointer to the head of the block.
           INNER CONTROL BLOCKS = None
           NOTES :
              DEPENDENCIES = S/370
              RESTRICTIONS = None
              MODULE TYPE = Control block definition
           -------------------------------------------------------------------
           EXTERNAL REFERENCES = None
              DATA AREAS = None
              CONTROL BLOCKS = DFHFCTSR FCTSRPID
                               DFHFCSBK FSCBKCTD
                               DFHFCSBK FSCBKDTD
                               DFHFCSBK FCSBKKYL
                               DFHFCSBK FCSBKSTN
                               DFHFCSBK FCSBKHSW
                               DFHFCSBK FCSBKHAS
                               DFHFCSBK FCSBKBSZ
                               DFHFCSBK FCSBKBFN
                               DFHFCSBK FCSBKBFF
                               DFHFCSBK FCSBKFRD
                               DFHFCSBK FCSBKUIW
                               DFHFCSBK FCSBKNUW
                 GLOBAL VARIABLES (Macro pass) = None
           -------------------------------------------------------------------
```

Table 15.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHA08DS	LSRPOOL statistics (RESID & TOTALS)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A08LEN	Length of data area
(0)	SIGNED	0	A08IDR	"39" LSR pool stats RESID id mask
The next field should be loaded with the previous value				
(2)	ADDRESS	2	A08ID	LSR pool id
(2)	BITSTRING	0	A08VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A08DVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(8)	ADDRESS	1	A08SRPID	LSR pool number
(9)	BITSTRING	1	A08FLAGS	Flags
(9)	BITSTRING	0	A08IDSEP	"X'80'" Separate index and data pools
(A)	CHARACTER	2		Reserved
(C)	CHARACTER	8	A08LBKCD	Time pool created (Local STCK)
(14)	CHARACTER	8	A08LBKDD	Time pool deleted (Local STCK)
(1C)	CHARACTER	8	A08GBKCD	Time pool created (GMT STCK)
(24)	CHARACTER	8	A08GBKDD	Time pool deleted (GMT STCK)
(2C)	HALFWORD	2	A08BKKYL	Max key length

Table 15. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2E)	HALFWORD	2	A08BKSTN	No. of strings
(30)	HALFWORD	2	A08BKHSW	Peak reqs waiting on string
(32)	HALFWORD	2		Reserved
(34)	FULLWORD	4	A08BKTSW	Total No. reqs waiting on string
(38)	HALFWORD	2	A08BKHAS	Peak No. conc active FC strings
(3A)	HALFWORD	2		Reserved
(3A)	SIGNED	0	A08NBS	"11" Number of buffer sizes
(3C)	FULLWORD	4	A08TOBFN_DATA	Total no. of data buffers
(40)	FULLWORD	4	A08TOHBN_DATA	Total data hiperspace buffs
(44)	FULLWORD	4	A08TOBFF_DATA	Total no. successful look asides
(48)	FULLWORD	4	A08TOFRD_DATA	Total no. buffer reads
(4C)	FULLWORD	4	A08TOUIW_DATA	Total no. user initiated writes
(50)	FULLWORD	4	A08TONUW_DATA	Total no. non-user initiated writes
(54)	FULLWORD	4	A08TOCRS_DATA	Total no. successful CREAD
(58)	FULLWORD	4	A08TOCWS_DATA	Total no. successful CWRITE
(5C)	FULLWORD	4	A08TOCRF_DATA	Total no. failing CREAD
(60)	FULLWORD	4	A08TOCWF_DATA	Total no. failing CWRITE
(64)	FULLWORD	4	A08TOBFN_INDX	Total no. of index buffers
(68)	FULLWORD	4	A08TOHBN_INDX	Total indx hiperspace buffs
(6C)	FULLWORD	4	A08TOBFF_INDX	Total no. successful look asides
(70)	FULLWORD	4	A08TOFRD_INDX	Total no. buffer reads
(74)	FULLWORD	4	A08TOUIW_INDX	Total no. user initiated writes
(78)	FULLWORD	4	A08TONUW_INDX	Total no. non-user initiated writes
(7C)	FULLWORD	4	A08TOCRS_INDX	Total no. successful CREAD
(80)	FULLWORD	4	A08TOCWS_INDX	Total no. successful CWRITE

Table 15. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)	FULLWORD	4	A08TOCRF_INDX	Total no. failing CREAD
(88)	FULLWORD	4	A08TOCWF_INDX	Total no. failing CWRITE
(88)		0	A08END	"*"
(88)		0	A08CLEN	"*-A08LEN" Length of common part of DSECT
(8C)	CHARACTER	1	A08BSTAT	Buffer size statistics for data and index buffers
(8C)		0	A08DLEN	"*-A08LEN" Length of DSECT

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

Table 16.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	A08BSSDS	Statistics by buffer size
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	ADDRESS	2	A08BKBSZ	Buffer size
(2)	HALFWORD	2	A08BKBFN	No. of buffers
(4)	FULLWORD	4	A08BKHBN	No. of hiperspace buffers
(8)	FULLWORD	4	A08BKBFF	No. successful look asides
(C)	FULLWORD	4	A08BKFRD	No. buffer reads
(10)	FULLWORD	4	A08BKUIW	No. user initiated buffer writes
(14)	FULLWORD	4	A08BKNUW	No. non-user initiated buffer writes
(18)	FULLWORD	4	A08BKCRS	No. successful CREAD
(1C)	FULLWORD	4	A08BKCWS	No. successful CWRITE
(20)	FULLWORD	4	A08BKCRF	No. failing CREAD
(24)	FULLWORD	4	A08BKCWF	No. failing CWRITE
(24)		0	A08BEND	"*" End of Buffer stats
(24)		0	A08BLEN	"*-A08BSSDS" Length of stats for a buffer size

A09 File specific statistics

```
            CONTROL BLOCK NAME = DFHA09DS
            DESCRIPTIVE NAME  = CICS File specific Statistics for
                                LSR Pools.
               @BANNER_START 02
                                    DFHA09DS
               Licensed Materials - Property of IBM
               "Restricted Materials of IBM"
               5655-S97
               @BANNER_END
            FUNCTION = This data block describes the LSR Pool file related
                       Statistics for a specified LSR Pool and totals for all
                       files in the pool.
                       The data described here is placed in storage by DFHAPST.
                       This DSECT is also used by DFHSTUP and user programs to
                       to map the statistics block.
            LIFETIME = The storage area is created when a request for AP
                       domain Transient data statistics is received. It is
                       released when the caller has acknowledged receipt of the
                       data.
            LOCATION = The caller is passed a pointer to the head of the block.
            INNER CONTROL BLOCKS = None
            NOTES :
               DEPENDENCIES = S/370
               RESTRICTIONS = None
               MODULE TYPE = Control block definition
            ------------------------------------------------------------------
            EXTERNAL REFERENCES = None
               DATA AREAS = None
               CONTROL BLOCKS = DFHFCTDS FCTDSDBN
                                DFHFCTDS FCTDSID
                                DFHFCTDS FCTDSIBN
                                DFHFCTDS FCTDSCBW
                                DFHFCTDS FCTDSHBW
                                DFHFCTDS FCTDSTBW
               GLOBAL VARIABLES (Macro pass) = None
            ------------------------------------------------------------------
```

Table 17.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHA09DS	LSRPOOL statistics (File specifics)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A09LEN	Length of data area
(0)	SIGNED	0	A09IDR	"40" LSR pool file stats RESID id mask
(0)	SIGNED	0	A09IDT	"41" LSR pool file stats TOTALS id mask
The next field should be loaded with one of the two previous values				
(2)	ADDRESS	2	A09ID	LSR pool id
(2)	BITSTRING	0	A09VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A09DVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(8)	HALFWORD	2	A09SRPID	LSR pool number

Table 17. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A)	CHARACTER	8	A09DSID	Filename
(12)	HALFWORD	2	A09DBN	Data buffer size
(14)	HALFWORD	2	A09IBN	Index buffer size
(16)	HALFWORD	2		Reserved
If this is a totals record only the next field contains data				
(18)	FULLWORD	4	A09TBW	Total buffer waits
(1C)	HALFWORD	2	A09HBW	Highest buffer waits
(1C)		0	A09END	"*"
(1C)		0	A09CLEN	"*-A09LEN" Length of DSECT

A14 ISC/IRC statistics

```
            CONTROL BLOCK NAME = DFHA14DS
            DESCRIPTIVE NAME  = CICS ISC/IRC Statistics - system entries.
               @BANNER_START 02
                                 DFHA14DS
               Licensed Materials - Property of IBM
               "Restricted Materials of IBM"
               5655-S97
               @BANNER_END
            FUNCTION = This DSECT describes ISC/IRC statistics.
                  The data described by this DSECT is placed in storage by
                  DFHSTLK, the statistics module in the AP domain.
                  It contains IRC Batch statistics.
                  The same DSECT describes the system and user copies of the
                  statistics. Several copies of the statistics may exist until
                  the callers request has been satisified.
                  Mode entry statistics are described in the DFHA20DS DSECT.
            LIFETIME = The storage area is created when a request for
                  ISC/IRC Stats is received. It is released
                  when the caller has acknowledged receipt of the data .
            LOCATION = Caller is passed a pointer to the storage.
            INNER CONTROL BLOCKS = none
            NOTES :
               DEPENDENCIES = S/370
               RESTRICTIONS = none
               MODULE TYPE = Control block definition
            -------------------------------------------------------------------
            EXTERNAL REFERENCES = none
               DATA AREAS = none
               CONTROL BLOCKS = DFHTCTTE TCTTETI
                                DFHTCTTE TCSEALL
                                DFHTCTTE TCSESALL
                                DFHTCTTE TCSEBID
                                DFHTCTTE TCSESTAM
                                DFHTCTTE TCSE1HWM
                                DFHTCTTE TCSE2HWM
                                DFHTCTTE TCSEBHWM
                                DFHTCTTE TCSES1
                                DFHTCTTE TCSES2
                                DFHTCTTE TCSESBID
                                DFHTCTTE TCSESTAS
                                DFHTCTTE TCSESTAQ
                                DFHTCTTE TCSESTAF
                                DFHTCTTE TCSESTAO
                                DFHTCTTE TCSESTFC
```

```
                              DFHTCTTE TCSESTIC
                              DFHTCTTE TCSESTTD
                              DFHTCTTE TCSESTTS
                              DFHTCTTE TCSESTDL
                              DFHTCTTE TCSESTTC
                              DFHTCTTE TCSEALRJ
                              DFHTCTTE TCSEQPCT
                              DFHTCTTE TCSEMXQT
                              DFHTCTTE TCSEALIM
                              DFHTCTTE TCSEMQPC
                              DFHTCTTE TCSEZQRJ
                              DFHTCTTE TCSEZQPU
                              DFHTCTTE TCSEZQPC
                              DFHTCTTE TCSESID
                              DFHTCTTE TCSACCM
                              DFHTCTTE TCSEFLGS
                              DFHTCTTE TCSESECN
                              DFHTCTTE TCSEPRMN
                              DFHTCTTE TCSE1RY
                              DFHTCTTE TCSE2RY
                    GLOBAL VARIABLES (Macro pass) = none
          -------------------------------------------------------------------
```

Table 18.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHA14DS	ISC/IRC statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A14LEN	Length of data area
(0)	SIGNED	0	A14IDR	"0052" ISC/IRC RESID stats mask
(0)	SIGNED	0	A14IDT	"0053" ISC/IRC Stats Totals Mask
The next field should be loaded to one of the two previous values				
(2)	ADDRESS	2	A14ID	ISC/IRC id
(2)	BITSTRING	0	A14VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A14DVERS	ISC/IRC stats version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	4	A14CNTN	Connection name
(C)	HALFWORD	2	A14EALL	Aids in chain
(E)	HALFWORD	2	A14ESALL	Generic AIDS in chain
(10)	HALFWORD	2	A14EBID	Current bids
(12)	HALFWORD	2	A14ESTAM	Max outstanding allocates
(14)	HALFWORD	2	A14E2HWM	Max secondaries
(16)	HALFWORD	2	A14EBHWM	Max bids
(18)	FULLWORD	4	A14ES1	ATIs satisfied by primaries
(1C)	FULLWORD	4	A14ES2	ATIs satisfied by secondaries
(20)	FULLWORD	4	A14ESBID	Bids sent

Table 18. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	FULLWORD	4	A14ESTAS	Total allocates
(28)	FULLWORD	4	A14ESTAQ	Queued allocates
(2C)	FULLWORD	4	A14ESTAF	Failed link allocates
(30)	FULLWORD	4	A14ESTAO	Failed - other reasons
(34)	FULLWORD	4	A14ESTFC	File control function shipping reqs
(38)	FULLWORD	4	A14ESTIC	Intv control function shipping reqs
(3C)	FULLWORD	4	A14ESTTD	TD function shipping reqs
(40)	FULLWORD	4	A14ESTTS	TS function shipping reqs
(44)	FULLWORD	4	A14ESTDL	DL/I function shipping reqs
(48)	FULLWORD	4	A14ESTTC	Terminal sharing reqs
(4C)	HALFWORD	2	A14E1HWM	Max primaries
(4E)	HALFWORD	2	A14EQPCT	MAXQTIME purge count
(50)	FULLWORD	4	A14EALRJ	Allocates rejected (QLIMIT)
(54)	HALFWORD	2	A14EMXQT	Max queue time
(56)	HALFWORD	2	A14EALIM	Allocate queue limit
(58)	FULLWORD	4	A14EZQRJ	XZIQUE rejects
(5C)	HALFWORD	2	A14EZQPU	XZIQUE purge count
(5E)	HALFWORD	2	A14EZQPC	XZIQUE allocates purged
(60)	HALFWORD	2	A14EMQPC	MAXQTIME allocates purged
(62)	CHARACTER	6		Reserved
(68)	DBL WORD	8	A14GACT	AI GMT conn create time
(70)	DBL WORD	8	A14AICT	AI conn create time
(78)	DBL WORD	8	A14GADT	AI GMT conn delete time
(80)	DBL WORD	8	A14AIDT	AI conn delete time
(88)	FULLWORD	4		Reserved
(8C)	CHARACTER	8	A14ESID	Connection netname
(94)	BITSTRING	1	A14ACCM	Access method
(95)	BITSTRING	1	A14EFLGS	Protocol
(96)	HALFWORD	2	A14ESECN	Send session count
(98)	HALFWORD	2	A14EPRMN	Receive session count
(9A)	HALFWORD	2	A14E1RY	Primaries currently used

Table 18. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9C)	HALFWORD	2	A14E2RY	Secondaries currently used
(9E)	CHARACTER	2		Reserved
(A0)	FULLWORD	4	A14ESTPC	Program Control funct ship reqs
(A4)	FULLWORD	4	A14ESTPC_CHANNEL	Program Control FS Channel reqs
(A8)	BITSTRING	8	A14ESTPC_ CHANNEL_SENT	
				Bytes sent PC FS Channel reqs
(B0)	BITSTRING	8	A14ESTPC_ CHANNEL_RCVD	
				Bytes received PC FS Channel reqs
(B8)	FULLWORD	4	A14ESTTC_CHANNEL	Terminal Sharing Channel reqs
(BC)	BITSTRING	8	A14ESTTC_ CHANNEL_SENT	
				Bytes sent Term Sharing Channel
(C4)	BITSTRING	8	A14ESTTC_ CHANNEL_RCVD	
				Bytes received Term Sharing Channel
(CC)	FULLWORD	4	A14ESTIC_CHANNEL	Interval Control FS Channel reqs
(D0)	BITSTRING	8	A14ESTIC_ CHANNEL_SENT	
				Bytes sent IC FS Channel reqs
(D8)	BITSTRING	8	A14ESTIC_ CHANNEL_RCVD	
				Bytes received IC FS Channel reqs
(E0)	CHARACTER	8	A14_DEFINE_ SOURCE	Group installed from
(E8)	BITSTRING	8	A14_CHANGE_TIME	Change/create time
(F0)	CHARACTER	8	A14_CHANGE_ USERID	Change userid
(F8)	BITSTRING	2	A14_CHANGE_AGENT	Change agent
(FA)	BITSTRING	2	A14_INSTALL_ AGENT	Install agent
(FC)	BITSTRING	8	A14_INSTALL_TIME	Install/Create time
(104)	CHARACTER	8	A14_INSTALL_ USERID	Install userid

Table 18. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(104)		0	A14END	"*"
(104)		0	A14CLEN	"*-A14LEN" Length of DSECT
Equates for testing A14ACCM. (Access Method)				
(104)	SIGNED	0	A14VTAM	"1"
(104)	SIGNED	0	A14IRC	"2"
(104)	SIGNED	0	A14XM	"3"
(104)	SIGNED	0	A14XCF	"4"
Equates for testing A14EFLGS. (Protocol)				
(104)	SIGNED	0	A14APPC	"1"
(104)	SIGNED	0	A14LU61	"2"
(104)	SIGNED	0	A14EXCI	"3"
The following values relate to the RDO audit information Change Agents				
(104)	SIGNED	0	A14_CSDAPI_ CHANGE	"0001" CSD API
(104)	SIGNED	0	A14_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(104)	SIGNED	0	A14_DREPAPI_ CHANGE	"0003" DREP API
(104)	SIGNED	0	A14_CREATE_ CHANGE	"0004" EXEC CREATE SPI
(104)	SIGNED	0	A14_AUTOINSTALL_ CHANGE	
				"0006" AUTOINSTALL Install Agents
(104)	SIGNED	0	A14_CSDAPI_ INSTALL	"0001" CSD API
(104)	SIGNED	0	A14_CREATE_ INSTALL	"0004" EXEC CREATE SPI
(104)	SIGNED	0	A14_GRPLIST_ INSTALL	
				"0005" GRPLIST
(104)	SIGNED	0	A14_AUTOINSTALL_ INSTALL	
				"0006" AUTOINSTALL

A16 Table manager statistics

```
CONTROL BLOCK NAME = DFHA16DS
DESCRIPTIVE NAME  = CICS Statistics for Table manager
   @BANNER_START 02
                        DFHA16DS
```

```
                    Licensed Materials - Property of IBM
                    "Restricted Materials of IBM"
                    5655-S97
                    @BANNER_END
              FUNCTION = This data block describes the global table manager
                         Statistics.
                         The data described here is placed in storage by DFHAPST
                         This DSECT is also used by DFHSTUP and user programs to
                         to map the statistics block.
              LIFETIME = The storage area is created when a request for AP
                         domain Table manager statistics is received. It is
                         released when the caller has acknowledged receipt of the
                         data.
              LOCATION = The caller is passed a pointer to the head of the block.
              INNER CONTROL BLOCKS = None
              NOTES :
                 DEPENDENCIES = S/370
                 RESTRICTIONS = None
                 MODULE TYPE = Control block definition
              ------------------------------------------------------------------
              EXTERNAL REFERENCES = None
                 DATA AREAS = None
                 CONTROL BLOCKS = DFHTMSKT SKTNUMDS
                                  DFHTMSKT SKTLNTH
                                  DFHTMSKT SKTINFO
                                  DFHTMSSA TMNDESG
                 GLOBAL VARIABLES (Macro pass) = None
              ------------------------------------------------------------------
```

Table 19.

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

```
              The following section is repeated for each of the 17 tables
```

Table 20.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	A16STATS	Stats for each table
(0)	CHARACTER	4	A16TNAM	Table name
(4)	FULLWORD	4	A16TSIZE	Table size
(4)		0	A16SEND	"*"

Table 20. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)		0	A16SCLEN	"*-A16STATS" Length of DSECT

A17 File control statistics

```
              CONTROL BLOCK NAME = DFHA17DS
              DESCRIPTIVE NAME  = CICS File control Statistics
                 @BANNER_START 02
                                   DFHA17DS
                 Licensed Materials - Property of IBM
                 "Restricted Materials of IBM"
                 5655-S97
                 @BANNER_END
              FUNCTION = This DSECT describes File Control statistics.
                      The data described by this DSECT is placed in storage by
                      DFHAPST, the statistics module in the AP domain.
                      It contains File Control statistics.
                      The same DSECT describes the system and user copies of the
                      statistics. Several copies of the statistics may exist until
                      the callers request has been satisified.
              LIFETIME = The storage area is created when a request for
                      file control global stats is received. It is released when
                      the caller has acknowledged receipt of the data .
              LOCATION = Caller is passed a pointer to the storage.
              INNER CONTROL BLOCKS = none
              NOTES :
                 DEPENDENCIES = S/370
                 RESTRICTIONS = none
                 MODULE TYPE = Control block definition
              -------------------------------------------------------------------
              EXTERNAL REFERENCES = none
                 DATA AREAS = none
                 CONTROL BLOCKS = DFHFCTDS FCTDSRD
                                  DFHFCTDS FCTDSGU
                                  DFHFCTDS FCTDSBR
                                  DFHFCTDS FCTDSWRA
                                  DFHFCTDS FCTDSWRU
                                  DFHFCTDS FCTDSDEL
                                  DFHFCTDS FCTRMDEL
                                  DFHFCTDS FCTDSXCP
                                  DFHFCTDS FCTDSIXP
                 GLOBAL VARIABLES (Macro pass) = none
              -------------------------------------------------------------------
                                      CHAR(8)
```

Table 21.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHA17DS	File control statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A17LEN	Length of data area
(0)	SIGNED	0	A17IDR	"0067" File control stats mask
The next field should be loaded with the previous value.				
(2)	ADDRESS	2	A17ID	File control id
(2)	BITSTRING	0	A17VERS	"X'01'" DSECT version number mask

Table 21. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	CHARACTER	1	A17DVERS	File stats version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	A17FNAM	File name
(10)	CHARACTER	1	A17FLOC	Set to "R" if remote
(11)	CHARACTER	1	A17DT	Set to "R","S","T","L","K" or "X" if data table fields present
(11)	CHARACTER	0	A17DTRMT	"C'R'" Table fields for remote table
(11)	CHARACTER	0	A17DTASS	"C'S'" Table fields for associated file
(11)	CHARACTER	0	A17DTPRS	"C'T'" SDT fields present
(11)	CHARACTER	0	A17DTCFL	"C'L' Coupling Facility data table fields " present(locking model)
(11)	CHARACTER	0	A17DTCFC	"C'K'" Coupling Facility data table fields present(contention model)
(11)	CHARACTER	0	A17DTAIX	"C'X'" Table fields for updates via AIX
(12)	CHARACTER	1	A17DSRLS	RLS/Non-RLS Indicator "R" = RLS mode blank = non-RLS mode
(12)	CHARACTER	0	A17RLS	"C'R'" RLS file
(12)	CHARACTER	0	A17NORLS	"C' '" non-RLS file
(13)	CHARACTER	5		Reserved
(18)		4	RESFLD1	Reserved
(1C)		4	RESFLD2	Reserved
(20)	CHARACTER	44	A17DSNAM	Dataset name
(4C)	FULLWORD	4	A17DSRD	GET requests
(50)	FULLWORD	4	A17DSGU	GET update requests
(54)	FULLWORD	4	A17DSBR	BROWSE requests
(58)	FULLWORD	4	A17DSWRA	ADD requests
(5C)	FULLWORD	4	A17DSWRU	UPDATE requests
(60)	FULLWORD	4	A17DSDEL	DELETE requests
(64)	FULLWORD	4		Reserved
(68)	FULLWORD	4	A17DSXCP	VSAM EXCP requests - data

Table 21. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6C)	FULLWORD	4	A17DSIXP	VSAM EXCP requests - index
(70)	FULLWORD	4	A17DSTSW	Wait on string total
(74)	HALFWORD	2	A17DSHSW	Wait on string highest
(76)	HALFWORD	2		Reserved
(78)	CHARACTER	1	A17DTTYP	Set to "C","S","U","X","L" or "K" for close
(78)	CHARACTER	0	A17DTTC	"C'C'" CICS maintained table close
(78)	CHARACTER	0	A17DTTS	"C'S'" USER table source close
(78)	CHARACTER	0	A17DTTP	"C'P'" CICS table partial close
(78)	CHARACTER	0	A17DTTU	"C'U'" USER maintained table close
(78)	CHARACTER	0	A17DTTL	"C'L' Coupling Facility table close @L8C" (locking model)
(78)	CHARACTER	0	A17DTTK	"C'K'" Coupling Facility table close (contention model)
(79)	CHARACTER	3		Reserved
(7C)	FULLWORD	4	A17DTRDS	Read/browse requests
(80)	FULLWORD	4	A17DTRNF	Source reads issued
(84)	FULLWORD	4	A17DTAVR	ADDs resulting from READs
(88)	FULLWORD	4	A17DTADS	ADD requests
(8C)	FULLWORD	4	A17DTARJ	ADDs rejected by exit
(90)	FULLWORD	4	A17DTATF	ADDs when table full
(94)	FULLWORD	4	A17DTRWS	REWRITE requests
(98)	FULLWORD	4	A17DTDLS	DELETE requests
(9C)	FULLWORD	4	A17DTSHI	Highest table record count
(A0)	FULLWORD	4	A17DTSIZ	Current table record count
(A4)	FULLWORD	4	A17DTALT	Storage allocated - total (KB)
(A8)	FULLWORD	4	A17DTUST	Storage in-use - total (KB)
(AC)	FULLWORD	4	A17DTALE	Storage allocated - entries (KB)

Table 21. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	FULLWORD	4	A17DTUSE	Storage in-use - entries (KB)
(B4)	FULLWORD	4	A17DTALI	Storage allocated - index (KB)
(B8)	FULLWORD	4	A17DTUSI	Storage in-use - index (KB)
(BC)	FULLWORD	4	A17DTALD	Storage allocated - data (KB)
(C0)	FULLWORD	4	A17DTUSD	Storage in-use - data (KB)
(C4)	FULLWORD	4	A17DTRRS	Read Retries for a SDT
(C8)	HALFWORD	2	A17DSDNB	No Buffers - Data
(CA)	HALFWORD	2	A17DSINB	No Buffers - Index
(CC)	BITSTRING	1	A17POOL	LSRPOOL Id
(CD)	BITSTRING	1		Reserved
(CE)	HALFWORD	2	A17STRNO	No Strings
(D0)	CHARACTER	8	A17RNAME	Remote Name
(D8)	CHARACTER	4	A17RSYS	Remote Sysid
(DC)	CHARACTER	1	A17DSTYP	Dataset Type
(DD)	CHARACTER	3		Reserved
(E0)	CHARACTER	44	A17BDSNM	Base Dataset Name
(10C)	HALFWORD	2	A17DSASC	No Active Strings
(10E)	HALFWORD	2	A17DSASW	No String Waits
(110)	CHARACTER	8	A17LOPNT	File open time (Local STCK)
(118)	CHARACTER	8	A17LCLST	File close time (Local STCK)
(120)	CHARACTER	8	A17GOPNT	File open time (GMT STCK)
(128)	CHARACTER	8	A17GCLST	File close time (GMT STCK)
(130)	FULLWORD	4	A17DSBRU	Browse for update count
(134)	FULLWORD	4	A17RLSWT	RLS request wait timeouts
(138)	FULLWORD	4	A17DTCON	Number of CHANGED responses for a CFDT using contention, number of lock waits for a CFDT using locking.
(13C)	CHARACTER	8	A17DTCFP	Coupling Facility Data Table Pool Name

Table 21. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(144)	FULLWORD	4	A17DTLDS	Number of LOADING responses
(148)	FULLWORD	4	A17FCXCC	No Exclusive Control Conflicts
(14C)	CHARACTER	8	A17_FILE_ DEFINE_SOURCE	
				Group installed from
(154)	BITSTRING	8	A17_FILE_ CHANGE_TIME	
				Change/create time
(15C)	CHARACTER	8	A17_FILE_ CHANGE_USERID	
				Change userid
(164)	BITSTRING	2	A17_FILE_ CHANGE_AGENT	
				Change agent
(166)	BITSTRING	2	A17_FILE_ INSTALL_AGENT	
				Install agent
(168)	BITSTRING	8	A17_FILE_ INSTALL_TIME	
				Install/Create time
(170)	CHARACTER	8	A17_FILE_ INSTALL_USERID	
				Install userid
(170)		0	A17END	"*"
(170)		0	A17CLEN	"*-A17LEN" Length of DSECT
Equates to test A17_FILE_CHANGE_AGENT				
(170)	BITSTRING	0	A17_FILE_ CSDAPI_CHANGE	
				"X'01'" Change Agent - CSD API
(170)	BITSTRING	0	A17_FILE_ CSDBATCH_CHANGE	
				"X'02'" Change Agent - DFHCSDUP
(170)	BITSTRING	0	A17_FILE_ DREPAPI_CHANGE	
				"X'03'" Change Agent - DREP API
(170)	BITSTRING	0	A17_FILE_ CREATE_CHANGE	
				"X'04'" Change Agent - CREATE SPI

Table 21. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(170)	BITSTRING	0	A17_FILE_ SYSTEM_CHANGE	
				"X'07'" Change Agent - SYSTEM
(170)	BITSTRING	0	A17_FILE_ TABLE_CHANGE	
				"X'0A'" Change Agent - TABLE
Equates to test A17_FILE_INSTALL_AGENT				
(170)	BITSTRING	0	A17_FILE_ CSDAPI_INSTALL	
				"X'01'" Install Agent - CSD API
(170)	BITSTRING	0	A17_FILE_ CREATE_INSTALL	
				"X'04'" Install Agent - CREATE SPI
(170)	BITSTRING	0	A17_FILE_ GRPLIST_INSTALL	
				"X'05'" Install Agent - GRPLIST
(170)	BITSTRING	0	A17_FILE_ SYSTEM_INSTALL	
				"X'07'" Install Agent - SYSTEM
(170)	BITSTRING	0	A17_FILE_ TABLE_INSTALL	
				"X'0A'" Install Agent - TABLE

A20 ISC/IRC mode entry statistics

```
CONTROL BLOCK NAME = DFHA20DS
DESCRIPTIVE NAME  = CICS ISC/IRC Statistics - mode entries.
   @BANNER_START 02
                        DFHA20DS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = This DSECT describes ISC/IRC mode entry statistics.
        The data described by this DSECT is placed in storage by
        DFHSTLK, the statistics module in the AP domain.
        It contains IRC mode entry statistics.
        The same DSECT describes the system and user copies of the
        statistics. Several copies of the statistics may exist until
        the callers request has been satisified.
        System entry statistics are described in the DFHA14DS DSECT.
LIFETIME = The storage area is created when a request for ISC/IRC
        mode entry stats is received. It is released
        when the caller has acknowledged receipt of the data .
LOCATION = Caller is passed a pointer to the storage.
```

```
                    INNER CONTROL BLOCKS = none
                    NOTES :
                       DEPENDENCIES = S/370
                       RESTRICTIONS = none
                       MODULE TYPE = Control block definition
                 -------------------------------------------------------------------
                    EXTERNAL REFERENCES = none
                        DATA AREAS = none
                        CONTROL BLOCKS = DFHTCTTE TCMEBID
                                        DFHTCTTE TCMESTAM
                                        DFHTCTTE TCME1HWM
                                        DFHTCTTE TCME2HWM
                                        DFHTCTTE TCMEBHWM
                                        DFHTCTTE TCMES1
                                        DFHTCTTE TCMES2
                                        DFHTCTTE TCMESBID
                                        DFHTCTTE TCMESTAS
                                        DFHTCTTE TCMESTAQ
                                        DFHTCTTE TCMESTAF
                                        DFHTCTTE TCMESTAG
                                        DFHTCTTE TCMESTAP
                                        DFHTCTTE TCMESTAO
                                        DFHTCTTE TCMESTFC
                                        DFHTCTTE TCMESTIC
                                        DFHTCTTE TCMESTTD
                                        DFHTCTTE TCMESTTS
                                        DFHTCTTE TCMESTDL
                                        DFHTCTTE TCMESTTC
                                        DFHTCTTE TCMEMODE
                                        DFHTCTTE TCTETTI
                                        DFHTCTTE TCMEZQPC
                                        DFHTCTTE TCMELMAX
                                        DFHTCTTE TCMEMCON
                                        DFHTCTTE TCMEMAXS
                                        DFHTCTTE TCMECONW
                                        DFHTCTTE TCMECONL
                                        DFHTCTTE TCME1RY
                                        DFHTCTTE TCME2RY
                        GLOBAL VARIABLES (Macro pass) = none
                 -------------------------------------------------------------------
```

Table 22.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHA20DS	ISC/IRC mode entry statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A20LEN	Length of data area
(0)	SIGNED	0	A20IDR	"0076" ISC/IRC RESID mode entry stats mask
(0)	SIGNED	0	A20IDT	"0077" ISC/IRC Stats Totals mask
The next field should be loaded to one of the two previous values				
(2)	ADDRESS	2	A20ID	ISC/IRC mode entry id
(2)	BITSTRING	0	A20VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A20DVERS	ISC/IRC mode entry stats vers No.

Table 22. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	4	A20SYSN	System name
(C)	CHARACTER	8	A20MODE	Mode name
(14)	HALFWORD	2	A20ESTAM	Max outstanding allocates
(16)	HALFWORD	2	A20E2HWM	Max secondaries
(18)	HALFWORD	2	A20EBHWM	Max bids
(1A)	HALFWORD	2	A20E1HWM	Peak contention losers
(1C)	FULLWORD	4	A20ES1	ATIs satisfied by primaries
(20)	FULLWORD	4	A20ES2	ATIs satisfied by secondaries
(24)	FULLWORD	4	A20ESBID	Bids sent
(28)	FULLWORD	4	A20ESTAS	Total allocates
(2C)	FULLWORD	4	A20ESTAQ	Queued allocates
(30)	FULLWORD	4	A20ESTAF	Failed link allocates
(34)	FULLWORD	4	A20ESTAO	Failed - other reasons
(38)	FULLWORD	4	A20ESTAG	Generic allocates
(3C)	FULLWORD	4	A20ESTAP	Specific allocates
(40)	HALFWORD	2	A20EBID	Current bids
(42)	HALFWORD	2	A20EQPCT	XZIQUE purge count
(44)	HALFWORD	2	A20EZQPC	XZIQUE allocates purged
(46)	HALFWORD	2	A20ELMAX	Max session count
(48)	HALFWORD	2	A20EMCON	Max contention winners acceptable
(4A)	HALFWORD	2	A20EMAXS	Current Max session count
(4C)	HALFWORD	2	A20ECONW	Current CNOS contention winners
(4E)	HALFWORD	2	A20ECONL	Current CNOS contention losers
(50)	HALFWORD	2	A20E1RY	Primaries currently used
(52)	HALFWORD	2	A20E2RY	Secondaries currently used
(52)		0	A20END	"*"
(52)		0	A20CLEN	"*-A20LEN" Length of DSECT

A21 ISC LUIT & SNA management statistics

```
                    CONTROL BLOCK NAME = DFHA21PS
                    DESCRIPTIVE NAME  = CICS/ESA ISC statistics - LUIT management
                     @BANNER_START 02
                                        DFHA21PS
                     Licensed Materials - Property of IBM
                     "Restricted Materials of IBM"
                     5655-S97
                     @BANNER_END
                    FUNCTION = This copybook describes ISC statistics associated
                          with Persistent Verification and management of entries in
                          the LUIT tables.
                          The data described by this copybook is placed in storage
                          by DFHSTLK, one of the statistics modules in the AP Domain.
                              DOMAIN. DELETED BY APAR
                          The same copybook describes the system and user copies of
                          the statistics. Several copies of the statistics may
                          exist in the system until the caller's request has been
                          satisfied.
                    LIFETIME = The storage area is created when a request for
                          ISC stats is received. It is released when the caller has
                          acknowledged receipt of the data.
                    LOCATION = Caller is passed a pointer to the storage
                    INNER CONTROL BLOCKS = none
                    NOTES :
                     DEPENDENCIES = S/370
                     RESTRICTIONS = none
                     MODULE TYPE = Control block definition
                    ------------------------------------------------------------------
                    EXTERNAL REFERENCES = none
                      DATA AREAS = none
                      CONTROL BLOCKS = DFHCSAPS CSA_LTIME
                                       DFHCSAPS CSA DELETED BY APAR
                                       DFHSNSTA SNT DELETED BY APAR
                                       DFHSNSTA SNT DELETED BY APAR
                                       DFHSNSTA SNT DELETED BY APAR
                                     DFHSNSTA LUIT_TOTAL_REUSES
                                     DFHSNSTA LUIT_TOTAL_TIMEOUTS
                                     DFHSNSTA LUIT_AV_REUSE_TIME
                    GLOBAL VARIABLES (Macro pass) = None
                    ------------------------------------------------------------------
```

Table 23.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	DFHA21PS	ISC Statistics
(0)	HALFWORD	2	A21_STATS_LENGTH	Length of data area
(2)	HALFWORD	2	A21_STATS_ID	Statistics id
(4)	UNSIGNED	1	A21_STATS_ VERSION	Stats version number
(5)	UNSIGNED	3	*	Reserved
(8)	UNSIGNED	2	*	Reserved
(A)	HALFWORD	2	A21_SIT_ LUIT_TIME	Delay time for LUIT table
(C)	FULLWORD	4	*	Reserved
DELETED BY APAR				
(10)	FULLWORD	4	*	Reserved
DELETED BY APAR				

Table 23. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	FULLWORD	4	*	Reserved
DELETED BY APAR				
(18)	FULLWORD	4	A21_LUIT_ TOTAL_REUSES	
				Total number of entries * * reused in LUIT table
(1C)	FULLWORD	4	A21_LUIT_ TOTAL_TIMEOUTS	
				Total number of entries * * timed out in LUIT table
(20)	FULLWORD	4	A21_LUIT_ AV_REUSE_TIME	
				Average reuse time between * * entries in the LUIT table

Constants

Table 24.

Len	Type	value	Name	Description
Constants defining record contents				
1	HEX	01	A21_STATS_ DCL_VERSION	
				Version number
2	DECIMAL	54	A21_STATS_DCL_RESID	Stats id (RESID)

A22 FEPI pool statistics

```
CONTROL BLOCK NAME = DFHA22DS
DESCRIPTIVE NAME  = CICS FEPI pool statistics
   @BANNER_START 02

                     DFHA22DS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This data block describes the block of storage containing
      the statistics for a FEPI pool.
      The data described by this DSECT is placed in storage by
      DFHAPST, the statistics module in the AP domain.
      The same DSECT describes the system and user copies of the
      statistics. Several copies of the statistics may exist until
      the callers request has been satisified.
LIFETIME = The storage area is created when a request for
      FEPI pool stats is received. It is released when
      the caller has acknowledged receipt of the data .
STORAGE CLASS =
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
```

```
            DEPENDENCIES = S/370
            RESTRICTIONS = none
            MODULE TYPE = Control block definition
      ----------------------------------------------------------------
        EXTERNAL REFERENCES = none
            DATA AREAS = none
            CONTROL BLOCKS = in the FEPI RM
            GLOBAL VARIABLES (Macro pass) = none
      ----------------------------------------------------------------
        ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHA22DS IS
        NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
        PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 25.

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

A23 FEPI connection statistics

```
CONTROL BLOCK NAME = DFHA23DS
DESCRIPTIVE NAME  = CICS FEPI connection statistics
   @BANNER_START 02

                         DFHA23DS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This data block describes the block of storage containing
      the statistics for a FEPI connection.
      The data described by this DSECT is placed in storage by
      DFHAPST, the statistics module in the AP domain.
      The same DSECT describes the system and user copies of the
      statistics. Several copies of the statistics may exist until
      the callers request has been satisified.
LIFETIME = The storage area is created when a request for
      FEPI connection stats is received. It is released when
      the caller has acknowledged receipt of the data .
STORAGE CLASS =
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = none
   DATA AREAS = none
   CONTROL BLOCKS = in the FEPI RM
   GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHA23DS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 26.

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

Table 26. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	FULLWORD	4	A23CNV	# conversations
(28)	FULLWORD	4	A23USI	# unsolicited inputs received
(2C)	FULLWORD	4	A23CHOUT	# characters sent on connection
(30)	FULLWORD	4	A23CHIN	# characters received on connection
(34)	FULLWORD	4	A23RTOUT	# receive timeouts
(38)	FULLWORD	4	A23ERROR	# error conditions
(38)		0	A23END	"*"
(38)		0	A23CLEN	"*-A23LEN" Length of DSECT

A24 FEPI target statistics

```
CONTROL BLOCK NAME = DFHA24DS
DESCRIPTIVE NAME  = CICS FEPI target statistics
   @BANNER_START 02
                          DFHA24DS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
       This data block describes the block of storage containing
       the statistics for a FEPI target.
       The data described by this DSECT is placed in storage by
       DFHAPST, the statistics module in the AP domain.
       The same DSECT describes the system and user copies of the
       statistics. Several copies of the statistics may exist until
       the callers request has been satisified.
LIFETIME = The storage area is created when a request for
       FEPI target stats is received. It is released when
       the caller has acknowledged receipt of the data .
STORAGE CLASS =
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
 -------------------------------------------------------------------
 EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = in the FEPI RM
    GLOBAL VARIABLES (Macro pass) = none
 -------------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHA24DS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 27.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHA24DS	FEPI target statistics
(0)	FULLWORD	4	(0)	Fullword alignment

Table 27. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	A24LEN	Length of data area
(0)	SIGNED	0	A24IDR	"0018" FEPI target RESID stats mask
(2)	ADDRESS	2	A24ID	FEPI target id
(2)	BITSTRING	0	A24VERS	"X'01'" DSECT version number
(4)	CHARACTER	1	A24DVERS	Target statistics version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	8	A24TARG	Target name
(10)	CHARACTER	8	A24POOL	Pool name
(18)	CHARACTER	8	A24APPL	Applid
(20)	FULLWORD	4	A24NDCT	# nodes
(24)	FULLWORD	4	A24ALLOC	# conversation allocates
(28)	FULLWORD	4	A24TOTWT	Total # allocates waited
(2C)	FULLWORD	4	A24WAIT	Current # allocates waiting
(30)	FULLWORD	4	A24PKWT	Peak # allocates waiting
(34)	FULLWORD	4	A24TIOUT	# allocates that timed out
(34)		0	A24END	"*"
(34)		0	A24CLEN	"*-A24LEN" Length of DSECT

AFCB Authorized function blocks

```
CONTROL BLOCK NAME = DFHAFCB/AFTSTART/DFHAFCS.
DESCRIPTIVE NAME  = CICS (SVC) Authorised Function Blocks.
 @BANNER_START 02
                      DFHAFCP
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = AUTHORISED FUNCTION CONTROL BLOCK.
  The CICS AFCB/AFT/AFCS structure consists of three types
  of control block:
  1. The AFCS. One per CICS Address Space.
     Addressed from AFTAFCS.
  2. The AFCB/AFT. One per authorised TCB.
     Addressed from TCBCAUF.
  In a Version 3 AFCB, what was previously the AFCB trailer
  at a variable offset from the AFCB, is now a prolog at a
  fixed negative offset, which can be addressed using "long
  displacement" instructions.
      A(AFT) = A(AFCB)-64.
LIFETIME = CICS Job.
STORAGE CLASS =
LOCATION =
```

```
          NOTES :
           DEPENDENCIES = S/370
           RESTRICTIONS =
           MODULE TYPE = Control block definition
        ----------------------------------------------------------------
           PRODUCT-SENSITIVE PROGRAMMING INTERFACE
           The following field forms part of the Product-Sensitive
           Programming Interface:
           AFCSA
```

Table 28.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	232	DFHAFCB	
(0)	CHARACTER	4	AFIDENT	Eyecatcher: 'AFCX'
(4)	UNSIGNED	1	AFVER	Version and Release level.
(5)	UNSIGNED	1	AFSVCNO	CICS SVC no.
(6)	HALFWORD	2	AFLENG	The value that must be added to the address of AFLSTBEG to obtain the address of the AFCB prolog. Negative in V3 AFCBs.
(8)	ADDRESS	4	AFCSA	ADDRESS OF CICS CSA
(C)	ADDRESS	4	AFAICB	ADDRESS OF APPL INTERFACE BLOCK
(10)	CHARACTER	216	AFLSTBEG	START OF ENTRIES
(10)	ADDRESS	4	AFCAFCS	Address of AFCS block
(14)	ADDRESS	4	AFCKTCB	Address of Kernel TCB
(18)	ADDRESS	4	AFSRB	HPO SRB
(1C)	ADDRESS	4	AFHPSRB	TYPE 6 SVC ROUTINE - HPO SRB
(20)	ADDRESS	4	AFIRSVC	ADDRESS OF INTER-REGION SVC
(24)	ADDRESS	4	AFIRSUDB	Address of SUDB if logged on
(28)	ADDRESS	4	AFMON	MONITORING ROUTINE
(2C)	ADDRESS	4	AFMONCB	MONITORING CONTROL BLOCK ANCHOR
(30)	ADDRESS	4	AFSEC	SECURITY ROUTINE
(34)	ADDRESS	4	*	Security Anchor now in AFCS.
(38)	ADDRESS	4	AFPFF	PAGE FIX/FREE
(3C)	ADDRESS	4	AFCHAIN	FIX/FREE RECORD CHAIN ANCH

Table 28. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(40)	ADDRESS	4	AFDEQ	ADDRESS OF THE DEQ ROUTINE
(44)	ADDRESS	4	AFDEQCB	ADD. OF DEQ WORK BLOCK
(48)	ADDRESS	4	AFPXT	Old VSAM subtask postexit -
(4C)	ADDRESS	4	AFPXTXA	- keep for coexistence with 2.1
(50)	ADDRESS	4	AFSKP	Subtask Manager Routine.
(54)	ADDRESS	4	*	
(58)	ADDRESS	4	AFPSS	Spooler Routine.
(5C)	ADDRESS	4	AFPSSCB	Spooler Anchor.
(60)	ADDRESS	4	AFSDU	Old SDUMP. Keep for coexistence
(64)	ADDRESS	4	*	
(68)	ADDRESS	4	AFXRF	Xrf Routine.
(6C)	ADDRESS	4	*	
(70)	ADDRESS	4	AFINIT	AFCB Initial Authorisation.
(74)	ADDRESS	4	*	
(78)	ADDRESS	4	AFINH	AFCB Inherit Authorisation.
(7C)	ADDRESS	4	*	
(80)	ADDRESS	4	AFLODR	Loader Routine.
(84)	ADDRESS	4	*	
(88)	ADDRESS	4	AFMFI	Monitoring Routine.
(8C)	ADDRESS	4	AFMFICB	Monitoring Auth Facil Anchor *
(90)	ADDRESS	4	AFSMR	Storage Management Routine
(94)	ADDRESS	4	*	
(98)	ADDRESS	4	AFAPR	AP Domain Bind Routine.
(9C)	ADDRESS	4	*	
(A0)	ADDRESS	4	AFDSP	Dispatcher Auth Facil routine
(A4)	ADDRESS	4	AFDSPTB	Dispatcher Auth block (DSAUTB)
(A8)	ADDRESS	4	AFDTSVC	Data Tables SVC routine
(AC)	ADDRESS	4	AFDTRGNP	Data Tables Region Anchor
(B0)	ADDRESS	4	AFXCINIT	INIT for EXCI environment

Table 28. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B4)	ADDRESS	4	AFXCG	XCGLOBAL addr
(B8)	ADDRESS	4	AFXCSDMP	SDUMP routine for EXCI
(BC)	ADDRESS	4	*	Reserved
(C0)	ADDRESS	4	AFKESVC	Kernel SVC
(C4)	ADDRESS	4	*	Reserved
(C8)	ADDRESS	4	AFDUSVC	Dump SVC
(CC)	ADDRESS	4	*	Reserved
(D0)	ADDRESS	4	AFDMSVC	Domain mgr SVC
(D4)	ADDRESS	4	AFCBDMAN	DM ENF Anchor(-->DMAFS)
(D8)	ADDRESS	4	AFRXSVC	RX domain SVC routine
(DC)	ADDRESS	4	AFRXANCR	RX domain Anchor
(E0)	ADDRESS	4	AFMQSVC	CICS-MQ SVC routine
(E4)	ADDRESS	4	*	Reserved
(E8)	CHARACTER	0	*	Ensure Double-Word length.

Table 29.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	AFTSTART	Authorized Function Prolog
(0)	HALFWORD	2	AFTLENG	Length of AFCB Prolog.
(2)	BIT(8)	1	AFTFLG1	Flag Byte.
	1...		AFTQR	AFT for the QR TCB
	.1..		AFTEXCI	AFCB belongs to an EXCI env
	..11 111.		*	Reserved
	1		AFTESSEN	This is an "essential" TCB
(3)	UNSIGNED	1	AFTJSKEY	CICS jobstep key
(4)	ADDRESS	4	AFTAFCS	Address of AFCS.
(8)	ADDRESS	4	AFTKTCB	Address of Kernel TCB Block.
(C)	HALFWORD	2	AFTDWLEN	Length of dword vector
(E)	HALFWORD	2	*	Reserved
(10)	CHARACTER	0	*	Ensure Double-Word length.

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

Table 30.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	136	DFHAFCS	Auth Functions Common CB.
(0)	CHARACTER	4	AFCSID	Eye-catcher: 'AFCS'
(4)	UNSIGNED	1	AFCSVER	Version Number
(5)	BIT(8)	1	AFCS_FLAGS	Various Flags
	1...		AFCS_ARM_ REGISTERED	
				ARM register status
	.1..		AFCS_3QSSBKND_ XM_SUPPORTED	
				When 1, DFH3QSS's back-end routine resides in commonly-addressable storage and supports callers in cross-memory mode (PASN ^= HASN)
(6)	HALFWORD	2	AFCSLEN	Length of this Block.
(8)	ADDRESS	4	AFCSKCB	Kernel Anchor.
(C)	HALFWORD	2	AFCSCSVC	CICS Service SVC: X'0ANN'.
(E)	UNSIGNED	1	AFCSXRFD	If non-zero, some WTI Services Disabled
(F)	UNSIGNED	1	AFCS_CICS_KEY	CICS key N in X'N0' format
(10)	ADDRESS	4	AFCSSEC	Security Block Anchor.
(14)	ADDRESS	4	AFCSDSP	Dispatcher global anchor (DSAUSB)
(18)	ADDRESS	4	AFCSCSAA	AP Domain CSA Address.
(1C)	CHARACTER	8	AFCSGAPD	Generic Applid.
(24)	CHARACTER	8	AFCSSAPD	Specific Applid.
(2C)	CHARACTER	8	AFCSCLTN	CLT Name.
(34)	ADDRESS	4	AFCSMFI	Monitoring Block Anchor.

Table 30. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	CHARACTER	8	AFCSAXIN	Alternate Xrf Ids Table Name
(40)	ADDRESS	4	AFCSDXHP	-> DXH (SM domain)
(44)	ADDRESS	4	AFCSDMAN	-> DFHDMAFS (ENF anchor)
(48)	BIT(32)	4	AFCSCTKN	MVS™ WLM Connect token
(4C)	ADDRESS	4	AFCS_CEECTCB	A(CEECTCB (LE init module))
(50)	UNSIGNED	1	AFCSJSKY	Jobstep key
(51)	CHARACTER	3	*	Reserved
(54)	ADDRESS	4	*	Reserved
(58)	ADDRESS	4	*	Reserved
(5C)	ADDRESS	4	*	Reserved
(60)	ADDRESS	4	*	Reserved
(64)	ADDRESS	4	*	Reserved
(68)	ADDRESS	4	*	Reserved
(6C)	ADDRESS	4	AFCS_3QSSBKND	Back-end rtn for DFH3QSS
(70)	ADDRESS	4	AFCS_SMVA	SM MVS Storage mgr anchor
(74)	FULLWORD	4	AFCSLGLIM	Logon Limit for CICS
(78)	ADDRESS	4	AFCSGSAEP	A(GSAE header)
(7C)	ADDRESS	4	*	reserved
(80)	ADDRESS	4	*	reserved
(84)	ADDRESS	4	*	reserved
(88)	CHARACTER	0	*	alignment

Constants

Table 31.

Len	Type	value	Name	Description
1	DECIMAL	1	AFVER1	AFCB version (Field AFVER) - CICS/OS/VS 1.7, 2.1
1	DECIMAL	2	AFVER2	AFCB version (Field AFVER) - CICS/ESA 3.1
1	DECIMAL	3	AFVER3	AFCB version - CICS/TS 4.2

AID Automatic initiate descriptor

```
                    CONTROL BLOCK NAME = DFHAIDDS
                    DESCRIPTIVE NAME  = CICS Automatic Initiate Descriptor
               (AID).
                     @BANNER_START 02

                                   DFHAIDPS
                    Licensed Materials - Property of IBM
                    "Restricted Materials of IBM"
                    5655-S97
                    @BANNER_END
                    FUNCTION =
                    LIFETIME =
                    STORAGE CLASS =
                    LOCATION =
                    INNER CONTROL BLOCKS = None
                    NOTES :
                     DEPENDENCIES = S/370
                     RESTRICTIONS =
                     MODULE TYPE = Control block definition
                    EXTERNAL REFERENCES =
                      DATA AREAS =
                      CONTROL BLOCKS =
                      GLOBAL VARIABLES (Macro pass) = None
```

Table 32.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	148	DFHAIDDS	AID control block
(0)	CHARACTER	16	AIDPRFX	AID prefix
(0)	UNSIGNED	2	AIDLEN	AID length
(2)	CHARACTER	6	AIDBLKID	Eye-catcher ('>DFHAP')
(8)	CHARACTER	8	AIDBLKNM	Control block name ('AID')
(10)	CHARACTER	132	AIDBODY	AID body
(10)	ADDRESS	4	AIDCHNF	Forward chain pointer
(14)	ADDRESS	4	AIDCHNB	Backward chain pointer
(18)	CHARACTER	124	AIDDATA	AID data

```
                    Substructure of AIDDATA
```

Table 33.

Offset Hex	Type	Len	Name (dim)	Description
(18)	STRUCTURE	128	AIDDATA_STRUCTURE	
(18)	CHARACTER	4	AIDTRMID	Terminal id
(1C)	CHARACTER	4	AIDTRNID	Transaction identification
(20)	CHARACTER	1	*	Reserved
(21)	CHARACTER	4	AIDSHSYS	Shipped via sysid
(25)	CHARACTER	4	AIDCURTR	Current terminal id
(29)	CHARACTER	4	AIDDEST	TD destination
(2D)	CHARACTER	1	AIDTYPE	Type of AID

Table 33. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2E)	BIT(8)	1	AIDSTATI	AID status indicator
	1...		AIDPRIV	AID is for privileged allocate
	.1..		AIDSENT	This AID has been sent to TOR
	..1.		AIDCANCL	Cancel remote AID
	...1		AIDROUTP	AID not yet routed to AOR
	.... 1...		AIDSHIPD	Prevent duplicate send to tor
	.... .1..		AIDREMX	AID for a remote transaction
	.... ..1.		AIDREMT	AID for a remote terminal
	1		AIDSTTSK	Task initiated
(2F)	CHARACTER	1	*	Reserved
(30)	ADDRESS	4	AIDTCTA	TCTTE address
(30)	ADDRESS	4	AIDTCTSA	Skeleton TCTTE addr if terminal remotely owned
(34)	CHARACTER	8	AIDDATID	Data identification
(34)	CHARACTER	2	*	Request id
(36)	CHARACTER	1	*	x'FD' for BMS
(37)	CHARACTER	4	AIDMCRID	MCR identifier
(37)	CHARACTER	3	AIDMSGID	Msg identifier
(3A)	CHARACTER	1	AIDTC	Terminal code
(3B)	CHARACTER	1	*	Reserved
(3C)	CHARACTER	8	AIDOVLY	overlay area
(3C)	CHARACTER	8	AIDNETSY	Netname/Sysid from XICTENF exit
(3C)	CHARACTER	8	AIDNETNM	Netname from XICTENF exit (from ICP to ALP via ICE)
(3C)	CHARACTER	8	*	
(3C)	CHARACTER	4	*	Reserved
(40)	CHARACTER	4	AIDSYSID	Sysid from XICTENF exit (from ICP to ALP via ICE)
(3C)	CHARACTER	8	*	AIDOVLY when AIDTYPE = AIDISC
(3C)	ADDRESS	4	AIDTCAA	Address of suspended TCA
(40)	CHARACTER	4	*	Reserved
(44)	CHARACTER	8	AIDMODEN	LU6.2 mode name

Table 33. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	CHARACTER	1	AIDTR	Transaction routing indicator
(4D)	CHARACTER	1	AIDFS	Function shipping indicator
(4E)	BIT(8)	1	AIDFLAGS	Flags
	1...		AIDSZ	Startcode SZ for FEPI
	.1..		AIDNPUR	Non purgeable allocate aid
	..1.		AIDPURGD	Aid purged
	...1		AIDDYNTR	Dynamic transaction
	.... 1...		AIDRECOV	PUT AID with recoverable TS data
	.... .1..		AIDCRSRT	CRSR rescheduling bit
	.... ..1.		AID_REROUTED	Aid is being rerouted to another TOR
	1		AIDRTST	Routable start
(4F)	BIT(8)	1	AIDFLAG2	Second flag byte
	1...		AIDMRSCH	AID may be re-sched
	.111 1111		*	
(50)	CHARACTER	4	AIDSYST	System id of first system in route to terminal owner (usually = terminal owner)
(54)	CHARACTER	4	AIDTIMST	Time stamp
(58)	CHARACTER	4	AIDSYSX	System id of first system in route to transaction owner (usually = transaction owner)
(5C)	BIT(8)	1	AIDVER	Verification flags for aid
	1...		AIDVERUN	Unchained
	.1..		AIDVERFR	Freed aid's storage
	..1.		AIDLTRM	AIDTRMID unknown
	...1 1111		*	Reserved
(5D)	CHARACTER	8	AID_TERMINAL_ NETNAME	
				Netname of target term
(65)	CHARACTER	8	AID_TOR_NETNAME	Netname of TOR
(6D)	CHARACTER	8	AID_TOR_NETNAMEO	Original TOR netname
(75)	CHARACTER	1	*	Reserved

Table 33. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(76)	HALFWORD	2	AID_START_ DATA_LEN	Start data length
(78)	UNSIGNED	4	AID_CHANNEL_ TOKEN	Channel Token
(7C)	CHARACTER	12	*	Reserved
(88)	CHARACTER	4	AIDLTID	Unknown TERMID
(8C)	CHARACTER	12	AIDVDATA	Variant structure, depending on AIDTYPE
(8C)	CHARACTER	12	AIDBMS_ STRUCTURE	AIDVDATA when AIDTYPE=AIDBMS
(8C)	BIT(8)	1	AIDOCTYP	Type of operator check reqd
	1111 11..		*	Reserved
	.... ..1.		AIDOCCL	Check operator class
	1		AIDOCID	Check operator id
(8D)	CHARACTER	3	AIDOPCHK	Operator check field
(90)	CHARACTER	4	AIDBMSTS	BMS time stamp
(94)	BIT(8)	1	AIDBMSCC	BMS control information
	1...		AIDBMSMT	Message title is present
	.111 1111		*	Reserved
(95)	CHARACTER	3	*	Reserved
(8C)	CHARACTER	12	AIDCRRD_ STRUCTURE	AIDVDATA when AIDTYPE=AIDCRRD
(8C)	CHARACTER	8	AIDNETNA	Netname
(94)	CHARACTER	4	*	Reserved
(8C)	CHARACTER	12	AIDPUT_ STRUCTURE	AIDVDATA when AIDTYPE = AIDPUT
(8C)	CHARACTER	8	*	Reserved
(94)	ADDRESS	4	AID_TRANNUM	TRANNUM of transaction that has been attached for this AID

Constants

Table 34.

Len	Type	value	Name	Description
Length of the AID control block				
4	DECIMAL	148	AIDAD	AID length
Possible values of AIDTYPE				
1	HEX	80	AIDBMS	BMS - schedule request

Table 34. (continued)

Len	Type	value	Name	Description
1	HEX	50	AIDPUT	PUT - start with data
1	HEX	40	AIDINT	INT - start without data
1	HEX	10	AIDTDP	TDP - schedule request
1	HEX	08	AIDISC	ISC - allocate request
1	HEX	04	AIDCRRD	REMDEL - remote delete
Values used in DFHIC get wait requests				
1	DECIMAL	0	AID_GW_DATA	Resumed due to new data
1	DECIMAL	4	AID_GW_SHUTDOWN	Resumed due to shutdown

APSTG Application domain global statistics

```
CONTROL BLOCK NAME = DFHAPSTG
DESCRIPTIVE NAME  = CICS AP Statistics Global Storage Block
 @BANNER_START 02
                        DFHAPSTG
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = This control block contains the time at which AP dom-
ain statistics were last reset and also a map of statistics res-
ource types, statistics modules, module entry points and module
status to enable DFHAPST to manage the collection of statistics
in the AP domain.
This module is part of the APPLICATION DOMAIN (AP).
This control block is created the first time that DFHAPST is
called to perform a statistics function in the AP domain. The
control block persists until CICS is shutdown (whether literally
or 'logically' via the 'end-of-day' command).
LIFETIME = This control block is created by DFHAPST the first
time it is called. The control block is not explicitly deleted
by DFHAPST but the pointer to it is lost when CICS is terminated.
STORAGE CLASS = n/a
LOCATION = The address field CSAAPSTG in the CSAOPFL points
to the beginning of this control block.
INNER CONTROL BLOCKS = none
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = n/a
 MODULE TYPE = Control block definition
 ----------------------------------------------------------------
EXTERNAL REFERENCES = none
  DATA AREAS = none
  CONTROL BLOCKS = none
  GLOBAL VARIABLES (Macro pass) = none
 ----------------------------------------------------------------
 AP STATISTICS GLOBAL STORAGE BLOCK, consists of:
Standard header tag so that the block can be found in
storage.
Last-reset-time field which contains the time in MVS
STCK format when statistics counters in the AP domain
were last reset.
```

```
A map of:
 Restype---->
                Module---->
                         Entry point---->
                                         Status
The map relates resource types to the modules that
access the statistics for those resource types and to an
entry point for the module and to a status which shows
whether statistics for that resource type/id are avail-
able.
```

Table 35.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	14672	APST_GLOBAL_ STORAGE	
(0)	CHARACTER	16	STORAGE_PREFIX	
(0)	HALFWORD	2	STORAGE_LENGTH	
(2)	CHARACTER	1	STANDARD_ARROW	
(3)	CHARACTER	3	STANDARD_DFH	
(6)	CHARACTER	2	STORAGE_ DOMAIN_ID	
(8)	CHARACTER	8	STORAGE_ BLOCK_NAME	
(10)	CHARACTER	8	AP_LAST_ RESET_TIME	
(18)	CHARACTER	24	RESOURCE_ STATE_MAP (4294967309:130365448)	
(18)	CHARACTER	8	RESOURCE_NAME	
(20)	CHARACTER	8	RESOURCE_MODULE	
(28)	ADDRESS	4	RESOURCE_ MODULE_ ENTRY_POINT	
(2C)	BIT(8)	1	RESOURCE_STATUS	
(150)	CHARACTER	14336	STATS_BUFFER_ LARGE	

Constants

Table 36.

Len	Type	value	Name	Description
1	CHARACTER	>	ARROW	
Resource names are <=8 char, padded to 8 char with blanks Module names are <=8 char, padded to 8 char with blanks Status of resource type/id can be one of the following				
1	BIT	00000000	NO_STATS_AVAILABLE	
1	BIT	01000000	ID_STATS_ UNAVAILABLE	
1	BIT	10000000	TYPE_STATS_ UNAVAILABLE	

Len	Type	value	Name	Description
1	BIT	11000000	ALL_STATS_ AVAILABLE	
These two variables are used to define the storage required for the AP stats control block. They are used in the call to Storage Domain to obtain the storage.				
8	CHARACTER	APSTGBST	CONTROL_BLOCK_NAME	
2	DECIMAL	14672	CONTROL_BLOCK_LENGTH	
Total number of mappings is the number of resources in the AP domain for which statistics are collected.				
2	DECIMAL	13	TOTAL_MAPPINGS	*
Offsets in mapping used for module loading optimisation.				
2	DECIMAL	6	TERMINAL_MAP_OFFSET	*
2	DECIMAL	8	VTAM_MAP_OFFSET	*

APXDC Application domain trandef extension *L3A

```
CONTROL BLOCK NAME = DFHAPXDC
DESCRIPTIVE NAME  = CICS (AP) Transaction definition
extension
  @BANNER_START 02
                       DFHAPXDC
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = This copybook describes the AP domain transaction
           definition related control block.
      This copy book describes the control block which is
      anchored from the AP domain token in the transaction
      definition. The main purpose of the control block is
      to allow AP domain to optimize AP actions at attach/
      detach.
      There will be one instance of this control block for
      every transaction definition instance in the region.
LIFETIME = associated with a transaction definition instance
STORAGE CLASS = SUBPOOL(CSAAPXDS)
              CICS key, 31 bit, Fixed length
LOCATION = This control block addressed via the first word in
           the AP domain transaction definition related token
           and can be addressed using the DFHXMXDI macro.
INNER CONTROL BLOCKS = none
NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
----------------------------------------------------------------
EXTERNAL REFERENCES = none
  DATA AREAS = none
  CONTROL BLOCKS = none
  GLOBAL VARIABLES (Macro pass) = none
----------------------------------------------------------------
```

Table 37.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	72	DFHAPXDC	AP trandef extension

Table 37. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	16	APXD_EYE	Standard eye catcher
(0)	HALFWORD	2	APXD_EYE_LEN	control block length
(2)	CHARACTER	14	APXD_EYE_NAME	>DFHAP_APXD
(10)	FULLWORD	4	APXD_COUNT	check count for serviceability
(14)	BIT(8)	1	APXD_FLAGS1	Various flags
	1...		APXD_CEE_ ENABLED	Txn uses CEE work area
	.1..		APXD_TDLA	Txn uses taskdataloc(any)
(15)	BIT(8)	1	*	Reserved
(16)	UNSIGNED	2	APXD_USTG_SIZE	total size of AP_USER_TXN
(18)	CHARACTER	8	APXD_SUBPOOL	TCA subpool token
(20)	CHARACTER	8	APXD_PPF	Profile area
(20)	UNSIGNED	4	APXD_PPF_ CHANGECOUNT	
				validation counter
(24)	ADDRESS	4	APXD_PPF_PTR	profile address
(28)	CHARACTER	8	APXD_TRPPF	Tran routing profile area
(28)	UNSIGNED	4	APXD_TRPPF_ CHANGECOUNT	
				validation counter
(2C)	ADDRESS	4	APXD_TRPPF_PTR	profile address
(30)	CHARACTER	8	APXD_TCTS	Tran routing tcse area
(30)	UNSIGNED	4	APXD_TCTS_ CHANGECOUNT	
				validation counter
(34)	ADDRESS	4	APXD_TCTS_PTR	TCSE address
(38)	CHARACTER	8	APXD_D2_TOKEN	CICS/DB2 token
(38)	UNSIGNED	4	APXD_D2_ TOKEN_COUNT	
				validation counter
(3C)	ADDRESS	4	APXD_D2_ TOKEN_PTR	RCTE addr (entry|pool|comd)
(40)	CHARACTER	8	APXD_RUWA_TOKEN	LE ruwa token
(40)	UNSIGNED	4	APXD_RUWA_ ONESIZE	size of one ruwa
(44)	UNSIGNED	4	APXD_RUWA_ POOLSIZE	
				size of ruwa pool
(48)	CHARACTER	0	*	end

BRARC BRXA definition *MZC

```
!:refstep.dfhbra_interface ------------------------- DFHBREXP 123 -
!
!
! This is the description of the BRXA passed to the Bridge Exit as
! its COMMAREA.
!
!-------------------------------------------------------------------
!:refstep.brxa_header ------------------------------ DFHBREXP 133 -
!
! The BRXA header contains the following fields:
!
! BRXA_HEADER_EYECATCHER
! An eyecatcher to identify the area as an BRXA. This is
! initialised by CICS to the value BRXA_HEADER_EYE ('>BRAREA '),
! which is defined in the DFHBRACx copy book.
! BRXA_HEADER_LENGTH
! The length of the header.
! BRXA_HEADER_VERSION_NO
! The version number of the BRXA. This allows future releases to
! extend the BRXA. This is initialised by CICS to
! brxa_current_version_no.
! BRXA_TRANSACTION_AREA_PTR
! The address of the BRXA_TRANSACTION_AREA, which contains
! information relating to the Bridge Transaction and the User
! Transaction. This will be set by CICS, and should not be
! modified by the Bridge or LT Exit code.
! BRXA_TRANSACTION_AREA_LEN
! The length of the BRXA_TRANSACTION_AREA. This will be set by
! CICS, and should not be modified by the Bridge or LT Exit code.
! BRXA_COMMAND_AREA_PTR
! The address of the BRXA_COMMAND_AREA, which contains information
! relating to the command causing the Bridge Exit to be driven.
! This will be set by CICS, and should not be modified by the
! Bridge Exit code.
! BRXA_COMMAND_AREA_LEN
! The length of the BRXA_COMMAND_AREA. This will be set by CICS,
! and should not be modified by the Bridge or LT Exit code.
! BRXA_USER_AREA_PTR
! A user field which allows the address of a user area to be saved
! across Bridge Exit calls within a task. The user area should be
! obtains using an EXEC CICS GETMAIN.
! BRXA_USER_AREA_LEN
! A user fields which can be used to save the length of the user
! area. TRANSACTION.
! BRXA_INPUT_MSG_PTR
! A field used to save the address of an input message. This field
! is intended to be used in conjunction with a formatter.
! BRXA_INPUT_MSG_LEN
! A field used to save the current length of the input message.
! BRXA_OUTPUT_MSG_PTR
! A field used to save the address of an output message. This
! field is intended to be used in conjunction with a formatter.
! BRXA_OUTPUT_MSG_LEN
! A field used to save the current length of the output message.
!
!-------------------------------------------------------------------
```

Table 38.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	BRXA_HEADER	
(0)	CHARACTER	8	BRXA_HEADER_ EYECATCHER	

Table 38. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	FULLWORD	4	BRXA_HEADER_ LENGTH	
(C)	UNSIGNED	4	BRXA_HEADER_ VERSION_NO	
(10)	ADDRESS	4	BRXA_TRANSACTION_ AREA_PTR	
(14)	FULLWORD	4	BRXA_TRANSACTION_ AREA_LEN	
(18)	ADDRESS	4	BRXA_COMMAND_ AREA_PTR	
(1C)	FULLWORD	4	BRXA_COMMAND_ AREA_LEN	
(20)	ADDRESS	4	BRXA_USER_ AREA_PTR	
(24)	FULLWORD	4	BRXA_USER_ AREA_LEN	
new for CTS 1.3				
(28)	ADDRESS	4	BRXA_INPUT_ MSG_PTR	
(2C)	FULLWORD	4	BRXA_INPUT_ MSG_LEN	
(30)	ADDRESS	4	BRXA_OUTPUT_ MSG_PTR	
(34)	FULLWORD	4	BRXA_OUTPUT_ MSG_LEN	

```
!:erefstep.brxa_ header ----------------------------------------------
!:refstep.brxa_ transaction_ area --------------------- DFHBREXP 202 -
!
  ! The BRXA transaction area contains information about the invoking
  ! Bridge transaction and the linked to transaction. This area is not
  ! meaningful when executing within the Bridge transaction and should
  ! not be referenced there. This information is completed by CICS for
  ! each invocation of the Bridge Exit. The transaction area contains
  ! the following information:
!
! BRXA_ TRAN_AREA_ EYECATCHER
  ! An eyecatcher to identify the area as an BRXA Transaction Area.
  ! This will be set by CICS, before passing control to the Bridge
! Exit, to the value BRXA_ TRAN_AREA_ EYE ('>BRTRANA'), which is
  ! defined in the DFHBRACx copy book.
! BRXA_ BRIDGE_TRANID
  ! The transaction id of the Bridge Transaction.
! BRXA_TRANID
  ! The transaction id of the user transaction.
! BRXA_ NEXTTRANID
  ! The transaction id of the next transaction.
! BRXA_ ABEND_CODE
  ! If the User Transaction abends, then the abend code is placed
  ! here. If the transaction hasn't abended this field is blanks.
! BRXA_ CALLING_PROG
  ! The name of the program in the User Transaction which issued the
  ! command causing the Bridge Exit to be invoked. For the
! BRXA_ INIT, BRXA_ BIND, BRXA_TERM and BRXA_ABEND calls this fields
  ! is set to blanks.
```

! BRXA_USERID
  ! specifies the userid under whose authority the Linked
  ! Transaction is to run.
! BRXA_STARTCODE
  ! specifies the type of method which would normally be used to
  ! start this transaction. This value is returned in the assign
  ! command, but has no other effect on processing. The following
  ! values are allowed:
!
! S
  ! START command without data
! SD
  ! START command with data
! TD
  ! Terminal Input (this is the default value)
!
  ! If an invalid value is specified the value TD is assumed.
!
  ! On invocation of the Bridge Exit for TERM and ABEND processing,
  ! this field contains the start code appropriate to the
! BRXA_ NEXTTRANID value.
! BRXA_ LOAD_ADS_ DESCRIPTOR
  ! If this one character field is set to 'Y' by the Bridge
  ! Transaction, then for BMS SEND MAP and RECEIVE MAP, CICS will
  ! load the mapset and locate the ADS descriptor for the map, and
  ! the address of this descriptor will be passed to the LT exit in
  ! the command area. The format of this descriptor is defined in
! ADS_ descriptor. If this field has any value other than 'Y', then
  ! CICS will not attempt to load the mapset and locate the
! descriptor, and brxa_ ADS_descriptor_ ptr will be set to null.
! BRXA_TRACE
  ! This field is set to 'Y' if level 2 tracing is set on for BR.
  ! The exit should use this flag to trace important information for
  ! diagnostic purposes. In particular the input and output data
  ! should be traced. Note that for BR level 2 tracing, the BRXA is
  ! already traced by CICS on input and output.
! BRXA_ FACILITYLIKE
  ! The name of an installed 3270 terminal to be used as a template
  ! terminal definition for constructing the bridge facility.
!
  ! If a value is not specified CICS will look for a value specified
  ! as FACILITYLIKE in the user transaction's profile. If this value
  ! is also blanks, CICS will use the new CICS-supplied definition
  ! CBRF (based on model DFHLU2).
!
  ! If the specified FACILITYLIKE does not exist the Bridge CICS
  ! abends the transaction ABRJ.
!
  ! It is not possible to change the FACILITYLIKE definition after
  ! the terminal has been created, so this parameter is ignored if
  ! FACILITYTYPE is specified.
!
  ! If the template terminal definition is defined with QUERY(COLD)
  ! or QUERY(ALL) this will be ignored, and the predefined
  ! characteristics used.
! BRXA_ FACILITY_ KEEP_TIME
  ! This field specifies the time (in seconds) that the Bridge
  ! Facility will be kept after the User transaction terminates. If
  ! a non zero value is set in this field the Bridge Facility, and
  ! its pseudo conversational data will remain.
!
! This field is initially set to zero on the BRXA_ INIT call. The
! exit only needs to set the value in the BRXA_ TERM call.
!
  ! The maximum value is 1 week (604800 seconds). If a value larger
  ! than this is specified, CICS will keep the Bridge Facility for 1
! week.

```
! BRXA_ FACILITYTYPE
  ! A token representing the Bridge Facility to be used. This value
! can be set on the BRXA_ INIT call.
!
  ! Specifying a value implies reusing a Bridge Facility kept when a
  ! previous Bridge ran a user transaction, and kept the terminal.
!
  ! The default value of nulls will result in CICS dynamically
  ! allocating a new Bridge Facility.
!
  ! The name of the Bridge facility used is accessible to the user
  ! transaction in the EIBTRMID field of the EIB. No other TERMID's
  ! in the system will be the same, although the name may be re-used
  ! almost immediately when the user transaction finishes.
! BRXA_ SCREEN_HEIGHT
  ! The current screen height
! BRXA_ SCREEN_WIDTH
  ! The current screen width
! BRXA_ ALTERNATE_ SCREEN_HEIGHT
  ! The alternate screen height
! BRXA_ ALTERNATE-SCREEN_ WIDTH
  ! The alternate screen width
! BRXA_ IDENTIFIER
  ! a 48 character field which can be used by the exit routine to
  ! associate the request with the specific use of the exit (for
  ! example, the MQ correlator for the MQ bridge, and the TCP/IP id
! for the Web).
! BRXA_FORMATTER
  ! An 8 byte character field to be used by the exit routine to
  ! specify the name of a formatter. If a value is specified in this
  ! field, then the formatter is called for BMS, TC, and IC
  ! requests. The bridge exit is only called for XM, SYNC and MSG
! requests.
! BRXA_ CALL_EXIT_ FOR_SYNC
  ! Should the bridge exit be called for syncpoint.
! BRXA_ NEXTTRANID_SOURCE
  ! How was the next transid created?
!
! BRXA_   IMMEDIATEBy a RETURN TRANSID IMMEDIATE command
! BRXA_   STARTED By a START TRANSID command
! BRXA_   NORMAL By a RETURN TRANSID or SET NEXTTRANSID command
!
! BRXA_ TCTUA (PTR/LEN)
  ! Bridge facility's TCTUA
! BRXA_ BRDATA_PTR
  ! Address of the data specified by the BRDATA parameter on the
  ! START TRANSID BREXIT command.
! BRXA_ BRDATA_LEN
  ! Length of the BRDATA, as given on the START TRANSID BREXIT
! command.
!
  !-------------------------------------------------------------------
```

Table 39.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	180	BRXA_TRANSACTION_ AREA	
(0)	CHARACTER	8	BRXA_TRAN_ AREA_EYECATCHER	
(8)	CHARACTER	4	BRXA_BRIDGE_ TRANID	
(C)	CHARACTER	4	BRXA_TRANID	
(10)	CHARACTER	4	BRXA_NEXTTRANID	

Table 39. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	CHARACTER	4	BRXA_ABEND_CODE	
(18)	CHARACTER	8	BRXA_CALLING_ PROG	
(20)	CHARACTER	8	BRXA_USERID	
(28)	CHARACTER	8	*	reserved applid
(30)	CHARACTER	2	BRXA_STARTCODE	
(32)	CHARACTER	1	BRXA_LOAD_ ADS_DESCRIPTOR	
(33)	CHARACTER	1	BRXA_TRACE	
(34)	CHARACTER	4	BRXA_FACILITYLIKE	
(38)	UNSIGNED	4	BRXA_FACILITY_ KEEP_TIME	
(3C)	CHARACTER	8	BRXA_FACILITY_ TOKEN	
(44)	HALFWORD	2	BRXA_SCREEN_ HEIGHT	
(46)	HALFWORD	2	BRXA_SCREEN_ WIDTH	
(48)	HALFWORD	2	BRXA_ALTERNATE_ SCREEN_HEIGHT	
(4A)	HALFWORD	2	BRXA_ALTERNATE_ SCREEN_WIDTH	
(4C)	CHARACTER	48	BRXA_IDENTIFIER	
new for CTS 1.3				
(7C)	CHARACTER	8	BRXA_FORMATTER	
(84)	CHARACTER	1	BRXA_CALL_ EXIT_FOR_SYNC	
(85)	CHARACTER	1	BRXA_NEXTTRANID_ SOURCE	
(86)	CHARACTER	6	*	
(8C)	ADDRESS	4	BRXA_TCTUA_PTR	
(90)	FULLWORD	4	BRXA_TCTUA_LEN	
(94)	ADDRESS	4	BRXA_BRDATA_PTR	
(98)	FULLWORD	4	BRXA_BRDATA_LEN	
(9C)	CHARACTER	4	BRXA_INTERVAL	
(A0)	CHARACTER	4	BRXA_TIME	
(A4)	FULLWORD	4	BRXA_HOURS	
(A8)	FULLWORD	4	BRXA_MINUTES	
(AC)	FULLWORD	4	BRXA_SECONDS	
(B0)	CHARACTER	1	BRXA_START_AFTER	
(B1)	CHARACTER	1	BRXA_START_AT	
(B2)	CHARACTER	2	*	For alignment

Table 39. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B4)	CHARACTER	0	*	

```
              !:erefstep.brxa_ transaction_ area -------------------------------------
              !:refstep.brxa_ command_ area ------------------------- DFHBREXP 387 -
              !
                ! The command area contains information relating to the command
                ! which has caused the Bridge Exit to be called.
              !
                ! Some fields are common for all commands, and there are some fields
                ! for specific commands.
              !
                !------------------------------------------------------------------------
              !:refstep.brxa_ command_ common ----------------------- DFHBREXP 517 -
              !
                ! The common fields of the command area are:
              !
              ! BRXA_ COMMAND_ AREA_EYECATCHER
                ! An eyecatcher to identify the area as an LT Command Area. This
                ! will be set by CICS, before passing control to the Bridge Exit,
              ! to the value BRXA_ COMMAND_ AREA_EYE ('>BRCOMMA'), which is
                ! defined in the DFHBRACx copy book.
              ! BRXA_ FUNCTION_CODE
                ! A two character code identifying the CICS function for which the
                ! Bridge Exit is called. For calls for Initialise Transaction,
                ! Terminate Transaction and Abend Transaction this is 'XM'. For
                ! all other requests, this is the value in the first byte of EIBFN
                ! converted to character form. Valid EBCDIC characters are used
                ! for the function and command code to simplify testing of the
                ! values in User Transaction Exit programs written in all the
                ! supported languages, and to simplify passing of the codes to
                ! other systems. Constants with meaningful names are provided for
                ! all the supported languages to simplify testing,
              ! BRXA_ COMMAND_CODE
                ! A two character code identifying the CICS command for which the
                ! Bridge Exit is called. For Initialise Transaction this is 'IN',
                ! for Terminate Transaction this is 'TM' and, for Abend
                ! Transaction this is 'AB'. For all other requests, this is the
                ! value in the second byte of EIBFN converted to character form.
                ! Valid EBCDIC characters are used for the function and command
                ! code to simplify testing of the values in User Transaction Exit
                ! programs written in all the supported languages, and to simplify
                ! passing of the codes to other systems. Constants with meaningful
                ! names are provided for all the supported languages to simplify
              ! testing,
              ! BRXA_ USER_ABEND_CODE
                ! If this field is set to a non blank value (the default), CICS
                ! will generate a transaction abend with this code.
              !
                ! Note that if the exit issues an EXEC CICS ABEND requests, this
                ! will result in a CICS DUMP, and will disable the exit.
              ! BRXA_FROM_PTR
                ! The address of the FROM data in SEND, CONVERSE, SEND MAP, SEND
                ! TEXT and START commands. This will be zero for other commands,
                ! or if FROM not specified on the command.
              ! BRXA_FROM_LEN
                ! The length of the FROM data in SEND, CONVERSE, SEND MAP, SEND
                ! TEXT and START commands. This will be zero for other commands,
                ! or if FROM not specified on the command. The length is a
              ! fullword,
              ! BRXA_INTO_PTR
                ! The address of the INTO data in RECEIVE, CONVERSE, RECEIVE MAP
                ! and RETRIEVE commads. This must be set by the User Transaction
                ! Exit, and CICS will copy data from this address into the INTO
```

```
! area specified on the command, or will copy the address into the
! SET parameter specified on the command.
! BRXA_INTO_LEN
  ! The length of the INTO data in RECEIVE, CONVERSE, RECEIVE MAP
  ! and RETRIEVE commads. This must be set by the User Transaction
  ! Exit, and CICS will copy this value into LENGTH, FLENGTH or
  ! INTOLENGTH parameter specified on the command, and use the value
  ! when copying data into the INTO area. The length is a fullword,
!
  ! NOTE: CONVERSE is the only command which has both FROM and INTO,
! and the BRXA_ FROM_PTR and BRXA_ INTO_PTR (and corresponding
! lengths) could be replaced by a single BRXA_ DATA_PTR (and
! BRXA_  DATA_LEN), and in the case of CONVERSE the exit would
  ! replace the FROM address and length by the INTO address and
! length,
! BRXA_RESP
  ! The resp code to be set (by CICS) in EIBRESP. This will be set
  ! to zero by CICS before calling the exit, and the exit must set
  ! this value if anything other than a normal response is required.
!
  ! CICS will generate an ABRN transaction abend if the value
  ! returned is not one that could normally be produced by CICS for
  ! this command. If this value is zero, CICS may itself set the
  ! EIBRESP value and raise a condition.
! BRXA_RESP2
  ! The resp code to be set (by CICS) in EIBRESP2. This will be set
  ! to zero by CICS before calling the exit, and the exit must set
  ! this value if anything other than a normal response is required.
!
  ! CICS does not check the value specified for consistency with the
  ! command. If this value is zero, CICS may itself set the EIBRESP
  ! value and raise a condition.
! BRXA_CPOSN
  ! The cursor position to be set (by CICS) in EIBCPOSN for RECEIVE,
  ! CONVERSE, RECEIVE MAP commands. This will be set to zero by CICS
  ! before calling the exit, and the exit must set this value, if
  ! the User Transaction uses the value in EIBCPOSN.
! BRXA_AID
  ! The attention id (PF key code) to be set (by CICS) in EIBAID for
  ! RECEIVE, CONVERSE, RECEIVE MAP commands. This will be set to
  ! ENTER (X'7D') by CICS before calling the exit, and the exit must
  ! set this value, if the User Transaction uses the value in
  ! EIBAID. The exit can use the values defined in DFHAID copy books
  ! to set the value (these are EBCDIC values of the 3270 AID
! characters).
! BRXA_ ERASE_INDICATOR
  ! A one character value which is set (by CICS) to indicate whether
  ! ERASE, ERASE ALTERNATE or ERASE DEFAULT is specified on SEND,
  ! CONVERSE SEND MAP, SEND TEXT or SEND CONTROL commands. Constants
  ! with meaningful names are provided for all languages to allow
  ! the Bridge Exit to test this value if necessary.
! BRXA_ LAST_INDICATOR
  ! a one character field indicating whether LAST specified on SEND
  ! command. Valid values are 'Y' or 'N', and constants are provided
  ! for the exit to test this field.
! BRXA_ WAIT_INDICATOR
  ! a one character field indicating whether WAIT specified on SEND,
  ! RETRIEVE or ISSUE ERASEAUP. Valid values are 'Y' or 'N', and
  ! constants are provided for the exit to test this field.
! BRXA_ FMT_RESPONSE
  ! This field is used by the formatter to tell the CICS that the
  ! bridge exit should be called to read or write a message.
  ! Possible values are:
!
! BRXA_FMT_NONE
  ! No action. The formatter has processed the request.
! BRXA_ FMT_OUTPUT_ BUFFER_FULL
```

```
           ! There is no room to add the next vector. Call the bridge exit
           ! to write the message, clear the buffer, then call the
           ! formatter again.
        ! BRXA_ FMT_WRITE_MESSAGE
           ! The request required data to be flushed. Call the bridge exit
           ! to write the message.
        ! BRXA_ FMT_REQUEST_ NEXT_MESSAGE
           ! The formatter has run out of data in the message. Call the
           ! bridge exit to read a message, then call the formatter again.
        ! BRXA_ FMT_READ_ MESSAGE_NOWAIT
           ! The formatter has run out of data in the message. Check to see
           ! if there is a new message before requesting any further input.
           ! Call the bridge exit to read a message, then call the
           ! formatter again.
        !
        ! BRXA_ READ_NOWAIT_ ISSUED
           ! This field is used by the formatter to check if it has already
        ! returned a brxa_ fmt_read_ message_nowait for this command.
        !
        ! BRXA_NO
        ! A brxa_ fmt_read_ message_nowait has not been returned for this
        ! command.
        ! BRXA_YES
        ! A brxa_ fmt_read_ message_nowait has been returned for this
        ! command.
        !
        ! BRXA_ REQUEST_ NEXT_ISSUED
           ! This field is used by the formatter to check if it has already
        ! returned a brxa_ fmt_request_ next_message for this command.
        !
        ! BRXA_NO
        ! A brxa_ fmt_request_ next_message has not been returned for this
        ! command.
        ! BRXA_YES
        ! A brxa_ fmt_request_ next_message has been returned for this
        ! command.
        !
          !---------------------------------------------------------------
```

Table 40.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	BRXA_COMMAND_ COMMON	
(0)	CHARACTER	8	BRXA_COMMAND_ AREA_EYECATCHER	
(8)	CHARACTER	2	BRXA_FUNCTION_ CODE	
(A)	CHARACTER	2	BRXA_COMMAND_ CODE	
(C)	CHARACTER	4	BRXA_USER_ ABEND_CODE	
(10)	ADDRESS	4	BRXA_FROM_PTR	
(14)	FULLWORD	4	BRXA_FROM_LEN	
(18)	ADDRESS	4	BRXA_INTO_PTR	
(1C)	FULLWORD	4	BRXA_INTO_LEN	
(20)	HALFWORD	2	BRXA_RESP	
(22)	HALFWORD	2	BRXA_RESP2	
(24)	HALFWORD	2	BRXA_CPOSN	

Table 40. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(26)	CHARACTER	1	BRXA_AID	
(27)	CHARACTER	1	BRXA_ERASE_ INDICATOR	
(28)	CHARACTER	1	BRXA_LAST_ INDICATOR	
(29)	CHARACTER	1	BRXA_WAIT_ INDICATOR	
new for CTS 1.3				
(2A)	CHARACTER	1	BRXA_FMT_ RESPONSE	
(2B)	CHARACTER	1	BRXA_READ_ NOWAIT_ISSUED	
(2C)	CHARACTER	1	BRXA_REQUEST_ NEXT_ISSUED	
(2D)	CHARACTER	1	BRXA_SUPPORT_ ACCUM	
(2E)	CHARACTER	2	*	

```
!:erefstep.brxa_ command_ common ---------------------------------------
!:refstep.brxa_ xm_command --------------------------- DFHBREXP 888 -
!
  ! This command area defines actions at the initialisation and
  ! termination of the bridge. There are four functions:
!
! Init
  ! The purpose of this call is for the Bridge Exit pass CICS
  ! various parameters to run the transaction. Typically the BRDATA
  ! will be used to obtain this information.
!
  ! The following values can be set in the transaction and common
  ! areas area for this request.
!
! - BRXA_ STARTCODE
!
! - BRXA_ LOAD_ADS_ DESCRIPTOR
!
! - BRXA_ FACILITYLIKE
!
! - BRXA_ FACILITY_TOKEN
!
! - BRXA_ USER_ABEND_CODE
!
! - BRXA_ IDENTIFIER
!
! - BRXA_ FORMATTER
!
  ! Requests using recoverable resources can not be made in this
! call.
! Bind
  ! The purpose of this call is for the Bridge Exit to obtain data
  ! to answer 3270 requests in subsequent calls.
!
  ! Recoverable requests can be made in this call.
!
  ! The exit must not use the TWA, as this is not setup for the
! Bridge.
!
```

```
          ! The following values can be set in the transaction and common
          ! areas area for this request.
          !
          ! - BRXA_ STARTCODE
          !
          ! - BRXA_ LOAD_ADS_ DESCRIPTOR
          !
          ! - BRXA_ FACILITY_ KEEP_TIME
          !
          ! - BRXA_ USER_ABEND_CODE
          !
          ! - BRXA_ IDENTIFIER
          !
          ! Term
            ! The purpose of this call is to inform the Bridge Exit that the
            ! user transaction is terminating. It also identifies the next
            ! transaction if this has been specified by the user transaction.
            !
            ! This call is not made if the user transaction abends.
            !
            ! Recoverable requests can be made in this call.
            !
            ! The following values can be set in the transaction and common
            ! areas area for this request.
          !
          ! - BRXA_ FACILITY_ KEEP_TIME
          !
          ! - BRXA_ USER_ABEND_CODE
          !
          ! Abend
            ! In the event of the user transaction abending this call allows
            ! the Bridge Exit to issue non recoverable requests to the
            ! external resource, for example a non-syncpointing MQPUT can be
            ! issued for the MQ Bridge.
            !
            ! The call can also change the abend code.
            !
            ! Recoverable requests can not be made in this call.
            !
            ! The following values can be set in the transaction and common
            ! areas area for this request Any other values are ignored.
          !
          ! - BRXA_ FACILITY_ KEEP_TIME
          !
          ! - BRXA_ USER_ABEND_CODE
          !
            !-------------------------------------------------------------------
```

Table 41.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	BRXA_XM_COMMAND	
(0)	CHARACTER	48	*	
(30)	CHARACTER	0	*	

```
          !:erefstep.brxa_  xm_command -------------------------------------------
          !:refstep.brxa_  tc_command --------------------------- DFHBREXP 711 -
          !
            ! The Terminal Control command interface overlays the common command
            ! interface, and defines some Terminal Control specific parameters.
          !
            ! Commands supported are SEND, RECEIVE and CONVERSE.
          !
            ! The terminal control specific parameters are
          !
```

```
!  BRXA_CTLCHAR
 !  The 3270 Write Control Character (WCC) passed on SEND and
 !  CONVERSE commands as CTLCHAR. If not specified on the command
 !  the default value (X'C3'- unlock keyboard, reset MDT flags) is
 !  passed to the exit.
!  BRXA_ BUFFER_INDICATOR
 !  a one character field indicating whether BUFFER specified on
 !  RECEIVE command. Valid values are 'Y' or 'N', and constants are
 !  provided for the exit to test this field.
 !
 !  (BUFFER is not allowed on CONVERSE - diagnosed by translator)
!  BRXA_ STRFIELD_ INDICATOR
 !  a one character field indicating whether STRFIELD specified on
 !  SEND or CONVERSE command. Valid values are 'Y' or 'N', and
 !  constants are provided for the exit to test this field.
!  BRXA_ DEFRESP_INDICATOR
 !  a one character field indicating whether DEFRESP specified on
 !  SEND or CONVERSE command. Valid values are 'Y' or 'N', and
 !  constants are provided for the exit to test this field.
!  BRXA_ INVITE_INDICATOR
 !  a one character field indicating whether INVITE specified on
 !  SEND command. Valid values are 'Y' or 'N', and constants are
 !  provided for the exit to test this field.
 !
 !------------------------------------------------------------------
```

Table 42.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	53	BRXA_TC_COMMAND	
(0)	CHARACTER	48	*	
(30)	CHARACTER	1	BRXA_CTLCHAR	
(31)	CHARACTER	1	BRXA_BUFFER_ INDICATOR	
(32)	CHARACTER	1	BRXA_STRFIELD_ INDICATOR	
(33)	CHARACTER	1	BRXA_DEFRESP_ INDICATOR	
(34)	CHARACTER	1	BRXA_INVITE_ INDICATOR	

```
!:erefstep.brxa_  tc_command -------------------------------------------
!:refstep.brxa_  bms_command -------------------------- DFHBREXP 754 -
!
 !  The BMS command interface overlays the common command interface,
 !  and defines some BMS specific parameters.
 !
 !  Commands supported are SEND MAP, SEND TEXT, SEND CONTROL and
!  RECEIVE MAP.
 !
 !  The BMS specific parameters are:
 !
!  BRXA_MAPSET
 !  The (unsuffixed) mapset name specified on SEND MAP or RECEIVE
!  MAP.
!  BRXA_MAP
 !  The map name specified on SEND MAP or RECEIVE MAP.
!  BRXA_ ADS_DESCRIPTOR_ PTR
 !  The address of the ADS descriptor for BMS SEND MAP and RECEIVE
 !  MAP commands. This will be set by the interface code, if the
 !  Bridge has set the flag in the BRXA indicating that the
 !  descriptor should be loaded, and if the relevant mapset has been
```

```
  ! regenerated to include the descriptor. Otherwise this pointer
  ! will be set to 0.
! BRXA_CURSOR
  ! A halfword value containing the CURSOR position specified on
  ! SEND MAP, SEND TEXT or SEND CONTROL command, which identifies
  ! where the cursor is to be positioned on the 3270 screen. A value
  ! of -1 is passed if the application specified CURSOR with no
  ! value on SEND MAP command, indicating that symbolic cursor
  ! positioning is required, that is, that the cursor is to be
  ! positioned in the first field in the application data structure
  ! that has a value of -1 in the corresponding length field. A
  ! value of -2 is passed if the application did not specify CURSOR
  ! on the SEND MAP command.
! BRXA_MSR_DATA
  ! The four character value specified in MSR on SEND MAP, SEND
  ! CONTROL or SEND TEXT command. Constants are provided in the copy
  ! book DFHMSRCA which will allow the exit to test the values
! specified.
!
  ! NOTE: If we can assume that a BFB will always be constructed as
  ! if its TYPETERM was defined with MSRCONTROL(NO), then this
  ! parameter could be omitted, as for a 3270 terminal fro which
  ! MSRCONTROL(NO) is specified, BMS ignores the MSR field specified
  ! on the command.
! BRXA_ DATA_INDICATOR
  ! a one character field indicating whether DATAONLY, MAPONLY or
  ! neither are specified on the SEND MAP command. Valid values are
  ! 'D' (DATAONLY), 'M' (MAPONLY) or 'N'(neither specified) and
  ! constants are provided for the exit to test this field. (Note
  ! that if MAPONLY is specified, the FROM pointer and length will
  ! be zero, as there is no Apllication Data Structure in this
! case.)
! BRXA_ ERASEAUP_ INDICATOR
  ! a one character field indicating whether ERASAUP is specified on
  ! a SEND MAP or SEND CONTROL command. Valid values are 'Y' or 'N',
  ! and constants are provided for the exit to test this field.
! BRXA_ FREEKB_INDICATOR
  ! a one character field indicating whether FREEKB is specified on
  ! a SEND MAP SEND TEXT or SEND CONTROL command. Valid values are
  ! 'Y' or 'N', and constants are provided for the exit to test this
! field.
! BRXA_ ALARM_INDICATOR
  ! a one character field indicating whether ALARM is specified on a
  ! SEND MAP, SEND TEXT or SEND CONTROL command. Valid values are
  ! 'Y' or 'N', and constants are provided for the exit to test this
! field.
! BRXA_ MSR_INDICATOR
  ! a one character field indicating whether MSR is specified on a
  ! SEND MAP , SEND TEXT or SEND CONTROL command. Valid values are
  ! 'Y' or 'N', and constants are provided for the exit to test this
! field.
! BRXA_ FRSET_INDICATOR
  ! a one character field indicating whether FRSET is specified on a
  ! SEND MAP or SEND CONTROL command. Valid values are 'Y' or 'N',
  ! and constants are provided for the exit to test this field.
! BRXA_TEXT_TYPE
  ! a one character field indicating whether NOEDIT or MAPPED is
  ! specified on a SEND TEXT command. Valid values are ' ' ( neither
  ! NOEDIT nor MAPPED specified), 'N' (NOEDIT specified) and 'M'
  ! (MAPPED specified) and constants are provided for the exit to
  ! test this field.
!
  !-----------------------------------------------------------------
```

Table 43.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	108	BRXA_BMS_COMMAND	
(0)	CHARACTER	48	*	
(30)	CHARACTER	7	BRXA_MAPSET	
(37)	CHARACTER	1	BRXA_MAPSET_ INDICATOR	
(38)	CHARACTER	7	BRXA_MAP	
(3F)	CHARACTER	1	*	reserved
(40)	ADDRESS	4	BRXA_ADS_ DESCRIPTOR_PTR	
(44)	HALFWORD	2	BRXA_CURSOR	
(46)	CHARACTER	4	BRXA_MSR_DATA	
(4A)	CHARACTER	1	BRXA_DATA_ INDICATOR	
(4B)	CHARACTER	1	BRXA_ERASEAUP_ INDICATOR	
(4C)	CHARACTER	1	BRXA_FREEKB_ INDICATOR	
(4D)	CHARACTER	1	BRXA_ALARM_ INDICATOR	
(4E)	CHARACTER	1	BRXA_FRSET_ INDICATOR	
(4F)	CHARACTER	1	BRXA_MSR_ INDICATOR	
(50)	CHARACTER	1	BRXA_TEXT_TYPE	
(51)	CHARACTER	1	BRXA_ACCUM_ INDICATOR	
(52)	CHARACTER	1	BRXA_RELEASE_ INDICATOR	
(53)	CHARACTER	1	BRXA_RETAIN_ INDICATOR	
(54)	CHARACTER	4	BRXA_RELEASE_ TRANSID	
(58)	ADDRESS	4	BRXA_PAGE_ HEADER_PTR	
(5C)	FULLWORD	4	BRXA_PAGE_ HEADER_LEN	
(60)	ADDRESS	4	BRXA_PAGE_ TRAILER_PTR	
(64)	FULLWORD	4	BRXA_PAGE_ TRAILER_LEN	
(68)	CHARACTER	1	BRXA_PAGE_ HEADER_PAGENO	
(69)	CHARACTER	1	BRXA_PAGE_ TRAILER_PAGENO	
(6A)	CHARACTER	2	*	

```
!:erefstep.brxa_  bms_command ------------------------------------------
!:refstep.brxa_  ic_command -------------------------- DFHBREXP 859 -
!
  ! The Interval Control command interface overlays the common command
  ! interface, and defines some Interval Control specific parameters.
!
  ! The only command supported is RETRIEVE.
!
  ! The Interval Control specific parameters are:
!
! BRXA_RTERMID
  ! The value of RTERMID specified on START command. For the
  ! RETRIEVE command this is a field that the Bridge Exit can set to
  ! pass the RTERMID value back to the application issuing the
! RETRIEVE.
! BRXA_RTRANSID
  ! The value of RTRANSID specified on START command. For the
  ! RETRIEVE command this is a field that the Bridge Exit can set to
  ! pass the RTRANSID value back to the application issuing the
! RETRIEVE.
! BRXA_QUEUE
  ! The value of QUEUE specified on START command. For the RETRIEVE
  ! command this is a field in which the Bridge Exit can set the
  ! QUEUE value to be used by the application issuing the RETRIEVE.
!
  !----------------------------------------------------------------
```

Table 44.

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

```
!:erefstep.brxa_  ic_command -------------------------------------------
!:refstep.brxa_  sync_command ------------------------- DFHBREXP 959 -
!
  ! This command area defines actions at syncpoint and syncpoint
! rollback. brxa_  explicit is used to indicate whether this request
  ! originated from an explicit EXEC CICS SYNCPOINT command, or
  ! whether it is an implicit syncpoint generated by CICS. It will be
  ! set to 'Y' or 'N' prior to invoking the exit, and constants are
  ! provided for the exit to test this field. Valid values for
  ! rollback are 'Y' or 'N', and constants are provided for the exit
  ! to test this field.
!
  !----------------------------------------------------------------
```

Table 45.

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

```
!:erefstep.brxa_  sync_command ---------------------------------------
!:refstep.brxa_  msg_command -------------------------- DFHBREXP 975 -
!
  ! This command area defines actions when the bridge exit is called
  ! to read or write a message. These functions are only used if the
  ! bridge exit specified a formatter on initialisation.
!
  ! This command area defines the following functions:
!
! Init
  ! The purpose of this call is for the Bridge Exit pass CICS
  ! various parameters to run the transaction. Typically the BRDATA
  ! will be used to obtain this information.
!
  ! The following values can be set in the transaction and common
  ! areas area for this request.
!
! - BRXA_ STARTCODE
!
! - BRXA_ LOAD_ADS_ DESCRIPTOR
!
! - BRXA_ FACILITYLIKE
!
! - BRXA_ FACILITY_TOKEN
!
! - BRXA_ USER_ABEND_CODE
!
! - BRXA_ IDENTIFIER
!
  !------------------------------------------------------------------
```

Table 46.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	BRXA_MSG_COMMAND	
(0)	CHARACTER	48	*	

```
!:erefstep.brxa_ command_ area ---------------------------------------
!:refstep.ADS_  descriptor -------------------------- DFHBREXP 1001 -
!
  ! The ADS descriptor is provided to allow interpretation of the BMS
  ! Application Data Structure - that is, the structure used by the
  ! application program for the data in SEND and RECEIVE MAP requests
  ! - by an exit program, without requiring the exit program to
  ! include the relevant copy book at compile time.
!
  ! The ADS descriptor is only available if the map load module has
  ! been reassembled to include the descriptor, and CICS only attempts
! to locate the descriptor if the brxa_ load_ADS_ descriptor indicator
! is set to brxa_  yes in the Bridge Exit initialisation call.
!
  ! The ADS descriptor contains a header containing general
  ! information about the map, together with a field descriptor for
  ! every field which appears in the ADS, that is every named field in
  ! the map definition macro.
!
  ! The header consists of the following information
!
! ADSD_LENGTH
  ! The length of the ADS descriptor
! ADSD_ EYECATCHER
  ! An eyecatcher ('ADSD') to identify this as an ADS descriptor
! ADSD_MAP_INDEX
  ! The index of the map within the mapset. This is needed to
  ! determine the HTML template corresponding to the map.
! ADSD_ FIELD_COUNT
```

```
! the number of fields within the ADS, that is the number of named
! fields in the map definition macros. A separate field is counted
! for each element of an array defined with the OCCURS parameter,
! but subfields of group fields (GRPNAME) are not counted. The
! field count may be zero, in which case there are no field
! descriptors following the header.
! ADSD_ STRUCTURE_LENGTH
! the length of the application data structure
! ADSD_ ATTRIBUTE_NUMBER
! the number of extended attributes in each field of the ADS, that
! is the number of attributes specified in DSATTS in the map
! definition.
! ADSD_ ATTRIBUTE_ TYPE_CODES
!
! one character code for the attribute types in
! each field, in order, derived from DSATTS
!
! - C = COLOR
!
! - P = PS
!
! - H = HILIGHT
!
! - V = VALIDN
!
! - O = OUTLINE
!
! - S = SOSI
!
! - T = TRANSP
!
! ADSD_ MAP_JUSTIFY_HOR
! the horizontal justification for the map, either L (LEFT) or R
! (RIGHT) from JUSTIFY operand on map definition.
! ADSD_ MAP_JUSTIFY_VER
! the vertical justification for the map, from JUSTIFY operand on
! map definition. This can have the values F (FIRST), L (LAST) or
! B (BOTTOM) or blank (no vertical JUSTIFY operand).
! ADSD_ MAP_STARTING_LINE
! the starting line for the map, from LINE operand on DFHMDI macro
! (LINE = NEXT will give a value of 255, LINE = SAME will give a
! value of 254)
! ADSD_ MAP_STARTING_ COLUMN
! the starting column for the map, from COLUMN operand on DFHMDI
! macro (COLUMN = NEXT will give a value of 255, COLUMN = SAME
! will give a value of 254)
! ADSD_MAP_LINES
! the number of lines in the map from SIZE= operand
! ADSD_ MAP_COLUMNS
! the number of columns in the map from SIZE= operand
! ADSD_ WRITE_CONTROL_ CHAR
! the 3270 encoded WCC derived from CONTROL= operand
! ADSD_ FIRST_FIELD
! the first field descriptor occurs here. Use the address of
! ADSD_  FIRST_FIELD as the initial value of the pointer for the
! field descriptor (unless ADSD_  field_count is 0).
!
! The field descriptor for each field within the map consists of
!
! ADSD_ FIELD_NAME
! the unsuffixed field name padded with blanks
! ADSD_ FIELD_NAME_LEN
! the number of characters in the field name
! ADSD_ OCCURS_INDEX
! when OCCURS is specified for a field definition there will be a
! separate field descriptor for each element of the array, and
! occurs_  index will indicate the array index for the particular
```

```
! field if OCCURS not specified, then occurs_ index will be 0
! ADSD_ FIELD_OFFSET
  ! the offset of the field within the ADS the offset is to the
  ! beginning of the (halfword) length field, and users must add 2
  ! (for the length field) + 1 (for the 3270 attribute) +
! attribute_  number (for the extended attributes specified in
  ! DSATTS) to get the offset of the data part of the field
! ADSD_ FIELD_DATA_LEN
  ! the length of the field in the ADS
! ADSD_ FIELD_JUSTIFY
  ! indicates whether the data is to be justified left (L) or right
  ! (R) if the supplied length is less than the length in the ADS
! ADSD_ FIELD_FILL_CHAR
  ! the character (blank or '0') to be used to fill the remainder of
  ! the field in the ADS.
! ADSD_ NEXT_FIELD
  ! the next field descriptor occurs here. Use the address of
! ADSD_  NEXT_FIELD to update the pointer for the field descriptor.
!
   !-------------------------------------------------------------------
```

Table 47.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	ADS_DESCRIPTOR	
(0)	HALFWORD	2	ADSD_LENGTH	
(2)	CHARACTER	4	ADSD_EYECATCHER	
(6)	HALFWORD	2	ADSD_MAP_INDEX	
(8)	HALFWORD	2	ADSD_FIELD_COUNT	
(A)	HALFWORD	2	ADSD_STRUCTURE_ LENGTH	
(C)	HALFWORD	2	ADSD_ATTRIBUTE_ NUMBER	
(E)	CHARACTER	1	ADSD_ATTRIBUTE_ TYPE_CODES (4294967308:130359296)	
(1A)	CHARACTER	1	ADSD_MAP_ JUSTIFY_HOR	
(1B)	CHARACTER	1	ADSD_MAP_ JUSTIFY_VER	
(1C)	HALFWORD	2	ADSD_MAP_ STARTING_LINE	
(1E)	HALFWORD	2	ADSD_MAP_ STARTING_COLUMN	
(20)	HALFWORD	2	ADSD_MAP_LINES	
(22)	HALFWORD	2	ADSD_MAP_COLUMNS	
(24)	CHARACTER	1	ADSD_WRITE_ CONTROL_CHAR	
(25)	CHARACTER	1	*	
(26)	CHARACTER	*	ADSD_FIRST_FIELD	

Table 48.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	ADS_FIELD_ DESCRIPTOR	
(0)	CHARACTER	32	ADSD_FIELD_NAME	
(20)	HALFWORD	2	ADSD_FIELD_ NAME_LEN	
(22)	HALFWORD	2	ADSD_OCCURS_ INDEX	
(24)	HALFWORD	2	ADSD_FIELD_ OFFSET	
(26)	HALFWORD	2	ADSD_FIELD_ DATA_LEN	
(28)	CHARACTER	1	ADSD_FIELD_ JUSTIFY	
(29)	CHARACTER	1	ADSD_FIELD_ FILL_CHAR	
(2A)	CHARACTER	*	ADSD_NEXT_FIELD	

!:erefstep.ADS_ descriptor --

Table 49.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	ADS_LONG_ DESCRIPTOR	
(0)	FULLWORD	4	ADSDL_LENGTH	
(4)	CHARACTER	4	ADSDL_EYECATCHER	
(8)	FULLWORD	4	ADSDL_MAP_INDEX	
(C)	FULLWORD	4	ADSDL_FIELD_ COUNT	
(10)	FULLWORD	4	ADSDL_STRUCTURE_ LENGTH	
(14)	FULLWORD	4	ADSDL_ATTRIBUTE_ NUMBER	
(18)	CHARACTER	1	ADSDL_ATTRIBUTE_ TYPE_CODES (4294967308:130365152)	
(24)	CHARACTER	1	ADSDL_MAP_ JUSTIFY_HOR	
(25)	CHARACTER	1	ADSDL_MAP_ JUSTIFY_VER	
(26)	CHARACTER	2	*	
(28)	FULLWORD	4	ADSDL_MAP_ STARTING_LINE	
(2C)	FULLWORD	4	ADSDL_MAP_ STARTING_COLUMN	
(30)	FULLWORD	4	ADSDL_MAP_LINES	

Offset Hex	Type	Len	Name (dim)	Description
(34)	FULLWORD	4	ADSDL_MAP_ COLUMNS	
(38)	CHARACTER	1	ADSDL_WRITE_ CONTROL_CHAR	
(39)	CHARACTER	3	*	
(3C)	CHARACTER	*	ADSDL_FIRST_ FIELD	

Table 50.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	ADS_LONG_ FIELD_DESCRIPTOR	
(0)	CHARACTER	32	ADSDL_FIELD_NAME	
(20)	FULLWORD	4	ADSDL_FIELD_ NAME_LEN	
(24)	FULLWORD	4	ADSDL_OCCURS_ INDEX	
(28)	FULLWORD	4	ADSDL_FIELD_ OFFSET	
(2C)	FULLWORD	4	ADSDL_FIELD_ DATA_LEN	
(30)	CHARACTER	1	ADSDL_FIELD_ JUSTIFY	
(31)	CHARACTER	1	ADSDL_FIELD_ FILL_CHAR	
(32)	CHARACTER	2	*	
(34)	CHARACTER	*	ADSDL_NEXT_FIELD	

CDBLK CONVDATA block

```
CONTROL BLOCK NAME = DFHCDBLK
DESCRIPTIVE NAME  = CICS CONVDATA Block.
   @BANNER_START 02
                        DFHCDBLK
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = CONVDATA interface block
       This data area is specified on the CONVDATA option in GDS
       commands (see the CICS Distributed Transaction Processing
       Guide for a description of GDS commands for LU6.2).
       An application program can include the Assembler or C
       versions of the copybook to define the area.
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS =
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS =
```

```
                MODULE TYPE = Control block definition
      ----------------------------------------------------------------
       EXTERNAL REFERENCES =
           DATA AREAS =
           CONTROL BLOCKS =
           GLOBAL VARIABLES (Macro pass) =
      ----------------------------------------------------------------
```

Table 51.

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

CFS6D CFDT Server CF statistics

```
                CONTROL BLOCK NAME = DFHCFS6D
                DESCRIPTIVE NAME  = CICS (CFDT) Statistics for list structure.
                   @BANNER_START 02
                                    DFHCFS6D
                   Licensed Materials - Property of IBM
                   "Restricted Materials of IBM"
                   5655-S97
                   @BANNER_END
                FUNCTION = CF Statistics for list structure usage and access.
                LIFETIME = N/A
                STORAGE CLASS = N/A
                LOCATION = N/A
                     N/A
                NOTES :
                   DEPENDENCIES = S/370
                   MODULE TYPE = Control block definition
      ----------------------------------------------------------------
```

Table 52.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHCFS6D	, CF list structure statistics record

Table 52. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	FULLWORD	4	S6 (0)	Start of record
(0)	HALFWORD	2	S6LEN	Length of data area
(0)	SIGNED	0	S6IDE	"0126" List structure stats mask
(2)	ADDRESS	2	S6ID	List structure stats id
(2)	BITSTRING	0	S6VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	S6DVERS	List structure stats version number
(5)	CHARACTER	3		Reserved
Coupling facility list structure status information.				
(8)	CHARACTER	16	S6NAME (0)	Full name of list structure
(8)	CHARACTER	8	S6PREF	First part of structure name
(10)	CHARACTER	8	S6POOL	Pool name part of structure name
(18)	CHARACTER	16	S6CNNAME (0)	Name for connection to structure
(18)	CHARACTER	8	S6CNPREF	Prefix for connection name
(20)	CHARACTER	8	S6CNSYSN	Own MVS system name from CVTSNAME
(28)	ADDRESS	4	S6SIZE	Structure size in 4K pages
(2C)	ADDRESS	4	S6SIZEMX	Maximum size in 4K pages
(30)	FULLWORD	4	S6HDRS	Maximum number of list headers
(34)	FULLWORD	4	S6HDRSCT	Headers used for control lists
(38)	FULLWORD	4	S6HDRSTD	Headers available for table data
(3C)	FULLWORD	4	S6ELEMLN	Data element size as a fullword
(40)	ADDRESS	4	S6ELEMPW	Data element size as power of 2
(44)	ADDRESS	4	S6ELEMPE	Max elements per entry (for 32K)
(48)	FULLWORD	4	S6ELEMRT	Element side of entry:element ratio
(4C)	FULLWORD	4	S6ENTRRT	Entry side of entry:element ratio

Table 52. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Usage statistics. Entry and element usage statistics. Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER.				
(50)	FULLWORD	4	S6ENTRCT	Current number of entries in use
(54)	FULLWORD	4	S6ENTRHI	Highest number of entries in use
(58)	FULLWORD	4	S6ENTRLO	Lowest number of free entries
(5C)	FULLWORD	4	S6ENTRMX	Max entries returned by IXLCONN
(60)	FULLWORD	4	S6ELEMCT	Current number of elements in use
(64)	FULLWORD	4	S6ELEMHI	Highest number of elements in use
(68)	FULLWORD	4	S6ELEMLO	Lowest number of free elements
(6C)	FULLWORD	4	S6ELEMMX	Max elements returned by IXLCONN
List entry counts returned by IXLLIST requests. Note that when lists are moved from free to used and vice versa, IXLLIST only returns the target information, so the counts are often slightly inconsistent.				
(70)	DBL WORD	8	S6USEVEC (0)	Usage vector, five pairs of words
(70)	FULLWORD	4	S6USEDCT	Number of entries on used list
(74)	FULLWORD	4	S6USEDHI	Highest entries on used list
(78)	FULLWORD	4	S6FREECT	Number of entries on free list
(7C)	FULLWORD	4	S6FREEHI	Highest entries on free list
(80)	FULLWORD	4	S6INDXCT	Number of entries in table index
(84)	FULLWORD	4	S6INDXHI	Highest entries in table index
(88)	FULLWORD	4	S6APPLCT	Number of entries in APPLID list
(8C)	FULLWORD	4	S6APPLHI	Highest entries in APPLID list
(90)	FULLWORD	4	S6UOWLCT	Number of entries in UOW list
(94)	FULLWORD	4	S6UOWLHI	Highest entries in UOW list
Coupling facility I/O statistics. Statistics for each main type of CF request.				

Table 52. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(98)	FULLWORD	4	S6RDICT	Read table index entry
(9C)	FULLWORD	4	S6WRICT	Write table index entry
(A0)	FULLWORD	4	S6RWICT	Rewrite table index entry
(A4)	FULLWORD	4	S6DLICT	Delete table index entry
(A8)	FULLWORD	4	S6CRLCT	Create list
(AC)	FULLWORD	4	S6MDLCT	Modify list
(B0)	FULLWORD	4	S6DLLCT	Delete list (1 per overall delete)
(B4)	FULLWORD	4	S6RDDCT	Read data item
(B8)	FULLWORD	4	S6WRDCT	Write data item
(BC)	FULLWORD	4	S6RWDCT	Rewrite data item
(C0)	FULLWORD	4	S6DLDCT	Delete data item
(C4)	FULLWORD	4	S6INLCT	Inquire on data list
(C8)	FULLWORD	4	S6RDMCT	Read message queue
(CC)	FULLWORD	4	S6WRMCT	Write to message queue
(D0)	FULLWORD	4	S6RDUCT	Read UOW entry
(D4)	FULLWORD	4	S6WRUCT	Write UOW entry
(D8)	FULLWORD	4	S6RWUCT	Rewrite UOW entry
(DC)	FULLWORD	4	S6DLUCT	Delete UOW entry
(E0)	FULLWORD	4	S6RDACT	Read APPLID entry
(E4)	FULLWORD	4	S6WRACT	Write APPLID entry
(E8)	FULLWORD	4	S6RWACT	Rewrite APPLID entry
(EC)	FULLWORD	4	S6DLACT	Delete APPLID entry
Statistics for internal CF requests.				
(F0)	FULLWORD	4	S6RRLCT	Reread entry for full data length
(F4)	FULLWORD	4	S6ASYCT	Number of asynchronous requests
IXLLIST completion statistics indexed by internal response value.				
(F8)	FULLWORD	4	S6RSP1CT	Normal response, everything OK
(FC)	FULLWORD	4	S6RSP2CT	Buffer length was too short for the data, needs full length reread

Table 52. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(100)	FULLWORD	4	S6RSP3CT	No matching entry was found, indicates table not found in index or record not found in table
(104)	FULLWORD	4	S6RSP4CT	Entry version did not match, indicates entry updated by another system or duplicate entry exists when attempting to create entry
(108)	FULLWORD	4	S6RSP5CT	List authority comparison mismatch, caused by table status update
(10C)	FULLWORD	4	S6RSP6CT	Maximum list key reached, indicates max table size or max tables reached depending on list
(110)	FULLWORD	4	S6RSP7CT	The list structure is out of space
(114)	FULLWORD	4	S6RSP8CT	An IXLLIST return code occurred other than those described above
(118)	FULLWORD	4	S6RSP9CT	Structure temporarily unavailable, for example during rebuild
(118)		0	S6END	"*"
(118)		0	S6CLEN	"*-S6LEN" Length of this DSECT

CFS7D CFDT Server Table Statistics

```
CONTROL BLOCK NAME = DFHCFS7D
DESCRIPTIVE NAME  = CICS (CFDT) Statistics for table accesses.
   @BANNER_START 02
                          DFHCFS7D
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = CF Statistics for table accesses.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
        N/A
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
 ----------------------------------------------------------------
```

Table 53.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHCFS7D	, CF table access statistics record
(0)	FULLWORD	4	S7 (0)	Start of record
(0)	HALFWORD	2	S7LEN	Length of data area
(0)	SIGNED	0	S7IDE	"0127" Table access stats mask
(2)	ADDRESS	2	S7ID	Table access stats id
(2)	BITSTRING	0	S7VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	S7DVERS	Table access stats version number
(5)	CHARACTER	3		Reserved
`Coupling facility data table access statistics.`				
(8)	CHARACTER	16	S7TABLE	Table name padded with spaces
`Statistics vector.`				
(18)	BITSTRING	60	S7STATS (0)	Statistics vector
`Table control request statistics.`				
(18)	FULLWORD	4	S7OCOPEN	Open table
(1C)	FULLWORD	4	S7OCCLOS	Close table
(20)	FULLWORD	4	S7OCSET	Set table attributes
(24)	FULLWORD	4	S7OCDELE	Delete table
(28)	FULLWORD	4	S7OCSTAT	Extract table statistics
`Table access request statistics.`				
(2C)	FULLWORD	4	S7RQPOIN	Point
(30)	FULLWORD	4	S7RQHIGH	Return highest key
(34)	FULLWORD	4	S7RQREAD	Read (including read for update)
(38)	FULLWORD	4	S7RQRDDL	Read and delete
(3C)	FULLWORD	4	S7RQUNLK	Unlock
(40)	FULLWORD	4	S7RQLOAD	Load
(44)	FULLWORD	4	S7RQWRIT	Write (new record)
(48)	FULLWORD	4	S7RQREWR	Rewrite
(4C)	FULLWORD	4	S7RQDELE	Delete
(50)	FULLWORD	4	S7RQDELM	Delete multiple
(50)		0	S7END	"*"
(50)		0	S7CLEN	"*-S7LEN" Length of this DSECT

CFS8D CFDT Server Request Statistics

```
CONTROL BLOCK NAME = DFHCFS8D
DESCRIPTIVE NAME  = CICS (CFDT) Request statistics.
   @BANNER_START 02

                         DFHCFS8D
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = CF data table server request statistics.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
      N/A
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
------------------------------------------------------------------
```

Table 54.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHCFS8D	, CFDT request statistics record
(0)	FULLWORD	4	S8 (0)	Start of record
(0)	HALFWORD	2	S8LEN	Length of data area
(0)	SIGNED	0	S8IDE	"0128" Server request stats mask
(2)	ADDRESS	2	S8ID	Server request stats id
(2)	BITSTRING	0	S8VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	S8DVERS	Server request stats version number
(5)	CHARACTER	3		Reserved
Statistics vector.				
(8)	BITSTRING	88	S8STATS (0)	Statistics vector
Total table control request statistics for all tables.				
(8)	FULLWORD	4	S8OCOPEN	Open table
(C)	FULLWORD	4	S8OCCLOS	Close table
(10)	FULLWORD	4	S8OCSET	Set table attributes
(14)	FULLWORD	4	S8OCDELE	Delete table
(18)	FULLWORD	4	S8OCSTAT	Extract table statistics
Total table access request statistics for all tables.				
(1C)	FULLWORD	4	S8RQPOIN	Point to record
(20)	FULLWORD	4	S8RQHIGH	Return highest key
(24)	FULLWORD	4	S8RQREAD	Read record (includes for update)
(28)	FULLWORD	4	S8RQRDDL	Read and delete record
(2C)	FULLWORD	4	S8RQUNLK	Unlock record

Table 54. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	FULLWORD	4	S8RQLOAD	Load record at initial load time
(34)	FULLWORD	4	S8RQWRIT	Write new record
(38)	FULLWORD	4	S8RQREWR	Rewrite existing record
(3C)	FULLWORD	4	S8RQDELE	Delete record
(40)	FULLWORD	4	S8RQDELM	Delete multiple records
Total inquire table statistics.				
(44)	FULLWORD	4	S8IQINQU	Inquire table
Total recovery control request statistics.				
(48)	FULLWORD	4	S8SPPREP	Prepare to commit unit of work
(4C)	FULLWORD	4	S8SPRETA	Retain locks for unit of work
(50)	FULLWORD	4	S8SPCOMM	Commit unit of work
(54)	FULLWORD	4	S8SPBACK	Back out unit of work
(58)	FULLWORD	4	S8SPINQU	Inquire about unit of work
(5C)	FULLWORD	4	S8SPREST	Restart recoverable connection
(5C)		0	S8END	"*"
(5C)		0	S8CLEN	"*-S8LEN" Length of this DSECT

CFS9D CFDT Server Storage Statistics

```
              CONTROL BLOCK NAME = DFHCFS9D
              DESCRIPTIVE NAME  = CICS (CFDT) Statistics for server storage.
                 @BANNER_START 02
                                 DFHCFS9D
                 Licensed Materials - Property of IBM
                 "Restricted Materials of IBM"
                 5655-S97
                 @BANNER_END
              FUNCTION = CF Statistics for server main storage usage.
              LIFETIME = N/A
              STORAGE CLASS = N/A
              LOCATION = N/A
                     N/A
              NOTES :
                 DEPENDENCIES = S/370
                 MODULE TYPE = Control block definition
              ----------------------------------------------------------------
```

Table 55.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHCFS9D	, CF main storage statistics record
(0)	FULLWORD	4	S9 (0)	Start of record

Table 55. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	ADDRESS	2	S9LEN	Length of data area
(0)	SIGNED	0	S9IDE	"0129" CF DT main storage stats mask
(2)	ADDRESS	2	S9ID	CF DT main storage stats id
(2)	BITSTRING	0	S9VERS	"X'01'" DSECT version number mask
(4)	ADDRESS	1	S9DVERS	CF DT main storage stats version
(5)	BITSTRING	3		Reserved
These are the statistics returned by the AXM page pool management routines for the pools AXMPGANY and AXMPGLOW. Storage in these pools is allocated in multiples of 4K pages on a 4K boundary. The most frequent use is for segments of LIFO stack storage. Storage is initially allocated from the pool using a bit map. For faster allocation, free areas are not normally returned to the pool but are added to a vector of free chains depending on the size of the free area (1 to 32 pages). When storage is being acquired, this vector is checked before going to the pool bit map. If there are no free areas of the right size and there is not enough storage left in the pool, free areas in the vector are put back into the pool, starting from the smallest end, until a large enough area has been created. This action appears as a compress attempt in the statistics. If there is still insufficient storage to satisfy the request, the request is failed. Statistics for LOC=ANY storage pool.				
(8)	CHARACTER	8	S9ANYNAM	Pool name AXMPGANY
(10)	FULLWORD	4	S9ANYSIZ	Size of storage pool area
(14)	ADDRESS	4	S9ANYPTR	Address of storage pool area
(18)	FULLWORD	4	S9ANYMX	Total pages in the storage pool
(1C)	FULLWORD	4	S9ANYUS	Number of used pages in the pool
(20)	FULLWORD	4	S9ANYFR	Number of free pages in the pool
(24)	FULLWORD	4	S9ANYLO	Lowest free pages (since reset)
(28)	FULLWORD	4	S9ANYRQG	Storage GET requests
(2C)	FULLWORD	4	S9ANYRQF	Storage FREE requests
(30)	FULLWORD	4	S9ANYRQS	GETs which failed to get storage
(34)	FULLWORD	4	S9ANYRQC	Compress (defragmentation) attempts
Statistics for LOC=BELOW storage pool.				

Table 55. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	CHARACTER	8	S9LOWNAM	Pool name AXMPGLOW
(40)	FULLWORD	4	S9LOWSIZ	Size of storage pool area
(44)	ADDRESS	4	S9LOWPTR	Address of storage pool area
(48)	FULLWORD	4	S9LOWMX	Total pages in the storage pool
(4C)	FULLWORD	4	S9LOWUS	Number of used pages in the pool
(50)	FULLWORD	4	S9LOWFR	Number of free pages in the pool
(54)	FULLWORD	4	S9LOWLO	Lowest free pages (since reset)
(58)	FULLWORD	4	S9LOWRQG	Storage GET requests
(5C)	FULLWORD	4	S9LOWRQF	Storage FREE requests
(60)	FULLWORD	4	S9LOWRQS	GETs which failed to get storage
(64)	FULLWORD	4	S9LOWRQC	Compress (defragmentation) attempts
(64)		0	S9END	"*"
(64)		0	S9CLEN	"*-S9LEN" Length of this DSECT

CLT Command list table

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

```
The CLT load module is link-edited into an APF Authorized
library.
During takeover, the CICS Alternate calls the XRF
Takeover Initiation program to terminate the CICS
Active with an MVS System Operator command and to have
the commands specified in the CLT issued to, for example,
request MRO related systems to takeover.
```

Table 56.

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

`TYPE=LISTSTART generated fields`

Table 57.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	CLTI1DS	CLT Index 1 DSECT
`Index 1 entry`				
(0)	CHARACTER	4	CLT1END (0)	Zero if end of Index 1
(0)	CHARACTER	8	CLT1SAPL	Specific APPLID of Alternate
(8)	CHARACTER	8	CLT1CANN	Jobname on termination command
(10)	ADDRESS	4	CLT1ADI2	Address of Index 2 for this

Table 57. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)		0	CLT1LEN	"*-CLTI1DS" Length of Index 1 entry

```
TYPE=COMMAND and TYPE=WTO generated fields
```

Table 58.

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

Table 59.

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

CRB Cross region block

```
CONTROL BLOCK NAME = DFHCRBPS
DESCRIPTIVE NAME  = CICS Cross Region Block
 @BANNER_START 02
                    DFHCRBPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
 FUNCTION =
```

```
                    This DSECT describes the CICS region block, which is
                    used by the CICS inter-region communication facility.
                    The block is used to control inter-region activity
                    at a global level, as opposed to controlling the
                    activity of individual links with other regions.
                    The conversational TCTTE (hung off the 'ISLINK'
                    system entry in the TCT) is the block which
                    controls individual 'conversations' between CICS
                    and other regions.
                    The CRB is allocated when the facility is started
                    up (by the start-up program, DFHCRSP), and freed when
                    the facility is shut down (via the IS LOGOFF COMMND).
                    The block contains, amongst other things, argument
                    lists and other information required to communicate
                    with the inter-region SVC (DFHIRCP)
           LIFETIME =
           STORAGE CLASS =
           LOCATION =
           INNER CONTROL BLOCKS =
           NOTES :
            DEPENDENCIES = S/370
            RESTRICTIONS =
            MODULE TYPE = Control block definition
          ------------------------------------------------------------------
           EXTERNAL REFERENCES =
             DATA AREAS =
             CONTROL BLOCKS =
             GLOBAL VARIABLES (Macro pass) =
          ------------------------------------------------------------------
```

Table 60.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	104	DFHCRBDS	
(0)	CHARACTER	8	CRBEYE	Eyecatcher
(8)	FULLWORD	4	CRBSVCLS	ALIST FOR SVC FULL WORD ALIGNMENT
(C)	CHARACTER	40	CRBSVCSB	SUBLIST FOR SVC
(34)	ADDRESS	4	*	Reserved
(38)	FULLWORD	4	CRBUSID	SVC USER ID ALLOC'D TO CICS
(3C)	ADDRESS	4	CRBSLCB	A(SVC'S SLCB CTL BLOCK)
(40)	CHARACTER	8	CRBIMQTK	Immed queue token for queue manager
(48)	CHARACTER	8	CRBDLQTK	Delay queue token for queue manager
(50)	CHARACTER	8	CRBSTASV	SAVE REGS 13,14 IN STAE
(50)	FULLWORD	4	*	REGS 13
(54)	FULLWORD	4	*	REGS 14
(58)	HALFWORD	2	CRBSVCIN	INSTR TO INVOKE INTER-RGN SVC
(5A)	CHARACTER	2	*	Reserved
(5C)	BIT(8)	1	CRBFLG1	FLAG BYTE
	1...		*	80 reserved

Offset Hex	Type	Len	Name (dim)	Description
	.1..		CRBSCSMT	40 SUPPRESS 'QUIESCE COMPLETE' MSG TO CSMT IN CSNC. (THIS BIT SET WHEN INTER-RGN FCLY STOPPED BY STP OR SRP)
	..1.		*	20 reserved
	...1		*	10 reserved
	.... 1...		CRBABND	08 CSNC HAS ABENDED- NRML SHUT MUSTN'T ISSUE IS STOPNML
(5D)	CHARACTER	3	*	alignment
(60)	ADDRESS	4	*	Reserved
(64)	ADDRESS	4	CRBDSTOK	DS token for work exit

CSA Common system area generator

```
                 CONTROL BLOCK NAME = DFHCSAPS
                 DESCRIPTIVE NAME  = CICS COMMON SYSTEM AREA GENERATOR.
                  @BANNER_START 02
                                    DFHCSAPS
                  Licensed Materials - Property of IBM
                  "Restricted Materials of IBM"
                  5655-S97
                  @BANNER_END
                 FUNCTION =
                         DFHCSAPS GENERATES THE DSECT FOR THE CICS COMMON
                         SYSTEM AREA.
                 NOTES :
                  DEPENDENCIES = S/370
                  RESTRICTIONS = NONE
                  REGISTER CONVENTIONS = NOT APPLICABLE
                  PATCH LABEL = NOT APPLICABLE
                  MODULE TYPE = MACRO
                  MODULE SIZE = NOT APPLICABLE
                  ATTRIBUTES = NOT APPLICABLE
                 MACROS : DFHAFCD, DFHEJECT, DFHPRINT, DFHSYS
                 -------------------------------------------------------------------
                 -------------------------------------------------------------------
              D
                 -------------------------------------------------------------------
                 dummy change for apar pq48275
```

Table 61.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	452	DFHCSADS	SECTION - CSA
(0)	CHARACTER	0	DFHCSABA	COMMON SYSTEM AREA BEGIN ADDRESS

Table 61. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	FULLWORD	4	CSAOSRSA (4294967314:130037848)	CONTROL SYSTEM REGISTER AREA
(48)	CHARACTER	0	CSASOSI	SHORT ON STORAGE INDICATOR
(48)	BIT(8)	1	CSASSI1	SYSTEM SIGNAL INDICATOR 1
	1...		CSAFPURG	DFHKCP HAS USED FORCE PURGE
	.1..		CSAFTCAB	RMI forced TCAs below 16M
	..1.		CSASDTRN	SDTRAN STARTED
	...1		CSAQUIES	FINAL QUIESCE STAGE
	.... 1...		*	
	.... .1..		*	
	.... ..1.		CSACSDOP	CSD OPEN IN START-UP
	1		CSASOSON	SHORT ON STORAGE CONDITION
(49)	CHARACTER	0	CSAKCMI	MAXIMUM NUMBER OF TASKS IND
(49)	BIT(8)	1	CSASSI2	SYSTEM SIGNAL INDICATOR 2 CONDITION
	1...		CSASTIM	SYSTEM TERMINATION INDICATOR MASK
	.1..		CSAFNLTM	FINAL TERMINATION PHASE POSTING MASK
	..1.		CSATCSCN	TCP full scan required
	...1		CSAPLTPI	PLTPI PHASE HAS COMPLETED
	.... 1...		CSATCPQM	TERMINAL CONTROL QUIESCE TASK
	.... .1..		CSATQIM	TRANSACTION QUIESCE INDICATOR MASK
	.... ..1.		CSAMXTON	MAXIMUM TASK INDICATOR ON CONDITION

Table 61. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		CSATCPEV	TCP-KCP PENDING EVENT.
(4A)	CHARACTER	2	*	Reserved
(4C)	ADDRESS	4	CSAQRTCA	DO NOT USE: Non threadsafe. Previously -> TCA of current task. Now contains a fetch protected address.
(50)	CHARACTER	4	CSATODP	TIME OF DAY. A PACKED INTEGER OF THE FORM HHMMSSTC WHERE HH IS HOURS, MM IS MINUTES, SS IS SECONDS, T IS TENTHS OF A SECOND AND C IS A POSITIVE SIGN.
(54)	ADDRESS	4	CSAICEBA	INTERVAL CONTROL ELEMENT (ICE) CHAIN BEGINNING ADDRESS
(58)	HALFWORD	2	CSAICSIC	default DTIMOUT interval in seconds.
(5A)	BIT(8)	1	CSADATFT	DATE FORMAT INDICATOR
	1...		*	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		CSADATFY	FORMAT AS YYMMDD
	.... ..1.		CSADATFD	FORMAT AS DDMMYY
	1		CSADATFM	FORMAT AS MMDDYY
(5B)	BIT(8)	1	CSAICIND	INTERVAL CONTROL INDICATOR
	1...		*	
	.1..		*	
	..1.		*	
	...1		CSAICMNR	AUTORESETTIME INDICATOR
	.... 1...		*	

Table 61. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		*	
	.... ..1.		CSAICITP	ADJUSTMENT TASK PENDING MASK
	1		CSAICIAJ	TIME-OF-DAY ADJUSTMENT MASK
(5C)	FULLWORD	4	CSATADJT	TIME OF DAY ADJUSTMENT VALUE. THE DIFFERENCE BETWEEN THE OPERATING SYSTEM TIME OF DAY AND THE CICS TIME OF DAY EXPRESSED IN 300THS OF A SECOND.
(60)	CHARACTER	4	CSACTODB	CURRENT TIME OF DAY. A BINARY INTEGER OF WHICH THE LEAST SIGNIFICANT BIT REPRESENTS ONE ONE-HUNDREDTH OF A SECOND.
(60)	FULLWORD	4	CSACSCC	COMMON SYSTEM CONTROL CLOCK
(64)	FULLWORD	4	CSASBTI	SYSTEM PARTITION/ REGION EXIT TIMER INTERVAL EXPRESSED IN 300THS OF A SECOND (CICS TIMER UNITS) IN THE THREE HIGH-ORDER BYTES.
(68)	ADDRESS	4	CSAEITHG	HIRED GUN TABLE ADDRESS
(6C)	FULLWORD	4	CSASITOD	SYSTEM INITIALIZATION TIME OF DAY IN BINARY SECONDS.
(70)	BIT(8)	1	CSACPSM	Used by CPSM
	1...		CSAONE	PK37813 is applied
	.111 1111		*	Reserved
(71)	BIT(8)	1	CSACPSMW	CPSM/WU COMPONENT FLAG
	1...		CSACPSML	LMAS AGENT STARTED

Table 61. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		CSACPSMR	RMAS AGENT STARTED
	..1.		CSACPSMT	MAS TRUE ENABLED
	...1		CSACPSMD	DEBUG TRUE
	 1111		*	Reserved
(72)	CHARACTER	2	*	Reserved
(74)	ADDRESS	4	CSAPLBA	PARTITION LOWER BOUNDARY ADDRESS
(78)	ADDRESS	4	CSAPUBA	PARTITION UPPER BOUNDARY ADDRESS
(7C)	CHARACTER	4	CSAJYDP	A PACKED INTEGER OF THE FORM 0CYYDDDS WHERE YY IS YEARS,DDD IS DAYS, C IS A CENTURY INDICATOR (0=1900 1=2000, 2=2100 etc) AND S IS A POSITIVE SIGN.
(80)	ADDRESS	4	CSASPFPA	ADDRESS OF SPECIAL FETCH-PROTECTED STORAGE AREA
(84)	BIT(8)	1	CSATRMF1	TRACE SYSTEM MASTER FLAGS
	1...		CSATRMAS	TRACE MASTER FLAG. IF ON, TRACING OCCURS OF SYSTEM AND USER ENTRIES - ACCORDING TO INDIVIDUAL FLAGS
	.1..		CSATRSYS	SYSTEM MASTER FLAG. IF ON, SYSTEM ENTRIES ARE TRACED
	..1.		CSATRUSE	USER MASTER FLAG. IF ON, USER ENTRIES ARE TRACED
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		CSATRFEP	TRACE FEPI
	1		*	Reserved

Table 61. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(85)	BIT(8)	1	CSATRMF2	TRACE SYSTEM SELECTION FLAGS
	1...		CSATRMKC	TRACE TASK CONTROL
	.1..		CSATRMSC	TRACE STORAGE CONTROL
	..1.		CSATRMPC	TRACE PROGRAM CONTROL
	...1		CSATRMIC	TRACE INTERVAL CONTROL
	.... 1...		CSATRMDC	TRACE DUMP CONTROL
	.... .1..		CSATRMFC	TRACE FILE CONTROL, DL/I
	.... ..1.		CSATRMTD	TRACE TRANSIENT DATA
	1		CSATRMRI	TRACE RMI LEVEL 1
(86)	BIT(8)	1	CSATRMF3	TRACE SYSTEM SELECTION FLAGS
	1...		CSATRMR2	TRACE RMI LEVEL 2
	.1..		CSATRMEI	TRACE EXEC INTERFACE
	..1.		CSATRMRA	TRACE RES MAN ADAPTER LVL
	...1		CSATRMSP	TRACE SYNC POINT
	.... 1...		CSATRMTC	TRACE TERMINAL CONTROL
	.... .1..		CSATRMA2	TRACE RES MAN ADAPTER LVL
	.... ..1.		CSATRMBM	TRACE BMS
	1		CSATRMJC	TRACE JOURNAL CONTROL
(87)	BIT(8)	1	CSATRMF4	TRACE SYSTEM SELECTION FLAGS
	1...		CSATRMIS	TRACE ISC
	.1..		CSATRMUE	TRACE USER EXIT INTERFACE
	..1.		CSATRMS5	Reserved
	...1		CSATRMS4	Reserved
	.... 1...		CSATRMS3	Reserved
	.... .1..		CSATRMS2	Reserved
	.... ..1.		CSATRMS1	Reserved
	1		CSATRMLF	LIFO FLAG
(88)	BIT(8)	1	CSATRMF5	TASK STORAGE SELECTION FLAGS

Table 61. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		*	Reserved
	.1..		CSATSKCR	TASK STORAGE = CURRENT
	..11 1111		*	Reserved
(89)	BIT(8)	1	CSATRMF6	TERMINAL STORAGE SEL. FLAGS
	1...		CSATRMCR	TERMINAL STORAGE = CURRENT
	.111 1111		*	Reserved
(8A)	UNSIGNED	1	CSAUSKEY	USER KEY IN IC/SPKA FORM
(8B)	UNSIGNED	1	CSACIKEY	CICS KEY IN IC/SPKA FORM
(8C)	ADDRESS	4	CSASITBA	SYSTEM INITIALIZATION TABLE (SIT) ADDRESS
(90)	FULLWORD	4	CSAUNQID	UNIQUE IDENTIFICATION COUNTER (BINARY FULLWORD COUNTER)
(94)	FULLWORD	4	CSAAIDBA	Reserved and must not be used
(98)	HALFWORD	2	CSASTIME	SNT tuning parm (from SIT)
(9A)	HALFWORD	2	CSALTIME	LUIT tuning parm (from SIT)
OPERATING SYSTEM AND CICS LEVEL INDICATORS				
(9C)	CHARACTER	1	CSAOPSYS	OPERATING SYSTEM
(9D)	CHARACTER	1	CSAOPREL	OPERATING SYSTEM RELEASE
(9E)	CHARACTER	1	CSACICS	CICS SYSTEM
(9F)	BIT(8)	1	CSACIREL	CICS RELEASE
(A0)	ADDRESS	4	CSAKCNAC	Task control
(A4)	ADDRESS	4	CSASCNAC	Storage control
(A8)	ADDRESS	4	CSAPCNAC	Program control
(AC)	ADDRESS	4	CSAICNAC	Time control
(B0)	ADDRESS	4	CSADCNAC	Dump control
(B4)	ADDRESS	4	CSATCNAC	Terminal control
(B8)	ADDRESS	4	CSATCTCA	TERMINAL CONTROL TASK CONTROL AREA ADDRESS

Table 61. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(BC)	ADDRESS	4	CSAROCSA	Read-only CSA (for PL/1)
(C0)	ADDRESS	4	CSAICEXP	IC expiry TXN TCA addr
(C4)	CHARACTER	1	CSASSI3	Reserved (former ICVSW)
	1...		*	Reserved
	.1..		CSASTPRO	Storage Protect flag
	..1.		CSATRISO	Tran Isolation Flag
	...1		CSAFRCQR	1=> FORCEQR=FORCE
	.... 1...		CSAIPICY	Is IPIC in use in region?
	.... .111		*	
(C5)	UNSIGNED	1	CSACIMOD	CICS modification level in hex
(C6)	HALFWORD	2	*	Reserved
(C8)	ADDRESS	4	CSAOPFLA	CSA OPTIONAL FEATURES LIST ADDRESS
(CC)	ADDRESS	4	CSAECSSA	Addr of DFHECSS or 0 if event capture disabled
(D0)	CHARACTER	8	*	Reserved
(D8)	ADDRESS	4	*	Reserved
CONSTANTS				
(DC)	CHARACTER	4	*	MEMORY CONSTANT - CNST
MISCELLANEOUS CONSTANTS				
(E0)	HALFWORD	2	*	Reserved
(E2)	HALFWORD	2	CSALEN	Length of CSA
(E4)	ADDRESS	4	CSACWAA	Address of CWA
(E8)	HALFWORD	2	CSACWAL	Length of CWA
(EA)	HALFWORD	2	*	Reserved
(EC)	CHARACTER	8	CSATCA31	31 bit TCA subpool token
(F4)	CHARACTER	8	CSATCA24	24 bit TCA subpool token
(FC)	CHARACTER	8	*	Reserved
(104)	ADDRESS	4	CSATCADF	ADDR(proforma TCA)
(108)	ADDRESS	4	CSAQRTCB	QR TCB address
(10C)	ADDRESS	4	CSAEIPAD	EIP ADCON LIST (DFHEIP00)

Table 61. (continued)

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

Table 61. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		CSAXSTMI	CICS IMMEDIATE SHUTDOWN.. ..IF CSAXSTM IS ALSO SET
	...1		CSAXSTMX	CICS HAS BEEN CANCELLED.. ..IF CSAXSTM IS ALSO SET
	.... 1...		*	
	.... .1..		CSAXSTM	CICS TERMINATION
	.... ..1.		CSAXSEX	CICS EXECUTION
	1		CSAXSI	CICS INITIALIZATION
(149)	BIT(8)	1	CSAXST2	CICS EXECUTION STATUS
	1...		*	
	.1..		*	
	..1.		CSAXSQ2	2ND-STAGE OF QUIESCE
	...1		CSAXSQ1	1ST-STAGE OF QUIESCE
	.... 1...		*	
	.... .1..		CSAXSI3	3RD-STAGE INITIALIZATION
	.... ..1.		CSAXSI2	2ND-STAGE INITIALIZATION
	1		CSAXSI1	1ST-STAGE INITIALIZATION
(14A)	BIT(8)	1	CSAXST3	CICS EXECUTION STATUS
	1...		*	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		CSAXSINC	CICS INITIALIZATION COMPLETE
(14B)	BIT(8)	1	*	Reserved
(14C)	ADDRESS	4	CSANULLP	Non 0 null address
(150)	ADDRESS	4	CSASPFP2	addr of another fetch protected area

Table 61. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(154)	ADDRESS	4	*	Available for future use
(158)	ADDRESS	4	CSATDNAC	Transient data entry
(15C)	ADDRESS	4	CSATSNAC	Temp storage entry
(160)	ADDRESS	4	CSATCRWE	TCP read/write entry
(164)	ADDRESS	4	CSAWTOAD	Write-to-operator routine
(168)	ADDRESS	4	CSATRNAC	Trace entry
(16C)	ADDRESS	4	CSASPNAC	Sync point entry
(170)	ADDRESS	4	*	Reserved
TIME MANAGEMENT STORAGE				
(174)	FULLWORD	4	CSATODTU	BINARY TIME OF DAY IN 300THS OF A SECOND
(178)	FULLWORD	4	CSATCNDT	TERMINAL CONTROL'S NEXT DISPATCH TIME OF DAY IN 300THS OF A SECOND
(17C)	FULLWORD	4	*	Reserved
(180)	CHARACTER	2	*	Reserved
(182)	BIT(8)	1	CSARDATC	RELATIVE DATE COUNTER (BINARY)
(183)	BIT(8)	1	*	Reserved
WORKAREA				
(184)	CHARACTER	8	*	MEMORY COMMENT - 'WORKAREA'
SYSTEM STATISTICS				
(18C)	ADDRESS	4	CSAFASTL	-> FAST LINK WORK AREA
(190)	CHARACTER	4	*	Reserved
(194)	UNSIGNED	4	CSAPPFN	PPF change counter
(198)	UNSIGNED	4	CSATCTSV	TCTS change counter
(19C)	ADDRESS	4	CSAPFTRR	relay link PFT address
(1A0)	ADDRESS	4	CSAPFTRS	relay link PFT address
(1A4)	CHARACTER	8	*	Reserved
(1AC)	ADDRESS	4	CSABRLKA	DFHBRLK entry point
(1B0)	ADDRESS	4	CSABRAIA	DFHBRAI entry point
(1B4)	ADDRESS	4	CSABRFRA	DFHBRFR entry point
(1B8)	ADDRESS	4	CSABRFMA	DFHBRFM entry point

Table 61. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1BC)	ADDRESS	4	CSABRTBA	DFHBRTB entry point
(1C0)	ADDRESS	4	CSABRTQA	DFHBRTQ entry point
(1C4)	CHARACTER	0	CSACSAEA	END OF CSA

OPTIONAL FEATURE LIST

Table 62.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1496	CSAOPFL	FEATURE LIST DSECT
(0)	ADDRESS	4	*	Reserved
(4)	ADDRESS	4	CSASNSTA	LOCATION OF DFHSNSTA - SIGNON STATISTICS RECORDS
(8)	ADDRESS	4	*	Reserved
(C)	ADDRESS	4	CSACCNVA	Address of CCNV anchor
(10)	ADDRESS	4	*	Reserved
(14)	ADDRESS	4	CSASRNAC	SYSTEM RECOVERY PROGRAM ENTRY ADDRESS
(18)	ADDRESS	4	CSASRTBA	ADDRESS OF SYSTEM RECOVERY TABLE
(1C)	ADDRESS	4	*	Reserved
(20)	ADDRESS	4	CSAXLTBA	ADDRESS OF SYSTEM TERMINATION TRANSACTION LIST TABLE
(24)	ADDRESS	4	*	Reserved
(28)	ADDRESS	4	CSACQSTA	Address of static storage for CQ (Console Queue)
(2C)	ADDRESS	4	CSATSTBA	ADDRESS OF TEMPORARY STORAGE TABLE
(30)	ADDRESS	4	CSAAIINN	DFHAIIN Entry point for AITM *
(34)	ADDRESS	4	CSACPINN	DFHCPIN Entry point for CPIN *
(38)	ADDRESS	4	CSAPRINN	DFHPRIN Entry point for PRIN *
(3C)	ADDRESS	4	CSAKCSC	ADDRESS of KC query program *
(40)	ADDRESS	4	*	Reserved

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	ADDRESS	4	CSABRSPA	Address of Bridge exit interface routine (SP)
(48)	ADDRESS	4	CSASRAA	ADDRESS OF SRB CONTROL AREA *
(4C)	ADDRESS	4	CSAMROQA	ANCHOR BLOCK FOR MRO W-Q
(50)	CHARACTER	4	CSAOPF1S	
(50)	CHARACTER	4	*	Reserved
(54)	ADDRESS	4	CSADINAC	DATA INTERCHANGE MODULE ADDRESS
(58)	ADDRESS	4	CSASTYDP	CICS START-UP DATE IN THE FORM 0CYYDDDS WHERE YY IS THE YEAR, DDD IS THE DAY, C IS THE CENTURY INDICATOR AND S IS A POSITIVE SIGN
(5C)	ADDRESS	4	CSAFCXAD	ADDRESS OF DFHFCIN
(60)	ADDRESS	4	CSACSAAD	ADDRESS OF CSA
(60)	HALFWORD	2	CSAOPF1E	
(62)	HALFWORD	2	*	
(64)	ADDRESS	4	*	Reserved
(68)	ADDRESS	4	*	Reserved
(6C)	ADDRESS	4	CSAMGNAC	ADDRESS OF DFHMGP MESSAGE PROGRAM
(70)	ADDRESS	4	CSAMGTAC	ADDRESS OF MESSAGE TABLE
(74)	CHARACTER	8	CSACOMTK	SUBPOOL TOKEN FOR TERMINAL COMMAREA ABOVE THE LINE (CICS KEY STORAGE)
	MODULE ADDRESSES AND TOKENS			
(7C)	ADDRESS	4	*	Reserved
(80)	ADDRESS	4	CSAXFPNA	ADDRESS OF EXEC TRANSFORMER PROGRAM
(84)	ADDRESS	4	CSAISPNA	ADDRESS OF EXEC INTERSYSTEM PROGRAM

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	ADDRESS	4	CSAXTPNA	ADDRESS OF TERMINAL SHARING TRANSFORMER PROGRAM
	EXEC INTERFACE MODULE ADDRESS			
(8C)	ADDRESS	4	CSAEINAC	ADDRESS OF DFHEIP Exec nucleus *
(90)	CHARACTER	8	CSAICA31	Subpool token ICE
(98)	CHARACTER	8	CSAECATK	Subpool token for APECA
	Special area for Language Interface			
(A0)	ADDRESS	4	CSACEEPI	Address of CEEPIPI
(A4)	ADDRESS	4	CSACLQPI	Address of CELQPIPI
(A8)	FULLWORD	4	CSACEEIL	Special interface level
(AC)	CHARACTER	4	CSACEEFG	Flags
(AC)	BIT(8)	1	CSACEEF1	Flag Byte
	1...		CSACEELD	CEECCICS loaded
	.1..		CSACEEIN	LE/370 initialized
	..1.		CSA_GLBLOPTS_ SET	Global options processed
	...1		CSA_THREADSAFE	Global default THREADSAFE
	.... 1...		CSA_QUASIRENT	Global default QUASIRENT
	.... .1..		CSA_OPENAPI	Global default OPENAPI
	.... ..1.		CSA_REQUIRED	Global default REQUIRED
	1		*	reserved
(AD)	BIT(8)	1	CSALANG	Language byte
	1...		ASMINIT	Assembler initialized by LE/370 *
	.1..		CINIT	C initialized by LE/370
	..1.		COBINIT	Cobol initialized by LE370 *
	...1		PLIINIT	PL/I initialized by LE/370 *
	.... 1...		RPGINIT	RPG initialized by LE/370
(AE)	BIT(8)	1	CSALEFUN	active CICS/LE functions
	1...		CSA_PROG_TYPE3	type 3 objects supported

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		*	reserved
	..1.		CSA_LE_OTE	OTE support active
	...1		CSA_REUSABLE_ RUWA	
				RUWAs are reusable
	.... 1...		CSA_ABEND_ CANCEL	ABEND with CANCEL
	.... .1..		CSA_DUMP_ SUPPRESS	
				dump suppression
	.... ..1.		CSA_LE_OTE_2	OTE stage2 support active
	1		CSA_LE_ LDMDNAME	include module name in PGMINFO1 (storage tuning exit)
(AF)	BIT(8)	1	CSALEFUN2	active CICS/LE functions
	1...		CSA_LE_ TUNE_SUP	LE supports automatic storage * tuning
	.1..		CSA_LE_AUTODST	LE will perform automatic storage tuning
	..1.		CSA_LE_ REUSABLE_ENCLAVES	
				LE supports reusable enclaves
	...1		CSA_LE_ SERVICE_RTNS	
				LE can use the CICS service routines
	.... 1...		CSA_LE_ REAL_ENTRY	
				LE supports XPCFTCH real entry point
	.... .1..		CSA_LE_ DEBUG_INFO	
				LE supports DPCC debugger information in PGMINFO1
	.... ..1.		CSA_LE_GOTO	LE drives goto
	1		CSA_LE_EXT_REG	LE supports extended regs
(B0)	CHARACTER	8	CSACEEPT	LE/370 Partition token

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B8)	ADDRESS	4	CSACEERA	Address of interface routine *
(BC)	FULLWORD	4	CSACEETL	Length of pre-allocated Thread storage
(C0)	CHARACTER	4	CSA_INIT	CICS Initialization status flags
(C0)	BIT(8)	1	*	
	1...		CSAPINIT	Partition Initialization for Languages has completed
	.1..		*	Reserved
	..11 1111		*	Reserved
(C1)	BIT(24)	3	*	Reserved
(C4)	ADDRESS	4	CSALIRNA	Address of DFHLIRET
(C8)	CHARACTER	8	CSA_PLB_SPTOKEN	Program Language Block Subpool Token
(D0)	ADDRESS	4	CSABRMSA	Address of Bridge exit interface routine (BMS)
(D4)	ADDRESS	4	CSABRTCA	Address of Bridge exit interface routine (TC)
(D8)	ADDRESS	4	CSABRICA	Address of Bridge exit interface routine (IC)
FURTHER EXECUTION INTERFACE MODULE ADDRESSES				
(DC)	ADDRESS	4	CSAEISR	Address of DFHEISR service routine
(E0)	ADDRESS	4	CSAERMNA	ADDRESS OF RESOURCE MANAGER I/F
(E4)	ADDRESS	4	CSAETLNA	ADDRESS OF LU6.2 MAPPED STUB
(E8)	ADDRESS	4	CSAEBUNA	ADDRESS OF FMH BUILDER
(EC)	ADDRESS	4	CSAEEXNA	ADDRESS OF FMH EXTRACTOR
TERMINAL CONTROL MODULE ADDRESSES				
(F0)	ADDRESS	4	CSATCNCA	ADDRESS OF DFHZCA
(F4)	ADDRESS	4	CSATCNCB	ADDRESS OF DFHZCB
(F8)	ADDRESS	4	CSATCNCC	ADDRESS OF DFHZCC

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(FC)	ADDRESS	4	CSATCNCP	ADDRESS OF DFHZCP
(100)	ADDRESS	4	CSATCNCW	ADDRESS OF DFHZCW
(104)	ADDRESS	4	CSATCNCX	ADDRESS OF DFHZCX
(108)	ADDRESS	4	CSATCNCY	ADDRESS OF DFHZCY
(10C)	ADDRESS	4	CSATCNCZ	ADDRESS OF DFHZCZ
BASIC MAPPING SUPPORT MODULE ENTRY ADDRESSES				
(110)	ADDRESS	4	CSARLREA	ADDRESS OF ROUTE LIST RESOLUTION PROGRAM
(114)	ADDRESS	4	CSAPBPEA	ADDRESS OF PAGE BUILD PROGRAM
(118)	ADDRESS	4	CSAM32EA	ADDRESS OF 3270 MAPPING PROGRAM
(11C)	ADDRESS	4	CSAMCXEA	ADDRESS OF BMS FAST PATH MODULE
(120)	ADDRESS	4	CSATPPEA	ADDRESS OF TERMINAL PAGING PROGRAM
(124)	ADDRESS	4	CSAIIPEA	ADDRESS OF NON-3270 INPUT MAPPING PROGRAM
(128)	ADDRESS	4	CSADWEXA	ADDRESS OF DWE PROCESSING EXIT
(12C)	ADDRESS	4	CSADSBEA	ADDRESS OF DATA STREAM BUILD PROGRAM
(130)	ADDRESS	4	CSAPHPEA	ADDRESS OF PARTITION HANDLING PROGRAM
(134)	ADDRESS	4	CSAML1EA	ADDRESS OF LU TYPE 1 MAPPING PROGRAM
MISCELLANEOUS PROGRAM ADDRESSES				
(138)	ADDRESS	4	CSARTSUA	Address of DFHRTSU Surrogate interface

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(13C)	ADDRESS	4	CSAPCNNA	ADDRESS OF NON-WORKING SET PROGRAM CONTROL PROGRAM
(140)	ADDRESS	4	CSAGCAAC	ADDRESS OF GET_CAA ROUTINE *
(144)	ADDRESS	4	CSASCAAC	ADDRESS OF SET_CAA ROUTINE *
(148)	ADDRESS	4	CSATMPNA	ADDRESS OF TABLE MANAGER PROGRAM
(14C)	ADDRESS	4	CSACMPAC	ADDRESS OF MONITORING PROGRAM *
(150)	ADDRESS	4	CSAERMRS	Address of RMI Resync module *
(154)	ADDRESS	4	CSXCRLBA	ADDRESS OF BIND TIME LOGGING PROGRAM FOR OLD-MRO/LU6.1
(158)	ADDRESS	4	CSAACPNA	ADDRESS OF ABNORMAL CONDITION PROGRAM
(15C)	ADDRESS	4	CSAIRPNA	ADDRESS OF INTER-REGION COMMUNICATION PROGRAM
(160)	ADDRESS	4	CSAUEHNA	ADDRESS OF USER EXIT HANDLER PROGRAM
(164)	ADDRESS	4	CSALETRU	Address of DFHLETRU
(168)	ADDRESS	4	CSAMCYEA	addr BMS MAPPINGDEV module DFHMCY
(16C)	ADDRESS	4	CSAXFXNA	ADDRESS OF FAST-PATH TRANSFORMER PROGRAM
(170)	ADDRESS	4	*	Reserved
(174)	ADDRESS	4	CSAPSNAC	ADDR SYSTEM SPOOLING INTERFACE CONTROL MODULE
(178)	ADDRESS	4	CSASKMNA	ADDRESS SUBTASK MANAGEMENT MODULE

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(17C)	ADDRESS	4	CSAAPRRA	Addr IPIC TR router
(180)	ADDRESS	4	CSAAPRXA	Addr IPIC TR transformer
(184)	ADDRESS	4	CSAZBANA	ADDRESS ZC BIND ANALYSIS
(188)	ADDRESS	4	CSATBSNA	ADDRESS TABLE BLDR SERVS
(18C)	ADDRESS	4	*	Reserved
(190)	ADDRESS	4	CSAXQONA	ADDRESS DFHZXQO
(194)	ADDRESS	4	CSAAPRDA	ADDRESS OF AP RD GATE
(198)	ADDRESS	4	CSAZCQNA	ADDRESS OF ZCQ INST/DELETE
	MISCELLANEOUS TABLE AND CONTROL BLOCK ADDRESSES			
(19C)	CHARACTER	8	*	Reserved
(1A4)	ADDRESS	4	CSASSA	ADDRESS OF STATIC STORAGE AREA ADDRESS LIST
(1A8)	ADDRESS	4	CSATCSEA	ADDRESS OF LOCAL TERMINAL CONTROL SYSTEM ENTRY
(1AC)	ADDRESS	4	CSAUETBA	ADDRESS OF USER EXIT TABLE
(1B0)	ADDRESS	4	CSAMROQP	Address of MRO work Q manager *
(1B4)	ADDRESS	4	*	Reserved
(1B8)	ADDRESS	4	CSACRBA	ADDRESS OF CICS REGION BLOCK *
(1BC)	ADDRESS	4	*	Reserved
(1C0)	ADDRESS	4	CSATDSTA	ADDRESS OF TD STATIC STORAGE
(1C4)	ADDRESS	4	CSAPSCBA	ADDR OF SYS SPOOLING INTERFACE GLOBAL CONTROL BLOCK(PSG).
(1C8)	ADDRESS	4	*	Reserved
(1CC)	ADDRESS	4	*	Reserved
(1D0)	CHARACTER	8	CSAURDTK	URD/non-task DWE subpool token
	CATALOG CONTROL FLAG BYTE			
(1D8)	BIT(8)	1	CSACATFL	CATALOG flag byte
	1...		CSACATDF	CATALOG defined

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
SYSTEM LOG COMMUNICATION FLAG BYTE				
(1D9)	BIT(8)	1	CSALOGFL	SYSTEM LOG flag byte
	1...		CSALOGDF	SYSTEM LOG defined ..
(1DA)	BIT(8)	1	*	Reserved
(1DB)	BIT(8)	1	*	Reserved
INTER-REGION COMMUNICATION FLAG BYTES				
(1DC)	BIT(8)	1	CSACRFL1	CICS REGION FLAG BYTE
	1...		CSACRNTC	DFHTCP GENERATED WITHOUT IRC
	.1..		*	Reserved
	..1.		*	Reserved
	...1		CSACRSTF	HIGH-LEVEL STAE FAILED
(1DD)	BIT(8)	1	CSACRFL2	CICS REGION FLAG BYTE 2
	1...		CSACRASS	ASSOCIATE has been issued
	.1..		CSACRWEA	MRO work queue elems acquired *
BASIC MAPPING SUPPORT FLAG BYTE				
(1DE)	BIT(8)	1	CSABMSFL	BMS FLAG BYTE
	1...		CSACSPQI	TRANSACTION CSPQ HAS BEEN INITIATED
	.1..		CSAALIGN	PRE 1.6 MAPS ARE ALIGNED
	..1.		CSANDDS	NO DEVICE DEPENDENT SUFFIXING
	...1		CSANSKR	NO SINGLE KEY RETRIEVAL
(1DF)	BIT(8)	1	*	Reserved
DFHPILSQ flags BA49155C				
(1E0)	BIT(8)	1	CSAPIFLG	DFHPILSQ flags
	1...		CSAPIMSG_ISSUED	Indicates msg DFHPI0118 issued - prevents multiple msgs
SIGNON COMPONENT FIELDS				
(1E1)	BIT(8)	1	CSASNFLG	SIGNON COMPONENT FLAGS

Table 62. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
	1...		CSASNXRF	COPY OF SITXSFRC FLAG
(1E2)	BIT(8)	1	*	Reserved
(1E3)	BIT(8)	1	*	Reserved
(1E4)	CHARACTER	4	*	Reserved
WEB STORAGE ANCHOR ADDRESS				
(1E8)	ADDRESS	4	CSAWEBAN	Stg anchor for Web
EXECUTABLE SUPERVISOR CALL INSTRUCTIONS				
(1EC)	FULLWORD	4	*	Reserved
(1F0)	CHARACTER	2	CSASVSVC	SERVICE SVC...
(1F0)	BIT(8)	1	*	
(1F1)	BIT(8)	1	CSASVSNO	SERVICS SVC NUMBER
(1F2)	CHARACTER	2	CSASISVC	SERVICE INITIATION SVC...
(1F2)	BIT(8)	1	*	
(1F3)	BIT(8)	1	CSASISNO	SERVICE INIT.SVC NUMBER
STATISTICS FIELDS				
(1F4)	HALFWORD	2	*	Reserved
(1F6)	HALFWORD	2	CSATBSDD	DFHBSMSG DIAGNOSTIC DUMP CODE *
(1F8)	ADDRESS	4	*	Reserved
(1FC)	ADDRESS	4	*	Reserved
CICS SERVICE-LEVEL SUPPORT FIELD				
(200)	ADDRESS	4	CSACICNA	ADDRESS OF SERVICE-LEVEL ENTRYPT
(204)	ADDRESS	4	*	Reserved
(208)	CHARACTER	8	CSATGOTK	Subpool token ICE DSTGODR
(210)	CHARACTER	8	CSA_ICUS_TK	Subpool token ICE_ICUS
(218)	CHARACTER	8	CSA_TFUS_TK	Subpool token TCTTE TFUS
CICS SYSTEM DEFINITION USER COUNT				
(220)	FULLWORD	4	CSACSDCT	NUMBER OF CURRENT USERS OF CICS SYSTEM DEFINITION
(224)	ADDRESS	4	*	Reserved
FURTHER MISCELLANEOUS PROGRAM ADDRESSES AND OTHER INFORMATION				

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(228)	CHARACTER	0	CSAOPF5S	START OF BLOCK 5
(228)	BIT(8)	1	CSAPLTSC	PLTPI security options
	1...		CSAPLTCM	Command level check
	.1..		CSAPLTRS	Resource level check
	..11 111.		*	Reserved
	1		CSAPLTYS	PLTPI requested
(229)	CHARACTER	11	CSAPLTID	PLTPI user id
(229)	UNSIGNED	1	CSAPLTIL	PLTPI user id length
(22A)	CHARACTER	10	CSAPLTIV	PLTPI user id value
(234)	CHARACTER	8	CSAAID31	AID token
(23C)	ADDRESS	4	CSAEXNQS	EXEC enqueue pool (string)
(240)	ADDRESS	4	CSAEXNQA	EXEC enqueue pool (address)
(244)	ADDRESS	4	CSAEXNQG	EXEC enqueue pool (global)
(248)	ADDRESS	4	*	Reserved
(24C)	CHARACTER	8	CSABMSPT	BMS CICS LIFETIME SP TOKEN
(254)	CHARACTER	8	CSAEDFTK	EDF Subpool token
(25C)	ADDRESS	4	CSADBCR	address of DFHDBCR
(260)	ADDRESS	4	CSASKCEP	Entry point of DFHSKC
(264)	ADDRESS	4	CSADLI	DL/I interface entry
(268)	ADDRESS	4	CSABFNAC	Built-in function
(26C)	ADDRESS	4	CSABMS	BMS control entry
(270)	ADDRESS	4	CSAJCNA1	Journal control entry
(274)	ADDRESS	4	CSAJCNA2	Journal control entry
(278)	ADDRESS	4	CSADLIM	Entry point of DFHDLI
(27C)	CHARACTER	0	CSAOPF5E	END OF BLOCK 5
	FURTHER MISCELLANEOUS CONTROL BLOCK ADDRESSES AND OTHER INFORMATION			
(27C)	CHARACTER	0	CSAOPF6S	START OF BLOCK 6
(27C)	CHARACTER	4	*	Reserved
(280)	CHARACTER	0	*	Alignment
(280)	CHARACTER	8	CSAAPXDS	Subpool for trandef ext
(288)	CHARACTER	8	CSADRPGN	DYNAMIC ROUTING PROGRAM NAME
(290)	ADDRESS	4	CSAFCEP	FILE CONTROL ENTRY POINT

Table 62. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(294)	CHARACTER	4	*	Reserved
(298)	ADDRESS	4	CSATCNCR	Address of DFHZXCR
START OF XRF SPECIFIC ADDRESSES				
(29C)	ADDRESS	4	CSAXRPNA	Address of DFHXRP
(2A0)	ADDRESS	4	*	Reserved
(2A4)	ADDRESS	4	CSAXRFNT	Address of DFHWMS
END OF XRF SPECIFIC ADDRESSES AP Domain: Domain storage control areas				
(2A8)	CHARACTER	8	CSADWETK	DWE subpool
(2B0)	CHARACTER	8	CSADS24T	Subpool token for storage below 16M
(2B8)	CHARACTER	8	*	Reserved
(2C0)	CHARACTER	8	CSADSANT	Subpool token for storage above 16M
AP Domain: MISC. MODULES AND SUBROUTINES				
(2C8)	ADDRESS	4	CSAAPDSN	Dispatcher TASK_REPLY gate *
(2CC)	ADDRESS	4	CSAAPJCN	Journalling gate service *
(2D0)	ADDRESS	4	CSAAPEPN	User exit gate program
(2D4)	ADDRESS	4	*	Reserved
(2D8)	ADDRESS	4	CSAAPSTN	Statistics gate service
(2DC)	ADDRESS	4	*	Reserved
(2E0)	ADDRESS	4	CSAAPTIN	Timer gate service
(2E4)	ADDRESS	4	CSAAPTRN	Trace gate service
(2E8)	ADDRESS	4	*	Reserved
(2EC)	ADDRESS	4	CSASUSXN	XRF Security Subroutine
(2F0)	ADDRESS	4	CSASUWTN	WTO Interface Subroutine *
(2F4)	ADDRESS	4	CSASUZXN	ZC Trace Controller Subroutine *
(2F8)	ADDRESS	4	CSAAPTIM	midnight task module
(2FC)	ADDRESS	4	CSAAPTIX	expiry task module
(300)	ADDRESS	4	CSAAPSTG	AP Domain - statistics global storage
(304)	ADDRESS	4	CSATDNA2	Transient Data Internal Entry - address of DFHTDQ
(308)	FULLWORD	4	CSAHPOCT	HPO count

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30C)	ADDRESS	4	CSAZCUTN	attachsec userid table mgr
(310)	ADDRESS	4	CSASMATK	SM access token (for SMSR INQUIRE_ACCESS function)
(314)	ADDRESS	4	CSASMITK	SM isolation token (for SMSR SWITCH_SUBSPACE function)
(318)	ADDRESS	4	CSATSITK	TS inquire token (for TSSH INQUIRE_POOL_TOKEN func
(31C)	ADDRESS	4	CSASZADA	FEPI Adapter prog address
(320)	CHARACTER	8	CSADU24T	Subpool token for USER key storage below 16M
(328)	CHARACTER	8	CSADUANT	Subpool token for USER key storage above 16M
(330)	CHARACTER	16	CSADS64T	Subpool token for CICS key storage above bar
(340)	CHARACTER	16	CSADU64T	Subpool token for USER key storage above bar
(350)	CHARACTER	0	CSAOPF6E	END OF BLOCK 6
VECTOR of Addresses of EXEC Command Processor Modules Listed in order of Group Code Named as the modules, with CSA replacing DFH				
(350)	CHARACTER	512	CSAEXECS	Base for vector
Group Command Group				
(350)	ADDRESS	4	CSAEIP	00 DFHEIP (slot left null) *
(354)	ADDRESS	4	CSAEEI	02 Assign, etc
(358)	ADDRESS	4	CSAETC	04 Terminal
(35C)	ADDRESS	4	CSAEIFC	06 File
(360)	ADDRESS	4	CSAETD	08 Transient Data
(364)	ADDRESS	4	CSAEITS	0A Temporary Storage
(368)	ADDRESS	4	CSAESC	0C Storage
(36C)	ADDRESS	4	CSAEPC	0E Program
(370)	ADDRESS	4	CSAEIIC	10 Time
(374)	ADDRESS	4	CSAEKC	12 Task
(378)	ADDRESS	4	CSAEJC	14 Journalnum

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(37C)	ADDRESS	4	CSAEISP	16 Syncpoint
(380)	ADDRESS	4	CSAEMS	18 BMS
(384)	ADDRESS	4	CSAETR	1A Trace
(388)	ADDRESS	4	CSAEDC	1C Dump
(38C)	ADDRESS	4	CSAEDI	1E Issue ...
(390)	ADDRESS	4	CSAEBF	20 BIF
(394)	ADDRESS	4	CSAUEM	22 Enable/disable exits *
(398)	ADDRESS	4	CSAEGL	24 GDS ...
(39C)	ADDRESS	4	CSAEIML	26 XML transform cmd
(3A0)	ADDRESS	4	CSAEIEC	28 Event Processor cmd
(3A4)	ADDRESS	4	*	2A Available-was EIDEF
(3A8)	ADDRESS	4	*	2C Available-was EIDEL
(3AC)	ADDRESS	4	*	2E Available-was EIINS
(3B0)	ADDRESS	4	CSAEICRE	30 All CREATE commands
(3B4)	ADDRESS	4	*	32 Reserved
(3B8)	ADDRESS	4	CSAEIBAM	34 All BAM commands
(3BC)	ADDRESS	4	CSAEIEM	36 Event Manager
(3C0)	ADDRESS	4	CSAEIWB	38 Web commands
(3C4)	ADDRESS	4	CSAEIQRR	3A Reserved
(3C8)	ADDRESS	4	CSAEIDH	3C Document Commands
(3CC)	ADDRESS	4	CSAEISO	3E Sockets Commands
(3D0)	ADDRESS	4	*	40 Used by DL/I
(3D4)	ADDRESS	4	CSAEIQTM	42 INQ/REM Autinstmodel *
(3D8)	ADDRESS	4	CSAEIQPN	44 INQ/REM Partner
(3DC)	ADDRESS	4	CSAEIQPF	46 INQ/REM Profile
(3E0)	ADDRESS	4	CSAETRX	48 Trace (enhanced)
(3E4)	ADDRESS	4	CSAEIDTI	4A Asktime/Formattime
(3E8)	ADDRESS	4	CSAEIQDS	4C INQ/SET/REM File
(3EC)	ADDRESS	4	CSAEIQSP	4E INQ/SET/REM Program

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3F0)	ADDRESS	4	CSAEIQSX	50 INQ/SET/REM Transaction *
(3F4)	ADDRESS	4	CSAEIQST	52 INQ/SET/REM Terminal *
(3F8)	ADDRESS	4	CSAEIQSA	54 INQ/SET System
(3FC)	ADDRESS	4	CSAEPS	56 Spooler
(400)	ADDRESS	4	CSAEIQSC	58 INQ/SET/ Connection
(404)	ADDRESS	4	CSAEIQSM	5A INQ/SET Modename
(408)	ADDRESS	4	CSAEIQSQ	5C INQ/SET Tdqueue
(40C)	ADDRESS	4	CSAEIQSK	5E INQ/SET Task
(410)	ADDRESS	4	CSAEIQSJ	60 INQ/SET Journalnum
(414)	ADDRESS	4	CSAEIQSV	62 INQ/SET Volume
(418)	ADDRESS	4	CSAEIPSE	64 PERF Security Rebuild *
(41C)	ADDRESS	4	CSAEIQDU	66 INQ/SET ...dump...
(420)	ADDRESS	4	CSAEIQVT	68 INQ/SET VTAM
(424)	ADDRESS	4	CSAESE	6A Query Security
(428)	ADDRESS	4	CSAEOP	6C WTO, etc.
(42C)	ADDRESS	4	CSAEIQIR	6E INQ/SET IRC
(430)	ADDRESS	4	CSAEIQMS	70 INQ/SET Monitor, Stats *
(434)	ADDRESS	4	CSAEIPRT	72 PERF Resettime
(438)	ADDRESS	4	CSAESN	74 Sign-on/off
(43C)	ADDRESS	4	CSAEIPSH	76 PERF Shutdown
(440)	ADDRESS	4	CSAEIQTR	78 INQ/SET Trace..
(444)	ADDRESS	4	CSAEIQDN	7A INQ/SET Dsname
(448)	ADDRESS	4	CSAEIQMT	7C old CEMT commands
(44C)	ADDRESS	4	CSAEDCP	7E Dump Transaction/System *
(450)	ADDRESS	4	CSAEIQTS	80 INQ TSQUEUE
(454)	ADDRESS	4	CSAESZ	82 FEPI - API
(458)	ADDRESS	4	CSAEIQSZ	84 FEPI - SPI
(45C)	ADDRESS	4	CSAEIACQ	86 ACQUIRE
(460)	ADDRESS	4	CSAEIQUE	88 INQ Exitprogram
(464)	ADDRESS	4	CSAEIQRQ	8A INQ Reqid
(468)	ADDRESS	4	CSAEMEX	8C ME Domain exec
(46C)	ADDRESS	4	*	8E Reserved

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(470)	ADDRESS	4	CSAEIUOW	90 INQ UOW UOWENQ UOWLINK
(474)	ADDRESS	4	CSAEIQSL	92 Inq Journalmodel
(478)	ADDRESS	4	CSAEIQD2	94 Inq/set CICS/DB2 objects
(47C)	ADDRESS	4	CSAEIQBA	96 Inq/set BAM objects
(480)	ADDRESS	4	CSAEIQCF	98 Inq CFDTPOOL
(484)	ADDRESS	4	CSAEIQOP	9A Inq Requestmodel
(488)	ADDRESS	4	CSAEIQSO	9C Inq TCPIPSERVICE
(48C)	ADDRESS	4	CSAEIQDH	9E Inq DOCTEMPLATE
(490)	ADDRESS	4	*	A0 Used by CEDA
(494)	ADDRESS	4	CSAEIQCS	A2 CSD SPI
(498)	ADDRESS	4	*	A4 Reserved for CEDA
(49C)	ADDRESS	4	*	A6 Reserved
(4A0)	ADDRESS	4	*	A8 Reserved
(4A4)	ADDRESS	4	*	AA Reserved
(4A8)	ADDRESS	4	*	AC Reserved
(4AC)	ADDRESS	4	*	AE Reserved
(4B0)	ADDRESS	4	CSAEIQSY	B0 INQ/SET JVMPOOL
(4B4)	ADDRESS	4	CSAEIQEJ	B2 INQ EJB Commands
(4B8)	ADDRESS	4	CSAEIQBR	B4 INQ BRFACILITY
(4BC)	ADDRESS	4	CSAEIQDI	B6 INQ/SET DISPATCHER
(4C0)	ADDRESS	4	CSAEIQWR	B8 INQ/SET WORKREQUEST
(4C4)	ADDRESS	4	*	BA Reserved for CSDUP
(4C8)	ADDRESS	4	CSAEIQPI	BC INQ/SET Pipeline
(4CC)	ADDRESS	4	CSAEIQWB	BE INQ/SET WEB, URIMAP
(4D0)	ADDRESS	4	CSAEIPI	C0 WEBSERVICE API
(4D4)	ADDRESS	4	CSAEIQIS	C2 INQ IPCONN
(4D8)	ADDRESS	4	CSAEIQAS	C4 INQ ASSOCIATION
(4DC)	ADDRESS	4	CSAEIQLD	C6 INQ LIBRARY
(4E0)	ADDRESS	4	CSAEIQRL	C8 INQ BUNDLE

Table 62. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(4E4)	ADDRESS	4	CSAEIQEC	CA INQ EVENTBINDING
(4E8)	ADDRESS	4	CSAEIQW2	CC INQ ATOMSERVICE
(4EC)	ADDRESS	4	CSAEIQMQ	CE INQ MQINI
(4F0)	ADDRESS	4	*	D0 Reserved
(4F4)	ADDRESS	4	*	D2 Reserved
(4F8)	ADDRESS	4	*	D4 Reserved
(4FC)	ADDRESS	4	*	D6 Reserved
(500)	ADDRESS	4	*	D8 Reserved
(504)	ADDRESS	4	*	DA Reserved
(508)	ADDRESS	4	*	DC Reserved
(50C)	ADDRESS	4	*	DE Reserved
(510)	ADDRESS	4	*	E0 Reserved
(514)	ADDRESS	4	*	E2 Reserved
(518)	ADDRESS	4	*	E4 Reserved
(51C)	ADDRESS	4	*	E6 Reserved
(520)	ADDRESS	4	*	E8 Reserved
(524)	ADDRESS	4	*	EA Reserved
(528)	ADDRESS	4	*	EC Reserved
(52C)	ADDRESS	4	*	EE Reserved
(530)	ADDRESS	4	*	F0 Reserved
(534)	ADDRESS	4	*	F2 Reserved
(538)	ADDRESS	4	*	F4 Reserved
(53C)	ADDRESS	4	*	F6 Reserved
(540)	ADDRESS	4	*	F8 Reserved
(544)	ADDRESS	4	*	FA Reserved
(548)	ADDRESS	4	*	FC Reserved
(54C)	ADDRESS	4	*	FE Reserved
End of EXEC module address vector Vector of routines provided to Language Environment				
(550)	CHARACTER	136	CSA_CEL_ SERVICE_VECTOR	
(550)	FULLWORD	4	CSA_CEL_ SERVICE_ VECTOR_LENGTH	
(554)	BIT(32)	4	CSA_CEL_ SERVICE_FLAGS	
(554)	BIT(8)	1	CSA_CEL_ SERVICE_ FLAG_BYTE1	
	1...		CSA_DFHGCAA_ AVAIL	
	.1..		CSA_DFHSCAA_ AVAIL	

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		CSA_DFHLEGM_ AVAIL	
	...1		CSA_DFHLEFM_ AVAIL	
	.... 1...		CSA_DFHLEAS_ AVAIL	
	.... .1..		CSA_DFHLEDS_ AVAIL	
	.... ..1.		CSA_DFHLEGQ_ AVAIL	
	1		CSA_DFHLEFQ_ AVAIL	
(555)	BIT(8)	1	CSA_CEL_ SERVICE_ FLAG_BYTE2	
	1...		CSA_DFHLETR_ AVAIL	
	.1..		CSA_DFHLEDT_ AVAIL	
	..1.		CSA_DFHLERO_ AVAIL	
	...1 1111		*	Reserved
(556)	BIT(8)	1	CSA_CEL_ SERVICE_ FLAG_BYTE3	
				Reserved
(557)	BIT(8)	1	CSA_CEL_ SERVICE_ FLAG_BYTE4	
				Reserved
(558)	CHARACTER	128	CSA_CEL_ SERVICE_ROUTINES	
(558)	ADDRESS	4	CSA_DFHGCAA_ ADDRESS	
(55C)	ADDRESS	4	CSA_DFHSCAA_ ADDRESS	
(560)	ADDRESS	4	CSA_DFHLEGM_ ADDRESS	
(564)	ADDRESS	4	CSA_DFHLEFM_ ADDRESS	
(568)	ADDRESS	4	CSA_DFHLEAS_ ADDRESS	
(56C)	ADDRESS	4	CSA_DFHLEDS_ ADDRESS	
(570)	ADDRESS	4	CSA_DFHLEGQ_ ADDRESS	
(574)	ADDRESS	4	CSA_DFHLEFQ_ ADDRESS	
(578)	ADDRESS	4	CSA_DFHLETR_ ADDRESS	

Table 62. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(57C)	ADDRESS	4	CSA_DFHLEDT_ ADDRESS	
(580)	ADDRESS	4	CSA_DFHLERO_ ADDRESS	
(584)	ADDRESS	4	* (4294967317:129948000)	Reserved
End of service routine vector END OF OPTIONAL FEATURES LIST				
(5D8)	CHARACTER	0	*	Reserved

Constants

Table 63.

Len	Type	value	Name	Description

CONSTANTS
        OPERATING SYSTEM AND CICS LEVEL INDICATORS
  CSAOPSYS - OPERATING SYSTEM				

1	CHARACTER	E	CSAVSE	DOS/VSE
1	CHARACTER	M	CSAMVS	OS/MVS
1	CHARACTER	X	CSAMVX	MVS/ESA
CSAOPREL - OPERATING SYSTEM RELEASE CSACIREL - CICS RELEASE				
1	HEX	14	CSAC14	VERSION 1, RELEASE 4
1	HEX	15	CSAC15	VERSION 1, RELEASE 5
1	HEX	16	CSAC16	VERSION 1, RELEASE 6
1	HEX	17	CSAC17	VERSION 1, RELEASE 7 CICS/MVS
1	HEX	21	CSAC21	VERSION 2, RELEASE 1 CICS/ESA
1	HEX	31	CSAC31	VERSION 3, RELEASE 1
1	HEX	32	CSAC32	VERSION 3, RELEASE 2
1	HEX	33	CSAC33	VERSION 3, RELEASE 3
1	HEX	41	CSAC41	VERSION 4, RELEASE 1
1	HEX	51	CSAC51	VERSION 5, RELEASE 1
1	HEX	52	CSAC52	VERSION 5, RELEASE 2

Table 63. (continued)

Len	Type	value	Name	Description
1	HEX	53	CSAC53	VERSION 5, RELEASE 3
1	HEX	61	CSAC61	VERSION 6, RELEASE 1
1	HEX	62	CSAC62	VERSION 6, RELEASE 2
1	HEX	63	CSAC63	VERSION 6, RELEASE 3
1	HEX	64	CSAC64	VERSION 6, RELEASE 4
1	HEX	65	CSAC65	VERSION 6, RELEASE 5
1	HEX	66	CSAC66	VERSION 6, RELEASE 6
1	HEX	67	CSAC67	VERSION 6, RELEASE 7
1	HEX	00	CSAMOD00	modification level 0
1	HEX	01	CSAMOD01	modification level 1
1	HEX	02	CSAMOD02	modification level 2
1	HEX	03	CSAMOD03	modification level 3
CONSTANT VALUES FOR CSADLRRC				
1	DECIMAL	0	CSADLNRM	NORMAL RESPONSE
1	DECIMAL	16	CSADLDER	DISASTROUS ERROR

D2GDS CICS/DB2 Global statistics

```
                CONTROL BLOCK NAME = DFHD2GDS
                DESCRIPTIVE NAME  = CICS DB2 Global statistics
                   @BANNER_START 02

                                    DFHD2GDS
                   Licensed Materials - Property of IBM
                   "Restricted Materials of IBM"
                   5655-S97
                   @BANNER_END
                FUNCTION =
                        This dsect describes the CICS/DB2 statistics provided by
                        the CICS/DB2 Attachment facility.
                        A single record will be built to respond to a request for
                        DB2CONN statistics.
                LIFETIME =
                        The statistics record is created when a global statistics
                        request is received. Storage for the data block is released
                        when the user task is detached.
                STORAGE CLASS =
                LOCATION =
                        The user is passed a pointer to the head of the storage
                        block.
                INNER CONTROL BLOCKS = none
                NOTES :
                   DEPENDENCIES = S/370
                   RESTRICTIONS = none
```

```
        MODULE TYPE = Domain call buffer
   ------------------------------------------------------------------
    EXTERNAL REFERENCES = none
        DATA AREAS = none
        CONTROL BLOCKS = from CICS/DB2 Attachment Facility.
        GLOBAL VARIABLES (Macro pass) = none
   ------------------------------------------------------------------
    ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHD2GDS IS
    NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
    PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 64.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHD2GDS	CICS/DB2 Global statistics
(0)	FULLWORD	4	(0)	fullword alignment
(0)	HALFWORD	2	D2GLEN	Length of data area
(0)	SIGNED	0	D2GIDE	"0102" CICS/DB2 global stats id mask
(2)	ADDRESS	2	D2GID	CICS/DB2 global stats id
(2)	BITSTRING	0	D2GVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	D2GDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	FULLWORD	4	D2G_GLOBAL_STATS (0)	global stats
(8)	CHARACTER	8	D2G_DB2CONN_NAME	name of the DB2CONN
(10)	CHARACTER	4	D2G_DB2_ID	DB2 sysid
(14)	CHARACTER	4	D2G_DB2_RELEASE	release of DB2
(18)	CHARACTER	8	D2G_CONNECT_ TIME_GMT	
				connect time (GMT)
(20)	CHARACTER	8	D2G_CONNECT_ TIME_LOCAL	
				connect time (local)
(28)	CHARACTER	8	D2G_DISCONNECT_ TIME_GMT	
				disconnect time (GMT)
(30)	CHARACTER	8	D2G_DISCONNECT_ TIME_LOCAL	
				discconnect time (local)
(38)	FULLWORD	4	D2G_TCB_LIMIT	max number of TCBs
(3C)	FULLWORD	4	D2G_TCB_CURRENT	current number of TCBs
(40)	FULLWORD	4	D2G_TCB_HWM	HWM of TCBs

Table 64. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(44)	FULLWORD	4	D2G_TCB_FREE	current number of free TCBs
(48)	FULLWORD	4	D2G_TCB_READYQ_CURRENT	
				number of tasks on TCB readyq
(4C)	FULLWORD	4	D2G_TCB_READYQ_HWM	peak number of tasks on TCB readyq
(50)	CHARACTER	4	D2G_DB2_GROUP_ID	DB2 group id
(54)	BITSTRING	1	D2G_RESYNCMEMBER	resync uow's
(55)	CHARACTER	3		reserved
(58)	FULLWORD	4	D2G_REUSELIMIT	Thread reuse limit
(5C)	CHARACTER	28		reserved
(78)	FULLWORD	4	D2G_POOL_STATS (0)	pool statistics
(78)	CHARACTER	8	D2G_POOL_PLAN_NAME	static plan name if any
(80)	CHARACTER	8	D2G_POOL_PLANEXIT_NAME	
				planexit name if any
(88)	CHARACTER	8	D2G_POOL_AUTHID	static authid if any
(90)	BITSTRING	1	D2G_POOL_AUTHTYPE	authtype if any
(91)	BITSTRING	1	D2G_POOL_ACCOUNTREC	
				Accountrec setting
(92)	BITSTRING	1	D2G_POOL_THREADWAIT	
				Threadwait setting
(93)	BITSTRING	1	D2G_POOL_PRIORITY	thread priority
(94)	FULLWORD	4	D2G_POOL_CALLS	number of calls using pool
(98)	FULLWORD	4	D2G_POOL_SIGNONS	number of signons
(9C)	FULLWORD	4	D2G_POOL_COMMITS	number of commits
(A0)	FULLWORD	4	D2G_POOL_ABORTS	number of aborts
(A4)	FULLWORD	4	D2G_POOL_SINGLE_PHASE	
				number of single phase commits
(A8)	FULLWORD	4	D2G_POOL_THREAD_REUSE	
				number of thread reuses

Table 64. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(AC)	FULLWORD	4	D2G_POOL_THREAD_TERM	
				number of thread terminates
(B0)	FULLWORD	4	D2G_POOL_THREAD_WAITS	
				number of thread waits
(B4)	FULLWORD	4	D2G_POOL_THREAD_LIMIT	
				maximum number of threads
(B8)	FULLWORD	4	D2G_POOL_THREAD_CURRENT	
				current number of threads
(BC)	FULLWORD	4	D2G_POOL_THREAD_HWM	
				peak number of threads
(C0)	FULLWORD	4	D2G_POOL_TASK_CURRENT	
				current number of tasks
(C4)	FULLWORD	4	D2G_POOL_TASK_HWM	peak number of tasks
(C8)	FULLWORD	4	D2G_POOL_TASK_TOTAL	
				total number of tasks
(CC)	FULLWORD	4	D2G_POOL_READYQ_CURRENT	
				number of tasks on ready queue
(D0)	FULLWORD	4	D2G_POOL_READYQ_HWM	
				peak number of tasks on ready queue
(D4)	FULLWORD	4	D2G_POOL_PARTIAL_SIGNONS	
				number of partial signons
(D8)	FULLWORD	4	D2G_POOL_THREAD_CREATE	
				number of thread creates
(DC)	FULLWORD	4	D2G_POOL_REUSELIMIT_COUNT	

Table 64. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				number of times hit reuselimit
(E0)	CHARACTER	16		reserved
(F0)	FULLWORD	4	D2G_COMMAND_ STATS (0)	DSNC command statistics
(F0)	CHARACTER	8	D2G_COMD_AUTHID	static authid if any
(F8)	BITSTRING	1	D2G_COMD_ AUTHTYPE	authtype if any
(F9)	CHARACTER	3		reserved
(FC)	FULLWORD	4	D2G_COMD_CALLS	number of dsnc comd calls
(100)	FULLWORD	4	D2G_COMD_SIGNONS	number of signons
(104)	FULLWORD	4	D2G_COMD_ THREAD_TERM	
				number of thread terminates
(108)	FULLWORD	4	D2G_COMD_ THREAD_OVERF	
				number of overflows to pool
(10C)	FULLWORD	4	D2G_COMD_ THREAD_LIMIT	
				maximum number of threads
(110)	FULLWORD	4	D2G_COMD_ THREAD_CURRENT	
				current number of threads
(114)	FULLWORD	4	D2G_COMD_ THREAD_HWM	
				peak number of threads
(118)	FULLWORD	4	D2G_COMD_ THREAD_CREATE	
				number of thread creates
(11C)	CHARACTER	32		reserved
(13C)	CHARACTER	8	D2G_DB2CONN_ DEFINE_SOURCE	
				Group installed from
(144)	BITSTRING	8	D2G_DB2CONN_ CHANGE_TIME	
				Change/create time
(14C)	CHARACTER	8	D2G_DB2CONN_ CHANGE_USERID	
				Change userid

Table 64. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(154)	BITSTRING	2	D2G_DB2CONN_ CHANGE_AGENT	
				Change agent
(156)	BITSTRING	2	D2G_DB2CONN_ INSTALL_AGENT	
				Install agent
(158)	BITSTRING	8	D2G_DB2CONN_ INSTALL_TIME	
				Install/Create time
(160)	CHARACTER	8	D2G_DB2CONN_ INSTALL_USERID	
				Install userid
(168)	BITSTRING	4		Reserved
(168)		0	D2G_END	"*"
(168)		0	D2G_LENGTH	"*-D2GLEN" Length of dsect
Equates to test D2G_RESYNCMEMBER				
	....		D2G_RESYNCMEMBER_ RESYNC	
				"0" Resync uow's
(168)	SIGNED	0	D2G_RESYNCMEMBER_ NORESYNC	
				"1" Noresync uow's
Equates to test D2G_POOL_AUTHTYPE and D2G_COMD_AUTHTYPE				
	....		D2G_AUTHTYPE_NA	"0" Not applicable
(168)	SIGNED	0	D2G_AUTHTYPE_ USERID	
				"1" Authtype(userid)
(168)	SIGNED	0	D2G_AUTHTYPE_ OPID	"2" Authtype(opid)
(168)	SIGNED	0	D2G_AUTHTYPE_ GROUP	"3" Authtype(group)
(168)	SIGNED	0	D2G_AUTHTYPE_ SIGNID	
				"4" Authtype(signid)
(168)	SIGNED	0	D2G_AUTHTYPE_ TERM	"5" Authtype(term)
(168)	SIGNED	0	D2G_AUTHTYPE_ TXID	"6" Authtype(txid)
Equates to test D2G_POOL_ACCOUNTREC				
(168)	SIGNED	0	D2G_ACCOUNTREC_ NONE	
				"1" Accountrec(none)

Table 64. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(168)	SIGNED	0	D2G_ACCOUNTREC_TXID	
				"2" Accountrec(txid)
(168)	SIGNED	0	D2G_ACCOUNTREC_TASK	
				"3" Accountrec(task)
(168)	SIGNED	0	D2G_ACCOUNTREC_UOW	"4" Accountrec(uow)
Equates to test D2G_POOL_THREADWAIT				
(168)	SIGNED	0	D2G_THREADWAIT_YES	"1" Threadwait(yes)
(168)	SIGNED	0	D2G_THREADWAIT_NO	"2" Threadwait(no)
Equates to test D2G_POOL_PRIORITY				
	....		D2G_PRIORITY_NA	"0" Not applicable
(168)	SIGNED	0	D2G_PRIORITY_HIGH	"1" Priority(high)
(168)	SIGNED	0	D2G_PRIORITY_EQUAL	"2" Priority(equal)
(168)	SIGNED	0	D2G_PRIORITY_LOW	"3" Priority(low)
Equates to test D2G_DB2CONN_CHANGE_AGENT				
(168)	BITSTRING	0	D2G_DB2CONN_CSDAPI_CHANGE	
				"X'01'" Change Agent - CSD API
(168)	BITSTRING	0	D2G_DB2CONN_CSDBATCH_CHANGE	
				"X'02'" Change Agent - DFHCSDUP
(168)	BITSTRING	0	D2G_DB2CONN_DREPAPI_CHANGE	
				"X'03'" Change Agent - DREP API
(168)	BITSTRING	0	D2G_DB2CONN_CREATE_CHANGE	
				"X'04'" Change Agent - CREATE SPI
Equates to test D2G_DB2CONN_INSTALL_AGENT				
(168)	BITSTRING	0	D2G_DB2CONN_CSDAPI_INSTALL	
				"X'01'" Install Agent - CSD API
(168)	BITSTRING	0	D2G_DB2CONN_CREATE_INSTALL	
				"X'04'" Install Agent - CREATE SPI

Table 64. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(168)	BITSTRING	0	D2G_DB2CONN_ GRPLIST_INSTALL	
				"X'05'" Install Agent - GRPLIST

D2RDS CICS/DB2 Resource statistics

```
CONTROL BLOCK NAME = DFHD2RDS
DESCRIPTIVE NAME  = CICS DB2 Resource statistics
   @BANNER_START 02
                        DFHD2RDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
        This dsect describes the CICS/DB2 statistics provided by
        the CICS/DB2 Attachment facility.
        A single record will be built to respond to a request for
        DB2ENTRY statistics.
LIFETIME =
        The statistics record is created when a resource statistics
        request is received. Storage for the data block is released
        when the user task is detached.
STORAGE CLASS =
LOCATION =
        The user is passed a pointer to the head of the storage
        block.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Domain call buffer
 ------------------------------------------------------------------
 EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = from CICS/DB2 Attachment Facility
    GLOBAL VARIABLES (Macro pass) = none
 ------------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHD2RDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 65.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHD2RDS	CICS/DB2 Resource statistics
(0)	FULLWORD	4	(0)	fullword alignment
(0)	HALFWORD	2	D2RLEN	Length of data area
(0)	SIGNED	0	D2RIDE	"0103" CICS/DB2 resource stats id mask
(2)	ADDRESS	2	D2RID	CICS/DB2 resource stats id
(2)	BITSTRING	0	D2RVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	D2RDVERS	Stats version number

Table 65. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5)	CHARACTER	3		Filler
(8)	CHARACTER	8	D2R_DB2ENTRY_NAME	name of the DB2ENTRY
(10)	CHARACTER	8	D2R_PLAN_NAME	static plan name if any
(18)	CHARACTER	8	D2R_PLANEXIT_NAME	planexit name if any
(20)	CHARACTER	8	D2R_AUTHID	static authid if any
(28)	BITSTRING	1	D2R_AUTHTYPE	authtype if any
(29)	BITSTRING	1	D2R_ACCOUNTREC	Accountrec setting
(2A)	BITSTRING	1	D2R_THREADWAIT	Threadwait setting
(2B)	BITSTRING	1	D2R_PRIORITY	thread priority
(2C)	FULLWORD	4	D2R_CALLS	number of calls using db2entry
(30)	FULLWORD	4	D2R_SIGNONS	number of signons
(34)	FULLWORD	4	D2R_COMMITS	number of commits
(38)	FULLWORD	4	D2R_ABORTS	number of aborts
(3C)	FULLWORD	4	D2R_SINGLE_PHASE	number of single phase commits
(40)	FULLWORD	4	D2R_THREAD_REUSE	number of thread reuses
(44)	FULLWORD	4	D2R_THREAD_TERM	number of thread terminates
(48)	FULLWORD	4	D2R_THREAD_WAIT_OR_OVERFL	
				number of thread waits or overflows
(4C)	FULLWORD	4	D2R_THREAD_LIMIT	maximum number of threads
(50)	FULLWORD	4	D2R_THREAD_CURRENT	current number of threads
(54)	FULLWORD	4	D2R_THREAD_HWM	peak number of threads
(58)	FULLWORD	4	D2R_PTHREAD_LIMIT	maximum number of protected threads
(5C)	FULLWORD	4	D2R_PTHREAD_CURRENT	
				current number of protected threads
(60)	FULLWORD	4	D2R_PTHREAD_HWM	peak number of protected threads
(64)	FULLWORD	4	D2R_TASK_CURRENT	current number of tasks
(68)	FULLWORD	4	D2R_TASK_HWM	peak number of tasks
(6C)	FULLWORD	4	D2R_TASK_TOTAL	total number of tasks

Table 65. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(70)	FULLWORD	4	D2R_READYQ_ CURRENT	number of tasks on ready queue
(74)	FULLWORD	4	D2R_READYQ_HWM	peak number of tasks on ready queue
(78)	FULLWORD	4	D2R_PARTIAL_ SIGNONS	
				number of partial signons
(7C)	FULLWORD	4	D2R_THREAD_ CREATE	Number of thread creates
(80)	FULLWORD	4	D2R_REUSELIMIT_ COUNT	
				Number times reuselimit reached
(84)	CHARACTER	24		reserved
(9C)	CHARACTER	8	D2R_DEFINE_ SOURCE	Group installed from
(A4)	BITSTRING	8	D2R_CHANGE_TIME	Change/create time
(AC)	CHARACTER	8	D2R_CHANGE_ USERID	Change userid
(B4)	BITSTRING	2	D2R_CHANGE_AGENT	Change agent
(B6)	BITSTRING	2	D2R_INSTALL_ AGENT	Install agent
(B8)	BITSTRING	8	D2R_INSTALL_TIME	Install/Create time
(C0)	CHARACTER	8	D2R_INSTALL_ USERID	Install userid
(C8)	BITSTRING	4		Reserved
(C8)		0	D2R_END	"*"
(C8)		0	D2R_LENGTH	"*-D2RLEN" Length of dsect
Equates to test D2R_AUTHTYPE				
	....		D2R_AUTHTYPE_NA	"0" Not applicable
(C8)	SIGNED	0	D2R_AUTHTYPE_ USERID	
				"1" Authtype(userid)
(C8)	SIGNED	0	D2R_AUTHTYPE_ OPID	"2" Authtype(opid)
(C8)	SIGNED	0	D2R_AUTHTYPE_ GROUP	"3" Authtype(group)
(C8)	SIGNED	0	D2R_AUTHTYPE_ SIGNID	
				"4" Authtype(signid)
(C8)	SIGNED	0	D2R_AUTHTYPE_ TERM	"5" Authtype(term)

Table 65. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C8)	SIGNED	0	D2R_AUTHTYPE_ TXID	"6" Authtype(txid)
Equates to test D2R_ACCOUNTREC				
(C8)	SIGNED	0	D2R_ACCOUNTREC_ NONE	
				"1" Accountrec(none)
(C8)	SIGNED	0	D2R_ACCOUNTREC_ TXID	
				"2" Accountrec(txid)
(C8)	SIGNED	0	D2R_ACCOUNTREC_ TASK	
				"3" Accountrec(task)
(C8)	SIGNED	0	D2R_ACCOUNTREC_ UOW	"4" Accountrec(uow)
Equates to test D2R_THREADWAIT				
(C8)	SIGNED	0	D2R_THREADWAIT_ YES	"1" Threadwait(yes)
(C8)	SIGNED	0	D2R_THREADWAIT_ NO	"2" Threadwait(no)
(C8)	SIGNED	0	D2R_THREADWAIT_ POOL	
				"3" Threadwait(pool)
Equates to test D2R_PRIORITY				
	....		D2R_PRIORITY_NA	"0" Not applicable
(C8)	SIGNED	0	D2R_PRIORITY_ HIGH	"1" Priority(high)
(C8)	SIGNED	0	D2R_PRIORITY_ EQUAL	"2" Priority(equal)
(C8)	SIGNED	0	D2R_PRIORITY_LOW	"3" Priority(low)
Equates to test D2R_CHANGE_AGENT				
(C8)	SIGNED	0	D2R_CSDAPI_ CHANGE	"1" Change Agent - CSD API
(C8)	SIGNED	0	D2R_CSDBATCH_ CHANGE	
				"2" Change Agent - DFHCSDUP
(C8)	SIGNED	0	D2R_DREPAPI_ CHANGE	"3" Change Agent - DREP API
(C8)	SIGNED	0	D2R_CREATE_ CHANGE	"4" Change Agent - CREATE SPI
Equates to test D2R_INSTALL_AGENT				
(C8)	SIGNED	0	D2R_CSDAPI_ INSTALL	"1" Install Agent - CSD API
(C8)	SIGNED	0	D2R_CREATE_ INSTALL	"4" Install Agent - CREATE SPI

Table 65. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C8)	SIGNED	0	D2R_GRPLIST_ INSTALL	
				"5" Install Agent - GRPLIST

CTXPA DL/I General purpose macro

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

Table 66.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHCTXPA	,
(0)	ADDRESS	4	CTEINIT	Init Token - Addresses the DGB
(4)	CHARACTER	4	CTEDBCTL	DCBTL ID
(8)	CHARACTER	2	CTEOFUNC (0)	DRA Over-all function code
(8)	CHARACTER	1	CTEFUNC	DRA Function code
(8)	BITSTRING	0	CTERSYN	"X'02'" Resync
(8)	BITSTRING	0	CTEFAIL	"X'05'" DRA/DBCTL Failure
(9)	BITSTRING	1	CTESFUNC	DRA Sub-function code
(9)	BITSTRING	0	CTEIDFL	"X'01'" IDENTIFY Failed
(9)	BITSTRING	0	CTECANC	"X'02'" INIT request failed
(9)	BITSTRING	0	CTEDBCF	"X'03'" DBCTL has terminated
(9)	BITSTRING	0	CTEDRAF	"X'04'" DRA Abnormally terminating
(9)	BITSTRING	0	CTEDBCC	"X'05'" /CHR FREEZE issued
(A)	HALFWORD	2	CTEIDLEN	In-doubt List Length (-1 indicates failure in Adapter)
(C)	ADDRESS	4	CTEIDPTR	In-doubt List pointer
(10)	CHARACTER	8	CTEJOBNM	Jobname of active DBCTL sub-system
(18)	CHARACTER	1	CTECRC	DBCTL Command Recognition character

Table 66. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(19)	CHARACTER	1	CTERGTY	DBCTL Region type
(19)	BITSTRING	0	CTEDBCX	"X'01'" DB/DC with XRF
(19)	BITSTRING	0	CTEDBCO	"X'02'" DB/DC Only
(19)	BITSTRING	0	CTEDBCL	"X'04'" DBCTL
(1A)	BITSTRING	2	CTEMITCB	Minimum number of TCBs
(1C)	BITSTRING	2	CTEMATCB	Maximum number of TCBs
(1E)	CHARACTER	1	CTERCOD	DBCTL Failure reason code
(1E)	BITSTRING	0	CTESSF	"X'01'" MVS SSI Failure
(1E)	BITSTRING	0	CTEABND	"X'02'" DBCTL Abend
(1E)	BITSTRING	0	CTEGMF	"X'03'" DRA Getmain Failure during INIT
(1E)	BITSTRING	0	CTEOPC	"X'04'" System Operator cancelled Init
(1E)	BITSTRING	0	CTEDBNZ	"X'05'" DBCTL set non-zero ret on Identify
(1E)	BITSTRING	0	CTEESTF	"X'06'" DRA could not establish ESTAE
(1E)	BITSTRING	0	CTEDRAA	"X'07'" DRA abended
(1E)	BITSTRING	0	CTENTUP	"X'08'" DBCTL is not active
(1E)	BITSTRING	0	CTENOSS	"X'09'" DBCTL does not exist
(1E)	BITSTRING	0	CTENINT	"X'0A'" DBCTL is in initialisation process
(1E)	BITSTRING	0	CTERSTN	"X'0B'" DBCTL init done, waiting for restart
(1E)	BITSTRING	0	CTERST	"X'0C'" DBCTL is in restart process
(1E)	BITSTRING	0	CTEBRST	"X'0D'" Backup in ERE mode
(1E)	BITSTRING	0	CTETKOV	"X'0E'" Takeover mode
(1E)	BITSTRING	0	CTEITCF	"X'0F'" Internal DRA TERM after CHEFZ
DS CL3				
(1F)	BITSTRING	4	CTEPARETC	PAPARETC
(23)	BITSTRING	2	CTEASID	DBCTL ASID
(25)	CHARACTER	8	CTEJOBID	DBCTL JES Job ID

Table 66. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2D)	CHARACTER	8	CTERSEN	DBCTL RSE Name
(38)	FULLWORD	4	CTENOMITHD	Number of times min thread hit
(3C)	FULLWORD	4	CTENOMATHD	Number of times max thread hit
(40)	FULLWORD	4	CTEELMAX	Elapsed time at max thread
(44)	FULLWORD	4	CTEHIWAT	Highest number of threads attached
(44)		0	CTELNGTH	"*-DFHCTXPA" End of Control Exit Parameter List

CWE DL/I General purpose macro

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

Table 67.

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

DSB DBCTL Scheduling block

```
CONTROL BLOCK NAME = DFHDSB
   (In DFHDBCOP, invoked via DFHDBMAC)
   (Invoked by DFHDLP DSB=DSECT)
DESCRIPTIVE NAME  = CICS DBCTL Scheduling Block
 @BANNER_START 02
                       DFHDBCOP
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
```

```
                        @BANNER_END
                        FUNCTION =
                        Used to store task-related information
                        regarding the CICS-DBCTL interface.
                        LIFETIME =
                        The DBCTL Scheduling Block (DSB) is acquired when a task issues
                        its first schedule request to DBCTL. It is cleared just before
                        each subsequent schedule request from the same task is processed.
                        It is released at task termination.
                        LOCATION = PAPL token -> DSB
                        NOTES :
                         DEPENDENCIES = S/370
                         RESTRICTIONS = None
                         MODULE TYPE = Control Block definition
                        ----------------------------------------------------------------
                        EXTERNAL REFERENCES =
                              TCA, DGB, PCB list.
                        CONTROL BLOCKS =
                            DBCTL exit addresses
                        GLOBAL VARIABLES (Macro pass) = None
```

Table 68.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	656	DFHDSB	
Fields common to all DSBs				
(0)	CHARACTER	8	DSBDESC	Set to DFHDSB
(8)	ADDRESS	4	DSBTCA	Address of the TCA
(C)	ADDRESS	4	DSBDGB	Address of the DGB
(10)	ADDRESS	4	DSBTTOK	Task Token
Contains address of DSB				
(14)	ADDRESS	4	DSBTECB	Task ECB used by Suspend and
Resume exits				
(18)	ADDRESS	4	DSBRESPW	Pointer to the response word -
This field is set by DFHDBAT				
(1C)	ADDRESS	4	DSBSSX	pointer to the status exit extn
(20)	CHARACTER	1	DSBRTYP	Request Type
I: Connection Request T: Disconnection Request P: PSB Schedule Request D: DL/I Request R: Resync S: CICS Shutdown				
Fields relating to Schedule Requests These fields are relevant for the duration of a schedule Term cycle.				
(21)	BIT(8)	1	DSBFLAGS	
	1...		DSBSCHED	Indicator for schedule 1 : DBCTL PSB scheduled successfully during task 0 : DBCTL PSB never schedule
	.1..		DSBIOREQ	Indicator for IOPCB 1 : IOPCB required 0 : IOPCB not required

Table 68. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		DSBINRMC	This task in DFHRMCAL This bit is set and reset in a single request
	...1		DSB_WAIT	Wait in IMS request ind.
	.... 1...		DSBTRLV2	Trace Flag used by DBREX 1 : RMI lvl 2 trace active 0 : RMI lvl 2 trace inactive
	.... .1..		DSBPREP	We have seen prepare
	.... ..1.		DSBDPL	Was this DPL'd to
	1		DSBPSK	DRA supports PSK
(22)	CHARACTER	8	DSBPSBNM	PSB name
(2A)	UNSIGNED	1	DSBWRTH	Deadlock worth
(2B)	CHARACTER	1	DSBLSFL	Long-Short flag
(2C)	ADDRESS	4	DSBPCBL	Address of PCB List
(2C)	FULLWORD	4	DSBTIMEO	Shutdown timeout value
(30)	ADDRESS	4	DSBDBPCB	Address of first DBPCB
(34)	FULLWORD	4	DSBMAXIO	Maximum IO size
(38)	FULLWORD	4	DSBMAXKE	Maximum key length
(3C)	ADDRESS	4	DSBADGMA	Addr getmn'd area
(40)	FULLWORD	4	DSBLATFM	Lgth area to free
(44)	CHARACTER	1	DSBPLTY	PSB language type
Fields relating to DL/I requests				
(45)	CHARACTER	1	DSBALTY	Application language type
(46)	CHARACTER	1	*	Reserved
(47)	CHARACTER	1	DSBCTLCT	DBCTL Inv'n count
(48)	FULLWORD	4	DSBSEGL	Segment length
(4C)	ADDRESS	4	DSBSEGA	Segment address
Area to contain R1 parameter list to the Adapter				
(50)	CHARACTER	64	DSBPARMS	Parameters to interface with the Adapter
Monitoring and trace areas are placed at the end of the DSB so that the rest of the DSB can be traced by DFHDBREX without the need for multiple GTRACE requests (255 byte limit). Monitoring area used on schedule and term requests.				
(90)	CHARACTER	256	DSBMONI	Monitoring info from DBCTL
Trace area used to build GTF trace entry output by DFHDBREX.				

Table 68. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(190)	CHARACTER	256	DSBGTRACE	Trace area used by GTRACE

R1 Parameter List for a Connection Request to the Adapter

Table 69.

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

Response From a Connection Request to the Adapter

Table 70.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	DSBINIR	
(0)	HALFWORD	2	DSBINRESPL	Length of the response
(2)	CHARACTER	1	*	Reserved

Table 70. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	CHARACTER	1	*	Reserved
(4)	UNSIGNED	4	DSBINPRETC	Return code from the PAPL
(8)	CHARACTER	4	DSBINDBCID	DBCTL ID
(C)	ADDRESS	4	DSBINCTOKN	Call Token

R1 Parameter list for a Disconnection Request to the Adapter

Table 71.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	DSBTERP	
(0)	ADDRESS	4	DSBTERTYPA	Address of the Request Type
(4)	ADDRESS	4	DSBTETTOKA	Address of the Task Token
(8)	ADDRESS	4	DSBTERESPA	Address of Adapter response word
(C)	ADDRESS	4	*	Reserved
(10)	ADDRESS	4	DSBTETTYPA	Address of Disconnection Type Flag

Response from a Disconnection Request to the Adapter

Table 72.

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

R1 parameter list for PSB Schedule request to the Adapter

Table 73.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	DSBPSBP	
(0)	ADDRESS	4	DSBPSRTYPA	Address of the Request Type

Table 73. (continued)

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

Response from a PSB Schedule request to the Adapter

Table 74.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	DSBPSBR	
(0)	HALFWORD	2	DSBPSRESPL	Length of the Response
(2)	CHARACTER	1	DSBPSPLTY	PSB Language Type
(3)	BIT(8)	1	DSBPSFLAGS	
	1111 1...		*	Reserved
	.... .1..		DSBPSP31	PCB Loc 31
	.... ..1.		*	Reserved
	1		DSBPSPSK	DRA supports PSK
(4)	UNSIGNED	4	DSBPSPRETC	Return Code from the PAPL
(8)	ADDRESS	4	DSBPSPCBL	Address of PCB list
(C)	ADDRESS	4	DSBPSDBPCB	Address of first DBPCB
(10)	FULLWORD	4	DSBPSMAXIO	Maximum IO size
(14)	FULLWORD	4	DSBPSMAXKE	Maximum key length

R1 Parameter list for DL/I request to Adapter

Table 75.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	DSBDLIP	
(0)	ADDRESS	4	DSBDLRTYPA	Address of the Request Type

Table 75. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	ADDRESS	4	DSBDLTTOKA	Address of the Task Token
(8)	ADDRESS	4	DSBDLRESPA	Address of Adapter Response Word
(C)	ADDRESS	4	*	Reserved
(10)	ADDRESS	4	DSBDLAPR1A	Address of Application Parameter List
(14)	ADDRESS	4	DSBDLALTYA	Address of Language Type

Response from a DL/I request to the ADAPTER

Table 76.

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

Format of PAPLRETC response code from the DRA

Table 77.

Offset Hex	Type	Len	Name (dim)	Description
(4)	STRUCTURE	4	DSBPRETC	
(4)	BIT(8)	1	DSBPRETC_FLAGS	Flag values
(5)	BIT(12)	2	DSBPRETC_SYSTEM	System abend code
(6)	BIT(12) POS(5)	2	DSBPRETC_USER	User abend code

Constants

Table 78.

Len	Type	value	Name	Description
Possible values of DSBTERT				
1	CHARACTER	O	DSBTERT_ORD	
1	CHARACTER	I	DSBTERT_IMM	
1	CHARACTER	A	DSBTERT_ABND	
Possible values of DSBRTP				
1	CHARACTER	I	DSBINIT_REQ	initialization DSB
1	CHARACTER	T	DSBTERM_REQ	termination DSB
1	CHARACTER	P	DSBPSB_REQ	schedule DSB

Table 78. *(continued)*

Len	Type	value	Name	Description
1	CHARACTER	D	DSBDLI_REQ	DLI req DSB
1	CHARACTER	R	DSBRES_REQ	resync DSB
1	CHARACTER	S	DSBSHU_REQ	shutdown DSB
Possible values of DSBALTY and DSBPLTY				
1	HEX	01	DSBLPLI	PL/I
1	HEX	02	DSBLCOB	COBOL
1	HEX	03	DSBLFOR	Fortran
1	HEX	04	DSBLASM	assembler
1	HEX	08	DSBLAIB	AIB
Value of DSBWRTH				
1	DECIMAL	87	DSBWRTH_CICS	
Value of DSBLSFL				
1	HEX	80	DSBLSFL_CICS	CICS tasks classed as short
Possible values of DSBTETTYP, i.e. the field that DSBTETTYPA points to.				
1	CHARACTER	C	DSBTETTYP_CHKPT	
1	CHARACTER	F	DSBTETTYP_FAST	
1	CHARACTER	S	DSBTETTYP_SLOW	
Values of bit flags				
0	BIT	1	DSB_ON	
0	BIT	0	DSB_OFF	
Values of DFHDBAT'S Return codes in R15				
4	DECIMAL	4	DSBUNSUP	Call not understood
4	DECIMAL	8	DSBIFDUP	Redundant interface Call
4	DECIMAL	12	DSBINNLD	Connect load failure
4	DECIMAL	16	DSBTRPRE	Disconnect Preempted
4	DECIMAL	24	DSBADNRY	Adapter not ready
4	DECIMAL	28	DSBADDIS	Adapter is disabled
4	DECIMAL	32	DSBCANCD	Thread is cancelled
4	DECIMAL	36	DSBCADUP	Redundant Cancel Call
1	HEX	80	DSBPRETC_ ABEND_SNAP	abend + snap
1	HEX	88	DSBPRETC_ABEND	abend
1	HEX	84	DSBPRETC_ ABEND_DRASNAP	
				abend + DRA snap
1	HEX	40	DSBPRETC_STATUS	status code
1	HEX	00	DSBPRETC_RETURN	return code

DGB DBCTL-CICS Global Block

```
CONTROL BLOCK NAME = DFHDGB
   (In DFHDBCOP, invoked via DFHDBMAC)
   (Invoked by DFHDLP DGB=DSECT)
DESCRIPTIVE NAME  = CICS DBCTL-CICS Global Block
 @BANNER_START 02
                          DFHDBCOP
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
 FUNCTION =
 Used to store connection/disconnection information
 regarding the CICS-DBCTL interface.
 LIFETIME =
 The DBCTL Global Block (DGB) is acquired when initialisation
 of the CICS-DBCTL interface is first attempted.
 It is used to store connection/disconnection information
 regarding the CICS-DBCTL interface.
 It is released at the end of the CICS session.
 LOCATION = CSA->OPFL->DLP->DGB
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS = None
  MODULE TYPE = Control Block definition
 ----------------------------------------------------------------
 EXTERNAL REFERENCES =
  CSA, DLP, Control Transaction Area, DBCTL-XRF area
  DATA AREAS =
      Values from MVS and JES control blocks concerning DBCTL
  CONTROL BLOCKS =
      DBCTL exit addresses
  GLOBAL VARIABLES (Macro pass) = None
```

Table 79.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	248	DFHDGB	Based DGB
(0)	CHARACTER	8	DGBDESC	Set to DFHDGB
(8)	ADDRESS	4	DGBCSA	Address of the CSA
(C)	ADDRESS	4	DGBDLP	Address of the DLP
(10)	ADDRESS	4	DGBCTA	Address of the Control Txn Area
(14)	ADDRESS	4	DGBDXBA	Address of the DBCTL-XRF area
(18)	ADDRESS	4	DGBSMTOK	Storage Manager Token
(1C)	ADDRESS	4	DGBCTOKN	Call Token - Returned on response to INIT from the Adapter
(20)	FULLWORD	4	DGBDSENO	Session Number of CICS-DBCTL
(24)	CHARACTER	4	DGBDSTATCS	Status Fields
(24)	CHARACTER	1	DGBDSTAT	Status of the CICS-DBCTL interface

Table 79. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(25)	UNSIGNED	3	DGBDSTCT	Count incremented by 1 when DGBDSTAT is updated or when the control exit is notified by DBCTL of a change in DBCTL's state
(28)	CHARACTER	4	DGBCFLAGCS	Added for CS logic
(28)	CHARACTER	1	DGBCFLAG	Cleanup flag
	1...		DGBDFAIL	DBCTL or DRA has failed
	.1..		DGBATEN	Indicator for adapter enable 1
	..1.		DGBDXERR	Indicator for XRF proc's 0 : Enabled 1 : Disabled due to error
	...1		DGBCABORT	CICS aborted the connection..
	.... 1...		DGBMNPND1	MN call 1 got back POINT_NOT_DEFINED
	.... .1..		DGBMNPND2	MN call 2 got back POINT_NOT_DEFINED
	11		*	Reserved
(29)	UNSIGNED	3	DGBDRMCT	Count of number of DFHRMCAL requests active in the ADAPTER/DRA
(2C)	FULLWORD	4	DGBPSBSU	Total number of successful PSB schedule requests
	Connection information			
(30)	CHARACTER	2	DGBSTSU	Startup Table Suffix
(32)	CHARACTER	4	DGBIDBID	DBCTL id Override (if any)
(36)	CHARACTER	8	DGBCAPLD	CICS APPLID
(3E)	CHARACTER	2	*	Reserved
(40)	CHARACTER	4	DGBABORTCS	Added for CS logic
(40)	CHARACTER	1	DGBABORTRC	Reason for connection abort
	1...		DGBNOPSK	Storage protect active but DRA does not support storage protection
	.111 1111		*	Reserved
(41)	CHARACTER	3	*	Reserved

Table 79. (continued)

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

Table 79. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(CE)	HALFWORD	2	DGBMATHD	Maximum number of threads
(D0)	CHARACTER	8	DGBRSEN	DBCTL RSE Name
IMS Support information				
(D8)	CHARACTER	1	DGBDLEV	Support flags(from PAPLDLEV)
	1111		*	Reserved
	.... 1...		DGBOTCB	IMS supports OTE environment
	.... .1..		DGBLPL31	PCB in 31 bit storage
	.... ..1.		DGBSUPD	DRA supports single updater
	1		DGBPSK	DRA supports PSK
Disconnection information				
(D9)	CHARACTER	1	DGBDISTY	Disconnection type
(DA)	CHARACTER	8	DGBDTIME	Disconnect time
Disconnection information returned from DBCTL These fields relate to the previous CICS-DBCTL session				
(E2)	CHARACTER	2	*	Reserved
(E4)	FULLWORD	4	DGBNOMATHD	Max thread hits
(E8)	FULLWORD	4	DGBNOMITHD	Min thread hits
(EC)	CHARACTER	4	DGBELMAX	Elapsed time at Max Threads
(F0)	FULLWORD	4	DGBHIWAT	Hi-Water for no. of Threads
(F4)	ADDRESS	4	DGBALOAD	Load addr ADAPTER-XFORMER

Table 80.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	DFHDGBCTA	
Control transaction information				
(0)	ADDRESS	4	DGBCWEHD	Control trans. work elements header
(4)	CHARACTER	1	DGBCTL	Control transaction flag
	1...		DGBCTLATT	Control transaction attached
	.111 1111		*	Reserved
(5)	CHARACTER	3	*	Reserved
(8)	ADDRESS	4	DGBCECB	Control transaction ECB

Table 80. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	CHARACTER	8	DGBDTIM	Time DRA last abnormally terminated
(14)	CHARACTER	16	DGBCWEERR	storage for control exit error CWE
(14)	ADDRESS	4	DGBCWEERRA	work ptr used in Building CWEERR
(18)	CHARACTER	12	*	Reserved
(24)	CHARACTER	16	DGBCWETERM	storage for control exit term CWE
(24)	ADDRESS	4	DGBCWETERMA	
(28)	CHARACTER	12	*	Reserved

Constants

Table 81.

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

DLP DL/I General purpose macro

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

Table 82.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHDLPDS	DL/I INTERFACE PARM DSECT
	CICS - DL/I INTERFACE PARAMETERS			
(0)	CHARACTER	8	DLPEYE	DLP Eyecatcher
(8)	FULLWORD	4		Reserved
(C)	ADDRESS	4	DLPDLI	ADDR OF ENTRY TO DFHDLI
(10)	BITSTRING	1	DLPDLFLG	DLI support flags
(10)	BITSTRING	0	DLPDLRE	"X'40'" Remote DLI is supported
(10)	BITSTRING	0	DLPXRF	"X'10'" XRF takeover was performed
(11)	ADDRESS	3		Reserved
(14)	ADDRESS	4	DLPDGB	Address of the DBCTL global block
(18)	ADDRESS	4	DLPDPEP	Address of DFHDLIDP (the DBCTL call processor)
(1C)	ADDRESS	4	DLPRPEP	Address of DFHDLIRP (the Remote call processor)
(20)	ADDRESS	4		Reserved
(24)	ADDRESS	4	DLPEDPEP	Address of DFHEDP (the EXEC DLI program)
(28)	ADDRESS	4	DLPRPDIR	Address of the remote PDIR
(2C)	ADDRESS	4		Reserved
(30)	BITSTRING	1	DLPFLG	Flag Byte
(30)	BITSTRING	0	DLPPSBCK	"X'02'" User Security Checking Required CF DFHSIT PSBCHK=YES|NO
(31)	ADDRESS	3		Reserved
(34)	ADDRESS	4	DLPLCKDGB	Lock Manager Token for DFHDGB

Table 82. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	ADDRESS	4	DLPLCKGWA	Lock Manager Token for Global Work Area
(38)		0	DLPDFEND	"*" End of dlp
(38)	SIGNED	0	DLPDISPL	"8" DISPLACEMENT IN PDIR FROM COUNT FIELD TO START OF THE DIRECTORY

RPD DL/I General purpose macro

```
CONTROL BLOCK NAME = DFHRPD
DESCRIPTIVE NAME  = CICS CICS DL/I General Purpose Macro
 @BANNER_START 02
                        DFHDBCOP
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     Provide the remote PDIR entry.
NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = NONE
 MODULE TYPE = EXECUTABLE
 -----------------------------------------------------------------
```

Table 83.

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

RSB DL/I General Purpose Macro

```
MACRO NAME = DFHDLP
DESCRIPTIVE NAME  = CICS DL/I General Purpose Macro
FUNCTION =
NOTES :
 DEPENDENCIES = S/370
```

```
            RESTRICTIONS = NONE
            PATCH LABEL = NONE
            MODULE TYPE = EXECUTABLE
                REMOTE SCHEDULING BLOCK
```

Table 84.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHRSBDS	
(0)	FULLWORD	4		STORAGE ACCOUNTING
(4)	FULLWORD	4		STORAGE ACCOUNTING
(4)		0	RSBSTART	"*" START OF RSB
(8)	ADDRESS	4	RSBPDIR	A(REMOTE PDIR ENTRY)
(C)	CHARACTER	4	RSBSYSID	REMOTE SYSTEM ID
PLIST FOR IS CONVERSE				
(10)	FULLWORD	4	RSBISPL (0)	
(10)	CHARACTER	1	(0)	REQUEST TYPE
(10)	CHARACTER	1		RETURN CODE
(11)	CHARACTER	1		MODIFIER, REQUEST INDEPENDENT
(12)	CHARACTER	1		MODIFIER, REQUEST DEPENDENT
(13)	CHARACTER	1		RESERVED
(14)	FULLWORD	4		TCTTE ADDRESS
(18)	FULLWORD	4	(0)	XFR ADDRESS
(18)	CHARACTER	4		TRANSACTION ID
(1C)	CHARACTER	4		REMOTE SYSTEM ID
(20)	CHARACTER	8		TRANSACTION ROUTING PROFILE
(28)	HALFWORD	2		Number of send sessions
(2A)	HALFWORD	2		Number of receive sessions
(2C)	CHARACTER	8		Connectee NETNAME
(34)	CHARACTER	8		Security name
(3C)	FULLWORD	4		Address of LCL entry
(40)	FULLWORD	4		Address of CRB

```
          TRANSFORMER'S (DFHXFP'S) INTERFACE BLOCK
   CONTROL BLOCK NAME = DFHXFRDS
   DESCRIPTIVE NAME  = CICS Function Request Shipping Request
                         Control Block.
   MACROS = DFHXFSTG
   FUNCTION =
        Defines the data transformation (XF) control block
        as used in batch and online environments.
```

Table 84. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	DBL WORD	8	XFRSTART (0)	XF control block - start
FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO AN ONLINE ENVIRONMENT NOTE: There is a copy of this storage up to XFRFLAGA in DFHEPC and up to XFRAADPT in DFHEIIC. These programs must also be changed if the offset of XFRFLAGA (or XFRAADPT for DFHEIIC) changes. The field names in these programs are TFRFLAGA and TFRAADPT.				
SYSTEM/SESSION RELATED FIELDS				
(48)	CHARACTER	4	XFRSYSNM	N(SYSID)
(4C)	ADDRESS	4	XFRATCSE	A(TCTSE)
(50)	ADDRESS	4	XFRATCTE	A(TCTTE) OR 0
(54)	ADDRESS	4	XFRATIOA	A(TIOA) OR 0
(58)	CHARACTER	4	XFRLUCCD	LU6.2 ERROR (SENSE) CODE
(5C)	CHARACTER	4	XFRSTRAN	Server transaction code
(60)	BITSTRING	1	XFRFLAGA	
(60)	BITSTRING	0	XFRSERVR	"X'80'" Server transaction supplied
(60)	BITSTRING	0	XFRNORM	"X'40'" Normal transformer to be used
(60)	BITSTRING	0	XFRSYNC	"X'20'" SYNCONRETURN requested
(60)	BITSTRING	0	XFRNOATN	"X'10'" CONVERSE with NOATNI required
(60)	BITSTRING	0	XFRLINK	"X'08'" LINK request
(60)	BITSTRING	0	XFRRTDST	"X'04'" Dynamically routed START request
(60)	BITSTRING	0	XFRRESUN	"X'02'" RESUNAVAIL condition supported
(60)	BITSTRING	0	XFRCHAN	"X'01'" CHANNEL request
(62)	HALFWORD	2	XFRRTRLN	Length of router commarea or 0
(64)	ADDRESS	4	XFRRTRAD	A(DFHDSRP) or 0
(68)	BITSTRING	4	XFRCHTOK	Channel Token
(6C)	BITSTRING	1	XFRFLAGB	
(6C)	BITSTRING	0	XFRRSTRT	"X'80'" dynamic and routable start
(6D)	BITSTRING	1		reserved
(6E)	HALFWORD	2	XFRADPLN	Length of adapter data

Table 84. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(70)	ADDRESS	4	XFRAADPT	Address of adapter data
(74)	FULLWORD	4	XFRFSPEC (0)	Origin for function specific storage
	DL/I RELATED FIELDS			
(74)	ADDRESS	4	XFRAUIB	A(UIB)
(78)	FULLWORD	4	XFRDLILN	Maximum length os SETS I/O area so far
	FILE CONTROL RELATED FIELDS			
(7C)	FULLWORD	4	FCBUFLEN	Shipped buffer length
(80)	HALFWORD	2	FCKEYLEN	Shipped record identifier length
(82)	BITSTRING	1	FCEID (9)	ARG 0 OF EIP PARAMETER LIST (EID)
(8B)	BITSTRING	1	(17)	RESERVED
(9C)	FULLWORD	4	(0)	MAKE LENGTH MULTIPLE OF 4
	This DSECT describes the entries required for remote program link			
(9C)	FULLWORD	4	DFHPCENT (0)	PC LINK entries begin here
(9C)	CHARACTER	4	XFR_PC_ATT_TRAN	Transaction code - for mirror attach FMH
(A0)	CHARACTER	4	XFR_PC_EIB_TRAN	Transaction code - for mirror EIBTRNID
(A4)	FULLWORD	4	XFR_PC_CCSID	Character data conversion 0 => no conversion -1 => conversion required use client code page defined via DFHCNV n => conversion requird use n as override to code page defined via DFHCNV
(A8)	FULLWORD	4	XFR_PC_NDIAN	Binary data conversion 0 => no conversion X'01020304' => data held in big endian format X'04030201' => data held in little endian format
(AC)	CHARACTER	8	XFRPNAME	name of program
(B4)	HALFWORD	2	XFRCOMML	length of commarea
(B6)	HALFWORD	2	XFRDATAL	length of data to be sent

Table 84. (continued)

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

Table 84. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E0)	ADDRESS	4	XFRPLIST	ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSF'R
(E4)	ADDRESS	4	XFRATABN	A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE
(E8)	ADDRESS	4	XFRATAB2	A(2ND TABLE ENTRY) - E.G. PDIR OR 0
(EC)	CHARACTER	1	XFRFORMN	THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS
	....		XFRTRAN1	"0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS
(EC)	SIGNED	0	XFRTRAN2	"2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS
(EC)	SIGNED	0	XFRTRAN3	"4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES
(EC)	SIGNED	0	XFRTRAN4	"6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES
(ED)	CHARACTER	2	XFRARCHD	USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE
(EF)	CHARACTER	1	XFRGROUP	THE GROUP IDENTIFIER FOR THE CURRENT REQUEST
(EF)	BITSTRING	0	XFRFCGRP	"X'06'" - THE CICS FC GROUP
(EF)	BITSTRING	0	XFRTDGRP	"X'08'" - THE CICS TD GROUP
(EF)	BITSTRING	0	XFRTSGRP	"X'0A'" - THE CICS TS GROUP
(EF)	BITSTRING	0	XFRICGRP	"X'10'" - THE CICS IC GROUP
(EF)	BITSTRING	0	XFRJCGRP	"X'14'" - THE CICS JC GROUP

Table 84. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(EF)	BITSTRING	0	XFRDLGRP	"X'40'" - THE DL/I GROUP
(F0)	CHARACTER	1	XFRFUNCT	THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST
(F1)	CHARACTER	1	XFRFLAGS	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(F1)	BITSTRING	0	XFREILST	"X'80'" THE ARGUMENT LIST COMES FROM OR GOES TO EIP
(F1)	BITSTRING	0	XFRDLLST	"X'40'" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I
(F1)	BITSTRING	0	XFRDLCNT	"X'20'" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS
(F1)	BITSTRING	0	XFRDLPLI	"X'10'" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS
(F1)	BITSTRING	0	XFRATHDR	"X'08'" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA
(F1)	BITSTRING	0	XFRLNGRN	"X'04'" THE MIRROR TASK NEEDS TO BE LONG RUNNING
(F1)	BITSTRING	0	XFRNRPLY	"X'02'" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED
(F1)	BITSTRING	0	XFRPRTCT	"X'01'" THE REQUEST IS TO BE SHIPPED PROTECTED
(F2)	CHARACTER	1	XFRFLAG1	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(F2)	BITSTRING	0	XFRLCLQ	"X'80'" THE REQUEST MAY BE QUEUED BEFORE SHIPPING

Table 84. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F2)	BITSTRING	0	XFRFCTK	"X'40'" FC Token can be shipped
(F2)	BITSTRING	0	XFRFCRQ	"X'20'" Shipped FC request
(F2)	BITSTRING	0	XFRTMERR	"X'10'" Terminal error in xformer layer
(F2)	BITSTRING	0	XFRESCAP	"X'02'" Escape sequence preceding 4-byte legths may be found
(F2)	BITSTRING	0	XFRCHANL	"X'01'" This is a CHANNEL request
(F3)	CHARACTER	1	XFRFLAG2	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(F3)	BITSTRING	0	XFRHAENT	"X'80'" DFHMIRVM has handled an abend; the abend code is to be found in the TACB
(F3)	BITSTRING	0	XFRLENFD	"X'40'" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally
(F3)	BITSTRING	0	XFRCHNSP	"X'20'" Other end of MRO link supports channels
(F3)	BITSTRING	0	XFRICRX	"X'10'" Other end of MRO link supports ICRXs
(F3)	BITSTRING	0	XFRODRP	"X'02'" Other end supports propagation of Origin Data
(F4)	CHARACTER	1	XFRFLAG3	PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED
(F5)	CHARACTER	2	XFRCODES (0)	FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER

Table 84. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F5)	CHARACTER	1	XFRCODE1	THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS
(F5)	SIGNED	0	XFR1TO4	"4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4
(F5)	SIGNED	0	XFR1TOC	"8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I
(F5)	SIGNED	0	XFR1XLNF	"2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS
(F5)	SIGNED	0	XFRLNKUN	"219" RESUNAVAIL condition raised in remote region
(F5)	SIGNED	0	XFRLNKAP	"30" Allocate request in ISP has been purged
(F5)	SIGNED	0	XFRLNKAR	"28" Allocate request in ISP has been rejected
(F5)	SIGNED	0	XFRLNKNI	"26" no sessions immediately available for allocate request
(F5)	SIGNED	0	XFRLNKPF	"24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING
(F5)	SIGNED	0	XFRLNKSV	"22" TRANSID invalid, we are already in session with a different mirror transaction.
(F5)	SIGNED	0	XFRDWNLV	"21" The remote system does not support a keyword on this request

Table 84. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F5)	SIGNED	0	XFRLNKGP	"20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID
(F5)	SIGNED	0	XFRLNKSP	"18" SYNCONRETURN invalid, we are already in session with a mirror
(F5)	SIGNED	0	XFRLNKLQ	"16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT
(F5)	SIGNED	0	XFRLNKAB	"14" xform 4 has processed ABCODE data
(F5)	SIGNED	0	XFRLNKNA	"12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE
(F5)	SIGNED	0	XFRLNKSF	"10" CONVERSE in DFHISP has failed
(F5)	SIGNED	0	XFRLNKCP	"9" Special for CPSM only equ of XFRLNKSH.
(F5)	SIGNED	0	XFRLNKSH	"8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE
(F5)	SIGNED	0	XFRLNKNS	"6" Type of request (either LINK or START CHANNEL) is not supported over LU6.1 connections
(F5)	SIGNED	0	XFRLNKSY	"4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE
(F6)	CHARACTER	1	XFRCODE2	THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS

Table 84. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F6)	SIGNED	0	XFR2TO3	"4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3
(F6)	SIGNED	0	XFRNEGR	"8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT
(F7)	CHARACTER	1	XFRABCDE	ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM
(F8)	ADDRESS	4	XFRRESR9	resumption base for DL/I function shipping
(FC)	ADDRESS	4	XFRRESRE	resumption address for DL/I function shipping
(100)	ADDRESS	4	XFRBEGOP	address of Arg0 options bytes
(104)	FULLWORD	4	XFRARGS (0)	ORIGIN FOR ARGUMENTS
(104)		0	XFRLNGTH	"*-XFRSTART"
TRANSFORMER'S RESOURCE TABLE				
(108)	DBL WORD	8	DRXSTRT (0)	START OF DFHDRX
(108)	FULLWORD	4	DRXSSASZ	MAX SSA SIZE AS PERCEIVED BY THIS SYSTEM
(10C)	CHARACTER	8	DRXRPSB	NAME OF PSB TO BE USED ON REMOTE SYSTEM
(114)	ADDRESS	4	DRXPCBAL	A(LOCAL PCB ADDRESS LIST) THIS FIELD IS SET BY XFR4 DURING SCHEDULE CALL AND IS USED DURING DB CALLS
(118)	ADDRESS	4	DRXCHAIN	CHAIN OF STORAGE SEGMENTS OBTAINED BY TRANSFORMER 4

Table 84. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(11C)	ADDRESS	4	DRXIOAWK	A(READ SET BUFFER); BEFORE DRXBUFAL SET ON CONTAINS LENGTH FOR BUFFER
(120)	HALFWORD	2	DRXINDEX	THE PCB INDEX FOR THE CURRENT DATABASE CALL
(122)	BITSTRING	1	DRXISC	ISC FLAGS
(122)	BITSTRING	0	DRXPCBM	"X'80'" PRESENT TO RETAIN SDB - DL/I SIMILARITY
(122)	BITSTRING	0	DRXBUFAL	"X'40'" READ-SET BUFFER HAS BEEN ALLOCATED; THE ADDRESS IS IN DRXIOAWK
(122)	BITSTRING	0	DRXCHKP	"X'20'" PCB SCHED. ISSUED DURING CHKP CALL; XFR4 SHOULD USE STG FOR OLD PCBS AND LIST
(123)	BITSTRING	1	DRXISCO	ISC OUTBOUND FLAGS
(123)	BITSTRING	0	DRXSYNC	"X'80'" PRESENT TO RETAIN SDB - DL/I SIMILARITY
(123)	BITSTRING	0	DRXHLPI	"X'40'" HLPI COMMAND WITH SSA AND I/O LENGTHS GIVEN
(124)	BITSTRING	1	DRXISCI	ISC INBOUND FLAGS
(124)	BITSTRING	0	DRXFUNC	"X'80'" FUNCTION STRING INVALID
(124)	BITSTRING	0	DRXCALL	"X'40'" USER CALL PARM LIST INVALID
(124)	BITSTRING	0	DRXLNKNA	"X'20'" LINK DOES NOT EXIST
(124)	BITSTRING	0	DRXLNKSH	"X'10'" LINK IS OUT OF SERVICE
(124)	BITSTRING	0	DRXNOSTT	"X'08'" PRESENT TO RETAIN SDB - DL/I SIMILARITY
(125)	BITSTRING	1	DRXFCTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCAFCTR (SET BY XFR4)

Table 84. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(126)	BITSTRING	1	DRXDLTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCADLTR (SET BY XFR4)
(127)	BITSTRING	1	DRXLANG	LANGUAGE TYPE, USED BY XFR1 ON SCHEDULE CALL. IF PL/I THEN LEVEL OF INDIRECTION ADDED TO PCB LIST
(127)	CHARACTER	0	DRXASM	"C'A'" ASSEMBLER
(127)	CHARACTER	0	DRXCOB	"C'C'" COBOL
(127)	CHARACTER	0	DRXPLI	"C'P'" PL/I
(128)	BITSTRING	1	DRXFLG1	FLAG BYTE
(128)	BITSTRING	0	DRXCMPT	"X'80'" COMPAT OPTION USED (HENCE A DUMMY PCB MUST BE ADDED TO LIST, AND TAKEN ACCOUNT OF IN DB CALL)
(128)	BITSTRING	0	DRXSPIE	"X'40'" TELL SPIE THAT IF PGM CHECK OCCURS, THEN INVOKE RETRY
(128)	BITSTRING	0	DRXDPCB	"X'20'" THE DUMMY PCB HAS YET TO BE CREATED BY TRANSFORMER 4
(12C)	FULLWORD	4	DRXRETAD	ADDRESS OF POINT IN TRANSFORMER TO WHICH RETRY ROUTINE SHOULD RETURN
(130)	FULLWORD	4	DRXIOLEN	I/O AREA LENGTH FOR HLPI COMMAND - VALID IF DRXHLPI IS SET
(134)	CHARACTER	1	DRXATPN	TYPE LAST ATTACH HEADER LAST SENT. THERE IS PROBABLY A BETTER PLACE TO HOLD THIS. ONLINE THE INFO IS HELD IN THE TCTTE

Table 84. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(135)	CHARACTER	6	DRXRCODE (0)	RETURN CODE FROM AN EXEC CICS REQUEST
(135)	CHARACTER	1	DRXRCDE1	RESPONSE CODE
(136)	CHARACTER	1	DRXRCDE2	RESERVED
(137)	CHARACTER	1	DRXRCDE3	RESERVED
(138)	CHARACTER	1	DRXRCDE4	RESERVED
(139)	CHARACTER	1	DRXRCDE5	RESERVED
(13A)	CHARACTER	1	DRXRCDE6	RESERVED
(13A)		0	DRXLEN	"*-DRXSTRT" LENGTH OF DFHDRX
(13C)	ADDRESS	4	RSBEXPRM	ADDR OF EDP'S DBLWD FOR LOCATE MODE RETRIEVAL
(13C)		0	RSBLEN	"*-RSBSTART" LENGTH OF RSB

RSB DL/I General Purpose Macro

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

Table 85.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHRSBDS	
(0)	FULLWORD	4		STORAGE ACCOUNTING
(4)	FULLWORD	4		STORAGE ACCOUNTING
(4)		0	RSBSTART	"*" START OF RSB
(8)	ADDRESS	4	RSBPDIR	A(REMOTE PDIR ENTRY)
(C)	CHARACTER	4	RSBSYSID	REMOTE SYSTEM ID
PLIST FOR IS CONVERSE				
(10)	FULLWORD	4	RSBISPL (0)	
(10)	CHARACTER	1	(0)	REQUEST TYPE
(10)	CHARACTER	1		RETURN CODE

Table 85. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(11)	CHARACTER	1		MODIFIER, REQUEST INDEPENDENT
(12)	CHARACTER	1		MODIFIER, REQUEST DEPENDENT
(13)	CHARACTER	1		RESERVED
(14)	FULLWORD	4		TCTTE ADDRESS
(18)	FULLWORD	4	(0)	XFR ADDRESS
(18)	CHARACTER	4		TRANSACTION ID
(1C)	CHARACTER	4		REMOTE SYSTEM ID
(20)	CHARACTER	8		TRANSACTION ROUTING PROFILE
(28)	HALFWORD	2		Number of send sessions
(2A)	HALFWORD	2		Number of receive sessions
(2C)	CHARACTER	8		Connectee NETNAME
(34)	CHARACTER	8		Security name
(3C)	FULLWORD	4		Address of LCL entry
(40)	FULLWORD	4		Address of CRB

	TRANSFORMER'S (DFHXFP'S) INTERFACE BLOCK
	 CONTROL BLOCK NAME = DFHXFRDS
	 DESCRIPTIVE NAME = CICS Function Request Shipping Request
	                     Control Block.
	
	 MACROS = DFHXFSTG
	 FUNCTION =
	     Defines the data transformation (XF) control block
	     as used in batch and online environments.			

(48)	DBL WORD	8	XFRSTART (0)	XF control block - start
	FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO AN ONLINE ENVIRONMENT NOTE: There is a copy of this storage up to XFRFLAGA in DFHEIIC and DFHEPC. These programs must also be changed if the offset of XFRFLAGA changes. the field name in these programs is TFRFLAGA.			
	SYSTEM/SESSION RELATED FIELDS			
(48)	CHARACTER	4	XFRSYSNM	N(SYSID)
(4C)	ADDRESS	4	XFRATCSE	A(TCTSE)
(50)	ADDRESS	4	XFRATCTE	A(TCTTE) OR 0
(54)	ADDRESS	4	XFRATIOA	A(TIOA) OR 0
(58)	CHARACTER	4	XFRLUCCD	LU6.2 ERROR (SENSE) CODE
(5C)	CHARACTER	4	XFRSTRAN	Server transaction code
(60)	BITSTRING	1	XFRFLAGA	

Table 85. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(60)	BITSTRING	0	XFRSERVR	"X'80'" Server transaction supplied
(60)	BITSTRING	0	XFRNORM	"X'40'" Normal transformer to be used
(60)	BITSTRING	0	XFRSYNC	"X'20'" SYNCONRETURN requested
(60)	BITSTRING	0	XFRNOATN	"X'10'" CONVERSE with NOATNI required
(60)	BITSTRING	0	XFRLINK	"X'08'" LINK request
(60)	BITSTRING	0	XFRRTDST	"X'04'" Dynamically routed START request
(60)	BITSTRING	0	XFRRESUN	"X'02'" RESUNAVAIL condition supported
(60)	BITSTRING	0	XFRCHAN	"X'01'" CHANNEL request
(62)	HALFWORD	2	XFRRTRLN	Length of router commarea or 0
(64)	ADDRESS	4	XFRRTRAD	A(DFHDSRP) or 0
(68)	BITSTRING	4	XFRCHTOK	Channel Token
(6C)	BITSTRING	1	XFRFLAGB	
(6C)	BITSTRING	0	XFRRSTRT	"X'80'" dynamic and routable start
(6D)	BITSTRING	1	(6)	reserved
(74)	FULLWORD	4	XFRFSPEC (0)	Origin for function specific storage
		DL/I RELATED FIELDS		
(74)	ADDRESS	4	XFRAUIB	A(UIB)
(78)	FULLWORD	4	XFRDLILN	Maximum length os SETS I/O area so far
		FILE CONTROL RELATED FIELDS		
(7C)	FULLWORD	4	FCBUFLEN	Shipped buffer length
(80)	HALFWORD	2	FCKEYLEN	Shipped record identifier length
(82)	BITSTRING	1	FCEID (9)	ARG 0 OF EIP PARAMETER LIST (EID)
(8B)	BITSTRING	1	(17)	RESERVED
(9C)	FULLWORD	4	(0)	MAKE LENGTH MULTIPLE OF 4
		This DSECT describes the entries required for remote program link		
(9C)	FULLWORD	4	DFHPCENT (0)	PC LINK entries begin here

Table 85. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9C)	CHARACTER	4	XFR_PC_ATT_TRAN	Transaction code - for mirror attach FMH
(A0)	CHARACTER	4	XFR_PC_EIB_TRAN	Transaction code - for mirror EIBTRNID
(A4)	FULLWORD	4	XFR_PC_CCSID	Character data conversion 0 => no conversion -1 => conversion required use client code page defined via DFHCNV n => conversion requird use n as override to code page defined via DFHCNV
(A8)	FULLWORD	4	XFR_PC_NDIAN	Binary data conversion 0 => no conversion X'01020304' => data held in big endian format X'04030201' => data held in little endian format
(AC)	CHARACTER	8	XFRPNAME	name of program
(B4)	HALFWORD	2	XFRCOMML	length of commarea
(B6)	HALFWORD	2	XFRDATAL	length of data to be sent
(B8)	CHARACTER	4	XFRABCD	Abend code returned from mirror
(BC)	BITSTRING	1	XFRFLAG4	Flag byte
(BC)	BITSTRING	0	XFRHTRAN	"X'80'" hex tranid present
(BC)	BITSTRING	0	XFRDATAV	"X'40'" valid DATALENGTH supplied
(BC)	SIGNED	0	ESCARGN	"240" Special id for escape sequence
Fields used for passing terminal error information between MIRS/ISP and the transformer				
(BD)	BITSTRING	4	XFRTCERR	Terminal error
(C1)	CHARACTER	4	XFRTCABE	Terminal control abend code
(C5)	BITSTRING	4	XFRTCSNS	Terminal control sense data
(D0)	DBL WORD	8	CONTAINER_LIST (0)	
(D0)	ADDRESS	4	CONTAINER_LIST_P	Address of container list
(D4)	FULLWORD	4	CONTAINER_LIST_N	Length of container list

Table 85. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(D8)	FULLWORD	4	XFRCHOUT	# outbound channel bytes
(DC)	FULLWORD	4	XFRCHIN	# inbound channel bytes
	FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT			
(48)	ADDRESS	4	XFRASTG1	ADDRESS OF STG CONTAINING THE FLATTENED PLIST. THE TRANSFORMER GETS NEW STG IF XFRASTGE IS 0 OR REUSES THE CURRENT STG IF THIS PROVES LARGE ENOUGH
(4C)	ADDRESS	4	XFRASTG4	ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I.
(50)	FULLWORD	4	XFRASTGL	LENGTH OF THE FLATTENED REPLY IN THE DL/I BUFFERS
	FIELDS IN THE XF CONTROL BLOCK THAT ARE COMMON TO A BATCH AND ONLINE ENVIRONMENTS			
(E0)	ADDRESS	4	XFRPLIST	ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSF'R
(E4)	ADDRESS	4	XFRATABN	A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE
(E8)	ADDRESS	4	XFRATAB2	A(2ND TABLE ENTRY) - E.G. PDIR OR 0
(EC)	CHARACTER	1	XFRFORMN	THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS
	....		XFRTRAN1	"0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS
(EC)	SIGNED	0	XFRTRAN2	"2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS

Table 85. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(EC)	SIGNED	0	XFRTRAN3	"4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES
(EC)	SIGNED	0	XFRTRAN4	"6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES
(ED)	CHARACTER	2	XFRARCHD	USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE
(EF)	CHARACTER	1	XFRGROUP	THE GROUP IDENTIFIER FOR THE CURRENT REQUEST
(EF)	BITSTRING	0	XFRFCGRP	"X'06'" - THE CICS FC GROUP
(EF)	BITSTRING	0	XFRTDGRP	"X'08'" - THE CICS TD GROUP
(EF)	BITSTRING	0	XFRTSGRP	"X'0A'" - THE CICS TS GROUP
(EF)	BITSTRING	0	XFRICGRP	"X'10'" - THE CICS IC GROUP
(EF)	BITSTRING	0	XFRJCGRP	"X'14'" - THE CICS JC GROUP
(EF)	BITSTRING	0	XFRDLGRP	"X'40'" - THE DL/I GROUP
(F0)	CHARACTER	1	XFRFUNCT	THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST
(F1)	CHARACTER	1	XFRFLAGS	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(F1)	BITSTRING	0	XFREILST	"X'80'" THE ARGUMENT LIST COMES FROM OR GOES TO EIP
(F1)	BITSTRING	0	XFRDLLST	"X'40'" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I
(F1)	BITSTRING	0	XFRDLCNT	"X'20'" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS

Table 85. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F1)	BITSTRING	0	XFRDLPLI	"X'10'" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS
(F1)	BITSTRING	0	XFRATHDR	"X'08'" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA
(F1)	BITSTRING	0	XFRLNGRN	"X'04'" THE MIRROR TASK NEEDS TO BE LONG RUNNING
(F1)	BITSTRING	0	XFRNRPLY	"X'02'" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED
(F1)	BITSTRING	0	XFRPRTCT	"X'01'" THE REQUEST IS TO BE SHIPPED PROTECTED
(F2)	CHARACTER	1	XFRFLAG1	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(F2)	BITSTRING	0	XFRLCLQ	"X'80'" THE REQUEST MAY BE QUEUED BEFORE SHIPPING
(F2)	BITSTRING	0	XFRFCTK	"X'40'" FC Token can be shipped
(F2)	BITSTRING	0	XFRFCRQ	"X'20'" Shipped FC request
(F2)	BITSTRING	0	XFRTMERR	"X'10'" Terminal error in xformer layer
(F2)	BITSTRING	0	XFRESCAP	"X'02'" Escape sequence preceding 4-byte legths may be found
(F2)	BITSTRING	0	XFRCHANL	"X'01'" This is a CHANNEL request
(F3)	CHARACTER	1	XFRFLAG2	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(F3)	BITSTRING	0	XFRHAENT	"X'80'" DFHMIRVM has handled an abend; the abend code is to be found in the TACB

Table 85. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F3)	BITSTRING	0	XFRLENFD	"X'40'" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally
(F3)	BITSTRING	0	XFRCHNSP	"X'20'" Other end of MRO link supports channels
(F3)	BITSTRING	0	XFRICRX	"X'10'" Other end of MRO link supports ICRXs
(F4)	CHARACTER	1	XFRFLAG3	PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED
(F5)	CHARACTER	2	XFRCODES (0)	FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER
(F5)	CHARACTER	1	XFRCODE1	THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS
(F5)	SIGNED	0	XFR1TO4	"4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4
(F5)	SIGNED	0	XFR1TOC	"8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I
(F5)	SIGNED	0	XFR1XLNF	"2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS
(F5)	SIGNED	0	XFRLNKUN	"219" RESUNAVAIL condition raised in remote region
(F5)	SIGNED	0	XFRLNKAP	"30" Allocate request in ISP has been purged

Table 85. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F5)	SIGNED	0	XFRLNKAR	"28" Allocate request in ISP has been rejected
(F5)	SIGNED	0	XFRLNKNI	"26" no sessions immediately available for allocate request
(F5)	SIGNED	0	XFRLNKPF	"24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING
(F5)	SIGNED	0	XFRLNKSV	"22" TRANSID invalid, we are already in session with a different mirror transaction.
(F5)	SIGNED	0	XFRDWNLV	"21" The remote system does not support a keyword on this request
(F5)	SIGNED	0	XFRLNKGP	"20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID
(F5)	SIGNED	0	XFRLNKSP	"18" SYNCONRETURN invalid, we are already in session with a mirror
(F5)	SIGNED	0	XFRLNKLQ	"16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT
(F5)	SIGNED	0	XFRLNKAB	"14" xform 4 has processed ABCODE data
(F5)	SIGNED	0	XFRLNKNA	"12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE
(F5)	SIGNED	0	XFRLNKSF	"10" CONVERSE in DFHISP has failed
(F5)	SIGNED	0	XFRLNKCP	"9" Special for CPSM only equ of XFRLNKSH.

Table 85. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F5)	SIGNED	0	XFRLNKSH	"8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE
(F5)	SIGNED	0	XFRLNKNS	"6" Type of request (either LINK or START CHANNEL) is not supported over LU6.1 connections
(F5)	SIGNED	0	XFRLNKSY	"4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE
(F6)	CHARACTER	1	XFRCODE2	THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS
(F6)	SIGNED	0	XFR2TO3	"4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3
(F6)	SIGNED	0	XFRNEGR	"8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT
(F7)	CHARACTER	1	XFRABCDE	ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM
(F8)	ADDRESS	4	XFRRESR9	resumption base for DL/I function shipping
(FC)	ADDRESS	4	XFRRESRE	resumption address for DL/I function shipping
(100)	ADDRESS	4	XFRBEGOP	address of Arg0 options bytes
(104)	FULLWORD	4	XFRARGS (0)	ORIGIN FOR ARGUMENTS
(104)		0	XFRLNGTH	"*-XFRSTART"

Table 85. (continued)

Offset Hex	Type	Len	Name (dim)	Description
TRANSFORMER'S RESOURCE TABLE				
(108)	DBL WORD	8	DRXSTRT (0)	START OF DFHDRX
(108)	FULLWORD	4	DRXSSASZ	MAX SSA SIZE AS PERCEIVED BY THIS SYSTEM
(10C)	CHARACTER	8	DRXRPSB	NAME OF PSB TO BE USED ON REMOTE SYSTEM
(114)	ADDRESS	4	DRXPCBAL	A(LOCAL PCB ADDRESS LIST) THIS FIELD IS SET BY XFR4 DURING SCHEDULE CALL AND IS USED DURING DB CALLS
(118)	ADDRESS	4	DRXCHAIN	CHAIN OF STORAGE SEGMENTS OBTAINED BY TRANSFORMER 4
(11C)	ADDRESS	4	DRXIOAWK	A(READ SET BUFFER); BEFORE DRXBUFAL SET ON CONTAINS LENGTH FOR BUFFER
(120)	HALFWORD	2	DRXINDEX	THE PCB INDEX FOR THE CURRENT DATABASE CALL
(122)	BITSTRING	1	DRXISC	ISC FLAGS
(122)	BITSTRING	0	DRXPCBM	"X'80'" PRESENT TO RETAIN SDB - DL/I SIMILARITY
(122)	BITSTRING	0	DRXBUFAL	"X'40'" READ-SET BUFFER HAS BEEN ALLOCATED; THE ADDRESS IS IN DRXIOAWK
(122)	BITSTRING	0	DRXCHKP	"X'20'" PCB SCHED. ISSUED DURING CHKP CALL; XFR4 SHOULD USE STG FOR OLD PCBS AND LIST
(123)	BITSTRING	1	DRXISCO	ISC OUTBOUND FLAGS
(123)	BITSTRING	0	DRXSYNC	"X'80'" PRESENT TO RETAIN SDB - DL/I SIMILARITY

Table 85. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(123)	BITSTRING	0	DRXHLPI	"X'40'" HLPI COMMAND WITH SSA AND I/O LENGTHS GIVEN
(124)	BITSTRING	1	DRXISCI	ISC INBOUND FLAGS
(124)	BITSTRING	0	DRXFUNC	"X'80'" FUNCTION STRING INVALID
(124)	BITSTRING	0	DRXCALL	"X'40'" USER CALL PARM LIST INVALID
(124)	BITSTRING	0	DRXLNKNA	"X'20'" LINK DOES NOT EXIST
(124)	BITSTRING	0	DRXLNKSH	"X'10'" LINK IS OUT OF SERVICE
(124)	BITSTRING	0	DRXNOSTT	"X'08'" PRESENT TO RETAIN SDB - DL/I SIMILARITY
(125)	BITSTRING	1	DRXFCTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCAFCTR (SET BY XFR4)
(126)	BITSTRING	1	DRXDLTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCADLTR (SET BY XFR4)
(127)	BITSTRING	1	DRXLANG	LANGUAGE TYPE, USED BY XFR1 ON SCHEDULE CALL. IF PL/I THEN LEVEL OF INDIRECTION ADDED TO PCB LIST
(127)	CHARACTER	0	DRXASM	"C'A'" ASSEMBLER
(127)	CHARACTER	0	DRXCOB	"C'C'" COBOL
(127)	CHARACTER	0	DRXPLI	"C'P'" PL/I
(128)	BITSTRING	1	DRXFLG1	FLAG BYTE
(128)	BITSTRING	0	DRXCMPT	"X'80'" COMPAT OPTION USED (HENCE A DUMMY PCB MUST BE ADDED TO LIST, AND TAKEN ACCOUNT OF IN DB CALL)
(128)	BITSTRING	0	DRXSPIE	"X'40'" TELL SPIE THAT IF PGM CHECK OCCURS, THEN INVOKE RETRY

Table 85. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(128)	BITSTRING	0	DRXDPCB	"X'20'" THE DUMMY PCB HAS YET TO BE CREATED BY TRANSFORMER 4
(12C)	FULLWORD	4	DRXRETAD	ADDRESS OF POINT IN TRANSFORMER TO WHICH RETRY ROUTINE SHOULD RETURN
(130)	FULLWORD	4	DRXIOLEN	I/O AREA LENGTH FOR HLPI COMMAND - VALID IF DRXHLPI IS SET
(134)	CHARACTER	1	DRXATPN	TYPE LAST ATTACH HEADER LAST SENT. THERE IS PROBABLY A BETTER PLACE TO HOLD THIS. ONLINE THE INFO IS HELD IN THE TCTTE
(135)	CHARACTER	6	DRXRCODE (0)	RETURN CODE FROM AN EXEC CICS REQUEST
(135)	CHARACTER	1	DRXRCDE1	RESPONSE CODE
(136)	CHARACTER	1	DRXRCDE2	RESERVED
(137)	CHARACTER	1	DRXRCDE3	RESERVED
(138)	CHARACTER	1	DRXRCDE4	RESERVED
(139)	CHARACTER	1	DRXRCDE5	RESERVED
(13A)	CHARACTER	1	DRXRCDE6	RESERVED
(13A)		0	DRXLEN	"*-DRXSTRT" LENGTH OF DFHDRX
(13C)	ADDRESS	4	RSBEXPRM	ADDR OF EDP'S DBLWD FOR LOCATE MODE RETRIEVAL
(13C)		0	RSBLEN	"*-RSBSTART" LENGTH OF RSB

DBU DBCTL unsolicited statistics

```
CONTROL BLOCK NAME = DFHDBUDS
DESCRIPTIVE NAME  = CICS DBCTL Unsolicited Statistics
   @BANNER_START 02
                         DFHDBUDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = This DSECT describes the DBCTL unsolicited statistics
```

```
                        This copybook maps DBCTL unsolicited statistics. The
                        storage area is built at the end of each DBCTL session.
                        The copybook is used by DFHSTUP and user programs
                        requiring access to DBCTL statistics data.
                        For Local DL/I statistics see DFHA18DS.
          LIFETIME = Duration of the domain call to statistics domain
          LOCATION = Caller is passed a pointer to the head of the block.
          INNER CONTROL BLOCKS = None
          NOTES :
             DEPENDENCIES = S/370
             RESTRICTIONS = none
             MODULE TYPE = Control block definition
         -------------------------------------------------------------------
          EXTERNAL REFERENCES = None
             DATA AREAS = None
             CONTROL BLOCKS = In DBCTL
             GLOBAL VARIABLES (Macro pass) = None
         -------------------------------------------------------------------
                                              and STADTIME to 'local STCK'
```

Table 86.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHDBUDS	DBCTL USS
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	DBULEN	Length of data area
(0)	SIGNED	0	DBUIDE	"28" DBCTL USS id mask
(2)	ADDRESS	2	DBUID	DBCTL USS stats id
(2)	BITSTRING	0	DBUVERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	DBUDVERS	DBCTL USS version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	STATSENO	CICS-DBCTL session No
(C)	CHARACTER	4	STATDBID	DBCTL id
(10)	CHARACTER	8	STARSEN	RSE name
(18)	BITSTRING	8	STACTIME	Connect time (GMT STCK)
(20)	BITSTRING	8	STADTIME	Disconnect time (GMT STCK)
(28)	HALFWORD	2	STAMITHD	Minimum number of threads
(2A)	HALFWORD	2	STAMATHD	Maximum number of threads
(2C)	FULLWORD	4	STANOMITHD	No. of times min threads hit
(30)	FULLWORD	4	STANOMATHD	No. of times max threads hit
(34)	BITSTRING	8	STAELMAX	Elapsed time at max threads
(3C)	FULLWORD	4	STAHIWAT	Hi-water for No. of threads

Table 86. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	FULLWORD	4	STAPSBSU	Total No. successful PSB schedules
(44)	BITSTRING	8	STALCTIM	Connect Time (Local STCK)
(4C)	BITSTRING	8	STALDTIM	Disconnect Time (Local STCK)
(4C)		0	DBUEND	"*" End of DSECT
(4C)		0	DBUCLEN	"*-DBULEN" Length of DSECT

DCR Transaction dump record formats

```
CONTROL BLOCK NAME = DFHDCRPS
DESCRIPTIVE NAME  = CICS Transaction Dump Record Formats
 @BANNER_START 02
                        DFHDCRPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
 FUNCTION = Contains the structures for transaction dump
            records
----------------------------------------------------------------
                          : SPECIFIED_RMODE/AMODE.
               DUMP DATASET RECORD
      THIS DSECT DESCRIBES THE FORMAT OF THE DIFFERENT
      TYPES OF RECORDS WRITTEN TO THE DUMP DATASET FOR
      TRANSACTION DUMPS. IT IS USED BY DU DOMAIN TO
      CREATE RECORDS AND BY DFHDUxxx TO READ THEM.
----------------------------------------------------------------
                    BLOCK FORMAT
```

Table 87.

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

STANDARD RECORD HEADING

Table 88.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	RECORD_HEADER	
(0)	UNSIGNED	2	DCRECLEN	RECORD LENGTH
(2)	UNSIGNED	2	*	PADDING INIT(0)
(4)	BIT(8)	1	DCIRTSI	RECORD TYPE
(5)	BIT(8)	1	DCIND1	EXCESS LENGTH INDICATOR
	111.		*	SPARE

Table 88. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		DCLAST	
	.... 1...		DCRESTRT	
	.... .1..		DCDUPLS	
	.... ..1.		DCCONTN	
	1		DCOVRLN	
(6)	BIT(8)	1	DCIND2	ERROR INDICATOR
	1...		DCBADSEG	
	.1..		DCMVFAIL	
	..1.		*	SPARE
	...1		DCBADCHN	
	.... 1...		DCPGMCHK	
	.... .1..		DCNCICIC	
	.... ..1.		DCNONCIC	
	1		DCBADSAA	
(7)	BIT(8)	1	DCSPACE	SPACING CONTROL
(8)	CHARACTER	0	DCDATST	START OF TYPE SPECIFIC DATA

STORAGE AREA RECORD

Table 89.

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

DUMP HEADER RECORD

Table 90.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	DUMP_HEADER_ RECORD	
(0)	CHARACTER	8	DCIDRC	INIT('IDRECORD')
(8)	CHARACTER	4	DCTASKID	TASK ID FROM PCTTI
(C)	CHARACTER	4	DCDUMPC	DUMP CODE FROM TCADCDC
(10)	CHARACTER	9	DCDUMPST	DUMP ID

Table 90. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(19)	CHARACTER	6	DCTIME	TIME OF DAY (HHMMSS)
(1F)	BIT(8)	1	DCDATFM	FULL DATE FORMAT
(20)	CHARACTER	8	DCDATE	DATE
(28)	CHARACTER	8	DCAPPLID	SYSTEM APPLID

TRACE TABLE HEADER RECORD

Table 91.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	TRACE_TABLE_ HEADER	
(0)	CHARACTER	32	DCTHDR	TRACE HEADER
(20)	FULLWORD	4	DCHDRA	TRACE HEADER ADDRESS

LINE SEGMENT OR ERROR MESSAGE RECORD

Table 92.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	132	LINE_SEG	
(0)	CHARACTER	132	DCLINE	

LIFO INTERPRETATION RECORD

Table 93.

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

PSW RECORD

Table 94.

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

CONTROL BLOCK INDEX ITEM RECORD

Table 95.

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

MODULE INDEX ITEM RECORD

Table 96.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	30	MODULE_INDEX	
(0)	CHARACTER	8	PROGRAM_NAME	
(8)	FULLWORD	4	PROGRAM_LENGTH	
(C)	ADDRESS	4	ENTRY_POINT	
(10)	ADDRESS	4	LOAD_POINT	
(14)	FULLWORD	4	INSTANCE_ USE_COUNT	
THE VALUES OF THE FOLLOWING FIELDS ARE DEFINED IN THE STRUCTURE 'DFHLDLDA'.				
(18)	CHARACTER	1	PROGRAM_TYPE	
(19)	CHARACTER	1	PROGRAM_USAGE	
(1A)	CHARACTER	1	PROGRAM_ ATTRIBUTE	
(1B)	CHARACTER	1	SPECIFIED_AMODE	
(1C)	CHARACTER	1	SPECIFIED_RMODE	
(1D)	CHARACTER	1	LOCATION	

Interupt PSW & registers

Table 97.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	80	INT_DATA	
(0)	CHARACTER	8	INT_PSW (4294967298:130384792)	INTERRUPT PSW
(10)	CHARACTER	64	INT_REGS	REGISTERS AT TIME OF INTERUPT

```
-----------------------------------------------------------
           SIZE OF SUCCESSFUL GETMAIN FOR TRACE TABLE
-----------------------------------------------------------
```

Table 98.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	13	GMAIN_DATA	
(0)	FULLWORD	4	TDTR_SIZE_GMAIN	ALLOCATED STORAGE
(4)	FULLWORD	4	TDTR_SIZE_DUA	RQUESTED SIZE
(8)	FULLWORD	4	TDTR_SIZE_INT	INTERNAL TR TAB SZ
(C)	CHARACTER	1	TDTR_TYPE	SELECTION TYPE

Constants

Table 99.

Len	Type	value	Name	Description
EQUATES FOR VALUE OF RECORD IDENTIFIER FIELD (DCIRTSI)				
1	HEX	01	DCSSIC	SEGMENT STORAGE
1	HEX	03	DCCSAIC	CSA STORAGE
1	HEX	05	DCTCUA	TCTTE USER AREA
1	HEX	08	DCTERMIC	TERMINAL STORAGE
1	HEX	09	DCFCADIC	FCA DEST. CONTROL TABLE
1	HEX	0A	DCFCATIC	FCA TERMINAL CONTROL TABLE
1	HEX	0B	DCPCTIC	PROGRAM CONTROL TABLE
1	HEX	0C	DCPPTIC	PROCESSING PROGRAM TABLE
1	HEX	0D	DCFCTIC	FILE CONTROL TABLE
1	HEX	0E	DCDCTIC	DESTINATION CONTROL TABLE
1	HEX	0F	DCTCTIC	TERMINAL CONTROL TABLE
1	HEX	10	DCDTIC	JULIAN DATE & TIME OF DAY
1	HEX	12	DCCOMIC	COMMUNICATION AREA
1	HEX	13	DCTCLUC	TCTTE LUC EXTENSION
1	HEX	14	DCTCLCSB	TCTTE LUC SEND BUFFER
1	HEX	15	DCTCLCRB	TCTTE LUC RECEIVE BUFFER
1	HEX	16	DCTCBMEX	TCTTE BMS EXTENSION
1	HEX	17	DCTLRIC	TRANSACTION TRAILER RECORD

Table 99. (continued)

Len	Type	value	Name	Description
1	HEX	18	DCPROGAB	PROG.CHECK ASSOCIATED STG.
1	HEX	19	DCTU24IC	USER24 SUBPOOL STORAGE
1	HEX	1A	DCTC31IC	CICS31 SUBPOOL STORAGE
1	HEX	1B	DCTCAPP	INT PSW & REGS 0 - 15
1	HEX	1C	DCDBLIC	DYNAMIC LOG STORAGE
1	HEX	1D	DCTC24IC	CICS24 SUBPOOL STORAGE
1	HEX	1E	DCTU31IC	USER31 SUBPOOL STORAGE
1	HEX	20	DCPROGIC	PROGRAM STORAGE
1	HEX	21	DCMCBIC	MESSAGE CONTROL BLOCK
1	HEX	23	DCSITIC	SYSTEM INITIALIZATION TABLE
1	HEX	24	DCOPFLIC	CSA OPTIONAL FEATURES LIST
1	HEX	25	DCRSAIC	RSA STORAGE
1	HEX	26	DCLIFOIC	LIFO STORAGE
1	HEX	27	DCPCBIC	DL/I PCB
1	HEX	28	DCISBIC	DL/I ISB
1	HEX	29	DCPSTIC	DL/I PST
1	HEX	2A	DCSCDIC	DL/I SCD
1	HEX	2B	DCDGB	DL/I DGB
1	HEX	2C	DCDGBCT	DL/I DGB
1	HEX	2D	DCDSB	DL/I DSB
1	HEX	2E	DCDSBRESP	DL/I DSB RESPONSE
1	HEX	2F	DCUIB	DL/I USER RESPONSE CODES
1	HEX	30	DCTIE	Task Interface Element
1	HEX	32	DCUEPAR	UEPAR Plist for TRUE
1	HEX	3C	DCPSNTIC	PSEUDO SIGN-ON TABLE ENTRY
1	HEX	41	DCFDHDR	FORMATTED DUMP HEADER
1	HEX	42	DCFDSUP	SUPERVISOR DUMP

Table 99. (continued)

Len	Type	value	Name	Description
1	HEX	43	DCFDPTN	PARTITION DUMP
1	HEX	44	DCFDPSW	PSW
1	HEX	45	DCFDREGS	REGISTERS
1	HEX	46	DCFDLINE	LINE SEGMENT
1	HEX	47	DCFDHEX	HEXADECIMAL
1	HEX	48	DCFDERR	ERROR MESSAGE
1	HEX	49	DCFDCIND	CONTROL BLOCK INDEX
1	HEX	4A	DCFDMIND	MODULE INDEX
1	HEX	4B	DCFDDSA	DYNAMIC STORAGE AREA
1	HEX	7F	DCFDTLR	FORMATTED DUMP TRAILER
1	HEX	4C	DCTRHEAD	TRACE HEADER REC
1	HEX	4D	DCTRREC	TRACE RECORD
1	HEX	4E	DCTRTAIL	TRACE TRAILER REC
1	HEX	FF	DCLRIC	END OF DUMP DATA SET
EQUATE VALUES OF FULL DATE FORMAT FIELD (DCDATFM)				
1	DECIMAL	1	DC_YYYYMMDD	
1	DECIMAL	2	DC_DDMMYYYY	
1	DECIMAL	3	DC_MMDDYYYY	

DCT Destination control table

Table 100.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	120	TDDCTCMN	
(0)	CHARACTER	8	TDDCT_PREFIX	Prefix
(8)	CHARACTER	4	TDDCTDID	Identification
(C)	BIT(8)	1	TDDCTDT	Attributes
	1...		TDINDTBM	- intrapartition (I/P)
	.1..		TDEXTRBM	- extrapartition (E/P)
	..1.		TDINDBM	- indirect
	...1		TDRMTBM	- remote
	.... 1...		TDTIBM	- (I/P) - task triggered
	.... .1..		*	Reserved
	.... ..1.		TDNOTRM	- (I/P) - DESTFAC=FILE

Table 100. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		TDSYSTM	- (I/P) - DESTFAC=SYSTEM
(D)	UNSIGNED	1	*	- Reserved
(E)	HALFWORD	2	TDDCTELN	Entry length
(10)	CHARACTER	12	TDDCT_COMMON_STATS	
(10)	FULLWORD	4	TDDCT_WRITES	Number of writes
(14)	FULLWORD	4	TDDCT_READS	Number of reads
(18)	FULLWORD	4	TDDCT_DELETES	Number of deletes
(1C)	CHARACTER	4	TDDCT_TXN_NUMBER	Owning transaction number
(20)	CHARACTER	20	*	Associated queue
(20)	CHARACTER	4	TDDCTSYS	- N(remote system)
(24)	CHARACTER	4	TDDCTRID	- N(remote queue)
(28)	CHARACTER	8	TDRDOGRP	- RDO group identifier
(30)	HALFWORD	2	TDDCTRLN	- Default data length
(32)	HALFWORD	2	*	- Reserved
(34)	BIT(8)	1	TDTDSFL0	Type independent status
	1...		TDDCT_ENABLED	- Enabled
	.1..		TDDCT_DISABLING	- Disabling
	..1.		TDDCT_DISABLED	- Disabled
	...1		TDTRIGRM	- msg has been put out to warn that Trig Tranid=Remote
	.... 1...		TDATFAIL	- msg has been put out to warn of Tran Attach Fail
	.... .1..		TDSCHFAI	- msg has been put out to warn of Tran Schedule Fail
	.... ..1.		TDUSFAIL	- msg has been put out to warn of US call failure
	1		*	- Reserved
(35)	BIT(8)	1	TDTDSFL1	Type dependent status - 1
(36)	BIT(8)	1	TDTDSFL2	Type dependent status - 2
(37)	BIT(8)	1	TDTDSFL3	Type dependent status - 3
(38)	OBJECT	64	TDDCT_RES_SIG	Audit signature
(38)	CHARACTER	64	DFHAMSIG_INSTANCE	Audit signature

Table 100. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	STRUCTURE IsA(DFHAMSIG_DEFINE_SIGNATURE)	38	DEFINE_ SIGNATURE	Audit signature
(38)	CHARACTER	8	DEFINE_SOURCE	GROUP resource installed from
(40)	CHARACTER	8	DEFINE_TIME	Time resource defined
(48)	CHARACTER	8	CHANGE_TIME	Change/create time
(50)	CHARACTER	8	CHANGE_USERID	Change userid
(58)	UNSIGNED	2	CHANGE_AGENT	Change agent
(5A)	CHARACTER	4	AGENT_LEVEL	CICS level of change agent
(5E)	STRUCTURE IsA(DFHAMSIG_INSTALL_SIGNATURE)	18	INSTALL_ SIGNATURE	
				Audit signature
(5E)	CHARACTER	8	INSTALL_TIME	Install/create time
(66)	CHARACTER	8	INSTALL_ USERID	Install userid
(6E)	UNSIGNED	2	INSTALL_AGENT	Install agent
(70)	CHARACTER	8	*	Audit signature
(78)	CHARACTER	0	*	

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

Table 101.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	128	TDDCTIND	
(0)	CHARACTER	8	*	Prefix
(8)	CHARACTER	4	*	Identification
(C)	BIT(8)	1	*	Attributes
(D)	UNSIGNED	1	*	Resource security level
(E)	HALFWORD	2	*	Entry length
(10)	CHARACTER	16	*	Common stats
(10)	FULLWORD	4	*	Statistics
(14)	FULLWORD	4	*	Statistics
(18)	FULLWORD	4	*	Statistics
(1C)	FULLWORD	4	*	Reserved
(20)	CHARACTER	20	*	Associated queue
(20)	CHARACTER	4	*	- N(remote system)
(24)	CHARACTER	4	*	- N(remote queue)
(28)	CHARACTER	8	*	- RDO group identifier
(30)	HALFWORD	2	*	- Default data length

Offset Hex	Type	Len	Name (dim)	Description
(32)	HALFWORD	2	*	- Reserved
(34)	BIT(8)	1	*	Type independent status
(35)	BIT(8)	1	*	Type dependent status - 1
(36)	BIT(8)	1	*	Type dependent status - 2
(37)	BIT(8)	1	*	Type dependent status - 3
(38)	OBJECT	64	*	Audit signature
(38)	CHARACTER	64	DFHAMSIG_ INSTANCE	Audit signature
(38)	STRUCTURE IsA(DFHAMSIG_DEFINE_SIGNATURE)	38	DEFINE_ SIGNATURE	Audit signature
(38)	CHARACTER	8	DEFINE_SOURCE	GROUP resource installed from
(40)	CHARACTER	8	DEFINE_TIME	Time resource defined
(48)	CHARACTER	8	CHANGE_TIME	Change/create time
(50)	CHARACTER	8	CHANGE_USERID	Change userid
(58)	UNSIGNED	2	CHANGE_AGENT	Change agent
(5A)	CHARACTER	4	AGENT_LEVEL	CICS level of change agent
(5E)	STRUCTURE IsA(DFHAMSIG_INSTALL_SIGNATURE)	18	INSTALL_ SIGNATURE	
				Audit signature
(5E)	CHARACTER	8	INSTALL_TIME	Install/create time
(66)	CHARACTER	8	INSTALL_ USERID	Install userid
(6E)	UNSIGNED	2	INSTALL_AGENT	Install agent
(70)	CHARACTER	8	*	Audit signature
(78)	CHARACTER	8	*	Associated queue
(78)	CHARACTER	4	TDDCTIDN	- N(indirect queue)
(7C)	ADDRESS	4	*	Reserved
(80)	CHARACTER	0	*	

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

Table 102.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	120	TDDCTREM	
(0)	CHARACTER	8	*	Prefix
(8)	CHARACTER	4	*	Identification
(C)	BIT(8)	1	*	Attributes

Table 102. (continued)

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

Table 102. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(78)	CHARACTER	0	*	

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

Table 103.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	200	TDDCTEXP	
(0)	CHARACTER	8	*	Prefix
(8)	CHARACTER	4	*	Identification
(C)	BIT(8)	1	*	Attributes
(D)	UNSIGNED	1	*	Resource security level
(E)	HALFWORD	2	*	Entry length
(10)	CHARACTER	16	*	Common stats
(10)	FULLWORD	4	*	Statistics
(14)	FULLWORD	4	*	Statistics
(18)	FULLWORD	4	*	Statistics
(1C)	FULLWORD	4	*	Reserved
(20)	CHARACTER	20	*	Associated queue
(20)	CHARACTER	4	*	- N(remote system)
(24)	CHARACTER	4	*	- N(remote queue)
(28)	CHARACTER	8	*	- RDO group identifier
(30)	HALFWORD	2	*	- Default data length
(32)	HALFWORD	2	*	- Reserved
(34)	BIT(8)	1	*	Type independent status
(35)	BIT(8)	1	TDEXSFL1	Type dependent status - 1
	1...		TDEXOPIN	- OPEN = INITIAL
	.111 1111		*	- Reserved
(36)	BIT(8)	1	TDEXSFL2	Type dependent status - 2
	1...		TDEXOPIP	- OPEN in progress
	.1..		TDEXOPEN	- OPEN
	..1.		TDEXCLIP	- CLOSE in progress
	...1		TDEXCLOS	- CLOSED
	.... 1...		TDEXFEIP	- FEOV in progress
	.... .1..		TDEXDA	- Dynamically Allocated
	.... ..1.		TDEXPA	- Pre-allocated

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		TDEXASYO	- Allocated to SYSOUT
(37)	BIT(8)	1	TDEXSFL3	Type dependent status - 3
	1...		TDEXNOSP	- NOSPACE raised
	.1..		TDEXQZER	- QZERO raised
	..1.		TDEXABND	- abend occured
	...1		TDEXIOER	- I/O error occured
	 1111		*	- Reserved
(38)	OBJECT	64	*	Audit signature
(38)	CHARACTER	64	DFHAMSIG_ INSTANCE	Audit signature
(38)	STRUCTURE IsA(DFHAMSIG_DEFINE_SIGNATURE)	38	DEFINE_ SIGNATURE	Audit signature
(38)	CHARACTER	8	DEFINE_SOURCE	GROUP resource installed from
(40)	CHARACTER	8	DEFINE_TIME	Time resource defined
(48)	CHARACTER	8	CHANGE_TIME	Change/create time
(50)	CHARACTER	8	CHANGE_USERID	Change userid
(58)	UNSIGNED	2	CHANGE_AGENT	Change agent
(5A)	CHARACTER	4	AGENT_LEVEL	CICS level of change agent
(5E)	STRUCTURE IsA(DFHAMSIG_INSTALL_SIGNATURE)	18	INSTALL_ SIGNATURE	
				Audit signature
(5E)	CHARACTER	8	INSTALL_TIME	Install/create time
(66)	CHARACTER	8	INSTALL_ USERID	Install userid
(6E)	UNSIGNED	2	INSTALL_AGENT	Install agent
(70)	CHARACTER	8	*	Audit signature
(78)	BIT(8)	1	TDEXDISP	Disposition
	1...		TDEXSHR	- SHR
	.1..		TDEXOLD	- OLD
	..1.		TDEXMOD	- MOD
	...1 1111		*	- reserved
(79)	BIT(8)	1	*	- reserved
(7A)	BIT(8)	1	*	- reserved
(7B)	CHARACTER	1	TD_EXTRA_ SYSOUT_CLASS	
				- Sysout Class
(7C)	CHARACTER	44	TDEXDSN	Data-set name
(A8)	CHARACTER	16	*	Associated SDSCI
(A8)	CHARACTER	8	TDEXNSDS	- N(real SDSCI)

Table 103. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	ADDRESS	4	TDEXASDS	- A(real SDSCI)
(B4)	ADDRESS	4	TDEXASDM	- A(model SDSCI)
(B8)	CHARACTER	8	*	Request processing chain
(B8)	FULLWORD	4	TD_EXTRA_ Q_OWNER	- Identify transaction the owner
(BC)	ADDRESS	4	TDEXAWCB	- A(first MWCB) or 0
(C0)	CHARACTER	8	TDEXMEMB	Member name if PDS
(C8)	CHARACTER	0	*	

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

Table 104.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	276	TDDCTINP	
(0)	CHARACTER	8	*	Prefix
(8)	CHARACTER	4	*	Identification
(C)	BIT(8)	1	*	Attributes
(D)	UNSIGNED	1	*	Resource security level
(E)	HALFWORD	2	*	Entry length
(10)	CHARACTER	16	*	Common stats
(10)	FULLWORD	4	*	Statistics
(14)	FULLWORD	4	*	Statistics
(18)	FULLWORD	4	*	Statistics
(1C)	FULLWORD	4	*	Reserved
(20)	CHARACTER	20	*	Associated queue
(20)	CHARACTER	4	*	- N(remote system)
(24)	CHARACTER	4	*	- N(remote queue)
(28)	CHARACTER	8	*	- RDO group identifier
(30)	HALFWORD	2	*	- Default data length
(32)	HALFWORD	2	*	- Reserved
(34)	BIT(8)	1	*	Type independent status
(35)	BIT(8)	1	TDINSFL1	Type dependent status - 1
	1...		TDDCTSPR	- physically recoverable
	.1..		TDDCTSLR	- logically recoverable
(36)	BIT(8)	1	*	Type dependent status - 2

Table 104. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(37)	BIT(8)	1	*	Type dependent status - 3
	1...		TDDCT_START_ RBA_REC	
				Start RBA recovered
	.1..		TDDCT_READ_ RBA_REC	
				Read RBA recovered
	..1.		TDDCT_WRITE_ RBA_REC	
				Write RBA recovered
	...1		TDDCT_NUMELEMS_ REC	
				Numelems recovered
	.... 1...		TDDCT_TDTIBM_ REC	TDTIBM recovered
	.... .111		*	Reserved
(38)	OBJECT	64	*	Audit signature
(38)	CHARACTER	64	DFHAMSIG_ INSTANCE	Audit signature
(38)	STRUCTURE IsA(DFHAMSIG_DEFINE_SIGNATURE)	38	DEFINE_ SIGNATURE	Audit signature
(38)	CHARACTER	8	DEFINE_SOURCE	GROUP resource installed from
(40)	CHARACTER	8	DEFINE_TIME	Time resource defined
(48)	CHARACTER	8	CHANGE_TIME	Change/create time
(50)	CHARACTER	8	CHANGE_USERID	Change userid
(58)	UNSIGNED	2	CHANGE_AGENT	Change agent
(5A)	CHARACTER	4	AGENT_LEVEL	CICS level of change agent
(5E)	STRUCTURE IsA(DFHAMSIG_INSTALL_SIGNATURE)	18	INSTALL_ SIGNATURE	
				Audit signature
(5E)	CHARACTER	8	INSTALL_TIME	Install/create time
(66)	CHARACTER	8	INSTALL_ USERID	Install userid
(6E)	UNSIGNED	2	INSTALL_AGENT	Install agent
(70)	CHARACTER	8	*	Audit signature
(78)	CHARACTER	20	*	
(78)	FULLWORD	4	TDDCTDQL	DEST TRIGGER LEVEL
(7C)	CHARACTER	4	TDDCTTID	TRANS ID FOR ATI
(80)	CHARACTER	4	TDDCTTED	TERM ID FOR ATI
(84)	ADDRESS	4	TDDCTAAD	A(AID FOR ATI)

Table 104. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	FULLWORD	4	TDDCT_NO_ TIMES_TRIGRD	
				#times triggered
(8C)	CHARACTER	8	*	
(8C)	FULLWORD	4	TDDCT_CURRENT_ CIS	CIs allocated to Q.
(90)	FULLWORD	4	TDDCT_PEAK_CIS	Peak CIs allocated to this Q.
(94)	CHARACTER	96	*	
(94)	CHARACTER	16	*	
(94)	FULLWORD	4	TDDCT_COMMITTED_ START_RBA	
(98)	FULLWORD	4	TDDCT_COMMITTED_ WRITE_RBA	
(9C)	FULLWORD	4	TDDCT_COMMITTED_ READ_RBA	
(A0)	FULLWORD	4	TDDCT_COMMITTED_ NUMELEMS	
(A4)	CHARACTER	16	*	
(A4)	ADDRESS	4	TDDCT_READ_ TDQUB_PTR	
				-> to TDQUB
(A8)	FULLWORD	4	*	Reserved
(AC)	CHARACTER	8	TDDCT_UOW_ OWNING_READ_NQ	
				Owning UOWID
(B4)	CHARACTER	16	*	
(B4)	ADDRESS	4	TDDCT_WRITE_ TDQUB_PTR	
				-> to TDQUB
(B8)	FULLWORD	4	*	Reserved
(BC)	CHARACTER	8	TDDCT_UOW_ OWNING_WRITE_NQ	
				Owning UOWID
(C4)	CHARACTER	33	*	
(C4)	CHARACTER	8	TDDCT_PR_ Q_LOG_STCK	
				Time PR Q log record written
(CC)	CHARACTER	8	TDDCT_PR_ START_RBA_ REC_STCK	
				Time start RBA recovered

Table 104. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(D4)	CHARACTER	8	TDDCT_PR_ READ_RBA_REC_STCK	
				Time read RBA recovered
(DC)	CHARACTER	8	TDDCT_PR_ WRITE_RBA_ REC_STCK	
				Time write RBA recovered
(E4)	BIT(8)	1	TDDCT_PR_ LOG_RECORD_TYPE	
				Record type
	1...		TDDCT_READQ	READQ
	.1..		TDDCT_WRITEQ	WRITEQ
	..1.		TDDCT_DELETEQ	DELETEQ
	...1		TDDCT_FIRST_ WRITEQ	
				First write
	 1111		*	Reserved
(E5)	CHARACTER	3	*	
(E5)	BIT(8)	1	TDDCT_FLAGS	Flag byte
	1...		*	Reserved
	.1..		TDDCT_UNCOMMIT_ DATA_WRITTEN	
				Uncommitted data written to queue
	..1.		TDDCT_Q_ INDOUBT	Q indoubt
	...1 1111		*	Reserved
(E6)	CHARACTER	2	*	Reserved
(E8)	ADDRESS	4	TDDCT_SUSPEND_ TOKEN	
				DSSR suspnd token
(EC)	CHARACTER	8	*	
(EC)	ADDRESS	4	TDDCTFCN	- A(FIRST MQCB)
(F0)	ADDRESS	4	TDDCTBCN	- A(LAST MQCB)
(F4)	CHARACTER	8	*	DCTE request chain
(F4)	FULLWORD	4	TD_INTRA_ Q_OWNER	- owning transaction identifier
(F8)	ADDRESS	4	TDINAWCB	- A(first MWCB) or 0
(FC)	FULLWORD	4	TDDCT_INTRA_ USE_COUNT	
				Use count
(100)	ADDRESS	4	*	Reserved

Table 104. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(104)	CHARACTER	4	*	
(104)	BIT(8)	1	TDDCT_INDOUBT	Indoubt option for LR Q's
	1...		TDDCT_REJECT	Reject
	.1..		TDDCT_HEURISTIC	Heuristic
	..1.		TDDCT_QUEUE	Queue
	...1 1111		*	Reserved
(105)	BIT(8)	1	*	Reserved Userid data for ..non-terminal ATI
(106)	BIT(8)	1	TDDCTFLC	Userid data status
	1...		TDDCTUOK	- TDDCTUOK is set for use
	.111 1111		*	- Reserved
(107)	UNSIGNED	1	TDDCTUIL	Length of userid - x'0' with default userid
(108)	CHARACTER	8	TDDCTUID	Userid - x'0' with default userid
(110)	UNSIGNED	4	TDDCTUTK	User token - x'0' with default userid
(114)	CHARACTER	0	*	

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

Table 105.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	140	DCTSDSPS	
(0)	CHARACTER	40	*	
(0)	FULLWORD	4	DCTSDSLN	length of SDSCI et al
(4)	ADDRESS	4	DCTSDSQP	A(owning DCTE) or 0
(8)	ADDRESS	4	DCTSDSRP	A(real SDSCI) or 0
(C)	CHARACTER	8	DCTSDSOC	OPEN/CLOSE words
(C)	UNSIGNED	1	DCTSDSOO	- open options
(D)	ADDRESS	3	*	- A(0)
(10)	ADDRESS	4	DCTSDSDA	- A(DCB)
(14)	BIT(8)	1	DCTSDRW	REWIND status
	1...		DCTSDSLE	- LEAVE
	.1..		DCTSDSRE	- REREAD
	..11 1111		*	- Reserved
(15)	BIT(8)	1	DCTSDTF	TYPEFLE status
	1...		DCTSDSOP	- OUTPUT
	.1..		DCTSDSIP	- INPUT
	..1.		DCTSDSRB	- RDBACK

Table 105. (continued)

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

Table 105. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	CHARACTER	96	DCTSDDCB	DCB DCB DDNAME=TRANDATA, DSORG=PS, MACRF=(GL,PL)
(8C)	CHARACTER	0	*	

Constants

Table 106.

Len	Type	value	Name	Description
8	CHARACTER	>TDQUEUE	TDQUEUE_PREFIX	

DHDDS Doctemplate Resource Statistics *LHA

```
CONTROL BLOCK NAME = DFHDHDDS
DESCRIPTIVE NAME  = CICS Doctemplate Resource Statistics
   @BANNER_START 02
                        DFHDHDDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This data area contains the doctemplate resource
      statistics provided by the Document Handler Domain.
      It is provided for use in users monitoring applications
      to map the statistics returned via the API or the
      statistics global user exit.
      There is a single instance of this data block.
LIFETIME =
      This data block is created by the Docuement Handler domain
      to store statistics to be passed to the user in response
      to a request for doctemplate statistics. The storage is
      released when the user task is detached.
      The DSECT also maps the contents of part of the SMF buffer
      created by the statistics domain and is used in the
      statistics exit.
STORAGE CLASS = Task
LOCATION = S/370
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 -----------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHDHDDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 107.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHDHDDS	Doctemplate Resid stats record
(0)	HALFWORD	2	DHDDS_LEN	Doctemplate stats record length

Table 107. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	ADDRESS	2	DHDDS_ID	Doctemplate stats id
(4)	CHARACTER	1	DHDDS_VERS	Doctemplate stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	DHD_DOCTEMPLATE_ NAME	
				Doctemplate name
(10)	BITSTRING	1	DHD_TEMPLATE_ TYPE	Doctemplate type
(11)	BITSTRING	1	DHD_APPEND_CRLF	Doctemplate append crlf
(12)	BITSTRING	1	DHD_TEMPLATE_ CONTENTS	
				Doctemplate contents
(13)	BITSTRING	1		Reserved
(14)	CHARACTER	48	DHD_TEMPLATE_ NAME	Doctemplate template name
(44)	BITSTRING	8		Reserved
(4C)	CHARACTER	8	DHD_TEMPLATE_ EXIT_PROGRAM	
				Template exit program name
(54)	CHARACTER	8	DHD_TEMPLATE_ FILE_NAME	
				Template file name
(5C)	CHARACTER	8	DHD_TEMPLATE_ PROGRAM_NAME	
				Template program name
(64)	CHARACTER	8	DHD_TEMPLATE_ PDS_MEMBER	
				Template PDS member
(6C)	BITSTRING	8		Reserved
(74)	CHARACTER	8	DHD_TEMPLATE_ PDS_DDNAME	
				Template PDS ddname
(7C)	CHARACTER	44	DHD_TEMPLATE_ PDS_DSNAME	
				Template PDS dsname
(A8)	BITSTRING	4		Reserved
(AC)	CHARACTER	4	DHD_TEMPLATE_ TDQUEUE_NAME	

Table 107. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Template tdqueue name
(B0)	CHARACTER	16	DHD_TEMPLATE_ TSQUEUE_NAME	
				Template tsqueue name
(C0)	BITSTRING	8		Reserved
(C8)	CHARACTER	255	DHD_TEMPLATE_ HFSFILE_NAME	
				Template hfsfile name
(1C7)	BITSTRING	1		Reserved
(1C8)	BITSTRING	4	DHD_TEMPLATE_ CACHE_SIZE	
				Template cache size
(1CC)	BITSTRING	4	DHD_TEMPLATE_ USE_COUNT	
				Template use count
(1D0)	BITSTRING	4	DHD_TEMPLATE_ NEWCOPIES	
				Template newcopy count
(1D4)	BITSTRING	4	DHD_TEMPLATE_ READ_COUNT	
				Template read count
(1D8)	BITSTRING	4	DHD_TEMPLATE_ CACHE_USED	
				Template cache copy used
(1DC)	BITSTRING	4	DHD_TEMPLATE_ CACHE_DELETED	
				Template cache deleted
(1E0)	BITSTRING	16		Reserved
(1F0)	CHARACTER	8	DHD_TEMPLATE_ DEFINE_SOURCE	
				Group installed from
(1F8)	BITSTRING	8	DHD_TEMPLATE_ CHANGE_TIME	
				Change/create time
(200)	CHARACTER	8	DHD_TEMPLATE_ CHANGE_USERID	
				Change userid
(208)	BITSTRING	2	DHD_TEMPLATE_ CHANGE_AGENT	
				Change agent

Table 107. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20A)	BITSTRING	2	DHD_TEMPLATE_ INSTALL_AGENT	
				Install agent
(20C)	BITSTRING	8	DHD_TEMPLATE_ INSTALL_TIME	
				Install/Create time
(214)	CHARACTER	8	DHD_TEMPLATE_ INSTALL_USERID	
				Install userid
(214)		0	DHDDS_END	"*"
(214)		0	DHDDS_LENGTH	"*-DHDDS_LEN" Doctemplate record length
Constants that denote a DH doctemplate stats record				
(214)	SIGNED	0	DHDIDR	"112" Doctemplate resid stats id
(214)	BITSTRING	0	DHD_VERS	"X'01'" Record version number
(214)	BITSTRING	0	DHD_TYPE_ EXIT_PROGRAM	
				"X'01'" Template Type - Exit Program
(214)	BITSTRING	0	DHD_TYPE_FILE	"X'02'" Template Type - File
(214)	BITSTRING	0	DHD_TYPE_ PDS_MEMBER	
				"X'03'" Template Type - PDS Member
(214)	BITSTRING	0	DHD_TYPE_PROGRAM	"X'04'" Template Type - Program
(214)	BITSTRING	0	DHD_TYPE_TDQUEUE	"X'05'" Template Type - Tdqueue
(214)	BITSTRING	0	DHD_TYPE_TSQUEUE	"X'06'" Template Type - Tsqueue
(214)	BITSTRING	0	DHD_TYPE_HFSFILE	"X'07'" Template Type - Hfsfile
(214)	BITSTRING	0	DHD_APPEND_ CRLF_NO	"X'01'" Append crlf - No
(214)	BITSTRING	0	DHD_APPEND_ CRLF_YES	
				"X'02'" Append crlf - Yes
(214)	BITSTRING	0	DHD_CONTENTS_ BINARY	
				"X'01'" Doctemplate Contents - Binary

Table 107. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(214)	BITSTRING	0	DHD_CONTENTS_ EBCDIC	
				"X'02'" Doctemplate Contents - Ebcdic Change Agents
(214)	SIGNED	0	DHD_CSDAPI_ CHANGE	"0001" CSD API
(214)	SIGNED	0	DHD_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(214)	SIGNED	0	DHD_DREPAPI_ CHANGE	"0003" DREP API
(214)	SIGNED	0	DHD_CREATE_ CHANGE	"0004" EXEC CREATE SPI
(214)	SIGNED	0	DHD_DYNAMIC_ CHANGE	"0008" DYNAMIC Install Agents
(214)	SIGNED	0	DHD_CSDAPI_ INSTALL	"0001" CSD API
(214)	SIGNED	0	DHD_CREATE_ INSTALL	"0004" EXEC CREATE SPI
(214)	SIGNED	0	DHD_GRPLIST_ INSTALL	
				"0005" GRPLIST
(214)	SIGNED	0	DHD_DYNAMIC_ INSTALL	
				"0008" DYNAMIC

DHTX Document Handler Template EXITPGM interface

```
!:refstep.dfhdhtx_copy ------------------------------- DFHDHTM 940 -
!
!
! DFHDHTX COPY
!
! This copybook contains the interface definition for the
! user-replaceable program specified in an EXITPGM type of template.
!
! The following input parameters are passed to the user program in a
! standard CICS commarea:
!
! dhtx_length
! The halfword binary length of the entire parameter list.
! dhtx_eyecatcher
! A 13-character eyecatcher, set to '>DFHDHTXPARMS'.
! dhtx_version
! A one-byte character version number of the parameter list,
! currently set to '0'.
! dhtx_buffer_ptr
! The address of a CICS-provided buffer in which the EXITPGM must
! return the data that is to become the template.
! dhtx_buffer_len
! The fullword binary length of the buffer addressed by
! dhtx_buffer_ptr .
```

```
!  dhtx_template_name_ptr
!  The address of the 48-character name of the template for which
!  this EXITPGM is being executed.
!  dhtx_append_crlf
!  A one-byte character field that indicates whether the APPENDCRLF
!  option was specified for this template. It is set to '1' if the
!  option was specified, and to '0' otherwise.
!
!  The following output parameters must be set by the EXITPGM:
!
!  dhtx_template_len
!  The fullword binary length of the template being returned in the
!  buffer addressed by dhtx_buffer_ptr . This value should be the
!  size actually required for the template, even if it exceeds
!  dhtx_buffer_len (although the data moved into the buffer must
!  not exceed that length). If dhtx_template_len exceeds
!  dhtx_buffer_len , the EXITPGM will be re-driven with a larger
!  buffer.
!  dhtx_return_code
!  A fullword binary return code that indicates whether the EXITPGM
!  was successful. It should be one of:
!
!  0 Indicates successful completion. A valid template, or a
!  template truncated to fit the supplied buffer, has been
!  returned.
!  8 Indicates failure. No valid template has been returned.
!
!  dhtx_cache_response
!  Optionally, a one-byte character field that indicates whether
!  CICS should save the returned template in its cache storage. It
!  should be set to '1' if the contents returned are the same each
!  time the exit is called, but should be left as '0' if the
!  contents may be different each time. If the value is set to '1',
!  the exit should not be called again unless a SET DOCTEMPLATE
!  NEWCOPY is performed. (In practice, the exit may be called three
!  times, first to set this flag, second to obtain the size of
!  cache buffer to use, and finally to save the result into the
!  cache buffer.)
!  dhtx_message_ptr
!  Optionally, the address of a message that explains why the
!  EXITPGM was unsuccessful. CICS writes this message to the CSDH
!  transient data destination.
!  dhtx_message_len
!  The fullword binary length of the message addressed by
!  dhtx_message_ptr , if one is provided.
!
!-------------------------------------------------------------------
```

Table 108.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	DHTX_PLIST	Template EXITPGM plist
(0)	CHARACTER	16	DHTX_PREFIX	Parameter list prefix
(0)	HALFWORD	2	DHTX_LENGTH	Length of parameter list
(2)	CHARACTER	13	DHTX_EYECATCHER	>DFHDHTXPARMS eyecatcher
(F)	CHARACTER	1	DHTX_VERSION	Version number of plist
(10)	ADDRESS	4	DHTX_BUFFER_PTR	Template buffer address

Table 108. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	FULLWORD	4	DHTX_BUFFER_LEN	Template buffer length
(18)	FULLWORD	4	DHTX_TEMPLATE_ LEN	Actual length of template
(1C)	FULLWORD	4	DHTX_RETURN_CODE	Return code
(20)	ADDRESS	4	DHTX_TEMPLATE_ NAME_PTR	
				Ptr to 48-char name
(24)	CHARACTER	4	DHTX_TEMPLATE_ FLAGS	
				Template flags
(24)	CHARACTER	1	DHTX_APPEND_ CRLF	'1' Append. '0' Don't.
(25)	CHARACTER	1	DHTX_CACHE_ RESPONSE	
				'1' Save in CICS's cache
(28)	ADDRESS	4	DHTX_MESSAGE_PTR	Message pointer
(2C)	FULLWORD	4	DHTX_MESSAGE_LEN	Message length

DIB Data interchange block

```
MODULE NAME = DFHDIBDS
DESCRIPTIVE NAME  = CICS Data Interchange Block
  @BANNER_START 02
                    DFHDIBDS
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = Maintain the status of a data interchange session.
          The DIB is chained off the TCTTE. It is acquired
          by the first DIP request in a transaction, and is
          freed at transaction termination.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 REGISTER CONVENTIONS = Not applicable
 PATCH LABEL = None
 MODULE TYPE = MACRO DEFINING A DSECT
 MODULE SIZE = Not applicable
 ATTRIBUTES = Not applicable
ENTRY POINT = Not applicable
 PURPOSE = Not applicable
 LINKAGE = Not applicable
INPUT = Not applicable
OUTPUT = Not applicable
EXIT-NORMAL = Not applicable
EXIT-ERROR = Not applicable
EXTERNAL REFERENCES = None
 CONTROL BLOCKS = Defines DIB Control Block
 TABLES = None
 MACROS = None
```

Table 109.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHDIBDS	
(0)	HALFWORD	2	DIBSCFGS	STORAGE ACCOUNTING AREA
(2)	HALFWORD	2	DIBSCNTL	STORAGE LENGTH
(4)	HALFWORD	2	DIBTSLGN	LENGTH TO OUTPUT FOR TS
(6)	HALFWORD	2	DIBTSRES	TS RESERVED= ZERO
(8)	FULLWORD	4	DIBSENSE (0)	Sense code areas
(8)	HALFWORD	2	DIBSSI	SYSTEM SENSE AREA
(A)	HALFWORD	2	DIBUSI	USER SENSE AREA
(C)	FULLWORD	4	DIBDIRRD	ACTUAL RETURNED RECORD ID

NOTE THAT THESE FLAGS ARE SET IN COMBINATION:
        DIBIFDSO + DIBIFDSS = 00 NOT ACTIVE NOT SUSPENDED
                            = 10 ACTIVE NOT SUSPENDED
                            = 11 ACTIVE BUT SUSPENDED
                            (01 NEVER SET CODE RELIES ON
                               THIS)				

(10)	BITSTRING	1	DIBIFSEL	SELECTION FLAGS
(10)	BITSTRING	0	DIBIFDSO	"X'80'" OUTBOARD SELECTED
(10)	BITSTRING	0	DIBIFDSS	"X'20'" DSN SUSPENDED
(10)	BITSTRING	0	DIBIFDAO	"X'10'" OUTBOARD ABORTED(NOT REQ)
(10)	BITSTRING	0	DIBIFDSI	"X'08'" INBOUND SELECTED
(10)	BITSTRING	0	DIBIFDIN	"X'04'" SOME INPUT DONE
(10)	BITSTRING	0	DIBIFDIS	"X'02'" INPUT SUSPENDED
(10)	BITSTRING	0	DIBIFDAI	"X'01'" INBOARD ABORTED(NOT REQ)
(11)	BITSTRING	1	DIBIFOSL	OLD SELECT
(12)	BITSTRING	1	DIBIFOSP	OLD PROFILE SAME FLAGS AS DIBDIFL2
(14)	HALFWORD	2	(0)	FORCE ALIGNMENT FOR ...
(14)	BITSTRING	1	DIBNICFN	CURRENT FUNCTION
(15)	BITSTRING	1	DIBNINRS	CURRENT NUMREC VALUE

Table 109. (continued)

Offset Hex	Type	Len	Name (dim)	Description
INPUT DESTINATION LATEST FMH (STATUS) THIS IS A COPY OF THE BEGIN FMH RECEIVED ON INPUT USE FMH DSECT TO OVERLAY FIELDS				
(16)	BITSTRING	1	DIBIFMLN	LENGTH OF FMH (TO DIBDNAM)
(17)	BITSTRING	1	DIBIFMTY	FMH TYPE(1,2,3 ETC)
(18)	BITSTRING	1	DIBIMSB	MEDIA SELECTION FIELD

BIT 0 RESERVED
BIT 1-3 FOLLOWING VALUES:
    000 CONSOLE
    010 CARD
    011 PRINT
    100 DISK
    110 PDS
BIT 4-7 LOG SUBADDRESS				

(19)	BITSTRING	1	DIBISRI (0)	BIT 0 SRI
(19)	BITSTRING	1	DIBIDSEL (0)	BIT 1 DEMAND SELECT
(19)	BITSTRING	1	DIBIDSP (0)	BITS 4-7 DATA STREAM PROFILE
(19)	BITSTRING	1	DIBIDDSP	DEMAND SEL/DS PROFILE/SRI
(1A)	BITSTRING	1	DIBIDSF	DESTINATION SELECTION FIELD
(1B)	BITSTRING	1	DIBIERCI	EXCHANGE RECORD LENGTH
(1C)	BITSTRING	1	DIBIRSV2 (2)	RESERVED
(1E)	BITSTRING	1	DIBIDNL	LENGTH OF DSN
(1F)	CHARACTER	8	DIBIDNAM	MAXIMUM OF EIGHT CHARACTERS DSN NAME
(27)	BITSTRING	1	DIBISDNL	SAVED PREVIOUS LENGTH, DESTINATION, NAME
OUTPUT DESTINATION LATEST FMH (STATUS) THIS IS A COPY OF THE BEGIN FMH FIRST OUTPUT USE FMH DSECT TO OVERLAY FIELDS				
(28)	BITSTRING	1	DIBFMHLN	LENGTH OF FMH (TO DIBDNAM)
(29)	BITSTRING	1	DIBFMHTY	FMH TYPE(1,2,3 ETC)
(2A)	BITSTRING	1	DIBMSB	MEDIA SELECTION FIELD

Table 109. (continued)

Offset Hex	Type	Len	Name (dim)	Description

	BIT 0 RESERVED
	BIT 0-3 FOLLOWING VALUES:
	   0000 CONSOLE
	   0010 CARD
	   0011 PRINT
	   0100 DISK
	   0101 EXTENDED DOCUMENT
	   0110 PDS
	   1000 WORD PROCESSING MEDIUM 1
	   1001 WORD PROCESSING MEDIUM 2
	   1010 WORD PROCESSING MEDIUM 3
	   1100 WORD PROCESSING MEDIUM 4
	   1101 NCI
	BIT 4-7 LOG SUBADDRESS				

(2B)	BITSTRING	1	DIBSRI (0)	BIT 0 SRI
(2B)	BITSTRING	1	DIBDESEL (0)	BIT 1 DEMAND SELECT
(2B)	BITSTRING	1	DIBDSP (0)	BITS 4-7 DATA STREAM PROFILE
	VALUES OF THE DATA STREAM PROFILE			
	....		DIBDSPDE	"X'00'" DEFAULT
(2B)	BITSTRING	0	DIBDSPBA	"X'01'" BASE
(2B)	BITSTRING	0	DIBDSPJB	"X'03'" JOB DSP
(2B)	BITSTRING	0	DIBDSPRW	"X'04'" WP RAW
(2B)	BITSTRING	0	DIBDSPI1	"X'06'" OII LEVEL 1
(2B)	BITSTRING	0	DIBDSPI2	"X'07'" OII LEVEL 2
(2B)	BITSTRING	0	DIBDSPI3	"X'08'" OII LEVEL 3
	VALUES X'09' TO X'0F' RESERVED			
(2B)	BITSTRING	1	DIBDSDSP	DEMAND SEL/DS PROFILE/SRI
(2C)	BITSTRING	1	DIBDSF	DESTINATION SELECTION FIELD
(2D)	BITSTRING	1	DIBERCI	EXCHANGE RECORD LENGTH
(2E)	BITSTRING	1	DIBRSVD2 (2)	RESERVED
(30)	BITSTRING	1	DIBDNL	LENGTH OF DSN
(31)	CHARACTER	8	DIBDNAM	MAXIMUM OF EIGHT CHARACTERS DSN NAME
(39)	BITSTRING	1	DIBVNL	LENGTH OF VOLUME
(3A)	CHARACTER	6	DIBVNAM	MAXIMUM SIX CHARACTER VOLUME ID
(40)	BITSTRING	1	DIBKYL	SAVED KEY LENGTH
(41)	CHARACTER	64	DIBKYD	SAVED KEY FOR RETRANSMIT

Table 109. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	DBL WORD	8	(0)	

DJEPC Enterprise Java Commarea Event

Table 110.

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

Constants

Table 111.

Len	Type	value	Name	Description
1	DECIMAL	1	EJDE_EVENTTYPE_INFO	
1	DECIMAL	2	EJDE_EVENTTYPE_WARNING	
1	DECIMAL	3	EJDE_EVENTTYPE_ERROR	

SPI Task Local Storage Definition

```
                 MODULE NAME = DFHDMTLS
                 DESCRIPTIVE NAME  = CICS Resource Definition Online
                                 Task Local Storage definition.
                 @BANNER_START 02
                                   DFHDMTLS
                 Licensed Materials - Property of IBM
                 "Restricted Materials of IBM"
                 5655-S97
                 @BANNER_END
                 SPI Task Local Storage definition.
                 USE:
                  IN CICS:
                     AMP, DMP and PUP (PPT programs).
                  IN BATCH:
                     All modules subordinate to
                     and including DFHCUCP.
                 ADDRESSABILITY:
                  IN CICS:
                     BASED on TCADMTLA field in TCA.
                  IN BATCH:
                     BASED on DMTLA, passed as a parameter to all modules
                     subordinate to DFHCUCP.
                 SIZE:
                     Size is length of structure DFHDMTLS.
                 OBTAINED:
                 IN CICS:
                     by DFHDMP03 adaptor, via:
```

```
                    DFHDMP router, via:
                    DFHAMPFI routine, via:
                    DFHAMP router.
               IN BATCH:
                  by DFHDMP05 adaptor, via:
                    DFHCUCP.
               FREED
               IN CICS:
                  by DFHAMPEN routine called by AMP.
               IN BATCH:
                  by DFHDMP05 adaptor, via:
                    DFHCUCP.
```

Table 112.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	312	DFHDMTLS	
Address of KWA chain. Number of links in KWA chain.				
(0)	ADDRESS	4	TLPTR1	
(4)	FULLWORD	4	TLLEN1	
Primary CSD control record. In-store address. Length of In-store primary record structure: Containing duplicate record.				
(8)	ADDRESS	4	TLPTR2	
(C)	FULLWORD	4	TLLEN2	
LD table address.				
(10)	ADDRESS	4	TLPTR3	
TLSYSID (Batch only): Operating System (MVS or DOS) FCxxxx (initialisation only) FCT values to be restored on CSD close.				
(14)	CHARACTER	4	TLSYSID	
	1...		FCADD	remember fct value
	.1..		FCUPDATE	ditto for update
	..1.		FCDELETE	and delete
Miscellaneous global fields (a) for DFHAMP (CICS) (b) for DFHCSDUP (batch)				
(18)	CHARACTER	20	GLOBMISC	
(18)	ADDRESS	4	*	Was AMARGANC DFHCSDUP misc globals
(18)	BIT(8)	1	TLCUBITS	Flag bits
	1...		TLMSGOFF	Suppress msgs.from BEP
	.1..		TLRDCICS	Processing CICS-supplied resource definition list
	..1.		TLRDTMIG	Processing migrated RDT
	...1		TLUPGUSG	Processing UPGRADE USING
	.... 1...		TLIGNOIW	Ignore I and W msgs

Table 112. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		TLPCURDD	Processing CURDD/CURDN
	.... ..1.		TLUSRDEF	Userdefine command
	1		TLGENGAL	Generic group alter
(19)	BIT(8)	1	*	Reserved
	1...		TLALOBKY	Allow obsolete keywords
	.111 1111		*	Spare
(1A)	HALFWORD	2	TLKEYNUM	Current keyword number AMP anchors (Continued)
(1C)	ADDRESS	4	AMERRANC	Anchor for error msgs
(20)	ADDRESS	4	SYSTEMER	Internal msg anchor
(24)	ADDRESS	4	AMDISANC	Display block anchor
(28)	ADDRESS	4	TLARG0PT	Current argument 0 ptr
	Task-local variables for DFHTOR (Terminal Object Resolution). TRCURSTA records the current (summary) state of data type TR tr_current_state : <initial, luip, eg1, eg2, error>			
(2C)	HALFWORD	2	TRCURSTA	
(2E)	HALFWORD	2	*	Reserved for alignment TRSTATUS is used by all the modules that implement TR. TRSTATUS is used to indicate exceptional conditions as they
(30)	CHARACTER	8	TRSTATUS	arise.
(30)	FULLWORD	4	TRRESP	TR-global response code.
(34)	FULLWORD	4	TRREASON	TR-global reason code.
	The following 11 variables are in "tr_state". They represent mappings from names to either a) other names or b) resource definitions. The data length of each (CHAR(20)) is dependent upon the implementation as encoded in DFHTOMAC etc.			
(38)	CHARACTER	20	MMNDX	autodefine models tt_ndx : MAP OF (ttid,ttdef)
(4C)	CHARACTER	20	TTNDX	TYPTERM names,defns. tm_ndx : MAP OF (tmid,tmdef)
(60)	CHARACTER	20	TMNDX	CICS tmids tm_use : MAP OF (tmid,ttid)

Table 112. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(74)	CHARACTER	20	TMUSE	TYPETERM references. pt_ndx : MAP OF (tmid,ptdef)
(88)	CHARACTER	20	PTNDX	pooled TERMINALs pt_use : MAP OF(tmid,ttid)
(9C)	CHARACTER	20	PTUSE	TYPETERM references cn_ndx : MAP OF(cnid,cndefr)
(B0)	CHARACTER	20	CNNDX	CONNECTIONs se_ndx : MAP OF(seid,sedefr)
(C4)	CHARACTER	20	SENDX	SESSIONS se_use : MAP OF(seid,cnid)
(D8)	CHARACTER	20	SEUSE	SESSIONS regferences
End of DFHTOR-specific variables.				
AMP EXPAND|DISPLAY BROWSE SPECIFIC KEYWORDS				
(EC)	CHARACTER	32	*	BROWSE work area
(EC)	BIT(8)	1	*	Status flags
	1...		*	Reserved
	.1..		EXPANDAC	EXPAND active
	..1.		EXPANDNX	SET TO 1 WHEN 1ST NEXT IS OK *
	...1		DISPLYAC	DISPLAY active
	.... 1...		RMREGTRD	Have registered with RM
	.... .1..		CREATCOM	Create command
	.... ..1.		POOLINPR	Terminal pool in progress
	1		CONNINPR	Connection in progress
(ED)	BIT(8)	1	*	More flags
	1...		INSTACOM	Install command
	.1..		TLS_COUNTED	CSACSDCT incremented
	..1.		TLS_USRID_X	Userid specified on SPI
	...1 1111		*	Reserved
(EE)	BIT(8)	1	*	Reserved
(EF)	BIT(8)	1	*	Reserved
(F0)	FULLWORD	4	EXPANDTY	EXPAND type (list or group) *
(F4)	ADDRESS	4	EXPKWA	EXPAND KWA pointer

Table 112. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F8)	CHARACTER	8	EXPNAME	Name of group or list EXPANDed
(100)	FULLWORD	4	DISPLYTY	DISPLAY type (list or group) *
(104)	ADDRESS	4	DISPKWA	DISPLAY KWA pointer
(108)	UNSIGNED	2	BROWSID	Last Reqid used
(10A)	HALFWORD	2	*	Reserved for alignment
RESPONSE and REASON codes returned via API				
(10C)	FULLWORD	4	APIRESP	API Response code
(110)	FULLWORD	4	APIREAS	API Reason code
(110)	UNSIGNED	2	APIREAS_HIGH	High halfword of Reason
(112)	UNSIGNED	2	APIREAS_LOW	Low halfword of Reason
%GOTO TLSCICS2 Information from the Parameter List passed to DFHCSDUP from a user program.				
(114)	CHARACTER	8	CSD_NAME	DD NAME OF ALTERNATIVE CSD
Name of the current terminal pool or connection being installed				
(11C)	CHARACTER	8	TLS_POOL_NAME	Terminal pool in progress
(11C)	CHARACTER	4	TLS_CONN_NAME	Connection in progress
Catalog token to disconnect in case of abend				
(124)	CHARACTER	4	TLS_CCTOKEN	Catalog token
-- Fields required for the EXEC CICS CSD API --				
(128)	ADDRESS	4	TLS_SETPTR	SET buffer address
(12C)	FULLWORD	4	TLS_SETLEN	SET buffer length
(130)	ADDRESS	4	AMARGANC	AMP anchor for arg lists
(134)	BIT(8)	1	*	Flags
	1...		TLS_CSDAPI	Command from CSD API
	.1..		TLS_INQUIRERSRCE	Inquirersrce command from CSD API
	..11 1111		*	Spare
(135)	CHARACTER	3	*	Spare
--				
(138)	CHARACTER	0	*	End of storage

DSG Dispatcher statistics

```
                    CONTROL BLOCK NAME = DFHDSGDS
                    DESCRIPTIVE NAME  = CICS Dispatcher Statistics
                       @BANNER_START 02

                                        DFHDSGDS
                    Licensed Materials - Property of IBM
                    "Restricted Materials of IBM"
                    5655-S97
                    @BANNER_END
                          CICS level at which this module was last updated
                    FUNCTION =
                          This data area contains global statistics provided by the
                          Dispatcher Domain
                          It is provided for use in users monitoring applications
                          to map the statistics returned via the APi or the statistics
                          exit.
                          There is a single instance of this data block.
                    LIFETIME =
                          This data block is created by the Dispatcher to store
                          statistics to be passed to the user in response to a request
                          to a request for statistics. The storage is released when
                          the user task is detached.
                          The DSECT also maps the contents of part of the SMF buffer
                          created by the statistics domain and is used in the
                          statistics exit.
                    STORAGE CLASS =
                    LOCATION =
                          The user is passed a pointer to the head of the storage
                          block.
                    INNER CONTROL BLOCKS = none
                    NOTES :
                       DEPENDENCIES = S/370
                       RESTRICTIONS = none
                       MODULE TYPE = Domain call buffer
                  -------------------------------------------------------------------

                  EXTERNAL REFERENCES = none
                      DATA AREAS = none
                      CONTROL BLOCKS = from dispatcher domain
                      GLOBAL VARIABLES (Macro pass) = none
                  -------------------------------------------------------------------
                  ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHDSGDS IS
                  NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
                  PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 113.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHDSGDS	Dispatcher Domain DSECT
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	DSGLEN	Length of data area
(0)	SIGNED	0	DSGIDE	"0060" Dispatcher domain id mask
(2)	ADDRESS	2	DSGID	Dispatcher domain id
(2)	BITSTRING	0	DSGVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	DSGDVERS	Stats version number
(5)	CHARACTER	3		Filler

Table 113. (continued)

Offset Hex	Type	Len	Name (dim)	Description
\multicolumn{5}{l}{DSGGLEN includes the length of the (standard statistics record hdr of 8 bytes + DSGHDR + DSGSTATS) effectively giving the offset to the first entry in the TCB_MODE_STATS array. DSGASIZE gives the number of entries in the TCB_MODE_STATS array. DSGPSIZE gives the number of entries in the TCB_POOL_STATS array.}				
(8)	FULLWORD	4	DSGHDR (0)	Dispatcher Global Stats Header
(8)	HALFWORD	2	DSGGLEN	Global stats length
(A)	HALFWORD	2	DSGASIZE	No. of DSGTCBM dsects supplied
(C)	HALFWORD	2	DSGPSIZE	No. of DSGTCBP dsects supplied
(E)	HALFWORD	2		Reserved
\multicolumn{5}{l}{Dispatcher Stats fields begin here.}				
(10)	FULLWORD	4	DSGSTATS (0)	Dispatcher Global Stats
(10)	FULLWORD	4	DSGICVT	Current ICV time
(14)	FULLWORD	4	DSGICVRT	Current ICVR Time
(18)	HALFWORD	2	DSGICVSD	Current ICVTSD time
(1A)	HALFWORD	2	DSGPRIAG	Priority aging
(1C)	HALFWORD	2	DSGSTSKS	Subtasks value
(1E)	HALFWORD	2	DSGMBTCH	QR Batching (MRO) value
(20)	BITSTRING	4		Reserved
(24)	HALFWORD	2	DSGCNT	Current number of tasks
(26)	HALFWORD	2	DSGPNT	Peak number of tasks
(28)	BITSTRING	8		Reserved
(30)	BITSTRING	8		Reserved
The following 2 fields contain the sub-dispatcher start time expressed in GMT and Local STCK formats respectively.				
(38)	BITSTRING	8	DSGSTART	GMT STCK Sub-Disp start time
(40)	BITSTRING	8	DSGLSTRT	Local STCK Sub-Disp start time
(48)	BITSTRING	8	DSGEJST	Elapsed Job Step timing
(50)	BITSTRING	8	DSGSRBT	Accumulated SRB time
(58)	BITSTRING	8		Reserved
(60)	FULLWORD	4		Reserved
(64)	FULLWORD	4		Reserved
Excess TCB Management Global Statistics.				
(68)	FULLWORD	4	DSGXSCNS	No. of excess TCB scans

Table 113. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6C)	FULLWORD	4	DSGXSCNN	No. of scans - no TCB detached
(70)	FULLWORD	4	DSGXTCBD	Total no. excess TCBs detached
(74)	FULLWORD	4		Reserved
(78)	BITSTRING	8		Reserved
(78)		0	DSGMEND	"*"
(78)		0	DSGMCLEN	"*-DSGLEN" Length of Global Stats

```
           TCB Mode Statistics
           The stats for the Dispatcher TCB Modes are kept in a fixed length
           array. The number of entries in the array is in field DSGASIZE
           located at the begining of the DSGHDR.
           The TCB number to dispatcher mode map is as follows:
            TCB1 = Quasi Reentrant mode
            TCB2 = Resource owning mode
            TCB3 = Concurrent mode
            TCB4 = Secondary LU mode
            TCB5 = ONC/RPC mode
            TCB6 = File Owning mode
            TCB7 = Sockets Owning mode (SL)
            TCB8 = Sockets Owning mode (SO)
            TCB9 = Sockets Pthread Owning mode (SP)
            TCB10 = EP - Event Processing mode
            TCB11 = TP - Threaded TCB Owning mode
            TCB12 = D2 - DB2 mode
            TCB13 = JM - JVM ClassCache mode
            TCB14 = S8 - Sockets (SSL) mode
            TCB15 = L8 - Open mode
            TCB16 = L9 - Open mode
            TCB17 = J8 - Open mode
            TCB18 = J9 - Open mode
            TCB19 = X8 - Open mode
            TCB20 = X9 - Open mode
            TCB21 = T8 - Open mode
```

Table 114.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DSGTCBM	TCB Mode Stats
(0)	CHARACTER	2	DSGTCBNM	TCB Mode Name
(2)	BITSTRING	1	DSGTCBMD	TCB Mode
	....		DSGTCBMU	"X'00'" X'00' = Unknown Mode
(2)	BITSTRING	0	DSGTCBMN	"X'01'" X'01' = Not Open Mode
(2)	BITSTRING	0	DSGTCBMO	"X'02'" X'02' = Open Mode
(3)	BITSTRING	1		Reserved
(4)	HALFWORD	2	DSGTCBMP	TCB Mode Pool number
	....		DSGTCBP0	"0" 0 = TCB Pool Not Applicable

Table 114. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	SIGNED	0	DSGTCBPO	"1" 1 = TCB Pool Open
(4)	SIGNED	0	DSGTCBPJ	"2" 2 = TCB Pool JVM
(4)	SIGNED	0	DSGTCBPX	"3" 3 = TCB Pool XPLink
(4)	SIGNED	0	DSGTCBPS	"4" 4 = TCB Pool SSL
(4)	SIGNED	0	DSGTCBPT	"5" 5 = TCB Pool Threaded
(6)	BITSTRING	2		Reserved
(8)	FULLWORD	4	DSGNTCBA	No. of TCB attaches
(C)	FULLWORD	4	DSGTCBAF	No. of TCB attach failures
(10)	FULLWORD	4	DSGTCBCA	Current No. of TCBs attached
(14)	FULLWORD	4	DSGTCBPA	Peak No. of TCBs attached
(18)	FULLWORD	4		Reserved
(1C)	FULLWORD	4	DSGTCBCU	Current No. TCBs used by mode
(20)	FULLWORD	4	DSGTCBPU	Peak No. TCBs used by mode
(24)	FULLWORD	4		Reserved
(28)	FULLWORD	4		Reserved
(2C)	FULLWORD	4	DSGTCBAL	No. TCB Allocates to task
(30)	FULLWORD	4		Reserved
(34)	FULLWORD	4	DSGTCBDU	No. of TCB detaches - unclean
(38)	FULLWORD	4	DSGTCBDS	No. of TCB detaches - stolen
(3C)	FULLWORD	4	DSGTCBDX	No. of TCB detaches - excess
(40)	FULLWORD	4	DSGTCBDO	No. of TCB detaches - other
(44)	FULLWORD	4		Reserved
(48)	FULLWORD	4	DSGTCBST	No. of TCB steals
(4C)	FULLWORD	4	DSGTCBMM	No. of TCB mismatches
(50)	FULLWORD	4	DSGSYSW	No. of partition exits
(54)	FULLWORD	4		Reserved
The following CL8 definitions are really "Store Clock" format				
(58)	BITSTRING	8	DSGTWT	Cum real time CICS in OS wait
(60)	BITSTRING	8	DSGTDT	Cum real time TCB disp by MVS

Table 114. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(68)	BITSTRING	8	DSGTCT	Cum CPU time for DS task
(70)	BITSTRING	8	DSGACT	Cum CPU time for TCB
(78)	BITSTRING	8		Reserved
(80)	BITSTRING	8		Reserved
(80)		0	DSGMDEND	"*"
(80)		0	DSGMDLEN	"*-DSGTCBM" Length of a TCB Mode stats

```
TCB Pool Statistics
The stats for the Dispatcher TCB Pools are kept in a fixed length
array. The number of entries in the array is in field DSGPSIZE
located at the begining of the DSGHDR.
The TCB pool number to dispatcher pool map is as follows:
 TCB POOL(1) = MAXOPENTCBS
 TCB POOL(2) = MAXJVMTCBS
 TCB POOL(3) = MAXXPTCBS
 TCB POOL(4) = MAXSSLTCBS
 TCB POOL(5) = MAXTHRDTCBS
```

Table 115.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DSGTCBP	TCB Pool Stats
(0)	HALFWORD	2	DSGTCBPN	TCB Pool Number
(2)	BITSTRING	2		Reserved
(4)	FULLWORD	4	DSGMXTCB	Max number of TCBs
(8)	FULLWORD	4	DSGCNUAT	Current TCBs attached
(C)	FULLWORD	4	DSGPNUAT	Peak TCBs attached
(10)	FULLWORD	4	DSGCNUUS	Current TCBs in use
(14)	FULLWORD	4	DSGPNUUS	Peak TCBs in use
(18)	BITSTRING	8		Reserved
(20)	FULLWORD	4	DSGNTCBL	No. times at TCB Pool Limit
(24)	FULLWORD	4		Reserved
(28)	BITSTRING	8	DSGTOTWL	Total Wait Time at TCB limit
(30)	BITSTRING	8	DSGCURWT	Current waiting time
(38)	BITSTRING	8	DSGTOTMT	Total MVS storage constraint delay time
(40)	FULLWORD	4	DSGTOTNW	Total number of waits
(44)	FULLWORD	4	DSGTOTMW	Requests delayed by MVS storage constraint
(48)	FULLWORD	4	DSGCURNW	Current No. of tasks waiting for a TCB

Table 115. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	FULLWORD	4	DSGPEANW	Peak No. of tasks waiting for a TCB
(50)	BITSTRING	8		Reserved
(58)	FULLWORD	4		Reserved
(5C)	FULLWORD	4	DSGMMWTS	Total No. of TCB Mismatch waits
(60)	BITSTRING	8	DSGMMWTM	Total TCB Mismatch wait time
(68)	BITSTRING	8		Reserved
(70)	FULLWORD	4	DSGCMMWS	Current TCB Mismatch waits
(74)	FULLWORD	4	DSGPMMWS	Peak TCB Mismatch waits
(78)	BITSTRING	8	DSGCMMWT	Current TCB Mismatch Waiting time
(80)	BITSTRING	8		Reserved
(88)	BITSTRING	8		Reserved
(88)		0	DSGPLEND	"*"
(88)		0	DSGPLEN	"*-DSGTCBP" Length of a TCB Pool stats
(88)		0	DSGEND	"*"
Equates for the maximum array sizes.				
(88)	SIGNED	0	DSGMAXNUMMODES	"21" Number of TCB Modes
(88)	SIGNED	0	DSGMAXNUMPOOLS	"5" Number of TCB Pools

DSN File control dataset name

```
         MACRO NAME = DFHDSND
          DESCRIPTIVE NAME  = CICS/ESA File control DATA-SET NAME BLOCK
                                   and BASE CLUSTER block.
           @BANNER_START 02
                          DFHDSND
           Licensed Materials - Property of IBM
           "Restricted Materials of IBM"
           5655-S97
           @BANNER_END
         FUNCTION =
               Create or map an instance of the DATASET NAME block.
               This block is dependent from the File Control Table,
               and contains a dataset name (up to 44 characters long)
               or equivalently a /VSE file-ID.
               It is pointed to by any number of FCT file entries,
               for either or both the purposes:
               a) to carry a name for possible DYNAMIC ALLOCATION when the
                  file is next opened. (The "optative" name.)
               b) to represent the BASE CLUSTER (in VSAM), DATA SET (BDAM),
                  (or any other entity) that the file, being open,
                  can update and that CICS needs to guard for backout
```

```
                    integrity.
                        DATASET NAME BLOCK
       The File Control Data Set Name Block (DSNB) holds the name
       for dynamic allocation of a data set. Any number of files
       (represented by File Control Table Entries, FCTEs) may address
       a DSNB. Dynamic allocation takes place at the time a file is
       opened. At this time, if the DSNB represents a VSAM base cluster
       or a BDAM data set, further information describing the data set
       is stored in the Base Cluster Block that is part of the DSNB.
   The following fields form part of the Product Sensitive
   Programming Interface :
     FCTDNAME
     FCTDNLEN
     FCTDNVAL bit setting in byte FCTDNFL1
     FCTBCFR, FCTBCLOG, FCTBCVAL, bit settings in byte FCTBCFL1
     FCTBCFRL
```

Table 116.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHDSNDS	DUMMY SECTION START
(0)	CHARACTER	8	FCTDNRN	resource name(='DSN_BLK:') ,
(8)	CHARACTER	44	FCTDNAME	dataset name ,
(34)	ADDRESS	4	FCTDNNUM	DATASET NUMBER (CC KEY) ,
(38)	ADDRESS	4	FCTDNBCN	DITTO OF CORR. BASE CLUSTER ,
(3C)	HALFWORD	2	FCTDNUC	USE COUNT ,
(3E)	ADDRESS	1	FCTDNLEN	EFFECTIVE LENGTH OF DSNAME ,
(3F)	ADDRESS	1	FCTDNTYP	DSTYPE=ESDS|KSDS|RRDS|PATH ,
(40)	BITSTRING	1	FCTDNFL1	FLAGS ,
(40)	BITSTRING	0	FCTDNVAL	"X'80'" DSN VALIDATED IN VSAM CAT. ,
(40)	BITSTRING	0	FCTDNRLS	"X'40'" Last open was in RLS mode ,
(41)	BITSTRING	3		Reserved ,
(44)	CHARACTER	44	FCTDN_BASENAME	Name of base if path ,
(70)	ADDRESS	4	FCTDN_LOCK_TOKEN	entry_lock token ,
(74)	FULLWORD	4	(0)	ALIGNMENT FOR INNER BLOCK ,
(74)		0	FCTDNINC	"*" START OF BASE CLUSTER BLOCK ,
	BASE CLUSTER BLOCK			
(74)		0	DFHBCCDS	"*" ,

Table 116. (continued)

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

Table 116. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)	ADDRESS	4	FCTBCVSC	Anchor for chain of VSWAs executing requests against this base.
(88)	FULLWORD	4	FCTBCSRB	Relative byte address for ESDS
(8C)	HALFWORD	2	FCTBCPUC	No. of open ACBs with DSname sharing
(8E)	HALFWORD	2	FCTBCRUC	Count of ACBs that are open against this recoverable ESDS base.
(90)	SIGNED	1	FCTBCLSR	LSR pool identifier
(91)	BITSTRING	1	FCTBCFIC	Fuzzy Image Copy flags
(91)	BITSTRING	0	FCTBCFUZ	"X'80'" Fuzzy backup enabled
(91)	BITSTRING	0	FCTBCVFS	"X'40'" Valid fuzzy state
(92)	HALFWORD	2	FCTBCFUC	Fuzzy File update count
(94)	ADDRESS	4	FCTBCACB	Address of ACB for base cluster. Allocated at the time of first PUT ADD or MASS INSERT against the path.
(98)	ADDRESS	4	(2)	Add/Delete counts
(A0)	ADDRESS	4	FCTBC_FLLB_CHAIN	Start of FLLB chain
(A4)	BITSTRING	1	FCTBC_RLS_INDS	Data table and RLS flags
(A4)	BITSTRING	0	FCTBC_LOST_LOCKS	"X'40'" Data set in lost locks state
(A5)	BITSTRING	1		Data table ECB
(A6)	BITSTRING	1		Data table loaded ECB
(A7)	BITSTRING	1	FCT_BC_MISC_INDS	Assorted flags
(A7)	BITSTRING	0	FCTBC_EXTENDED	"X'80'" Extended addressing
(A7)	BITSTRING	0	FCTBC_THREADSAFE_ WORK	
				"X'40'" Threadsafe work done
(A8)	CHARACTER	8		Table name
(B0)	ADDRESS	4	FCTBCDTK	Table token
(B4)	ADDRESS	4		Open FCTE chain

Table 116. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B8)	FULLWORD	4	FCTBCTKN	FR Log Tkn from CICS Logger
(BC)	BITSTRING	1	FCTBCFL2	Recovery Attribute Flags
(BC)	BITSTRING	0	FCTBCCAT	"X'80'" Attrs originate from catalog
(BC)	BITSTRING	0	FCTBCRLS	"X'40'" Attrs set on RLS file open
(BC)	BITSTRING	0	FCTBCRA	"X'20'" BCB has RLS ACBs open
(BC)	BITSTRING	0	FCTBCNRA	"X'10'" BCB has non-RLS ACBs open
(BC)	BITSTRING	0	FCTBCRCO	"X'08'" XFCRLSCO has allowed RLS and non-RLS ACBs open for this base cluster block
(BC)	BITSTRING	0	FCTBCCON	"X'04'" XFCRLSCO footprint FCN COEX
(BC)	BITSTRING	0	FCTBCCOW	"X'02'" XFCRLSCO footprint FCN WORK
(BC)	BITSTRING	0	FCTBCCOR	"X'01'" XFCRLSCO footprint FCRO
(BD)	CHARACTER	26	FCTBCCRL	FR Logstream Name from Catalog
(D7)	CHARACTER	1	FCTBC_QSTATE	RLS quiesce progress state for QUICLOSE, QUICOPY or QUIBWO
(D8)	FULLWORD	4	FCTBC_0890_COUNT	Requests awaited for 08-90
(DC)	CHARACTER	8	FCTBC_QTOKEN	RLS quiesce token, returned to VSAM when QUICMP issued
(E4)	ADDRESS	4	FCTBC_CONN_CHAIN	Chain of connected FCTEs
(E8)	ADDRESS	4	FCTBC_OWNING_ FRAB	Holder of ESDS write lock
(EC)	FULLWORD	4	FCTBC_SAFE_RBA	Highest safe RBA for update
(F0)	FULLWORD	4	FCTBC_QCOUNT	Number of UOWs to reach syncpoint before QUICMP can be issued for QUICOPY or QUIBWO
(F4)	CHARACTER	8	FCTBC_BWO_STAMP	OPEN TIMESTAMP FOR BWO

Table 116. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Force doubleword alignment				
(FC)	ADDRESS	4	FCTBC_0890_CHAIN	Head of 0890 wait chain
(100)	CHARACTER	8	FCTBC_HI_XRBA	Relative byte address for extended addressing ESDS
(108)	CHARACTER	8	FCTBC_SAFE_XRBA	Highest safe XRBA for update
(110)	FULLWORD	4	FCTBC_LOCK_TOKEN	BCB Lock Token
(114)	FULLWORD	4	FCTBC_SPHERE_LOCK_TOKEN	
				SPHERE Lock Token
(118)	FULLWORD	4		Reserved
(11C)	HALFWORD	2	FCTBC_NRUC	Non RLS file open with updateable servreqs count
(11E)	HALFWORD	2	FCTBCUCN	Count of ACBs that are open against this dataset for Non RLS files
(120)	HALFWORD	2	FCTBCUCR	Count of ACBs that are open against this dataset for RLS files
(122)	HALFWORD	2		Reserved
(128)	DBL WORD	8	DFHBCEND (0)	Align, to round up gross length to double word
(128)		0	DFHBCLEN	"DFHBCEND-DFHBCCDS" ,
Constants for FCTBC_QSTATE. This tracks the progress of a VSAM RLS QUICLOSE, QUICOPY or QUIBWO quiesce request.				
	....		FCTBC_QSTATE_NORMAL	
				"0"
(128)	SIGNED	0	FCTBC_QSTATE_QUIESCING	
				"1"
(128)	SIGNED	0	FCTBC_QSTATE_QUIESCE_CANCELLING	
				"2"
(128)	SIGNED	0	FCTBC_QSTATE_COPYING	
				"3"
(128)	SIGNED	0	FCTBC_QSTATE_COPY_CANCELLING	
				"4"

Table 116. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(128)	SIGNED	0	FCTBC_QSTATE_ COPY_POLICING	
				"5"
(128)	SIGNED	0	FCTBC_QSTATE_ BWOING	
				"6"
(128)	SIGNED	0	FCTBC_QSTATE_ BWO_CANCELLING	
				"7"

DSRDS Dispatcher MVS TCB Resource Stats

```
CONTROL BLOCK NAME = DFHDSRDS
DESCRIPTIVE NAME  = CICS Dispatcher MVSTCB resource statistics
   @BANNER_START 02

                        DFHDSRDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This data area contains resource statistics provided by the
      Dispatcher Domain on MVS TCBs i.e. the stats relating to
      an individual TCB.
      It is provided for use in users monitoring applications
      to map the statistics returned via the APi or the statistics
      exit.
LIFETIME =
      This data block is created by the Dispatcher to store
      statistics to be passed to the user in response to a request
      for statistics. The storage is released when the user task
      is detached.
      The DSECT also maps the contents of part of the SMF buffer
      created by the statistics domain and is used in the
      statistics exit.
STORAGE CLASS =
LOCATION =
      The user is passed a pointer to the head of the storage
      block.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Domain call buffer
 -------------------------------------------------------------------
 EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = none
    GLOBAL VARIABLES (Macro pass) = none
 -------------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY, DFHDSRDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 117.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHDSRDS	Dispatcher Domain MVSTCB statistics
(0)	HALFWORD	2	DSRDS_LEN	MVSTCB resource stats record length
(2)	ADDRESS	2	DSRDS_ID	Statistics record id
(2)	SIGNED	0	DSRIDR	"65" MVSTCB resource stats id
(4)	CHARACTER	1	DSRDS_VERS	MVSTCB resource stats version
(4)	BITSTRING	0	DSRVERS	"X'01'" Current version number
(5)	CHARACTER	3		Reserved
MVSTCB resource stats fields begin here				
(8)	ADDRESS	4	DSRDS_TCB_ ADDRESS	Address of MVS TCB
(C)	CHARACTER	8	DSRDS_TCB_NAME	Initial prog or QR, RO etc.
(14)	CHARACTER	1	DSRDS_TCB_TYPE	'C' for CICS, 'N' for non-CICS
(15)	CHARACTER	3		Reserved
(18)	CHARACTER	4	DSRDS_TCB_ CICS_TASK	
				CICS task number or 0
(1C)	ADDRESS	4	DSRDS_TCB_MOTHER	Address of mother TCB
(20)	ADDRESS	4	DSRDS_TCB_SISTER	Address of sister TCB
(24)	ADDRESS	4	DSRDS_TCB_ DAUGHTER	Address of daughter TCB
(28)	CHARACTER	8	DSRDS_TCB_ CPUTIME	Total CPU time so far
(30)	FULLWORD	4	DSRDS_TCB_ STG_BELOW	
				Private storage below 16M
(34)	FULLWORD	4	DSRDS_TCB_ STG_ABOVE	
				Private storage above 16M
(38)	FULLWORD	4	DSRDS_TCB_ STG_BELOW_INUSE	
				Below 16M in use
(3C)	FULLWORD	4	DSRDS_TCB_ STG_ABOVE_INUSE	
				Above 16M in use
(40)	FULLWORD	4		Reserved

Table 117. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	FULLWORD	4		Reserved
(48)	CHARACTER	8		Reserved
(48)		0	DSRDS_END	"*"
(48)		0	DSRDS_LENGTH	"*-DSRDS_LEN" MVSTCB resource stats record length

DSTDS Dispatcher MVS TCB Global Stats

```
                   CONTROL BLOCK NAME = DFHDSTDS
                   DESCRIPTIVE NAME  = CICS Dispatcher MVSTCB Global statistics
                      @BANNER_START 02
                                       DFHDSTDS
                      Licensed Materials - Property of IBM
                      "Restricted Materials of IBM"
                      5655-S97
                      @BANNER_END
                   FUNCTION =
                          This data area contains global statistics provided by the
                          Dispatcher Domain on MVS TCBs.
                          It is provided for use in users monitoring applications
                          to map the statistics returned via the APi or the statistics
                          exit.
                          There is a single instance of this data block.
                   LIFETIME =
                          This data block is created by the Dispatcher to store
                          statistics to be passed to the user in response to a request
                          for statistics. The storage is released when the user task
                          is detached.
                          The DSECT also maps the contents of part of the SMF buffer
                          created by the statistics domain and is used in the
                          statistics exit.
                   STORAGE CLASS =
                   LOCATION =
                          The user is passed a pointer to the head of the storage
                          block.
                   INNER CONTROL BLOCKS = none
                   NOTES :
                      DEPENDENCIES = S/370
                      RESTRICTIONS = none
                      MODULE TYPE = Domain call buffer
                   -------------------------------------------------------------------
                   EXTERNAL REFERENCES = none
                      DATA AREAS = none
                      CONTROL BLOCKS = from dispatcher domain
                      GLOBAL VARIABLES (Macro pass) = none
                   -------------------------------------------------------------------
                   ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY, DFHDSTDS IS
                   NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
                   PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 118.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHDSTDS	Dispatcher Domain MVSTCB statistics
(0)	HALFWORD	2	DSTDS_LEN	MVSTCB global stats record length

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	ADDRESS	2	DSTDS_ID	Statistics record id
(2)	SIGNED	0	DSTIDR	"64" MVSTCB global stats id
(4)	CHARACTER	1	DSTDS_VERS	MVSTCB global stats version
(4)	BITSTRING	0	DSTVERS	"X'01'" Current version number
(5)	CHARACTER	3		Reserved
MVSTCB stats fields begin here				
(8)	FULLWORD	4	DSTDS_CICSTCB_ COUNT	
				Current number of CICS TCBs
(C)	CHARACTER	8	DSTDS_CICSTCB_ CPUTIME	
				So far for currently attached
(14)	FULLWORD	4	DSTDS_CICSTCB_ STG_BELOW	
				Private stg below 16M
(18)	FULLWORD	4	DSTDS_CICSTCB_ STG_ABOVE	
				Private stg above 16M
(1C)	FULLWORD	4	DSTDS_NONCICSTCB_ COUNT	
				Current number of non-CICS TCBs
(20)	CHARACTER	8	DSTDS_NONCICSTCB_ CPUTIME	
				So far for currently attached
(28)	FULLWORD	4	DSTDS_NONCICSTCB_ STG_BELOW	
				Private stg below 16M
(2C)	FULLWORD	4	DSTDS_NONCICSTCB_ STG_ABOVE	
				Private stg above 16M
(30)	FULLWORD	4	DSTDS_CICSTCB_ STG_BELOW_INUSE	
				<16M in use
(34)	FULLWORD	4	DSTDS_CICSTCB_ STG_ABOVE_INUSE	

Table 118. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				>16M in use
(38)	FULLWORD	4	DSTDS_NONCICSTCB_STG_BELOW_INUSE	
				<16M in use
(3C)	FULLWORD	4	DSTDS_NONCICSTCB_STG_ABOVE_INUSE	
				>16M in use
(40)	FULLWORD	4		Reserved
(44)	FULLWORD	4		Reserved
(48)	CHARACTER	8		Reserved
(48)		0	DSTDS_END	"*"
(48)		0	DSTDS_LENGTH	"*-DSTDS_LEN" MVSTCB global stats record length

DUAFB Dump Domain Authorised Parameter Block

```
!:refstep.dafpb -------------------------------------- DFHDUSVC 88 -
!
!
! The Dump Authorized Facility Parameter Block. This is used to
! pass parameters to the Dump SVC routine DFHDUSVC, and return
! responses to the caller.
!
!-------------------------------------------------------------------
```

Table 119.

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

Table 119. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	FULLWORD	4	DAFPB_SYMREC_LEN	length of symptom record
(20)	CHARACTER	8	DAFPB_DUMPCODE	dump code
(28)	CHARACTER	9	DAFPB_DUMPID	dump identifier
(31)	CHARACTER	3	*	reserved
(34)	BIT(32)	4	*	reserved
(38)	ADDRESS	4	DAFPB_REMOTE_MSG_PTR	
				address of remote message
(3C)	FULLWORD	4	DAFPB_CSVDYNEX_RETURN_CODE	
				MVS return code from CSVDYNEX
(40)	FULLWORD	4	DAFPB_CSVDYNEX_REASON	
				MVS reason code from CSVDYNEX
(44)	FULLWORD	4	DAFPB_IWMWQWRK_RETURN_CODE	
				MVS return code from IWMWQWRK
(48)	FULLWORD	4	DAFPB_IWMWQWRK_REASON	
				MVS reason code from IWMWQWRK
(4C)	CHARACTER	8	DAFPB_XCFGROUP	XCFGroup for RELATED DMP
(54)	CHARACTER	0	DAFPB_END	

Constants

Table 120.

Len	Type	value	Name	Description
!:refstep.dafpb_functions --------------------------- DFHDUSVC 138 - ! ! The valid functions for the Dump SVC routine, passed in the ! "DAFPB" field "dafpb_function". ! ! The functions currently supported are: ! ! take_sdumpx ! provides a fast unformatted dump of virtual storage and returns ! a response/reason. ! take_related_sdumpx ! uses IWMWQWRK to obtain a list of active units of work. This ! data is passed to SDUMPX with a request for REMOTE dumps across ! the SYSPLEX for CICS systems in XCF group DFHIR00 which are ! involved in the active units of work. A dump of virtual storage ! is also taken for the local address space. ! csvdynex_add_dfhdumpx ! adds dfhdumpx to the SDUMPX IEASDUMP.QUERY dynamic exit and ! returns a response. ! !---				
2	DECIMAL	1	DAFPB_TAKE_SDUMPX	
2	DECIMAL	2	DAFPB_TAKE_ RELATED_SDUMPX	
2	DECIMAL	3	DAFPB_CSVDYNEX_ ADD_DFHDUMPX	
!:erefstep.dafpb_functions --- !:refstep.dafpb_responses --------------------------- DFHDUSVC 165 - ! ! The valid responses from the Dump SVC routine, passed in the ! "DAFPB" field "dafpb_response". ! ! The responses currently produced are: ! ! ok ! The operation was executed successfully. ! not_supported ! The function code supplied is not valid. ! getmain_failed ! A GETMAIN request for SP 253 storage failed. ! festae_failed ! The FESTAE could not be established. ! not_authorized ! The authorization check failed. ! sdumpx_failed ! The SDUMPX request failed to complete the dump. The MVS response ! and reason are returned in "dafpb_sdumpx_response". ! csvdynex_failed ! The CSVDYNEX request failed. The MVS return code and reason are ! returned in "dafpb_csvdynex_return_code" and ! "dafpb_csvdynex_reason". ! iwmwqwrk_failed ! The IWMWQWRK request failed. The MVS return code and reason are ! returned in "dafpb_iwmwqwrk_return_code" and ! "dafpb_iwmwqwrk_reason". ! dfhdumpx_not_found ! The exit module DFHDUMPX was not found in the LPA. ! invalid_probdesc ! The SDUMPX PROBDESC data is invalid. ! !---				

Table 120. (continued)

Len	Type	value	Name	Description
2	DECIMAL	0	DAFPB_OK	
2	DECIMAL	1	DAFPB_NOT_SUPPORTED	
2	DECIMAL	2	DAFPB_GETMAIN_FAILED	
2	DECIMAL	3	DAFPB_FESTAE_FAILED	
2	DECIMAL	4	DAFPB_NOT_AUTHORIZED	
2	DECIMAL	5	DAFPB_SDUMPX_FAILED	
2	DECIMAL	6	DAFPB_CSVDYNEX_ FAILED	
2	DECIMAL	7	DAFPB_IWMWQWRK_ FAILED	
2	DECIMAL	8	DAFPB_DFHDUMPX_ NOT_FOUND	
2	DECIMAL	9	DAFPB_INVALID_ PROBDESC	

DUA Dump Domain Control Blocks

```
CONTROL BLOCK NAME = DUA
DESCRIPTIVE NAME  = CICS Dump Domain - Common structures
                    and constants
 @BANNER_START 02
                        DFHDUDCC
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = Contains the structures for :-
            DUA - DU anchor block
            DTB - Dump table block header
            BTB - Browse table header
            DTE - Dump table element
            BTE - Browse table element
            CC_DU_STATE - Dump catalog record
            XFINTER - Interface block
            OPEN_BLOCK - Dump dataset open block
            ECB - Dump dataset ECB block
            WL - Dump dataset remote parameter list
-------------------------------------------------------------
DUA - DU Anchor block
```

Table 121.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	370	DUA	
(0)	CHARACTER	16	DUA_PREFIX	Standard prefix
(0)	HALFWORD	2	DUA_LENGTH	Length of block
(2)	CHARACTER	1	DUA_ARROW	'>'
(3)	CHARACTER	3	DUA_DFH	'DFH'
(6)	CHARACTER	2	DUA_DOMID	'DU'
(8)	CHARACTER	8	DUA_BLOCK_NAME	'ANCHOR'

Table 121. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	CHARACTER	8	DUA_APPLID	CICS system identifier
(18)	CHARACTER	8	DUA_SYSTEM_ DUMPCODE	
				Dump code
(20)	FULLWORD	4	DUA_SYS_ DUMPS_TAKEN	
				Global system dumps taken
(24)	FULLWORD	4	DUA_SYS_ DUMPS_SUPPRESSED	
				Global system dumps supp'sd
(28)	FULLWORD	4	DUA_TRAN_ DUMPS_TAKEN	
				Global tran dumps taken
(2C)	FULLWORD	4	DUA_TRAN_ DUMPS_SUPPRESSED	
				Global tran dumps supp'sd
(30)	CHARACTER	8	DUA_LAST_ RESET_TIME	
				Last stats reset time
(38)	UNSIGNED	4	DUA_MESSAGE_LEN	Message length
(3C)	ADDRESS	4	DUA_MESSAGE_PTR	Message address
(40)	UNSIGNED	4	DUA_TITLE_LEN	Title length
(44)	ADDRESS	4	DUA_TITLE_PTR	Title address
(48)	UNSIGNED	4	DUA_CALLER_LEN	Caller length
(4C)	ADDRESS	4	DUA_CALLER_PTR	Caller address
(50)	UNSIGNED	4	DUA_SSS_LEN	Short symptom string len
(54)	ADDRESS	4	DUA_SSS_PTR	Short symptom string addr
(58)	BIT(32)	4	*	Reserved
(5C)	FULLWORD	4	DUA_CSVDYNEX_RC	CSVDYNEX return code
(60)	FULLWORD	4	DUA_CSVDYNEX_ REASON	
				CSVDYNEX reason
(64)	CHARACTER	8	DUA_TRAN_DUMP_ID	Tran dump identifier
(6C)	CHARACTER	8	DUA_TRAN_ DUMP_LAST_ CLOSED_ID	

Table 121. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Tran dump id when data set was last closed
(74)	CHARACTER	8	DUA_XCFGROUP	Region XCFGroup Name
(7C)	CHARACTER	56	*	Reserved
(B4)	BIT(8)	1	DUA_FLAGS	Reserved
	1...		DUA_SDUMP_ IN_PROGRESS	
				SDUMP taking place
	.1..		DUA_TERMINATING	DU is terminating
	..1.		DUA_COLD_START	START=COLD in SIT
	...1		DUA_REMOTE_ DUMPS	Remote dumps available
	.... 1...		DUA_DUMP_ TABLE_INIT	
				Is DU Table ready?
	.... .1..		DUA_XDUMP_ IN_PROGRESS	
				Transaction dump taking place
	11		*	Reserved
(B5)	CHARACTER	3	*	
(B8)	CHARACTER	39	DUA_XD_AREA	Tran dump fields
(B8)	ADDRESS	4	DUIO_ENTRY_ POINT	Addr. DUIO routine
(BC)	ADDRESS	4	DATASET_ LOCK_TOKEN	
				XD dataset lock
(C0)	ADDRESS	4	OPENBLOK_PTR	-> XD dataset file cont.blk
(C4)	ADDRESS	4	DCB_PTR	-> XD dataset DCB
(C8)	ADDRESS	4	BUFFER_PTR	-> XD dataset buffer
(CC)	ADDRESS	4	CUR_RECORD_PTR	-> Current record in buffer
(D0)	ADDRESS	4	SM_ISOLATION_ TOKEN	
				Isolation token required on SWITCH_SUBSPACE calls
(D4)	FULLWORD	4	DDS_BUFFER_LEN	Current buffer size
(D8)	UNSIGNED	4	XD_ECB_ERROR	No XD dataset ECB errors

Table 121. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(DC)	BIT(8)	1	DUSU_REASON_ FLAGS	Work flags
	1...		X_OPEN_ERROR	Error found when attempting to open dump dataset - XDUOUT exit active
	.1..		X_PARTIAL	EOV on dump dataset and switching not active - XDUOUT exit active
	..1.		SU_DCB_EROR	DUSU error
	...1		X_NOT_OPEN	Dataset not open
	.... 1...		XD_MVCL_ERR	Set if we go into DUXWREC too often on the MVCL command in DFHDUXW
	.... .1..		X_AUTOSWITCH_ OVERRIDDEN	
				Both datasets are too small for the dump - XDUCLSE switching disabled
	11		*	Reserved
(DD)	BIT(8)	1	XD_FLAGS	Tran dump flags
	1...		SWITCH_IN_PROG	Autoswitch in progress
	.1..		OPEN_STATUS	XD dataset status
	..1.		DUXD_ACTIVE	Transaction dump active
	...1		XDUCLSE_ACTIVE	XD close exit active
	.... 1...		XDUOUT_ACTIVE	XD buffer write exit
	.... .1..		XDUREQ_ACTIVE	Dump request exit active
	.... ..1.		XDUREQC_ACTIVE	Dump request close exit active
	1		CLOSE_MSG	Used to prevent CLOSE msg from being issued more than once for a dump dataset. Set on - when dataset first closed. Set off when dataset opened
(DE)	UNSIGNED	1	DUXWREC_COUNT	Count of failures of MVCL for any 1 subfunction
(DF)	CHARACTER	1	*	

Table 121. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E0)	CHARACTER	40	DUCAT	Dump catalog record
`    Used for constructing dump_str in form run_no/dump_no`				
(108)	FULLWORD	4	DUA_DUMP_NO	Dump number
(10C)	CHARACTER	9	DUA_DUMP_STR	Run/dump string
`    Pointers for System Dump Table and Transaction Dump Table`				
(115)	CHARACTER	3	*	
(118)	ADDRESS	4	DUA_SDTBLOCKHEAD	-> SDT block header
(11C)	ADDRESS	4	DUA_TDTBLOCKHEAD	-> TDT block header
(120)	ADDRESS	4	DUA_SDTFREEHEAD	-> SDT free chain head
(124)	ADDRESS	4	DUA_TDTFREEHEAD	-> TDT free chain head
(128)	CHARACTER	8	DUA_SDTHEAD	
(128)	ADDRESS	4	DUA_SDTFIRST	-> First SDT element
(12C)	ADDRESS	4	DUA_SDTLAST	-> Last SDT element
(130)	CHARACTER	8	DUA_TDTHEAD	
(130)	ADDRESS	4	DUA_TDTFIRST	-> First TDT element
(134)	ADDRESS	4	DUA_TDTLAST	-> Last TDT element
`    Pointers for Browse Token Table (for browsing dump tables)`				
(138)	ADDRESS	4	DUA_BTTBLOCKHEAD	-> Browse table block header
(13C)	ADDRESS	4	DUA_BTTFREEHEAD	-> BTT free chain head
(140)	CHARACTER	8	DUA_BTTHEAD	
(140)	ADDRESS	4	DUA_BTTFIRST	-> First BTT element
(144)	ADDRESS	4	DUA_BTTLAST	-> Last BTT element
`    Pointer for dump statistics buffer`				
(148)	ADDRESS	4	DUA_STATS_ BUFFER_PTR	
				-> Dump statistics buffer
`    Lock tokens`				
(14C)	ADDRESS	4	DUA_SDMPLOCK_ TOKEN	System dump LMLM lock token
(150)	CHARACTER	8	*	Reserved
(158)	ADDRESS	4	DUA_TABLOCK_ TOKEN	Dump table LMLM lock token
(15C)	ADDRESS	4	DUA_FTLOCK_TOKEN	FT table LMLM lock token
`    Pointers for Feature Table`				
(160)	ADDRESS	4	DUA_FTBLOCKHEAD	-> FT block header
(164)	ADDRESS	4	DUA_FTFREEHEAD	-> FT free chain hd

Table 121. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(168)	CHARACTER	8	DUA_FTHEAD	
(168)	ADDRESS	4	DUA_FTFIRST	-> First FT element
(16C)	ADDRESS	4	DUA_FTLAST	-> Last FT element
Feature count				
(170)	UNSIGNED	2	DUA_FT_COUNT	Number of features
(172)	CHARACTER	0	*	

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

Table 122.

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

FTB - Block header for Feature table

Table 123.

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

BTB - Block header for Dump Table Browse Token Table

Table 124.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	BTB	
(0)	CHARACTER	20	BTB_PREFIX	Standard prefix
(0)	HALFWORD	2	BTB_LENGTH	Length of block

Table 124. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER	1	BTB_ARROW	'>'
(3)	CHARACTER	3	BTB_DFH	'DFH'
(6)	CHARACTER	2	BTB_DOMID	'DU'
(8)	CHARACTER	8	BTB_BLOCK_NAME	'BTTBLOCK'
(10)	ADDRESS	4	BTB_NEXT	-> Next Browse Table Block
(14)	CHARACTER	0	*	

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

Table 125.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	DTE	
(0)	ADDRESS	4	DTE_NEXT	-> Next DTE
(4)	ADDRESS	4	DTE_PREV	-> Previous DTE
(8)	CHARACTER	8	DTE_DUMPCODE	Tran dump code bytes 1-4 or system dump code bytes 1-8
(10)	UNSIGNED	1	DTE_DUMPSCOPE	Scope of the dump. RELATED or LOCAL
(11)	UNSIGNED	1	DTE_TRANSACTION_DUMP	
				Tran dump reqd
(12)	UNSIGNED	1	DTE_SYSTEM_DUMP	System dump reqd
(13)	UNSIGNED	1	DTE_TERMINATE_CICS	Terminate CICS reqd
(14)	FULLWORD	4	DTE_MAXIMUM_DUMPS	Only take this number
(18)	FULLWORD	4	DTE_COUNT	Number of dump calls
(1C)	FULLWORD	4	DTE_TRAN_DUMPS_TAKEN	
				Number of tran dumps taken
(20)	FULLWORD	4	DTE_TRAN_DUMPS_SUPPRESSED	
				Number of tran dumps suppressed
(24)	FULLWORD	4	DTE_SYS_DUMPS_TAKEN	
				Number of system dumps taken
(28)	FULLWORD	4	DTE_SYS_DUMPS_SUPPRESSED	

Offset Hex	Type	Len	Name (dim)	Description
				Number of system dumps suppressed
(2C)	UNSIGNED	1	DTE_DAEOPT	PASS SYMPTOM
RECORD ONTO DFHDUSVC				
(2D)	CHARACTER	3	*	

FTE - Feature table element.

Table 126.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	124	FTE	
(0)	ADDRESS	4	FTE_NEXT	-> Next FTE
(4)	ADDRESS	4	FTE_PREV	-> Previous FTE
(8)	CHARACTER	8	FTE_FEATURE_ TOKEN	
(10)	CHARACTER	2	FTE_STATUS	Register?
(12)	CHARACTER	30	FTE_COMPANY_NAME	
(30)	CHARACTER	30	FTE_FEATURE_NAME	
(4E)	CHARACTER	10	FTE_FEATURE_ LEVEL	
(58)	CHARACTER	8	FTE_DUMP_ FORMATTING_ ROUTINE	
(60)	CHARACTER	8	FTE_TRACE_ FORMATTING_ ROUTINE	
(68)	CHARACTER	9	FTE_TRACE_ ABBREVIATED_NAME	
(71)	CHARACTER	1	*	
(72)	UNSIGNED	2	FTE_COUNT	
(74)	CHARACTER	8	FTE_FEATURE_ TRACE_TOKEN	
(7C)	CHARACTER	0	*	

BTE - Browse Table element for Browse Token Table.

Table 127.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	BTE	
(0)	ADDRESS	4	BTE_NEXT	-> Next DTE
(4)	ADDRESS	4	BTE_PREV	-> Previous DTE
(8)	ADDRESS	4	BTE_TOKEN	-> BTE_DUMPCODE
(C)	CHARACTER	8	BTE_DUMPCODE	Tran dump code bytes 1-4 or system dump code bytes 1-8

Table 127. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	FULLWORD	4	*	Reserved
(18)	FULLWORD	4	*	Reserved
(1C)	FULLWORD	4	*	Reserved
(20)	CHARACTER	0	*	

Definition of catalog record for dump

Table 128.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	CC_DU_STATE	
(0)	FULLWORD	4	DUA_RUN_NO	Dump ID
(4)	CHARACTER	8	CURRENT_DDS	Current tran dumpds
(4)	CHARACTER	6	*	'DFHDMP'
(A)	CHARACTER	1	DDS_SUFFIX	'A' or 'B'
(B)	CHARACTER	1	*	' '
(C)	BIT(8)	1	ST_FLAGS	Status flags
	1...		AUTOSWITCH	Autoswitch active
	.1..		GL_SYS_SUP	Global system dump suppression
	..1.		DUA_DAE_DEFAULT	1=DAE
	...1 1111		*	Reserved
(D)	BIT(8)	1	INITIAL_DDS	Initial dumpds flag
	1...		DFHDMPA_INITIAL	DFHDMPA selected
	.1..		DFHDMPB_INITIAL	DFHDMPB selected
	..1.		AUTO_INITIAL	Either selected
	...1 1111		*	Reserved
(E)	HALFWORD	2	DUA_RETRY_TIME	SDUMP retry
Default size and type for Transaction Dump trace				
(10)	FULLWORD	4	DUA_DUMP_ TRACE_SIZE	
				Length
of dump trace requested via SIT				
(14)	BIT(8)	1	DUA_DUMP_ TRACE_FLAG	
	1...		DUA_DUMP_ TRACE_TYPE	
				1 = ALL 0 = TRAN
	.111 1111		*	
(15)	CHARACTER	3	*	Reserved
Defaults for dump table				
(18)	FULLWORD	4	DUA_TRDUMAX_ DEFAULT	

Table 128. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	FULLWORD	4	DUA_SYDUMAX_ DEFAULT	
(20)	CHARACTER	8	*	Reserved

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

Table 129.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	160	XFINTER	
(0)	ADDRESS	4	CSA_PTR	CSA address
(4)	ADDRESS	4	TCA_PTR	TCA address
(8)	ADDRESS	4	DUDD_PLIST	DUDU plist address
(C)	CHARACTER	64	REGSAVE	Saved registers
(4C)	CHARACTER	16	PSWSAVE	Saved associated PSW
(4C)	CHARACTER	4	*	
(50)	CHARACTER	4	PSWSAVE2	Saved PSW address
(54)	CHARACTER	8	*	
(5C)	BIT(8)	1	ABEND_FLAGS	Abend flags #1
	1...		ASRA	'ASRA' abend
	.1..		ASRB	'ASRB' abend
	..1.		AICA	'AICA' abend
	...1		ASRD	'ASRD' abend
	.... 1...		ASRE	'ASRE' abend
	.... .111		*	Reserved
(5D)	BIT(8)	1	*	
	1...		PROG_CHK	Premature termination
	.1..		REMOTE_ABEND	DPL remote abend
	..1.		SUBSPACE_ACT	subspace or base?
	...1 1111		*	Reserved
(5E)	CHARACTER	2	*	Alignment
The following fields are used by DFHXRXDF				
(60)	ADDRESS	4	XRF_DUXW	Addr. DUXW plist
(64)	ADDRESS	4	XRF_PTR	Parameter address
(68)	CHARACTER	4	ABEND_SYSID	SYSID from which the remote DPL abend was received
--- TRACE TABLE VALUES USED IN DFHTRXDF ---				
(6C)	FULLWORD	4	COPY_TAB_LEN	ACTUAL LENGTH

Table 129. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(70)	ADDRESS	8	COPY_TAB_PTR	ADDR OF COPY TABLE
(78)	FULLWORD	4	COPY_TAB_ SEGMENTS	LENGTH IN 1M SEGMENTS
(7C)	UNSIGNED	1	TRACE_FLAGS	
	1...		NEW_TAB_WRAP	WRAPPED YET FLAG
	.1..		ANY_RELEVANT	ANY RELEVANT YET
	..11 1111		*	
(7D)	CHARACTER	3	*	

	`---------------------------------------------------------`
	`  USED FOR THE MAPPING OF THE ENTRIES FROM ORIGINAL TABLE`
	`---------------------------------------------------------`			

(80)	ADDRESS	8	NEW_TAB_PTR	
	`        PTR TO CURRENT BLOCK IN NEW`			
(88)	ADDRESS	8	NEW_TAB_BASE	
	`        PTR TO BASE OF NEW TABLE`			
(90)	ADDRESS	8	NEW_END_PTR	
	`        PTR TO FIRST BYTE PAST TABLE`			
(98)	FULLWORD	4	NEW_TAB_SIZE	ACTUAL LEN NEW TAB ROUNDED
(9C)	UNSIGNED	4	IARV64_RETCODE	Retcode from trc table getstor *

```
The following block contains the data areas which are associatd
with the dump dataset DCB. It is allocated when the dataset is
opened, and freed when either an explicit close is issued or
the end of the current dataset is reached, and autoswitching
is not enabled. The address of this block is in the dump domain
anchor block.
The elements which are contained in this block are as follows:-
 - ECB to be used with all I/O
 - DCB for the dump dataset
 - Write list expansion used with all MVS macros against the
   dataset.
 - I/O buffer
     THE BLOCK RESIDES BELOW THE 16M LINE
```

Table 130.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	OPEN_BLOCK	
(0)	UNSIGNED	2	LEN	Total length of block
(2)	CHARACTER	6	OB_CON1	'>DFHDU'
(8)	CHARACTER	8	OB_CON2	'OPENBLOK'
(10)	ADDRESS	4	POINT_PTR	Used with NOTE/POINT

Table 130. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	ADDRESS	4	DSET_TRLR_PTR	Addr. dataset trailer recd.
(18)	ADDRESS	4	ECB_PTR	-> ECB
(1C)	ADDRESS	4	OB_DCB_PTR	-> DCB
(20)	ADDRESS	4	WL_PTR	-> Remote parm list
(24)	ADDRESS	4	BSAM_RSA_PTR	-> RSA below 16M
(28)	CHARACTER	0	DATA_START	Dummy

```
ECB
```

Table 131.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	ECB	
(0)	BIT(8)	1	CON1	X'00'
(1)	BIT(24)	3	CON1A	X'00'
(4)	BIT(8)	1	CON2	X'00'
(5)	BIT(8)	1	CON3	X'20'
(6)	UNSIGNED	2	DCECBIOL	Length
(8)	ADDRESS	4	DCDCB	-> DCB
(C)	ADDRESS	4	DCECBIOA	-> Buffer
(10)	UNSIGNED	4	CON4	X'00'

```
Remote parameter list
```

Table 132.

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

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

Table 133.

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

Constants

Table 134.

Len	Type	value	Name	Description
Meanings of XD_FLAGS.SWITCH_IN_PROG				
0	BIT	1	SWITCH_IN_PROG_YES	
0	BIT	0	SWITCH_IN_PROG_NO	

Table 134. (continued)

Len	Type	value	Name	Description
Meanings of XD_FLAGS.DUXD_ACTIVE				
0	BIT	1	DUXD_ACTIVE_YES	
0	BIT	0	DUXD_ACTIVE_NO	
Meanings of XD_FLAGS.XDUCLSE_ACTIVE				
0	BIT	1	XDUCLSE_ACTIVE_YES	
0	BIT	0	XDUCLSE_ACTIVE_NO	
Meanings of XD_FLAGS.XDUOUT_ACTIVE				
0	BIT	1	XDUOUT_ACTIVE_YES	
0	BIT	0	XDUOUT_ACTIVE_NO	
Meanings of XD_FLAGS.XDUREQ_ACTIVE				
0	BIT	1	XDUREQ_ACTIVE_YES	
0	BIT	0	XDUREQ_ACTIVE_NO	
Meanings of XD_FLAGS.OPEN_STATUS				
0	BIT	1	XD_OPEN	
0	BIT	0	XD_CLOSED	
0	BIT	0	DUMP_TRACE_TRAN	
0	BIT	1	DUMP_TRACE_ALL	
%DCL FMODN CHAR EXTERNAL General Constants				
0	BIT	1	YES	
0	BIT	0	NO	
The following values are passed to XDUOUT, as the first parm				
1	HEX	00	XDUOUT_XD_ACT	
1	HEX	04	XDUOUT_XD_RESTART	
1	HEX	08	XDUOUT_XD_ABTERM	
1	HEX	0C	XDUOUT_XD_INACT	
Block names for above.				
8	CHARACTER	SDTBLOCK	SDTBLOCK_NAME	
8	CHARACTER	TDTBLOCK	TDTBLOCK_NAME	
8	CHARACTER	BTTBLOCK	BTTBLOCK_NAME	
8	CHARACTER	FTBLOCK	FTBLOCK_NAME	
2	CHARACTER	RE	FT_REGISTERED	
2	CHARACTER	DE	FT_DEREGISTERED	
Constants for DTE_DUMPSCOPE				
1	DECIMAL	1	DTE_LOCAL	
Dump local address space				
1	DECIMAL	2	DTE_RELATED	
Miscellaneous constants.				

Table 134. (continued)

Len	Type	value	Name	Description
1	CHARACTER	>	ARROW	
4	DECIMAL	16	BDY16	
4	HEX	FFFFFFF0	BDY16ROUND	
1	DECIMAL	2	MAX_DUXWREC_COUNT	
Sizes of quickcell blocks				
4	DECIMAL	4096	DTEBLOCK_SIZE	Size of dump table block
4	DECIMAL	512	BTEBLOCK_SIZE	Size of browse table block
4	DECIMAL	4096	FTE_BLOCK_SIZE	Size of FT table block
Size of buffer for Dump code statistics				
4	DECIMAL	1024	STATS_BUFFER_SIZE	Size of stats buffer
Dump dataset record id's.				
4	DECIMAL	1	DUID_DUMP_HEADER	
4	DECIMAL	2	DUID_DUA	
Dump record names.				
8	CHARACTER	DUA	DUNM_DUA	
DUDM trace point ids				
2	HEX	0001	TPID_DUDM_ENTER	
2	HEX	0002	TPID_DUDM_EXIT	
2	HEX	0003	TPID_DUDM_INVALID	
2	HEX	0004	TPID_DUDM_RECOV	
2	HEX	0007	TPID_DUDM_LOADFAIL	
2	HEX	0008	TPID_DUDM_ GMAIN_DUA	
2	HEX	0009	TPID_DUDM_ GMAIN_DUA_RET	
2	HEX	000A	TPID_DUDM_ GMAIN_SDT	
2	HEX	000B	TPID_DUDM_ GMAIN_SDT_RET	
2	HEX	000C	TPID_DUDM_ GMAIN_TDT	
2	HEX	000D	TPID_DUDM_ GMAIN_TDT_RET	
2	HEX	000E	TPID_DUDM_ GMAIN_STATS_BUF	
2	HEX	000F	TPID_DUDM_ GMAIN_STATS_BUF_ RET	
				*
DUDU trace point ids				

Table 134. (continued)

Len	Type	value	Name	Description
2	HEX	0101	TPID_DUDU_ENTER	
2	HEX	0102	TPID_DUDU_EXIT	
2	HEX	0103	TPID_DUDU_INVALID	
2	HEX	0104	TPID_DUDU_RECOV	
2	HEX	0105	TPID_DUDU_ DUMP_TABLE_NOT_ INIT	
	DUSR trace point ids			
2	HEX	0301	TPID_DUSR_ENTER	
2	HEX	0302	TPID_DUSR_EXIT	
2	HEX	0304	TPID_DUSR_RECOV	
2	HEX	0305	TPID_DUSR_ DFHDUMPX_ADD_FAILED	
	DUDT trace point ids			
2	HEX	0500	TPID_DUDT_ENTER	
2	HEX	0501	TPID_DUDT_EXIT	
2	HEX	0502	TPID_DUDT_RECOV	
2	HEX	0503	TPID_DUDT_ INVAL_FORMAT	
2	HEX	0504	TPID_DUDT_ INVAL_DT_FUNCTION	
2	HEX	0505	TPID_DUDT_ INVAL_ST_FUNCTION	
	DUTM trace point ids			
2	HEX	0600	TPID_DUTM_ENTER	
2	HEX	0601	TPID_DUTM_EXIT	
2	HEX	0602	TPID_DUTM_RECOV	
2	HEX	0603	TPID_DUTM_ INVAL_FORMAT	
2	HEX	0604	TPID_DUTM_ INVAL_TM_FUNCTION	
2	HEX	0605	TPID_DUTM_ INVAL_ST_FUNCTION	
2	HEX	0606	TPID_DUTM_ INVAL_GETN_BT	
2	HEX	0607	TPID_DUTM_ INVAL_ENDBR_BT	
2	HEX	0608	TPID_DUTM_ INVALID_ST_TYPE	
2	HEX	0609	TPID_DUTM_ GMAIN_BTT	
2	HEX	060A	TPID_DUTM_ GMAIN_BTT_RET	

Table 134. (continued)

Len	Type	value	Name	Description
2	HEX	060B	TPID_DUTM_ GMAIN_SDT	
2	HEX	060C	TPID_DUTM_ GMAIN_SDT_RET	
2	HEX	060D	TPID_DUTM_ GMAIN_TDT	
2	HEX	060E	TPID_DUTM_ GMAIN_TDT_RET	
2	HEX	060F	TPID_DUTM_ BTT_NOSTOR	
2	HEX	0610	TPID_DUTM_ SDT_NOSTOR	
2	HEX	0611	TPID_DUTM_ TDT_NOSTOR	
DUIO trace point ids				
2	HEX	0200	DUIO_ENTRY	
2	HEX	0201	DUIO_EXIT	
2	HEX	0202	DUIO_RECOVERY	
2	HEX	0203	DUIO_DOPEN	
2	HEX	0204	DUIO_DOPEN_RET	
2	HEX	0205	DUIO_DEVTYPE	
2	HEX	0206	DUIO_DEVTYPE_RET	
2	HEX	0207	DUIO_GMAIN	
2	HEX	0208	DUIO_GMAIN_RET	
2	HEX	0209	DUIO_FRMAIN	
2	HEX	020A	DUIO_FRMAIN_RET	
2	HEX	020B	DUIO_CLOSED	
2	HEX	020C	DUIO_CLOSED_RET	
2	HEX	020D	DUIO_FRPOOL	
2	HEX	020E	DUIO_FRPOOL_RET	
2	HEX	020F	DUIO_DWRITE	
2	HEX	0210	DUIO_DWRITE_RET	
2	HEX	0211	DUIO_CHK	
2	HEX	0212	DUIO_CHK_RET	
2	HEX	0214	DUIO_DCB_ABEND	
2	HEX	0239	DUIO_NOTE	
2	HEX	0240	DUIO_NOTERET	
2	HEX	0241	DUIO_POINT	
2	HEX	0242	DUIO_POINTRET	
DUSU trace point ids				

Table 134. (continued)

Len	Type	value	Name	Description
2	HEX	0215	DUSU_ENTRY	
2	HEX	0216	DUSU_EXIT	
2	HEX	0217	DUSU_RECOVERY	
2	HEX	0250	DUSU_DYNALLOC_ ENTER	
2	HEX	0251	DUSU_DYNALLOC_ RETURN	
2	HEX	0252	DUSU_FRMAIN	
2	HEX	0253	DUSU_FRMAIN_RET	
DUXD trace point ids				
2	HEX	0218	DUXD_ENTRY	
2	HEX	0219	DUXD_EXIT	
2	HEX	021A	DUXD_RECOVERY	
DUXW trace point ids				
2	HEX	021B	DUXW_ENTRY	
2	HEX	021C	DUXW_EXIT	
2	HEX	021D	DUXW_RECOVERY	
XDF transaction dump formatter trace point ids				
2	HEX	021E	DLXDF_ENTRY	
2	HEX	021F	DLXDF_EXIT	
2	HEX	0220	DLXDF_RECOVERY	
2	HEX	0221	XRXDF_ENTRY	
2	HEX	0222	XRXDF_EXIT	
2	HEX	0223	XRXDF_RECOVERY	
2	HEX	0224	TCXDF_ENTRY	
2	HEX	0225	TCXDF_EXIT	
2	HEX	0226	TCXDF_RECOVERY	
2	HEX	0227	PCXDF_ENTRY	
2	HEX	0228	PCXDF_EXIT	
2	HEX	0229	PCXDF_RECOVERY	
2	HEX	022A	SAXDF_ENTRY	
2	HEX	022B	SAXDF_EXIT	
2	HEX	022C	SAXDF_RECOVERY	
2	HEX	022D	FCXDF_ENTRY	
2	HEX	022E	FCXDF_EXIT	
2	HEX	022F	FCXDF_RECOVERY	
2	HEX	0230	TRXDF_ENTRY	
2	HEX	0231	TRXDF_EXIT	

Table 134. (continued)

Len	Type	value	Name	Description
2	HEX	0232	TRXDF_RECOVERY	
2	HEX	0257	TRXDF_IARV64_ FAILED	
2	HEX	0233	XDXDF_ENTRY	
2	HEX	0234	XDXDF_EXIT	
2	HEX	0235	XDXDF_RECOVERY	
2	HEX	0236	SMXDF_ENTRY	
2	HEX	0237	SMXDF_EXIT	
2	HEX	0238	SMXDF_RECOVERY	
2	HEX	0254	EJXDF_ENTRY	
2	HEX	0255	EJXDF_EXIT	
2	HEX	0256	EJXDF_RECOVERY	
DFHDUSVC dump authorized routines trace point ids				
2	HEX	0710	DUSVC_REMOTE_SDUMP	
2	HEX	0711	DUSVC_INVALID_ PROBDESC	
DFHDUMPX SDUMP exit trace point ids				
2	HEX	0720	DUMPX_ENTRY_ID	
2	HEX	0721	DUMPX_EXIT_ID	
2	HEX	0722	DUMPX_WLM_CALL	
2	HEX	0723	DUMPX_WLM_ERROR	
2	HEX	0724	DUMPX_WLM_RET	
2	HEX	1F01	TPID_DUFT_ENTER	
2	HEX	1F02	TPID_DUFT_EXIT	
2	HEX	1F03	TPID_DUFT_RECOV	
2	HEX	1F10	TPID_DUFT_GMAIN_FT	
2	HEX	1F11	TPID_DUFT_ GMAIN_FT_RET	
2	HEX	1FE1	TPID_DUFT_ FT_NOSTOR	
Dump catalog record constants				
0	BIT	1	AUTOSWITCH_ON	
0	BIT	0	AUTOSWITCH_OFF	
0	BIT	1	GL_SYS_SUP_ON	
0	BIT	0	GL_SYS_SUP_OFF	
I/O buffer area length				
4	DECIMAL	4096	MAXBUFF	Max buffer length
SPACING values used in conjunction with transaction dump rcds.				
1	DECIMAL	8	SPACE3	

Table 134. (continued)

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

DWE Deferred work element

```
CONTROL BLOCK NAME = DFHDWEDS
DESCRIPTIVE NAME  = CICS Deferred Work Element.
                 DEFERRED WORK ELEMENT
```

Table 135.

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

Table 135. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	BITSTRING	0	DWEPHS2	"X'20'" ...DWE APPLIES TO PHASE 2 OF SYNC POINT
(10)	BITSTRING	0	DWEDYNB	"X'08'" ...BEING DYNAMICALLY BACKED OUT
(10)	BITSTRING	0	DWEVTYES	"X'04'" ...VOTE 'YES' TO PREPARE
(10)	BITSTRING	0	DWECNLM	"X'02'" ...CANCELLED MASK
(10)	BITSTRING	0	DWEVTNO	"X'01'" ...'VOTE NO TO PREPARE'
(11)	BITSTRING	1	DWEMODFN	SERVICE MODULE FUNCTION CODE
			NOTE APPROPRIATE CODES ARE DEFINED IN A SEPARATE DSECT LABELED DFHFMIDS	
(12)	BITSTRING	1	DWESVMID	SERVICE MODULE IDENTIFIER
			NOTE APPROPRIATE CODES ARE DEFINED IN A SEPARATE DSECT LABELED DFHFMIDS	
(13)	BITSTRING	1	(5)	Reserved
(18)	ADDRESS	4	DWELXDA	EXTERNAL DATA ADDRESS
(1C)	ADDRESS	4	DWECMNEA (0)	END OF COMMON AREA
(1C)		0	DWEEXT	"*" DWE extensions
(1C)		0	DWEAD	"*-DFHDWEDS-8" ABSOLUTE DISPLACEMENT (GETMAIN) I.E. THE ABOVE IS DWE LEN
	SYSTEM SPOOLING DWE EXTENSION			
(1C)	HALFWORD	2	DWEPSRNM	REPORT-NUMBER
(1E)	CHARACTER	1	DWEPSRCV	RECOVERY CODE
(1F)	CHARACTER	1	DWEPSSTT	REPORT STATUS
(20)	CHARACTER	8	DWEPSTOK	REPORT TOKEN
(20)		0	DWEPSAD	"*-DFHDWEDS-8" PS DWE GETMAIN SIZE
	GENERAL PURPOSE SUBTASKING DWE EXTENSION			
(1C)	ADDRESS	4	DWESKWQE	ADDRESS OF WQE TO ADD TO
(1C)		0	DWESKAD	"*-DFHDWEDS-8" SK DWE GETMAIN SIZE

DBWMS XRF/DBCTL Last message sent

```
CONTROL BLOCK NAME = DFHDBWMS
DESCRIPTIVE NAME  = CICS XRF/DBCTL Last Message Sent
FUNCTION = Maps the XRF message for DBCTL
LIFETIME =
      Storage obtained by GETMAIN
LOCATION = CSA->OPFL->DLP->DGB->DXPS->DBWMS
INNER CONTROL BLOCKS = None
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
     Contained in PL/AS Copy Book DFHDXMAC
     Invoke by DXMSGPS NAME(qualifier)
        the qualifier is used to allow multiple copies of
        the message to be defined in the same program
        (rather than use of ->)
--------------------------------------------------------------
EXTERNAL REFERENCES = None
  DATA AREAS = Contains names and Ids of IMS job
  GLOBAL VARIABLES (Macro pass) = None
```

Table 136.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	78	DFHDBWMS_DXMSG	
	DECLARE THE DBCTL MESSAGE MAPPING			
(0)	CHARACTER	4	DXMSG_WMSDBCID	IMS ssid
(4)	CHARACTER	8	DXMSG_WMSRSENM	IMS RSE name
(C)	CHARACTER	8	DXMSG_WMSJNAME	IMS MVS jobname
(14)	CHARACTER	8	DXMSG_WMSJOBID	IMS Jes Jobid
(1C)	CHARACTER	4	DXMSG_WMSSMFID	MVS SMF id
(20)	CHARACTER	1	DXMSG_WMSSIND	MVS System Indicator
	1...		DXMSG_XCFA	XCF services available
	.111 1111		*	Reserved
(21)	CHARACTER	8	DXMSG_WMSSPLX	XCF syslex name
(29)	CHARACTER	8	DXMSG_WMSSNAM	XCF system name
(31)	CHARACTER	4	DXMSG_WMSSTOK	MVS system intance token
(35)	CHARACTER	4	DXMSG_WMSJESID	SSID of active JES
(3A)	HALFWORD	2	DXMSG_WMSASID	IMS MVS asid
(3C)	CHARACTER	1	DXMSG_WMSITYPE	IMS region type
(40)	FULLWORD	4	DXMSG_WMSUERC	User Exit Return Code
(44)	BIT(32)	4	DXMSG_WMSCTIME	IMS connect time
(48)	BIT(32)	4	DXMSG_WMSDTIME	IMS disconnect time
(4C)	CHARACTER	1	DXMSG_FLGS1	FLGS to show message type

Table 136. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		DXMSG_DBCF	DBCTL failure
	.1..		DXMSG_DRAF	DRA failure
	..1.		DXMSG_CON	Connection complete
	...1		DXMSG_CATCH	Catchup message
	.... 1...		DXMSG_DISC	Disconnection complete
	.... .1..		DXMSG_ERROR	Error in control tran / exit
	11		*	Filler for remainder of byte
(4D)	CHARACTER	1	DXMSG_FLGS2	FLGS to show active environment
	1...		DXMSG_MVSID	MVSid in active AXI
	.1..		DXMSG_APPLID	Active applid in AXI
	..1.		DXMSG_JES	Active CICS & IMS on same JES
	...1		DXMSG_ALT	Alternate found on active CEC
	.... 1...		DXMSG_CMD	CMD issued OK on active CEC
	.... .111		*	Filler for remainder of byte

Constants

Table 137.

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

DXPS XRF/DBCTL DGB Extension

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

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

Table 138.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	DFHDXPS	
(0)	ADDRESS	4	DXLSTMSG	Pointer to last DBCTL/XRF message
(4)	ADDRESS	4	DXSQHDR	Pointer to chain of MVS subtasks
(8)	ADDRESS	4	DXAXIBA	DFHAXI base address
(C)	ADDRESS	4	DXAXIGP	Pointer to current AXI group recd
(10)	ADDRESS	4	DXAXIPT	Pointer to current AXI record
(14)	ADDRESS	4	DXRTRCNT	Number of retry connect attempts
(18)	CHARACTER	4	DXDBCID	SSID of first connect attempt
(1C)	BIT(32)	4	DXFLGS1	Miscellaneous flags
	1...		AXI_LOADED	Reminder that AXI is to be del
	.1..		DBCTL_RST	Indicator that no DBCTL in RSE act
	..1.		DFS690SW	Indicator that DFS690 issued
	...1		*	Reserved
	.... 1...		RETCODE8	Code 8 returned by previous call
	.... .1..		DXEREFLG	Flag to indicate wait on DXEREECB
	11		*	Filler for remainder of byte
(20)	BIT(32)	4	DXEREECB	ECB cleared while ERE issued
(20)	BIT(8)	1	*	Reserved
(21)	BIT(12)	2	DXERECMP	ERE completion code Copy DXPS dsect

DXQEL XRF/DBCTL subtask storage

```
    CONTROL BLOCK NAME = DX_Q_ELEMENT
    DESCRIPTIVE NAME  = CICS XRF/DBCTL subtask storage
    FUNCTION =
    Defines the fields in an XRF/DBCTL subtask queue element
    LIFETIME =
    Storage obtained by GETMAIN
    LOCATION = CSA->OPFL->DLP->DGB->DXPS->DX_Q_ELEMENT
    INNER CONTROL BLOCKS = None
    NOTES :
```

```
              DEPENDENCIES = S/370
              RESTRICTIONS = None
              MODULE TYPE = Control block definition
                 Contained in PL/AS Copy Book DFHDXMAC
                 Invoke by DX_Q_ELE no operands
            ----------------------------------------------------------------
            EXTERNAL REFERENCES = None
              DATA AREAS = None
              GLOBAL VARIABLES (Macro pass) = None
```

Table 139.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DX_Q_ELEMENT	Queue of XRF/DBCTL subtasks
(0)	ADDRESS	4	DX_NEXT_Q	Address of next Q element
(4)	CHARACTER	8	DX_CB_ID	DX control block id
(C)	ADDRESS	4	DX_TCB	Ptr to TCB of attached subtask
(10)	BIT(32)	4	DX_FLGS1	DX flag bit settings ..
	1...		DX_LOCK	Lock on this Q element storage
	.1..		DETACHED	Use this bit to remember detach
(14)	BIT(32)	4	DX_EOT_ECB	End Of Task ECB for attached subtask
	1...		*	Reserved
	.1..		POSTED	Post bit within ECB
	..11 1111		*	Reserved
(15)	BIT(24)	3	DX_CC	Subtask completion code
(18)	ADDRESS	4	DX_EP_ADDR	Entry Point for attached subtask
(1C)	FULLWORD	4	DX_PARM_LEN	Parameter length for attached stask
(20)	CHARACTER	*	DX_PARMS	Parameters passed to attached

DXUEP CICS-DBCTL XRF User Exit Parameter List

```
            CONTROL BLOCK NAME = DFHDXUEP
            DESCRIPTIVE NAME  = CICS/MVS XRF support of DBCTL
               @BANNER_START 02
                              DFHDXUEP
               Licensed Materials - Property of IBM
               "Restricted Materials of IBM"
               5655-S97
               @BANNER_END
            FUNCTION =
             Defines the parameter list passed to the Global User Exits
             XXDFA,XXDFB, and XXDTO.
             This control block is built by programs DFHDBCT and DFHDBCR
             when a user decision is required on whether to perform an XRF
             takeover after a DBCTL failure, or a DBCTL takeover after a
             CICS failure.
```

```
              LIFETIME =
                      This control block is created in the lifo of DFHDBCT or
                      DFHDBCR to communicate with XXDFA,XXDFB or XXDTO the
                      control block is completely reinitialized every time one
                      of these exits is invoked.
              STORAGE CLASS =
                      LIFO
              LOCATION =
                      N/A
              INNER CONTROL BLOCKS =
                      N/A
              NOTES :
                 DEPENDENCIES = S/370
                 RESTRICTIONS =
                        None
                 MODULE TYPE = Control block definition
          ----------------------------------------------------------------
          EXTERNAL REFERENCES =
                      Identify referenced items defined outside this control
                      block. Such external references should be avoided.
                 DATA AREAS =
                     None
                 CONTROL BLOCKS =
                     None
                 GLOBAL VARIABLES (Macro pass) =
                     None
          -----------00---------------------------------------------------
```

Table 140.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHDXUEP	
(0)	CHARACTER	4	UEPDXADB	SSID of old active IMS
(4)	CHARACTER	4	UEPDXBDB	SSID of proposed alternate
(8)	CHARACTER	8	UEPDXSAD	CICS specific applid
(10)	CHARACTER	8	UEPDXRSE	IMS RSE name
(18)	CHARACTER	4	UEPDXCTM	IMS connect time
(1C)	CHARACTER	4	UEPDXDTM	IMS disconnect/abend time
(20)	CHARACTER	8	UEPDXJNM	Jes Jobname of old active IMS
(28)	CHARACTER	8	UEPDXJID	Jes Jobid of old active IMS
(30)	BITSTRING	1	UEPDXIRT	IMS region type
(30)	BITSTRING	0	DXHOTSBY	"X'01'" region type is hot standby
(30)	BITSTRING	0	DXDBDC	"X'02'" region type is IMS DB/DC
(30)	BITSTRING	0	DXDBCTL	"X'04'" region type is DBCTL
(31)	CHARACTER	4	UEPDXSMF	SMFID of active CEC
(35)	CHARACTER	4	UEPDXJES	Jes SSID of active CEC

Table 140. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3A)	HALFWORD	2	UEPDXASD	ASID of old active IMS
(3C)	FULLWORD	4	UEPDXRTC	Return code from XXDFA (XXDFB only)
(40)	FULLWORD	4	UEPDXATC (0)	Action code from XXDFA (XXDFB only)
(40)	BITSTRING	1	DXMVSID	Active IMS had SSID in AXI RSE
(41)	BITSTRING	1	DXAPPLID	Active CICS has Applid in AXI RSE
(42)	BITSTRING	1	DXEQJES	Active CICS on same JES as IMS
(43)	BITSTRING	1	DXALTFND	Alternate IMS fnd in active CEC
(44)	BITSTRING	1	DXCMDISS	Restart issued in active CEC
(45)	BITSTRING	1	UEPDXSND	MVS System Indicator
(45)	BITSTRING	0	DXXCFA	"X'80'" ...XCF services available
(46)	CHARACTER	8	UEPDXSPX	XCF sysplex name for active
(4E)	CHARACTER	8	UEPDXSNM	MVS system name for active
(56)	CHARACTER	4	UEPDXSTK	MVS System token for active

ECA Event control area

```
CONTROL BLOCK NAME = DFHECAPS
DESCRIPTIVE NAME  = CICS Event Control Area
 @BANNER_START 02
                    DFHECAPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
 The Event Control Area is used by interval control (DFHICP).
 The ECA is obtained for a POST type ICE.
 It contains the ECB. The ECA's are getmained from a
 subpool called APECA which resides below the line and has
 USER access. The ICETECAA field will contain the address
 of the ECA associated with an ICE. If there is no ECA for the
 ICE then ICETECAA is zero. Inline DFHSMGFI calls are made
 to get and free ECAs.
LIFETIME =
 The control block is created with a POST type ICE.
 The ECA is freed when the assoiated ICE is freed.
STORAGE CLASS =
 The storage class is APECA.
LOCATION =
 To locate an ECA use the ICETECAA field which contains the
 address of the ECA associated with the ICE. If the ICETECAA
```

```
             field equals zero then there is no ECA.
            INNER CONTROL BLOCKS = none
            NOTES :
             DEPENDENCIES = none
             RESTRICTIONS =
             MODULE TYPE = Control block definition
           ------------------------------------------------------------------
            EXTERNAL REFERENCES = none
              DATA AREAS = none
              CONTROL BLOCKS = none
              GLOBAL VARIABLES (Macro pass) = none
           ------------------------------------------------------------------
```

Table 141.

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

Constants

Table 142.

Len	Type	value	Name	Description
4	DECIMAL	4	ECA_LENGTH	Length ECA
4	HEX	40008000	ECA_POSTBIT	Post bits

ECCDS Capturespec Resource Statistics

```
            CONTROL BLOCK NAME = DFHECCDS
            DESCRIPTIVE NAME  = CICS Capturespec Resource Statistics
               @BANNER_START 02
                              DFHECCDS
            Licensed Materials - Property of IBM
            "Restricted Materials of IBM"
            5655-S97
            @BANNER_END
            FUNCTION =
                 This data area contains the capturespec resource statistics
                 provided by the EC component in the AP Domain.
                 It is provided for use in users monitoring applications
                 to map the statistics returned via the API or the
                 statistics global user exit.
                 There is a single instance of this data block.
            LIFETIME =
                 This data block is created by the AP Domain to store
                 statistics to be passed to the user in response to a
                 for capturespec resource statistics. The storage is
                 released when the user task is detached.
                 The DSECT also maps the contents of part of the SMF buffer
                 created by the statistics domain and is used in the
                 statistics exit.
            STORAGE CLASS =
            LOCATION =
                 The user is passed a pointer to the head of the storage
                 block.
            INNER CONTROL BLOCKS = None
            NOTES :
              DEPENDENCIES = S/370
              RESTRICTIONS = None
              MODULE TYPE = Control block definition
           ------------------------------------------------------------------
            EXTERNAL REFERENCES = None
```

```
        DATA AREAS = None
        CONTROL BLOCKS = None
        GLOBAL VARIABLES (Macro pass) = None
   ------------------------------------------------------------------
    ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHECCDS IS
    NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
    PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 143.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHECCDS	Capturespec Resource stats record
(0)	HALFWORD	2	ECCDS_LEN	Capturespec stats record length
(2)	ADDRESS	2	ECCDS_ID	Capturespec stats id
(4)	CHARACTER	1	ECCDS_VERS	Capturespec stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	32	ECC_EVENTBINDING_NAME	
				Eventbinding name
(28)	CHARACTER	32	ECC_CAPTURESPEC_NAME	
				Capturespec name
(48)	BITSTRING	2	ECC_CAPTURE_POINT_TYPE	
				Capturespec point type
(4A)	CHARACTER	25	ECC_CAPTURE_POINT	Capturespec capture point
(63)	BITSTRING	1		Reserved
(64)	CHARACTER	32	ECC_EVENT_NAME	Event name
(84)	BITSTRING	4		Reserved
(88)	SIGNED	8	ECC_EVENTS_CAPTURED	
				Total events captured
(90)	FULLWORD	4	ECC_CAPTURE_FAILURES	
				Number of capture failures
(94)	BITSTRING	8		Reserved
(94)		0	ECCDS_END	"*"
(94)		0	ECCDS_LENGTH	"*-ECCDS_LEN" Capturespec Resource record length
Constants that denote a Capturespec resource stats record				
(94)	SIGNED	0	ECCIDE	"143" Capturespec resource stats id
(94)	BITSTRING	0	ECC_VERS	"X'01'" Record version number

Table 143. (continued)

Offset Hex	Type	Len	Name (dim)	Description
The following values relates to ecc_capture_point_type				
(94)	SIGNED	0	ECC_PTYPE_ PRECOMMAND	
				"0001"
(94)	SIGNED	0	ECC_PTYPE_ POSTCOMMAND	
				"0002"
(94)	SIGNED	0	ECC_PTYPE_ PROGRAMINIT	
				"0003"
(94)	SIGNED	0	ECC_PTYPE_SYSTEM	"0004" !

ECGDS Eventbinding Global Statistics

```
CONTROL BLOCK NAME = DFHECGDS
DESCRIPTIVE NAME  = CICS Eventbinding Global Statistics
   @BANNER_START 02
                      DFHECGDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
        This data area contains the eventbinding global statistics
        provided by the EC component in the AP Domain.
        It is provided for use in users monitoring applications
        to map the statistics returned via the API or the
        statistics global user exit.
        There is a single instance of this data block.
LIFETIME =
        This data block is created by the AP Domain to store
        statistics to be passed to the user in response to a
        for eventbinding global statistics. The storage is
        released when the user task is detached.
        The DSECT also maps the contents of part of the SMF buffer
        created by the statistics domain and is used in the
        statistics exit.
STORAGE CLASS =
LOCATION =
        The user is passed a pointer to the head of the storage
        block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 ----------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHECGDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 144.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHECGDS	Eventbinding Global stats record

Table 144. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	ECGDS_LEN	Eventbinding stats record length
(2)	ADDRESS	2	ECGDS_ID	Eventbinding stats id
(4)	CHARACTER	1	ECGDS_VERS	Eventbinding stats version
(5)	CHARACTER	3		Reserved
(8)	SIGNED	8	ECG_EB_ EVENT_FILTER_OPS	
				Total event filtering operations
(10)	SIGNED	8	ECG_EB_ EVENTS_CAPTURED	
				Total events captured
(18)	FULLWORD	4	ECG_EB_ EVENTS_DISABLED	
				Events with disabled eventbinding
(1C)	FULLWORD	4		Reserved
(20)	SIGNED	8	ECG_SYS_ EVENTS_CAPTURED	
				Total system events captured
(28)	FULLWORD	4	ECG_FILTER_ OPS_FAILED	
				No. filter operations failed
(2C)	FULLWORD	4	ECG_CAPTURE_ OPS_FAILED	
				No. capture operations failed
(30)	FULLWORD	4	ECG_EVENTS_ LOST_CONFIG	
				Retired - do not reuse
(34)	FULLWORD	4	ECG_EVENTS_ LOST_OTHER	
				Retired - do not reuse
(38)	BITSTRING	16		Reserved
(38)		0	ECGDS_END	"*"
(38)		0	ECGDS_LENGTH	"*-ECGDS_LEN" Eventbinding Global record length
Constants that denote a Eventbinding global stats record				
(38)	SIGNED	0	ECGIDE	"140" Eventbinding global stats id
(38)	BITSTRING	0	ECG_VERS	"X'01'" Record version number

ECRDS Eventbinding Resource Statistics

```
CONTROL BLOCK NAME = DFHECRDS
DESCRIPTIVE NAME  = CICS Eventbinding Resource Statistics
   @BANNER_START 02

                      DFHECRDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This data area contains the eventbinding resource statistics
      provided by the EC component in the AP Domain.
      It is provided for use in users monitoring applications
      to map the statistics returned via the API or the
      statistics global user exit.
      There is a single instance of this data block.
LIFETIME =
      This data block is created by the AP Domain to store
      statistics to be passed to the user in response to a
      for eventprocess resource statistics. The storage is
      released when the user task is detached.
      The DSECT also maps the contents of part of the SMF buffer
      created by the statistics domain and is used in the
      statistics exit.
STORAGE CLASS =
LOCATION =
      The user is passed a pointer to the head of the storage
      block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
   -----------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHECRDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 145.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHECRDS	Eventbinding Resource stats record
(0)	HALFWORD	2	ECRDS_LEN	Eventbinding stats record length
(2)	ADDRESS	2	ECRDS_ID	Eventbinding stats id
(4)	CHARACTER	1	ECRDS_VERS	Eventbinding stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	32	ECR_EVENTBINDING_ NAME	
				Eventbinding name
(28)	BITSTRING	8		Reserved
(30)	FULLWORD	4		Reserved
(34)	FULLWORD	4		Reserved

Table 145. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	CHARACTER	32	ECR_EPADAPTER_ NAME	EP adapter name
(58)	CHARACTER	8	ECR_EB_ DEFINE_SOURCE	
				Group installed from
(60)	BITSTRING	8	ECR_EB_ CHANGE_TIME	Change/create time
(68)	CHARACTER	8	ECR_EB_ CHANGE_USERID	
				Change userid
(70)	BITSTRING	2	ECR_EB_ CHANGE_AGENT	
				Change agent
(72)	BITSTRING	2	ECR_EB_ INSTALL_AGENT	
				Install agent
(74)	BITSTRING	8	ECR_EB_ INSTALL_TIME	
				Install/Create time
(7C)	CHARACTER	8	ECR_EB_ INSTALL_USERID	
				Install userid
(7C)		0	ECRDS_END	"*"
(7C)		0	ECRDS_LENGTH	"*-ECRDS_LEN" Eventbinding Resource record length
Constants that denote a Eventbinding resource stats record				
(7C)	SIGNED	0	ECRIDE	"141" Eventbinding resource stats id
(7C)	BITSTRING	0	ECR_VERS	"X'01'" Record version number Change Agents
(7C)	SIGNED	0	ECR_CSDAPI_ CHANGE	"0001" CSD API
(7C)	SIGNED	0	ECR_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(7C)	SIGNED	0	ECR_DREPAPI_ CHANGE	"0003" DREP API
(7C)	SIGNED	0	ECR_CREATE_ CHANGE	"0004" EXEC CREATE SPI Install Agents
(7C)	SIGNED	0	ECR_BUNDLE_ INSTALL	"0009" BUNDLE

EDF EDF Communication area

```
CONTROL BLOCK NAME = DFHEDFDS
DESCRIPTIVE NAME  = CICS EDF Debug Linkage Area
  @BANNER_START 02

                      DFHEDFDS
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION =
  This DSECT describes the user task data that is used by EDF
  to display the status information, etc.
  It is obtained in DFHEDFX for each EDF call. It is then
  filled with data describing the user transaction state.
  It is passed to the EDF task as an ATTACH parm, and is used
  by the attached EDF task. The storage is freed in DFHEDFX
  when the user task is resumed.
  Dummy change for PQ58342
```

Table 146.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHEDFDS	
(0)	FULLWORD	4	EDFUEIA	TCTTE EXEC INTERFACE ADDR
(4)	FULLWORD	4	EDFUTCA	ADDRESS OF USER'S TCA
(8)	FULLWORD	4	EDFUR1	ADDRESS OF USER PARM LIST
(C)	FULLWORD	4	EDFUEISP	ADDRESS OF USER'S EIS
(10)	FULLWORD	4	EDFUEIBP	ADDRESS OF USER'S EIB EDF TASK MANAGEMENT INFO
(14)	BITSTRING	1	EDFXA	TASK SWITCH ATTRIBUTE
(14)	BITSTRING	0	EDFLINK	"X'FF'" CEDF ATTACHED TO LINK EDFD
(14)	BITSTRING	0	EDFSTRT	"X'FE'" CEDF ATTACHED TO START CEDF DEBUG MODE INFO
(15)	BITSTRING	1	EDFCTL1	COPY OF EISEDFDM REQUEST BYTE INFO
(16)	BITSTRING	1	EDFCTL2	COPY OF EISEDFRB EDF CONTROL INFO
(17)	BITSTRING	1	EDFCTL3	EDF CONTROL BITS
(17)	BITSTRING	0	EDFOUTD	"X'80'" DISP=OUT FOR PAGE BUILD
(17)	BITSTRING	0	EDFDBCNT	"X'40'" EDF DEBUG MODE CONTINUES

Table 146. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(17)	BITSTRING	0	EDFIVPS	"X'20'" INVALID PAGE SIZE
(17)	BITSTRING	0	EDFUTPG	"X'10'" USER TASK HAS BEEN PURGED
(17)	BITSTRING	0	EDFPAGD	"X'08'" DISP=PAGING FOR BMS
(17)	BITSTRING	0	EDFDTMOK	"X'04'" EDFD TERMINATED CORRECTLY
(17)	BITSTRING	0	EDFSECV	"X'02'" SECURITY VIOLATION
(18)	BITSTRING	1	EDFCTL4	USER LANGUAGE INFO
(19)	BITSTRING	1	EDFTOS	BIT PATTERN=OUT OF SERVICE
(19)	BITSTRING	0	EDFNIS	"X'02'" TERMERR RECEIVED
(1A)	BITSTRING	1		RESERVED
(1B)	CHARACTER	1	EDFOPSYS	OPERATING SYS FROM CSAOPSYS
(1C)	FULLWORD	4	EDFUASTG	ADDRESS OF USER'S AUTO STG
(20)	FULLWORD	4	EDFURE	USER'S RETURN REGISTER
(24)	FULLWORD	4	EDFUCDB	USER'S CODE BASE
(28)	CHARACTER	8	EDFPGMID	USER'S PROGRAM NAME
(30)	BITSTRING	1	EDFENV	Current Environment
(30)	BITSTRING	0	EDFURM	"X'80'" URM
(31)	BITSTRING	2		Reserved FILE CONTROL INFO
(33)	BITSTRING	1	EDFFCRF	FILE CONTROL RECORD FORMAT
(33)	BITSTRING	0	EDFFCF	"X'80'" FC FIXED FORMAT
(33)	BITSTRING	0	EDFFCV	"X'40'" FC VARYING FORMAT
(33)	BITSTRING	0	EDFBDAM	"X'20'" FC ACCESS METHOD=BDAM
(33)	BITSTRING	0	EDFVSAM	"X'10'" FC ACCESS METHOD=VSAM
(33)	BITSTRING	0	EDFISAM	"X'08'" FC ACCESS METHOD=ISAM
(34)	HALFWORD	2	EDFFCRL	FILE CONTROL RECORD LENGTH
(36)	BITSTRING	1	EDFFCKL	FILE CONTROL KEY LENGTH

Table 146. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(37)	BITSTRING	1	EDFUTCTR	User's send/receive flags
(38)	FULLWORD	4	EDFABRA	ADDRESS of EDF ABEND info
(3C)	FULLWORD	4	EDFUACP	ADDR OF USER ABCODE SLOT
(40)	FULLWORD	4	EDFACP	ADDR OF EDF ABCODE SLOT
(44)	FULLWORD	4	EDFURSAP	ADDRESS OF USER REGISTERS
(48)	FULLWORD	4	EDFPLBA	PARTITION LOWER BOUND ADDR
(4C)	FULLWORD	4	EDFPUBA	PARTITION UPPER BOUND ADDR
(50)	FULLWORD	4	EDFUTCTA	USER'S TCTTE ADDRESS
(54)	CHARACTER	4	EDFUQTID	USER'S TERMID/TRANID
(58)	FULLWORD	4	EDFUARSA	ADDR OF USER RSA
(5C)	HALFWORD	2	EDFUTRTO	READ TIMEOUT VALUE
(5E)	HALFWORD	2	EDFCALEN	USER'S EIBCALEN
(60)	FULLWORD	4	EDFCOMAA	USER'S COMMAREA ADDR
(64)	FULLWORD	4	EDFUTEDA	COPY OF TCTTEDA AS SET FOR APPLICATION REQUESTS
(68)	FULLWORD	4	EDFUEIEX	COPY OF TCTEEIEX AS SET FOR APPLICATION REQUESTS
(6C)	FULLWORD	4	EDFPGMLN	PROGRAM LENGTH
(70)	FULLWORD	4	EDFTSADR	TERM. STATUS FIELD ADDR
(74)	FULLWORD	4	EDFMSA	MODULE START ADDRESS
(78)	FULLWORD	4	EDFUR1SA	ADDRESS OF EISEIPR1 (USED AND SET BY DFHEDFCC)
(7C)	FULLWORD	4	EDFUEILR	COPY OF TCTEEILR AS SET FOR APPLICATION REQUESTS
(80)	FULLWORD	4		Reserved

Table 146. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)	CHARACTER	4	EDFSYST	sysid from which remote DPL abend was received
(88)	FULLWORD	4	EDF_USRTASK_ SUSPTOK	
				User task suspend token
(8C)	FULLWORD	4	EDFSECCL	Security switch routine
(90)	ADDRESS	4	EDF_APPL_ STATIC_STG_PTR	
				User program's static storage
(94)	ADDRESS	4	EDF_APPL_ STATIC_STG_LEN	
				User's static storage length
(98)	CHARACTER	8	EDFPSW	PSW
(A0)	CHARACTER	8	EDFINT	INTERRUPT INFORMATION
(A8)	CHARACTER	2	EDFUEIDL	COPY OF TCTEEIDL AS SET FOR APPLICATION REQUESTS
(AA)	BITSTRING	1	EDFUOPT2	SAVE TCTEOPT2
(AB)	BITSTRING	1	EDFUJSA	Save TCTEJSA
(AC)	FULLWORD	4	EDFWSLN	LENGTH OF WORKING STORAGE
(B0)		4	EDFUTXNO	User task's transaction number
(B4)	FULLWORD	4	EDFERMSA	NEW ERM EDF INTERFACE
(B8)	FULLWORD	4	EDFSITOD	IPL TIME OF DAY IN SECONDS
(BC)	CHARACTER	4	EDFUTXID	User's transaction id
(C0)	BITSTRING	1	EDFCTL5	FLAG BYTE INDICATING NEW ERM IFC
(C0)	BITSTRING	0	EDFSTKCM	"X'04'" Command from user exit
(C1)	BITSTRING	1	EDFCTL6	flag byte
(C1)	BITSTRING	0	EDFRABND	"X'80'" DPL remote abend indicator
(C1)	BITSTRING	0	EDFRPEND	"X'40'" User task suspended, pending RESUME

Table 146. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C2)	HALFWORD	2	EDFSTKC	Programs EDF stack level
(C4)	FULLWORD	4	EDFTCAAD	1st EDF Task's TCA address
(C8)	FULLWORD	4	(0)	
(C8)	CHARACTER	64	EDFREGS (0)	
(C8)	FULLWORD	4	(16)	GP registers 0-15 at abend
-- The DLA_USAGE fields are flags to identify those tasks which have need of the Debug Linkage Area. The DLA can only be freed when all of the tasks have relinquished ownership. --				
(108)	CHARACTER	8	EDF_DLA_USAGE (0)	Area controlling DLA
(108)		4	EDF_DLA_ USER_TASK_USE	
				Task running DFHEDFX
(10C)		4	EDF_DLA_ CEDF_TASK_USE	
				CEDF running EDFP/EDFD
(10C)		0	EDFDSLEN	"*-DFHEDFDS" LENGTH OF DFHEDFDS

EIB EXEC interface block

```
            CONTROL BLOCK NAME = DFHEIBLK
            DESCRIPTIVE NAME  = CICS EXEC Interface Block.
               @BANNER_START 02
                                  DFHEIBLK
               Licensed Materials - Property of IBM
               "Restricted Materials of IBM"
               5655-S97
               @BANNER_END
            FUNCTION = EXEC Interface Block.
                  The exec interface block contains information on the
                  transaction identifier, the time and date, and the cursor
                  position on a display device. Some of the other fields are
                  set indicating the next action that a program should take
                  in certain circumstances.
                  DFHEIBLK also contains information that will be helpful
                  when a dump is being used to debug a program.
                  This control block is included automatically by an
                  application program using the command-level interface.
                  EISEIBA in the EIS addresses the EIB.
               NOTES :
                  DEPENDENCIES = S/370
                  MODULE TYPE = Control block definition
            ------------------------------------------------------------------
                       EXEC INTERFACE BLOCK
```

Table 147.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHEIBLK	EXEC INTERFACE BLOCK
(0)		4	EIBTIME	TIME IN 0HHMMSS FORMAT
(4)		4	EIBDATE	DATE IN 0CYYDDD+ FORMAT, where C is the century indicator (0=1900, 1=2000), YY is the year, DDD is the day number and '+' is the sign byte (positive)
(8)	CHARACTER	4	EIBTRNID	TRANSACTION IDENTIFIER
(C)		4	EIBTASKN	TASK NUMBER
(10)	CHARACTER	4	EIBTRMID	TERMINAL IDENTIFIER
(14)	HALFWORD	2	EIBRSVD1	RESERVED
(16)	HALFWORD	2	EIBCPOSN	CURSOR POSITION
(18)	HALFWORD	2	EIBCALEN	COMMAREA LENGTH
(1A)	CHARACTER	1	EIBAID	ATTENTION IDENTIFIER
(1B)	CHARACTER	2	EIBFN	FUNCTION CODE
(1D)	CHARACTER	6	EIBRCODE	RESPONSE CODE
(23)	CHARACTER	8	EIBDS	DATASET NAME
(2B)	CHARACTER	8	EIBREQID	REQUEST IDENTIFIER
(33)	CHARACTER	8	EIBRSRCE	RESOURCE NAME
(3B)	CHARACTER	1	EIBSYNC	X'FF' SYNCPOINT REQUESTED
(3C)	CHARACTER	1	EIBFREE	X'FF' FREE REQUESTED
(3D)	CHARACTER	1	EIBRECV	X'FF' RECEIVE REQUIRED
(3E)	CHARACTER	1	EIBSEND	RESERVED
(3F)	CHARACTER	1	EIBATT	X'FF' ATTACH RECEIVED
(40)	CHARACTER	1	EIBEOC	X'FF' EOC RECEIVED
(41)	CHARACTER	1	EIBFMH	X'FF' FMHS RECEIVED
(42)	CHARACTER	1	EIBCOMPL	X'FF' DATA COMPLETE
(43)	CHARACTER	1	EIBSIG	X'FF' SIGNAL RECEIVED
(44)	CHARACTER	1	EIBCONF	X'FF' CONFIRM REQUESTED

Table 147. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(45)	CHARACTER	1	EIBERR	X'FF' ERROR RECEIVED
(46)	CHARACTER	4	EIBERRCD	ERROR CODE RECEIVED
(4A)	CHARACTER	1	EIBSYNRB	X'FF' SYNC ROLLBACK REQ'D
(4B)	CHARACTER	1	EIBNODAT	X'FF' NO APPL DATA RECEIVED
(4C)	FULLWORD	4	EIBRESP	INTERNAL CONDITION NUMBER
(50)	FULLWORD	4	EIBRESP2	MORE DETAILS ON SOME RESPONSES
(54)	CHARACTER	1	EIBRLDBK	ROLLED BACK
(54)		0	EIBLENG	"*-EIBTIME" Length of EIB
END OF EXEC INTERFACE BLOCK				

EICD1 Language definition table

```
MODULE NAME = DFHEICD1 COPY
DESCRIPTIVE NAME  = CICS language definition (LD) table
                    structure definiton.
    This COPY module is edited by DFHUDECL EXEC during PLI
    generates (such as for DFHUTG) that require the LD table
    structure definition and is included as DFHUDECL.
@BANNER_START 02
                    DFHEICD1
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
FUNCTION =
   Declarations relating to language definition table (LD table).
   The declarations below define the mapping of the contents of
   the language definition table.
   The declarations are used by both the translator itself and
   the table compilation utility program DFHUTG.
    EIT is the root of the LD table and gives addressability
    to all its components and their sizes.
```

Table 148.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	136	EIT	
Following entries in pairs consisting of (ptr, no. of entries)				
(0)	ADDRESS	4	TABXPTR	
(4)	FULLWORD	4	NTABS	Table entries
(8)	ADDRESS	4	STTXPTR	
(C)	FULLWORD	4	NSTTS	Standard text - VBPA
(10)	ADDRESS	4	CTLXPTR	

Table 148. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	FULLWORD	4	NCTLS	Controls - VBPA
(18)	ADDRESS	4	KEEXPTR	
(1C)	FULLWORD	4	NKEYS	Keyword information *
(20)	ADDRESS	4	VBPXPTR	
(24)	FULLWORD	4	NVBPS	Verb parms
(28)	ADDRESS	4	KEPXPTR	
(2C)	FULLWORD	4	NKEPS	Keyword parms
(30)	ADDRESS	4	SYNXPTR	
(34)	FULLWORD	4	NSYNS	Syntax tree
(38)	ADDRESS	4	SPAXPTR	
(3C)	FULLWORD	4	TSYNS	Reserved
(40)	ADDRESS	4	NAMXPTR	
(44)	FULLWORD	4	LNAME	Table name
(48)	ADDRESS	4	AIBXPTR	
(4C)	FULLWORD	4	NAIBS	IB format (EIB,DIB) *
(50)	ADDRESS	4	CODXPTR	
(54)	FULLWORD	4	NCODS	Address of code gen *
(58)	ADDRESS	4	BIFXPTR	Address of first BIF *
(5C)	CHARACTER	4	COMPATF	Compatibility flags *
(5C)	CHARACTER	0	COMPATF0	To suit DFHUAI
	1...		COMPNEWF	Extra fields in hdr *
	.1..		COMPKPAR	New style kwd parms *
	..1.		COMPBIF	BIF's present
(5C)	BIT(29) POS(4)	4	*	Guaranteed zero now *
(60)	ADDRESS	4	*	
(64)	FULLWORD	4	LA0	Length of ARG0 *
(68)	ADDRESS	4	*	Reserved
(6C)	FULLWORD	4	NBYTS	Table End and size *
(70)	ADDRESS	4	KKKXPTR	New style kwd parms * (NKEPS of them)
(74)	ADDRESS	4	*	Reserved *
(78)	ADDRESS	4	*	Reserved *
(7C)	ADDRESS	4	*	Reserved *
(80)	ADDRESS	4	*	Reserved *
(84)	ADDRESS	4	*	Reserved *

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

Table 149.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	10	TABINFO	
(0)	BIT(8)	1	TABFLAGS	Verb flags
(1)	HALFWORD	2	TABVB	Index in XKERAY of Verb
(3)	HALFWORD	2	TABADVB	Index in XKERAY of Adverb
(5)	CHARACTER	3	TABOPND	Syntax of STMT :
(5)	BIT(8)	1	TABOPFLG	See operand
(6)	HALFWORD	2	TABOP	declaration

Verb parameters for code generation. E.G.
  TABPA(1)=Entry name
  TABPA(2)=Function code
     See declaration of PARITEM for Verb parameter string				

(8)	UNSIGNED	1	TABPA (4294967298:263663088)	Index in XVBPA
(A)	CHARACTER	0	TABEND	

Table 150.

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

```
Standard text:
This is to be included at the head of every preprocessed
program by module DFHEIM10.
The number of lines of standard text is NSTTS
```

Table 151.

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

```
XKERAY: Table of keyword names and keyword parameters.
This array is indexed by terminal nodes in syntax tree.
```

Table 152.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	22	XKERAY (4294967552:2883584)	
(0)	CHARACTER	12	KEYWORDA	
(C)	CHARACTER	10	*	Dependant on XKEITEM size *

Table 153.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	22	XKEITEM	
(0)	CHARACTER	12	KEYWORD	Keyword name
(C)	CHARACTER	1	KEFLG1	Collection of flags
(D)	CHARACTER	1	KEBITS	Keyword flags
(E)	BIT(8)	1	KEFLAGS	Set by flag option on keyword
	input. See overlay below.			
(F)	CHARACTER	1	KETYPE	Note: KEDTYP may imply more
(10)	UNSIGNED	1	KENARG	max number of arguments
(11)	BIT(8)	1	KEDTYP	Data type - KEDTYP=0 means dont care BIT1 Arithmetic BIT2 String BIT1=0 and BIT2=0 Other BIT3 0-Binary 1-Decimal BIT3 0-Bit 1-Char BIT4 0-Fixed 1-Float BIT6 1-Fixed Bin(64)
(12)	UNSIGNED	1	KEDTYPL	Length of datatype
(13)	UNSIGNED	1	KEP (4294967299:263666184)	KEYQUIVI or code gen parameters *
(16)	CHARACTER	0	KEEND	End of KEINFO

Table 154.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	*	
	1...		KEIDXTN	Keyword used as id extension
	.1..		KEARGOM	ARGLIST may be omitted entirely
	..1.		KEARGSH	ARGLIST may be shortened
	...1		KEARGNU	Any ARGS may be null

Table 154. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		KEARGFI	First argument mandatory
	.... .1..		KEQUIV	KEP(1) gives equivalent text
	.... ..1.		KESECND	Second keyword of a double
	1		KETIME	Time type of argument

Table 155.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	*	
	111.		KEPNUM	KEP numeric, not index in XKEPA
	...1		KECOMM	Keyword valid for any command
	.... 1...		KEDEFT	Keyword is a default
	.... .1..		KEARGSYN	Keyword arguments -KEDTYP,KEDTYPL and KEP(1) are a syntax operand
	.... ..1.		KEUTF8	UTF8 type kywd (was KERELSYN)
	1		KEMCASE	Mixed case required flag

Table 156.

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

Table 157.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	*	
	1...		KEHEX	Display in hexadecimal (EDF)

Table 157. (continued)

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

Table 158.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	XKEITEM1	Overlay of XKEITEM
(0)	CHARACTER	12	KEYWORD1	Keyword name
(C)	BIT(32)	4	KEFLGS	Keyword flags

Table 159.

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

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

Table 160.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20421	BIFENTRY	
(0)	CHARACTER	12	BIFNAME	'DFHDATASET', etc.
(C)	BIT(8)	1	BIFFLAGS	Reserved *
(D)	ADDRESS	4	BIFNEXT	0 for last in chain *
(11)	FULLWORD	4	BIFNEQUS	Number of CVDA'S
(15)	CHARACTER	17	BIFEQUSA (4294968496:263637032)	
(15)	CHARACTER	12	BIFARG	'ENABLED', etc.
(21)	FULLWORD	4	BIFCVDA	128,129, etc.
(25)	BIT(8)	1	BIFCVDFL	Reserved *

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

Table 161.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	7	SY	A node in the syntax tree
(0)	CHARACTER	1	OPCODE	'|' (Or) 'J' (Join) 'R' (Repeat) - Unary OP
(1)	CHARACTER	3	OPERAND1	First arm of the node
(1)	CHARACTER	1	OP1FLG	OPERAND1 Flags
	1...		OP1SYNI	OPERAND1 is offset in XSYNTAX
	.1..		OP1KE	OPERAND1 is index in XKERAY
	..1.		OP1NULL	OPERAND1 is null
	...1		OP1OPL	OPERAND1 is optional
	.... 1...		OP1PAREN	OPERAND1 is parenthesized
	.... .111		*	Reserved
(2)	HALFWORD	2	OP1	Operand 1
(4)	CHARACTER	3	OPERAND2	Second arm of the node
(4)	CHARACTER	1	OP2FLG	OPERAND2 flags
	1...		OP2SYNI	OPERAND2 is offset in XSYNTAX
	.1..		OP2KE	OPERAND2 is index in XKERAY
	..1.		OP2NULL	OPERAND2 is null
	...1		OP2OPL	OPERAND2 is optional
	.... 1...		OP2PAREN	OPERAND2 is parenthesized
	.... .111		*	RESERVED
(5)	HALFWORD	2	OP2	Operand 2

Table 162.

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

Table 163.

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

Table 164.

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

Table 165.

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

Table 166.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	*	
(0)	FULLWORD	4	COMGR	Group code

Offset Hex	Type	Len	Name (dim)	Description
(4)	FULLWORD	4	COMFN	Function code

```
Table Entry: Describes one command for ICCFCTAB
```

Table 167.

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

Table 168.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	3	KEYITEM	
(0)	CHARACTER	3	KEYCOMMON	Common to DFHEITTR and DFHEITT2
(0)	UNSIGNED	1	KEYCODE	Type of keyword - see the code
(1)	UNSIGNED	1	KEYBIT1	Bit to test
(2)	UNSIGNED	1	KEYBIT2	Bit to test
(3)	CHARACTER	0	KEYSPECIFIC	Different for DFHEITTR/EITT2

Table 169.

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

Table 170.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	3	KEYEITTR	DFHEITTR specific
(0)	UNSIGNED	1	KEYARG	Argument number
(1)	UNSIGNED	1	KEYARGL	Length of datatype

Table 170. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	BIT(8)	1	KEYDTYP	Data type - KEYDTYP=0 means dont care BIT1 Arithmetic BIT2 String BIT1=0 and BIT2=0 Other BIT3 0-Binary 1-Decimal BIT3 0-Bit 1-Char BIT4 0-Fixed 1-Float BIT6 1-Fixed Bin(64)
(3)	CHARACTER	0	KEYEND1	End of KEYITEM for DFHEITTR

```
-------------------------------------------------------------------
KEYITEMO: Keyword description in DFHEITHG for Hired Gun
-------------------------------------------------------------------
```

Table 171.

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

```
-------------------------------------------------------------------
KEYDTC: Keyword description for ICCFCTAB
-------------------------------------------------------------------
```

Table 172.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	KEYDTC	
(0)	HALFWORD	2	KEYNUMD	Number
(2)	CHARACTER	22	KEYSAVED	data
(2)	CHARACTER	12	KEYWORDD	
(E)	CHARACTER	10	KEYDATAD	
(18)	CHARACTER	0	KEYENDD	End of KEYITEM for ICCFCTAB

Constants

Table 173.

Len	Type	value	Name	Description
1	DECIMAL	255	STOPPER	

EIC EXEC interface communications area

```
CONTROL BLOCK NAME = DFHEICPS
DESCRIPTIVE NAME  = CICS EXEC Interface Communications Area.
 @BANNER_START 02
                        DFHEICPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = This DSECT describes the CLASS=SHARED storage which
            is used to pass the COMMAREA from one command-level
            transaction to another using an
        EXEC CICS RETURN TRANSID(..) COMMAREA(..) LENGTH(..)
 ---------------------------------------------------------------
```

Table 174.

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

Constants

Table 175.

Len	Type	value	Name	Description
1	DECIMAL	1	EIC_APCOMM31	APCOMM31 CICS KEY SUBPOOL

EIPDS Command level interface dsects

```
CONTROL BLOCK NAME = DFHEIPDS
DESCRIPTIVE NAME  = CICS COMMAND LEVEL INTERFACE DSECTS
  @BANNER_START 02
                        DFHEIPDS
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = This copybook contains the DSECTs used by
all of the separate parts of the EXEC interface.
```

These are the DSECTs used by all of the separate parts of
the EXEC interface.
Handle condition and handle aid label table DSECTs.

Table 176.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	EIL	HANDLE CONDITION LABEL TABLE
(0)	ADDRESS	4	EILBEG (0)	A(1ST LABEL ENTRY IN TABLE)
(0)	ADDRESS	4	EILFCHNP	A(next free label table)
(4)	HALFWORD	2	EILLEN	LENGTH OF LABEL TABLE
(6)	BITSTRING	1	EILINDEX	INDEX TO LABEL ENTRIES

Table 177.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	EILLAB	LABEL ENTRY
(0)	BITSTRING	1	EILLAB1F	FLAG BYTE 1
(0)	BITSTRING	0	EILL1ON	"X'FF'" .. ON
(0)	BITSTRING	0	EILL1SA	"X'80'" .. SYSTEM ACTION
(0)	BITSTRING	0	EILL1IG	"X'40'" .. IGNORE
(1)	BITSTRING	1	EILLAB2F	FLAG BYTE 2
(1)		0	EILL2COB	"EISCOBOL" .. COBOL PROGRAM
(1)		0	EILL2PLI	"EISPLI" .. PLI PROGRAM
(1)		0	EILL2ASM	"EISASM" .. ASSEMBLER PROGRAM
(2)	BITSTRING	1	EILLABPM	PROGRAM MASK FOR MVS/811
(3)	BITSTRING	1	EIL_CONDITION_ EXECKEY	
				Instantaneous execution key when Handle_Condition_Label executed
(4)	FULLWORD	4	EILLAB1	4 BYTES FOR ASM,COBOL,RPG
(8)	FULLWORD	4	EILLAB2	8 BYTES FOR PL/I
(8)		0	EILLLEN	"*-EILLAB" TABLE ENTRY LENGTH

REGISTER SAVE AREA DSECT FOR COBOL HANDLE

Table 178.

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

```
@BANNER_ START 02
                        DFHEICDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
  This DSECT describes the storage which is used to pass the
  COMMAREA from one command-level transaction to another using an
  EXEC CICS RETURN TRANSID(..) COMMAREA(..) LENGTH(..)
                              : fields for PSK release.
```

Table 179.

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

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

Table 180.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	EII	DATA INTERCHANGE DSECT
(0)	FULLWORD	4	(2)	STORAGE ACCOUNTING
(8)	BITSTRING	1	EIIBEG (0)	START OF DATA

Table 180. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	BITSTRING	1	EIIDESL	DESTIDLENG
(9)	CHARACTER	8	EIIDES	DESTID
(11)	BITSTRING	1	EIIVOLL	VOLUMELENG
(12)	CHARACTER	6	EIIVOL	VOLUME
(18)	BITSTRING	1	EIIKEYL	KEYLENGTH
(19)	CHARACTER	64	EIIKEY	RIDFLD
(59)	BITSTRING	1	EIIEND (0)	

Arg list DSECT overlays the argument list from the application

Table 181.

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

DSECT representing items pushed by EXEC CICS PUSH
Chain of these is anchored at EISPUSTK

Table 182.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	EIU	, STACK FOR EXEC CICS PUSH
(0)	ADDRESS	4	EIUCHAIN	CHAIN TO PREVIOUS EIU
(4)	FULLWORD	4	EIUERTAB	STACKED EISERTAB
(8)	FULLWORD	4	EIUKYTAB	STACKED EISKYTAB

Table 182. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	FULLWORD	4	EIUSXRSA	STACKED EISSXRSA
(10)	FULLWORD	4	EIUSXD	STACKED EISSXD
(14)	FULLWORD	4	EIUSXDI	STACKED EISSXDI
(18)	FULLWORD	4	EIUPCXRA	STACKED TCAPCXRA
(1C)	BITSTRING	1	EIUPCAXI	STACKED TCAPCAXI
(1D)	BITSTRING	1	EIUFLAG6	STACKED EISFLAG6
(1E)	BITSTRING	1	EIUFLAG7	STACKED EISFLAG7
(1F)	BITSTRING	1	EIUXLANG	STACKED EISXLANG
(20)	BITSTRING	1	EIU_ABEND_ EXECKEY	STACKED EIS_ABEND_EXECKEY
(21)	BITSTRING	1	(7)	Reserved
(21)		0	EIULEN	"*-EIUCHAIN"

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

Table 183.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	EID	EXEC CICS ARGUMENT ZERO
(0)	CHARACTER	2	EIDFN (0)	FUNCTION GROUP AND FUNCTION
(0)	CHARACTER	1	EIDGROUP (0)	FUNCTION GROUP
(0)	BITSTRING	0	EIDDLIGP	"X'44'" EXEC DLI
(0)	BITSTRING	0	EIDGDGP	"X'24'" EXEC CICS GDS
(0)	BITSTRING	0	EIDSPGP	"X'16'" EXEC CICS SYNCPOINT & RESYNC
(0)	BITSTRING	0	EIDTCGP	"X'04'" EXEC CICS TERMINAL CONTROL
(0)	BITSTRING	0	EIDBMSGP	"X'18'" EXEC CICS BMS
(0)	BITSTRING	0	EIDICGP	"X'10'" EXEC CICS INTERVAL CONTROL
	....		EIDRMGP	"X'00'" RESOURCE MANAGER
(0)	CHARACTER	1	EIDOPT0	OPTION BYTE ZERO
(1)	CHARACTER	1	EIDFUNC (0)	FUNCTION
(1)	BITSTRING	0	EIDDLIIN	"X'02'" EXEC DLI INIT CALL

Table 183. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	BITSTRING	0	EIDSYNCP	"X'02'" EXEC CICS SYNCPOINT
(1)	BITSTRING	0	EIDRECV	"X'02'" RECEIVE
(1)	BITSTRING	0	EIDCONV	"X'06'" CONVERSE
(1)	BITSTRING	0	EIDSEND	"X'04'" SEND
(1)	BITSTRING	0	EIDRECVMAP	"X'02'" RECEIVE MAP
(1)	BITSTRING	0	EIDSENDMAP	"X'04'" SEND MAP
(1)	BITSTRING	0	EIDSENDTEXT	"X'06'" SEND TEXT
(1)	BITSTRING	0	EIDRECVPARTN	"X'0E'" RECEIVE PARTN
(1)	BITSTRING	0	EIDSENDCONTROL	"X'12'" SEND CONTROL
(1)	BITSTRING	0	EIDSENDPAGE	"X'08'" SEND PAGE
(1)	BITSTRING	0	EIDPURGEMESSAGE	"X'0A'" PURGE MESSAGE
(1)	BITSTRING	0	EIDSTART	"X'08'" START
(1)	BITSTRING	0	EIDRETRIEVE	"X'0A'" RETRIEVE
(1)	BITSTRING	0	EIDCANCEL	"X'08'" CANCEL
(1)	BITSTRING	0	EIDRSYNC	"X'04'" EXEC CICS RESYNC
(1)	BITSTRING	0	EIDDISC	"X'14'" ISSUE-DISCONNECT
(1)	BITSTRING	0	EIDEAU	"X'18'" ISSUE-ERASEAUP
(1)	BITSTRING	0	EIDPRINT	"X'1C'" ISSUE-PRINT
(1)	BITSTRING	0	EIDALLOC	"X'20'" ALLOCATE
(1)	BITSTRING	0	EIDFREE	"X'22'" FREE
(1)	BITSTRING	0	EIDPRVFN	"X'80'" >=X'80' MEANS 'HIDDEN-ARG0-CALLS', ELSE DL/I-STYLE.
(1)	CHARACTER	1	EIDOPT1	OPTION BYTE 1
(1)	BITSTRING	0	EIDCOND	"X'04'"
(2)	CHARACTER	3	EIDEXIST (0)	ARGUMENT EXISTENCE BITS
(2)	CHARACTER	1	EIDOPT2	OPTION BYTE 2
(2)	BITSTRING	0	EIDCOMM	"X'40'" COMMAREA specified
(2)	BITSTRING	0	EIDDATAL	"X'04'" DATALENGTH specified
(2)	BITSTRING	0	EIDTRAN	"X'01'" TRANSID specified

Table 183. (continued)

Offset Hex	Type	Len	Name (dim)	Description
The following equates relate only to 'hidden arg0 calls', ie where EIDGROUP = X'00' and EIDFUNC >= X'80'.				
(2)	BITSTRING	0	EIDNCAL	"X'80'" RM NOT TO BE CALLED
(2)	BITSTRING	0	EIDELUW	"X'40'" LAST CALL IN LUW
(2)	BITSTRING	0	EIDRRMA	"X'20'" RETURN (DON'T ABEND) IF RES-MGR NOT ACTIVE.
(2)	BITSTRING	0	EIDACAL	"X'10'" ALL RM'S TO BE CALLED
(2)	BITSTRING	0	EIDSOTR	"X'02'" FIRST CALL IN TASK
(2)	BITSTRING	0	EIDEOTR	"X'01'" LAST CALL IN TASK
End of hidden arg 0 call equates				
(3)	CHARACTER	1	EIDOPT3	OPTION BYTE 3
(4)	CHARACTER	1	EIDOPT4	OPTION BYTE 4
(4)	BITSTRING	0	EIDSYEIB	"X'80'" TRANSLATED USING THE SYSEIB OPTION
(4)	BITSTRING	0	EIDNOEDF	"X'40'" NOEDF
(4)	BITSTRING	0	EIDNOHAN	"X'20'" NOHANDLE
(5)	CHARACTER	1	EIDOPT5	OPTION BYTE 5
(5)	BITSTRING	0	EIDSET	"X'01'" SET
(5)	BITSTRING	0	EIDNEXT	"X'02'" NEXT
(5)	BITSTRING	0	EIDPSBKR	"X'02'" PASSBK ON RECEIVE
(5)	BITSTRING	0	EIDMASSI	"X'04'" MASSINSERT
(5)	BITSTRING	0	EIDTOL31	"X'80'" 31 BIT LENGTH IN TC ARG2
(5)	BITSTRING	0	EIDFML31	"X'40'" 31 BIT LENGTH IN TC ARG4
(5)	BITSTRING	0	EIDMXL31	"X'20'" 31 BIT LENGTH IN TC ARG9
(5)	BITSTRING	0	EIDNTRNC	"X'10'" TC NOTRUNCATE OPTION
(5)	BITSTRING	0	EIDTPN32	"X'80'" TPNs > 32 chars are valid
(5)	BITSTRING	0	EIDTROFF	"X'40'" TRACE OFF
(5)	BITSTRING	0	EIDTRLST	"X'10'" TRACE LIST

Table 183. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5)	BITSTRING	0	EIDTRSIN	"X'08'" TRACE SINGLE
(5)	BITSTRING	0	EIDTRSYS	"X'04'" TRACE SYSTEM
(5)	BITSTRING	0	EIDTRUSE	"X'02'" TRACE USER
(5)	BITSTRING	0	EIDTRALL	"X'01'" TRACE ALL
(5)	BITSTRING	0	EIDMSDEF	"X'04'" BMS DEFAULT
(5)	BITSTRING	0	EIDMSALT	"X'02'" BMS ALTERNATE
(6)	CHARACTER	1	EIDOPT6	OPTION BYTE 6
(6)	BITSTRING	0	EIDCONFM	"X'80'" TC CONFIRM OPTION
(6)	BITSTRING	0	EIDRBA	"X'80'" RBA
(6)	BITSTRING	0	EIDSYNC	"X'80'" SYNCONRETURN specified
(6)	BITSTRING	0	EIDRTST	"X'80'" Routable START
(6)	BITSTRING	0	EIDGENER	"X'40'" GENERIC
(6)	BITSTRING	0	EIDGTEQ	"X'20'" GTEQ
(6)	BITSTRING	0	EIDPROT	"X'02'" PROTECT
(6)	BITSTRING	0	EIDNOCHK	"X'01'" NOCHECK
(6)	BITSTRING	0	EIDTCDEF	"X'40'" TC DEFAULT
(6)	BITSTRING	0	EIDTCALT	"X'20'" TC ALTERNATE
(6)	BITSTRING	0	EIDRESUN	"X'40'" RESUNAVAIL support
(7)	CHARACTER	1	EIDOPT7	OPTION BYTE 7
(7)	BITSTRING	0	EIDSGST	"X'08'" SEGSET
(7)	BITSTRING	0	EIDUPDT	"X'04'" UPDATE
(7)	BITSTRING	0	EIDREWR	"X'04'" REWRITE
(7)	BITSTRING	0	EIDITEM	"X'08'" ITEM
(7)	BITSTRING	0	EIDICHDR	"X'20'" IC HEADER
(7)	BITSTRING	0	EIDICPUT	"X'10'" START WITH DATA
(7)	BITSTRING	0	EIDSHRD	"X'10'" GETMAIN SHARED
(7)	BITSTRING	0	EIDTERM	"X'85'" GETMAIN TERMINAL class
(8)	CHARACTER	8	EIDRMID (0)	RESOURCE MANAGER ID
(8)	CHARACTER	1	EIDOPT8	OPTION BYTE 8

Table 183. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
	....		EIDCANCL	"X'00'" CANCEL (DEFAULT)
(8)	BITSTRING	0	EIDLABEL	"X'02'" LABEL
(8)	BITSTRING	0	EIDPROG	"X'01'" PROGRAM
(8)	BITSTRING	0	EIDTCWRI	"X'01'" TC SEND / CONVERSE
(8)	BITSTRING	0	EIDWT	"X'04'" WAIT
(9)	CHARACTER	1	EIDOPT9	OPTION BYTE 9
(9)	BITSTRING	0	EIDRRN	"X'10'" RRN
(A)	CHARACTER	1	EIDOPT10	OPTION BYTE 10
(A)	BITSTRING	0	EIDMAPO	"X'C0'" MAPONLY
(A)	BITSTRING	0	EIDBUF	"X'80'" BUFFER
(A)	BITSTRING	0	EIDWAIT	"X'08'" WAIT
(B)	CHARACTER	1	EIDOPT11	OPTION BYTE 11
(B)	BITSTRING	0	EIDPSBKW	"X'04'" PASSBK ON SEND
(C)	CHARACTER	1	EIDOPT12	OPTION BYTE 12
(C)	BITSTRING	0	EIDFMH	"X'10'" FMH
(C)	BITSTRING	0	EIDRTAIN	"X'10'" RETAIN
(C)	BITSTRING	0	EIDLAST	"X'08'" LAST
(C)	BITSTRING	0	EIDRLSE	"X'08'" RELEASE
(D)	CHARACTER	1	EIDOPT13	OPTION BYTE 13
(E)	CHARACTER	1	EIDOPT14	OPTION BYTE 14
(E)	BITSTRING	0	EIDSTRF	"X'10'" STRUCTURED FIELD
(E)	BITSTRING	0	EIDNVIT	"X'02'" INVITE
(F)	CHARACTER	1	EIDOPT15	OPTION BYTE 15
(10)	CHARACTER	8	EIDLNNO (0)	LINE NUMBER
(10)	CHARACTER	1	EIDOPT16	OPTION BYTE 16
(11)	CHARACTER	1	EIDOPT17	OPTION BYTE 17
(12)	CHARACTER	1	EIDOPT18	OPTION BYTE 18
(13)	CHARACTER	1	EIDOPT19	OPTION BYTE 19
(14)	CHARACTER	1	EIDOPT20	OPTION BYTE 20
(15)	CHARACTER	1	EIDOPT21	OPTION BYTE 21
(16)	CHARACTER	1	EIDOPT22	OPTION BYTE 22
(17)	CHARACTER	1	EIDOPT23	OPTION BYTE 23
(18)	CHARACTER	1	EIDOPT24	OPTION BYTE 24
(19)	CHARACTER	1	EIDOPT25	OPTION BYTE 25
(1A)	CHARACTER	1	EIDOPT26	OPTION BYTE 26
(1B)	CHARACTER	1	EIDOPT27	OPTION BYTE 27

EIS EXEC interface structure

Table 184.

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

```
       CONTROL BLOCK NAME = DFHEISDS
       DESCRIPTIVE NAME  = CICS EXEC Interface Structure.
        @BANNER_ START 02
                          DFHEISDS
         Licensed Materials - Property of IBM
          "Restricted Materials of IBM"
         5655-S97
          @BANNER_END
      FUNCTION =
        This copybook describes the system part of the EXEC
        Interface storage (EIS). It does not contain a DSECT
        statement and it is normally invoked by DFHEIS. See
        this macro for reasons and details.
        -----------------------------------------------------------------
                             : AB5H CHANGE FOR SPECIAL
        -----------------------------------------------------------------
        -----------------------------------------------------------------
        -----------------------------------------------------------------
           Dummy change for PQ58342
```

Table 185.

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	EIS_LENGTH	>Length of EIS
(2)	CHARACTER	6	EIS_EYE	>EIS eye catcher
TASK LIFETIME STORAGE The following storage is used to hold information which has the same lifetime as the task The following word is required at offset 8 by GDDM				
(8)	ADDRESS	4	EIS_USER_ EIB_ADDR	Address of 'User' EIB
(C)	ADDRESS	4	EISEIPB9	SAVE EIP BASE REG 9
(10)	ADDRESS	4	EISTCTTE (0)	A(TCTTE) for terminal/LU specified in current TC cmd.
(10)	ADDRESS	4	EISTCTSE	A(TCTSE) specified in ALLOCATE
(14)	ADDRESS	4	EISEDFTA	A(EDF display term.) in 2-term debug
(18)	ADDRESS	4	(0)	
(18)	CHARACTER	18	EISTRDATA (0)	Data for TRACE_PUT
(18)	CHARACTER	8	EISTRFLDAB (0)	Field A and B
(18)	CHARACTER	4	EISTRFLDA	Field A
(1C)	CHARACTER	4	EISTRFLDB	Field B
(20)	CHARACTER	8	EISTRRES	Resource name
(28)	CHARACTER	2	EISTRREQ (0)	Request bytes

Table 185. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	CHARACTER	1	EISTRREQ1	Request byte 1
(29)	CHARACTER	1	EISTRREQ2	Request byte 2
(2C)	ADDRESS	4	EISATABN	Saved table entry pointer to avoid subsequent lookup. Also used for this by CAU.
(30)	ADDRESS	4	EISCAHCB	HEAD OF CHAIN OF ATTACH HEADER CONTROL BLOCKS
(34)	ADDRESS	4	EISEDFDL	DEBUG LINKAGE
(38)	BITSTRING	1	EISFLAG2	SOME ACTIVE HANDLE CONDS
(38)	BITSTRING	0	EISRDATT	"X'80'" RDATT
(38)	BITSTRING	0	EISWRBRK	"X'40'" WRBRK
(38)	BITSTRING	0	EISEOF	"X'20'" EOF
(38)	BITSTRING	0	EISNOSPA	"X'10'" NOSPACE
(38)	BITSTRING	0	EISQBUSY	"X'08'" QBUSY
(38)	BITSTRING	0	EISNOSTG	"X'04'" NOSTG
(38)	BITSTRING	0	EISNQBSY	"X'02'" ENQBUSY
(38)	BITSTRING	0	EISNOJBS	"X'01'" NOJBUFSP
(39)	BITSTRING	1	EISFLAG3	
(39)	BITSTRING	0	EISIGNAL	"X'80'" SIGNAL
(39)	BITSTRING	0	EISOFLOW	"X'40'" OVERFLOW
(39)	BITSTRING	0	EISYSBSY	"X'20'" SYSBUSY
(39)	BITSTRING	0	EISESBSY	"X'10'" SESSBUSY
(3A)	BITSTRING	1	EISFLAG5	
(3A)	BITSTRING	0	EISIN1	"X'80'" 1 FOR FIRST RECEIVE OVER
(3A)	BITSTRING	0	EISLERR	"X'40'" 1 FOR LENGERR TO BE RAIS
(3A)	BITSTRING	0	EISRECF	"X'20'" 1 FOR F FORMAT
(3A)	BITSTRING	0	EISRECU	"X'10'" 1 FOR U FORMAT
(3A)	BITSTRING	0	EISRETRY	"X'08'" 1 FOR RETRIEVE IOERROR
(3A)	BITSTRING	0	EISTWAIT	"X'04'" 1 FOR WRITE WITHOUT WAIT
(3A)	BITSTRING	0	EISTAID	"X'02'" 1 FOR TEST EIBAID
(3A)	BITSTRING	0	EISSPCIN	"X'01'" SPECIAL INITLZD FOR TASK

Table 185. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3B)	BITSTRING	1	EISDRESP	DELAY RESPONSE
(3C)	BITSTRING	1	EISFLAG4	
(3C)	BITSTRING	0	EISABDMP	"X'80'" Last abend included dump
(3C)	BITSTRING	0	EISRUTER	"X'40'" In rununit initialization or rununit termination
(3C)	BITSTRING	0	EISQRECV	"X'20'" TSQ recoverable (for CAU).
(3C)	BITSTRING	0	EISQMAIN	"X'10'" TSQ in main stg (for CAU).
(3C)	BITSTRING	0	EIS_LOWER_ LEVEL_ABENDED	
				"X'08'" A user program at a lower link-level has abended previously
(3C)	BITSTRING	0	EISEDFSE	"X'04'" User task security initialized
(3C)	BITSTRING	0	EISCANXT	"X'02'" EXEC CICS ABEND WITH CANCEL
(3C)	BITSTRING	0	EISTCBNA	"X'01'" TCB not available
(3D)	BITSTRING	1	EISEDFDM	EDF DEBUG MODE
(3D)	BITSTRING	0	EISEDFDO	"X'80'" DEBUG ON
(3D)	BITSTRING	0	EISEDFST	"X'40'" SEPARATE TERMINAL
(3D)	BITSTRING	0	EISEDFX	"X'20'" I/O ISSUED BY EDFX
(3D)	BITSTRING	0	EISABNDG	"X'10'" EDFX has issued an abend
(3E)	CHARACTER	2		Reserved
(40)	ADDRESS	4	EISTIOA	A(TIOA below the line)
(44)	FULLWORD	4	EISTIOAL	length of below the line TIOA
(48)	FULLWORD	4	EISUPERC	super-link level count for RMI
(4C)	ADDRESS	4	EISEXITT	Task token for user exit
(50)	ADDRESS	4	EIS_SYS_EIB_ADDR	address of 'System' EIB
(54)	ADDRESS	4	EISEIPB8	Save DFHEIP Base Reg 8
(58)	ADDRESS	4	EISTRACE	Level 2 trace

Table 185. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5C)	FULLWORD	4	EISSAVE0	R0 save area for GETMAIN/FREEM.
(60)	ADDRESS	4	EISSAVE1	R1 save area for GETMAIN/FREEM.
(64)	ADDRESS	4	EISSAVE6	R6 save area for GETMAIN/FREEM.
(68)	ADDRESS	4	EISSAVE7	R7 save area for GETMAIN/FREEM.
PROGRAM LIFETIME STORAGE The following storage is used to hold information which has the same lifetime as the current program				
(6C)	HALFWORD	2	EISCSETL	data length (no trunc) for read set
(6E)	CHARACTER	1	EISENILT	ENTRY NO. IN LABEL TABLE
(6F)	CHARACTER	1		Reserved
(70)	ADDRESS	4	EISRET	SUBROUTINE RETURN ADDRESS
(74)	ADDRESS	4		Reserved for Service
COMMAND LIFETIME STORAGE The following storage is used to hold information which has the same lifetime as the current command				
(78)	CHARACTER	12	EISTCACA	SAVE AREA FOR TCACCCA
(84)	CHARACTER	4	EISSYSNM	name of sys. holding resrce.
(88)	HALFWORD	2	EISCKEYL	key length for current request
(8A)	HALFWORD	2		Reserved
(8C)	ADDRESS	4	EISTEMP	TEMPORARY R14 SLOT
(90)	ADDRESS	4	EISTEMP2	TEMPORARY R14 SLOT
(94)	ADDRESS	4	EISTEMP3	TEMPORARY R14 SLOT
(98)	ADDRESS	4	EISTEMP4	TEMPORARY R14 SLOT
(9C)	BITSTRING	1	EISEDFRB	EDF REQUEST/REPLY BYTE
REQUEST BITS				
(9C)	BITSTRING	0	EISEDFRQ	"X'80'" EXEC REQUEST
(9C)	BITSTRING	0	EISEDFRS	"X'40'" EXEC RESPONSE
(9C)	BITSTRING	0	EISEDFIN	"X'20'" INITIALIZATION

Table 185. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9C)	BITSTRING	0	EISEDFPT	"X'10'" PROGRAM TERMINATION
(9C)	BITSTRING	0	EISEDFTT	"X'08'" TASK TERMINATION
(9C)	BITSTRING	0	EISEDFAB	"X'04'" ABEND
(9C)	BITSTRING	0	EISEDFAC	"X'02'" ABNORMAL CONDITION
(9C)	BITSTRING	0	EISEDFRE	"X'01'" PLIST-REFORMAT REQUIRED
REPLY BITS				
(9C)	BITSTRING	0	EISEDFFA	"X'80'" FORCED ABEND
(9C)	BITSTRING	0	EISEDFUA	"X'40'" USER ABEND
(9C)	BITSTRING	0	EISEDFUW	"X'20'" USER ABEND WITH DUMP
(9C)	BITSTRING	0	EISEDFUD	"X'10'" USER DUMP
(9C)	BITSTRING	0	EISEDFCA	"X'08'" CATASTROPHIC ABEND
(9D)	BITSTRING	1	EIS_TEMP_EXECKEY	Instantaneous execution key store for fastpath getmain calls
(9E)	CHARACTER	2		Reserved
START OF STACKED STORAGE The following storage up to EISUPERB is stacked across links. The length of the stacked storage is held in EISTACKL. Fields from here to EISRETP are RUN-UNIT local.				
(A0)	ADDRESS	4	EISTACKA (0)	
(A0)	ADDRESS	4	EIS_PIPI_ CICSKEY_RSA	
				address of PIPI Cics key rsa
(A4)	ADDRESS	4	EIS_PIPI_ USERKEY_STG	
				address of PIPI User key stg incl rsa
(A8)	ADDRESS	4	EISRUSTG	RUN UNIT LOCAL STORAGE ADDRESS
(AC)	ADDRESS	4	EISERMSA	EDF/DLI ADDR EDF DISPLAY DATA

NOTE: THE FOLLOWING FIELD IS USED BY DFHEIP TO SAVE A RETURN
      ADDRESS BEFORE ISSUING AN "ABNORMAL GOTO OUT-OF-BLOCK"
      CALL TO THE PL/I TERMINATION ROUTINE.				

(B0)	ADDRESS	4	EISRETP	SAVE A LOCAL RETURN ADDRESS

Table 185. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B4)	ADDRESS	4	EIS_PLB_ADDRESS	Addr(Program Language Block)
(B8)	ADDRESS	4	EIS_APLI_ SAVEAREA	Addr(DFHAPLI's registers on giving up control)
(BC)	ADDRESS	4	EISASTG	A(WS) FOR COBOL ONLY
(C0)	CHARACTER	2	EIS_PROGRAM_MODE	TCB MODE for application program
(C2)	BITSTRING	1	EISAPM	APPLICATION PROGRAM MASK
(C3)	BITSTRING	1	EISFLAG8	
(C3)	BITSTRING	0	EISSRPAB	"X'80'" TCAAAM SET IN EDFX-SRP ISSUED ABND
(C3)	BITSTRING	0	EISEDFRM	"X'40'" INDICATE EDF INVOKED BY ERM
(C3)	BITSTRING	0	EISERM31	"X'20'" DFHERM INVOKED IN AMODE 31
(C3)	BITSTRING	0	EISEDFRN	"X'10'" INDICATE NEW TYPE EDF SCREEN REQUIRED
(C3)	BITSTRING	0	EISCEDFY	"X'08'" CEDF allowed for current program
(C3)	BITSTRING	0	EISTKING	"X'04'" Entering new exec capable GLUE/URM
(C3)	BITSTRING	0	EISDPL	"X'02'" Program restricted to DPL API
(C3)	BITSTRING	0	EISYNCOK	"X'01'" Syncpointing allowed in DPL server prog.
(C4)	BITSTRING	1	EISFLAG9	
(C4)	BITSTRING	0	EISSYEIB	"X'80'" SYSEIB ON LAST EXEC CICS COMMAND
(C4)	BITSTRING	0	EISRTDST	"X'40'" Indicate a RouTeD STart request
(C5)	BITSTRING	1		RESERVED
(C6)	HALFWORD	2	EISEDFLV	EDF stack level for current prog
The following storage up to the EQU for EISINITL is re-initialised to X'00' for each program level The length of this initialised area is in EISINITL.				
(C8)	ADDRESS	4	EISINITA (0)	
(C8)	BITSTRING	1	EISFLAG1	ASSORTED FLAGS

Table 185. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C8)	BITSTRING	0	EISRORX	"X'80'" 1 FOR PL/I RETURN OR XCTL
(C8)	BITSTRING	0	EISSPEX	"X'40'" eligible for XEISPIN,OUT
(C8)	BITSTRING	0	EISJVMXC	"X'20'" executing in JVM
(C8)	BITSTRING	0	EISC37TT	"X'10'" C/370 recursive thread termination flag
(C8)	BITSTRING	0	EISPGOTO	"X'08'" LE/370 Perform Goto flag
(C8)	BITSTRING	0	EISTMPTT	"X'04'" VS COBOL II recursive thread termination flag
(C8)	BITSTRING	0	EISEDFFC	"X'02'" 1 FOR EDF WAS ON FOR FIRST CALL OF A SET OF CALLS
(C8)	BITSTRING	0	EISEXEC	"X'01'" 1 DURING EXEC COMMAND
(C9)	CHARACTER	2	EIS_FASTPATH (0)	Fastpath Condition Flags
(C9)	BITSTRING	1	EISFLAG6	MASTERS FOR EISFLAG2
(CA)	BITSTRING	1	EISFLAG7	AND EISFLAG3
NOTE: EISLANG NOW REPLACES EISFLAG4. THE MEANING IS A PATTERN OF BITS TESTED BY CLI RATHER THAN TM. BITS 0,1,2,7 IN EISLANG ARE ALWAYS ZERO.				
(CB)	BITSTRING	1	EISLANG	LANGUAGE FLAGS
(CB)	BITSTRING	0	EISLANGS	"X'1E'" ALL LANGUAGE BITS
(CB)	BITSTRING	0	EISRPG	"X'10'" FOR RPG PROGRAM
(CB)	BITSTRING	0	EISASM	"X'08'" FOR ASM PROGRAM
(CB)	BITSTRING	0	EISCOBOL	"X'04'" FOR COBOL PROGRAM
(CB)	BITSTRING	0	EISSPCOB	"X'06'" FOR SPECIAL PROGRAM
(CB)	BITSTRING	0	EISPLI	"X'02'" FOR PL/I PROGRAM
(CB)	BITSTRING	0	EISPLS	"X'0A'" FOR PL/AS PROGRAM
(CB)	BITSTRING	0	EISVSPLI	"X'0C'" FOR V. SPECIAL PROGRAM
(CB)	BITSTRING	0	EISC	"X'0E'" FOR C PROGRAM

Table 185. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(CB)	BITSTRING	0	EISLEASM	"X'12'" FOR LE MAIN Assembler
(CC)	BITSTRING	1	EISFLAGA	flag byte
(CC)	BITSTRING	0	EISDAT31	"X'80'" program will accept data above 16M
(CC)	BITSTRING	0	EIS_XCTL	"X'04'" User has issued XCTL
(CC)	BITSTRING	0	EIS_PROGRAM_ABENDED	
				"X'02'" DFHAPLI's Recovery Routine has detected that the program has abended
(CC)	BITSTRING	0	EISEIECR	"X'01'" The program has terminated by issuing Exec Cics Return
EIS_ CICS_DATAKEY, CICS_EXECKEY, CURRENT_EXECKEY and ABEND_EXECKEY are all part of the support for Storage Isolation - PSK				
(CC)	BITSTRING	0	EIS_CICS_DATAKEY	"X'20'" Current program was defined with CICS data location key.
(CC)	BITSTRING	0	EIS_CICS_EXECKEY	"X'10'" Current program was defined with
(CC)	BITSTRING	0	EISRUNIN	"X'08'" CEE Run-Unit in control CICS execution key.
(CD)	BITSTRING	1	EIS_CURRENT_EXECKEY	
				Instantaneous execution key when current command started
(CD)	BITSTRING	0	EIS_USERKEY	"X'90'" Constant for testing EIS_CURRENT_EXECKEY
(CE)	BITSTRING	1	EIS_ABEND_EXECKEY	Instantaneous execution key when the last HANDLE ABEND LABEL was executed at this level.
(CF)	BITSTRING	1	EIS_APPL_BOUNDARY_FLAGS	
				Application Boundary Flags

Table 185. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(CF)	BITSTRING	0	EIS_RECOVERY_ SWITCH	
				"X'80'" Recovery environment switch needed at application boundary
(CF)	BITSTRING	0	EIS_ABTERM_ ALLOWED_SWITCH	
				"X'40'" Abterm_allowed switch needed at application boundary
(CF)	BITSTRING	0	EIS_CRITICAL_ CODE_SWITCH	
				"X'20'" Critical code protection switch needed at application boundary
(CF)	BITSTRING	0	EIS_RESET_ RUNAWAY_SWITCH	
				"X'10'" Reset runaway state
(CF)	BITSTRING	0	EISECOFF	"X'08'" Event capture off for curr pgm
(CF)	BITSTRING	0	EISECTST	"X'04'" Event captr tested for curr pgm
(D0)	ADDRESS	4	EIS24STG	a(run-unit work-area <16 meg)
(D0)		0	EISINITL	"*-EISINITA" LENGTH CLEARED
This is the end of the area initialised to X'00' on LINK or XCTL.				
(D0)		0	EISTACKL	"*-EISTACKA" Length stacked on LINK
END OF STACKED STORAGE SUPERLINK STORAGE The following storage is not stacked by a LINK, however it is stacked by a resource manager call (SUPERLINK) to allow for recursion in the event that the invoked res-mgr invokes CICS via the command level interface ie. EXEC CICS...				
(D4)	ADDRESS	4	EISUPERB (0)	START OF SUPERLINK
(D4)	ADDRESS	4	EISICIOAL	IC Retrieve length for Bridge
(D8)	ADDRESS	4	EISBAIOA	A(BAIOA)
(DC)	ADDRESS	4	EISTDIA	A(TDIA)
(E0)	ADDRESS	4	EISTSIOA	A(TSIOA)
(E4)	ADDRESS	4	EISICIOA	IC TSIOA
(E8)	ADDRESS	4	EISDITAB	DI TABLE

Table 185. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(EC)	ADDRESS	4	EISFCTAB	FC reserved field
(F0)	ADDRESS	4	EISFCPTR	FC transformer field
(F4)	ADDRESS	4	EISCBUFC	HEAD OF CHAIN OF REMOTE FILE OPERATION ENTRIES
(F8)	ADDRESS	4	EISERMDA	A(ERM-EDF I/F VECTOR)
(FC)	ADDRESS	4	EISEIPR1	EIP'S INPUT R1 FOR EDF..
(100)	ADDRESS	4	EISBIBP	
(104)	ADDRESS	4	EISUPERE (0)	END OF SUPERLINK *
end of SUPERLINK storage				
(104)	FULLWORD	4	(0)	
(104)	CHARACTER	8	EISTITLE	DFHEIB

EISTG EXEC interface dynamic storage

EXEC INTERFACE DYNAMIC STORAGE

Table 186.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHEISTG	EXEC INTERFACE STORAGE
(0)	FULLWORD	4	DFHEISA (18)	SAVE AREA R14-R12 AT 12 OFF
(48)	FULLWORD	4	DFHEILWS	RESERVED
(4C)	FULLWORD	4	DFHEINAB	RESERVED
(50)	FULLWORD	4	DFHEIRS0	RESERVED
(54)	FULLWORD	4	DFHEIR13	REGISTER 13
(58)	FULLWORD	4	DFHEIRS1	RESERVED
(5C)	FULLWORD	4	DFHEIBP	EIB POINTER (NOT USED IF BATCH)
(60)	FULLWORD	4	DFHEICAP	COMMAREA POINTER (NOT USED IF BATCH)
(64)	HALFWORD	2	DFHEIV00	HALFWORD TEMP USED BY DFHECALL
(66)	HALFWORD	2	DFHEIRS2	RESERVED
(68)	FULLWORD	4	DFHEIPL (13)	PARAMETER LIST

Offset Hex	Type	Len	Name (dim)	Description
(9C)	FULLWORD	4	(51)	ALLOW 64 PARAMETERS FOR DLI AND IN XA2 ON, FOR EXEC CICS ALSO
(168)	FULLWORD	4	DFHEIRS3	FULLWORD TEMP USED BY DFHECALL
(16C)	FULLWORD	4	DFHEIRS4	RESERVED
(170)	FULLWORD	4	DFHEITP1	TEMPORARY POINTER 1
(174)	FULLWORD	4	DFHEITP2	TEMPORARY POINTER 2
(178)	FULLWORD	4	DFHEITP3	TEMPORARY POINTER 3
(17C)	FULLWORD	4	DFHEITP4	TEMPORARY POINTER 4
START DEFINITION OF USER DYNAMIC STORAGE				
(180)	DBL WORD	8	DFHEIUSR (0)	ALIGN USER DYNAMIC STORAGE

EIUS EXEC interface user structure

```
              CONTROL BLOCK NAME = DFHEIUS
              DESCRIPTIVE NAME  = CICS User part of EXEC interface storage
                 @BANNER_START 02
                                    DFHEIUS
                 Licensed Materials - Property of IBM
                 "Restricted Materials of IBM"
                 5655-S97
                 @BANNER_END
              FUNCTION =
                   This is part of the interface between the application
                   program and CICS. It contains fields whose addresses
                   are passed to the application or to other products which
                   invoke the application.
                   The EIUS is owned by the Execution Interface Component.
                   There is one EIUS per transaction.
              LIFETIME =
                   The EIUS is created in DFHAPDS and lasts for the life
                   of the task.
              STORAGE CLASS =
                   The subpool is chosen according to the TASKDATAKEY and
                   TASKDATALOC options specified for the task.
                   The possible subpools are :
                   SUBPOOL TASKDATAKEY TASKDATALOC
                   USER24 USER BELOW
                   USER31 USER ANY
                   CICS24 CICS BELOW
                   CICS31 CICS ANY
              LOCATION =
                   The EIUS is addressed from the TCA by TCAEIUSA.
              INNER CONTROL BLOCKS =
                   None
              NOTES :
```

```
              DEPENDENCIES = S/370
              RESTRICTIONS = None
              MODULE TYPE = Control block definition
          EXTERNAL REFERENCES =
              DATA AREAS =
                 This control block references no operating system data
                 areas.
              CONTROL BLOCKS =
                 This control block references no other control blocks.
              GLOBAL VARIABLES (Macro pass) =
                 This control block definition references no global
                 variables.
```

Table 187.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	180	DFHEIUS	EXEC Interface User Structure
(0)	CHARACTER	16	EIUS_PREFIX	Standard control block prefix
(0)	HALFWORD	2	EIUS_LENGTH	Length of DFHEIUS
(2)	CHARACTER	1	EIUS_ARROW	'>'
(3)	CHARACTER	3	EIUS_DFH	'DFH'
(6)	CHARACTER	10	EIUS_BLOCK_NAME	'EIUS '
(10)	ADDRESS	4	EIUS_CEE_TWA	Addr LE/370 Thread w/a
``` START OF STACKED STORAGE The following storage up to EIUS_SUPER_STACK is stacked across a LINK or XCTL. It consists of two parts : 1. EIUS_STACK_INIT - reinitialised to X'00'. 2. EIUS_STACK_ASIS - left asis on the stack. ```				
(14)	CHARACTER	144	EIUS_STACK_AREA	The whole link stack area
``` The following storage up to EIUS_STACK_ASIS is re-initialised to X'00' following a LINK or XCTL ```				
(14)	CHARACTER	16	EIUS_STACK_INIT	Reinitialised section
(14)	CHARACTER	8	EIUS_CEE_ RUNUNIT_TK	
				CEE rununit token
(1C)	ADDRESS	4	*	Reserved
(20)	ADDRESS	4	*	Reserved
``` This is the end of the area initialised to X'00' on LINK or XCTL The following storage up to EIUS_SUPER_STACK is left asis following a LINK or XCTL. ```				
(24)	CHARACTER	128	EIUS_STACK_ASIS	Left asis on the stack
``` The following fields up to EIUS_CII_ARG5 are passed to COBOL II as an argument list and must be contiguous ```				
(24)	CHARACTER	28	EIUS_CII_ ARG_LIST	
				COBOL II argument list
(24)	ADDRESS	4	EIUS_CII_ARG1	COBOL II first argument

Table 187. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	ADDRESS	4	EIUS_CII_ARG2	COBOL II second argument
(2C)	ADDRESS	4	EIUS_CII_ARG3	COBOL II third argument
(30)	ADDRESS	4	EIUS_CII_ARG4	COBOL II forth argument
(34)	ADDRESS	4	EIUS_CII_ARG5	COBOL II fifth argument
(38)	ADDRESS	4	*	Reserved
(3C)	ADDRESS	4	*	Reserved
(40)	CHARACTER	8	EIUS_HLL_ RUNUNIT_TK	
				High level lang rununit token
`EIUS_EIB_ADDR and EIUS_CURR_COMMA_ADDR must be contiguous` `for DFHEIENT macro in EXEC CICS with Assembler.`				
(48)	ADDRESS	4	EIUS_EIB_ADDR	EIB address

`EIUS_CURR_COMMA_ADDR is the commarea received by the currently`
`running program. It may be a copy taken because the program`
`can not access the original because of its location or key.`
`If it is a copy then the address of the original is in`
`EIS_ORIG_COMMA_ADDR.`				

(4C)	ADDRESS	4	EIUS_CURR_ COMMA_ADDR	
				Current commarea address
(50)	ADDRESS	4	EIUS_RSA_ADDR	Appl Reg Save Area address
(54)	CHARACTER	72	EIUS_RSA	Reg Save Area for appl use
(9C)	ADDRESS	4	*	Reserved
(A0)	ADDRESS	4	*	Reserved
`END OF STACKED STORAGE`				

`SUPERLINK STORAGE`
`-----------------`
`The following storage is not stacked by a LINK, however it is`
`stacked by a resource manager call (SUPERLINK) to allow for`
`recursion in the event that the invoked res-mgr invokes CICS`
`via the command level interface ie. EXEC CICS...`
`The storage is left asis following a SUPERLINK.`				

(A4)	CHARACTER	16	EIUS_SUPER_STACK	Start of SUPERLINK storage
`EIUS_EIB_ADDR_PTR and EIUS_COMMA_ADDR_PTR must be contiguous` `because an argument list is built here.`				
(A4)	CHARACTER	8	EIUS_ARG_LIST	Application argument list
(A4)	ADDRESS	4	EIUS_EIB_ ADDR_PTR	

Table 187. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Ptr to EIUS_EIB_ADDR
(A8)	ADDRESS	4	EIUS_COMMA_ ADDR_PTR	
				Ptr to EIUS_CURR_COMMA_ADDR
(AC)	ADDRESS	4	*	Reserved
(B0)	ADDRESS	4	*	Reserved
(B4)	CHARACTER	0	EIUS_SUPER_END	End of SUPERLINK storage

EJBDS Enterprise Java Bean Statistics *OJA

```
                      CONTROL BLOCK NAME = DFHEJBDS
                      DESCRIPTIVE NAME  = CICS ....
                         @BANNER_START 02

                                         DFHEJBDS
                         Licensed Materials - Property of IBM
                         "Restricted Materials of IBM"
                         5655-S97
                         @BANNER_END
                      FUNCTION =
                              This data area contains the Bean statistics provided
                              by the EJ Domain.
                              It is provided for use in users monitoring applications
                              to map the statistics returned via the API or the
                              statistics global user exit.
                              There is a single instance of this data block.
                      LIFETIME =
                              This data block is created by the EJ Domain to store
                              statistics to be passed to the user in response to a
                              for BEAN statistics. The storage is released when
                              the user task is detached.
                              The DSECT also maps the contents of part of the SMF buffer
                              created by the statistics domain and is used in the
                              statistics exit.
                      STORAGE CLASS =
                      LOCATION =
                              The user is passed a pointer to the head of the storage
                              block.
                      INNER CONTROL BLOCKS = None
                      NOTES :
                         DEPENDENCIES = S/370
                         RESTRICTIONS = None
                         MODULE TYPE = Control block definition
                   -----------------------------------------------------------------
```

Table 188.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHEJBDS	Bean Resid stats record
(0)	HALFWORD	2	EJBDS_LEN	Bean stats record length
(2)	ADDRESS	2	EJBDS_ID	Bean stats id
(4)	CHARACTER	1	EJBDS_VERS	Bean stats version

Table 188. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	240	EJB_BEAN_NAME	Bean Name
(F8)	CHARACTER	4	EJB_CORBASERVER_NAME	
				CorbaServer Name
(FC)	CHARACTER	32	EJB_DJAR_NAME	Djar Name
(11C)	BITSTRING	8		Reserved
(124)	BITSTRING	4	EJB_BEAN_ACTIVATIONS	
				No. Bean State Activations
(128)	BITSTRING	4	EJB_BEAN_PASSIVATIONS	
				No. Bean State Passivations
(12C)	BITSTRING	4	EJB_BEAN_CREATES	No. Bean Creates
(130)	BITSTRING	4	EJB_BEAN_REMOVES	No. Bean Removes
(134)	BITSTRING	4	EJB_BEAN_METHOD_CALLS	
				No. Bean Method Calls
(138)	BITSTRING	8		Reserved
(138)		0	EJBDS_END	"*"
(138)		0	EJBDS_LENGTH	"*-EJBDS_LEN" Bean record length
Constants that denote a EJ Bean stats record				
(138)	SIGNED	0	EJBIDR	"115" Bean resid stats id
(138)	BITSTRING	0	EJB_VERS	"X'01'" Record version number

EJDNC Enterprise Java Bean Distinguished name

```
!:refstep.dfhejdnx_commarea_structure ----------------- DFHEJDNX 59 -
!
!
! Distinguished Name URM
!
! This structure maps the commarea that is passed to the
! Distinguished Name User-Replaceable Module, DFHEJDNX.
!
! The Distinguished Name URM is a CICS command-level program that is
! used to obtain a string representation of the distinguished name
! of an EJB client, when the client has not presented an X.509
! certificate containing a name.
!
! The URM must be called DFHEJDNX.
!
! The following parameters are passed to DFHEJDNX in a commarea:
!
```

```
! ejdn_parameter_list_length
! A binary halfword that contains the length of this parameter
! list.
! ejdn_parameter_list_eyecatcher
! A 14-byte character string that contains an eyecatcher
! ('>DFHEJDNX_PARM') to identify this parameter list in dumps and
! traces.
! ejdn_parameter_list_version
! A binary halfword that contains the version number of this
! parameter list. It is zero for CICS Transaction Server V2R1.
! ejdn_parameter_list_flags
! A binary halfword reserved for indicator flags for this
! interface. At present, no indicator flags are defined.
! ejdn_distinguished_name_ptr
! A pointer to a 512-character workarea in which DFHEJDNX can
! build the distinguished name to be assigned to the client.
!
! The distinguished name output by this routine must be an EBCDIC
! null-delimited character string in the format proposed by
! RFC2253, "Lightweight Directory Access Protocol (v3):
! UTF-8 String Representation of Distinguished Names", described
! (among other places) at
! "ftp://ftp.isi.edu/in-notes/rfc2253.txt". The character string
! must be encoded in EBCDIC code page 1047.
! ejdn_distinguished_name_len
! A binary fullword that contains the length of the workarea
! pointed to by "ejdn_distinguished_name_ptr" on input, and in
! which DFHEJDNX must return the length of the distinguished name
! it has built.
! ejdn_userid_ptr
! A pointer to the client's userid.
! ejdn_userid_len
! A binary fullword containing the length of the client's userid.
! ejdn_common_name_ptr
! A pointer to the proposed common name of the client, derived
! from the username associated with the client's userid in the
! external security manager's database.
! ejdn_common_name_len
! A binary fullword containing the length of the client's common
! name.
! ejdn_title_ptr
! A pointer to the proposed title of the client, derived from the
! title in the X.509 certificate associated with the CORBAServer.
! ejdn_title_len
! A binary fullword containing the length of the client's title.
! ejdn_email_address_ptr
! A pointer to the proposed e-mail address of the client, derived
! from the e-mail address in the (extended) X.509 certificate
! associated with the CORBAServer.
! ejdn_email_address_len
! A binary fullword containing the length of the client's e-mail
! address.
! ejdn_organizational_unit_ptr
! A pointer to the proposed organizational unit of the client,
! derived from the organizational unit in the X.509 certificate
! associated with the CORBAServer.
! ejdn_organizational_unit_len
! A binary fullword containing the length of the client's
! organizational unit.
! ejdn_organization_ptr
! A pointer to the proposed organization of the client, derived
! from the organization in the X.509 certificate associated with
! the CORBAserver.
! ejdn_organization_len
! A binary fullword containing the length of the client's
! organization
! ejdn_locality_ptr
```

```
                ! A pointer to the proposed locality of the client, derived from
                ! the locality in the X.509 certificate associated with the
                ! CORBAServer.
                ! ejdn_locality_len
                ! A binary fullword containing the length of the client's
                ! locality.
                ! ejdn_state_or_province_ptr
                ! A pointer to the proposed state or province of the client,
                ! derived from the state or province (if any) in the X.509
                ! certificate associated with the CORBAServer.
                ! ejdn_state_or_province_len
                ! A binary fullword containing the length of the client's state or
                ! province.
                ! ejdn_country_ptr
                ! A pointer to the proposed country of the client, derived from
                ! the country in the X.509 certificate associated with the
                ! CORBAServer.
                ! ejdn_country_len
                ! A binary fullword containing the length of the client's country.
                !
                ! Each of the character fields pointed to by an "ejdn_ _ptr"
                ! parameter contains EBCDIC character data terminated by a null
                ! character (X'00') to simplify processing in the C language. If a
                ! value for a field is not available, its corresponding length
                ! ("ejdn_ _len") is zero.
                !
                !----------------------------------------------------------------
```

Table 189.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	104	DFHEJDNC	
(0)	HALFWORD	2	EJDN_PARAMETER_ LIST_LENGTH	
(2)	CHARACTER	14	EJDN_PARAMETER_ LIST_EYECATCHER	
(10)	HALFWORD	2	EJDN_PARAMETER_ LIST_VERSION	
(12)	BIT(16)	2	EJDN_PARAMETER_ LIST_FLAGS	
(14)	FULLWORD	4	*	
(18)	ADDRESS	4	EJDN_DISTINGUISHED_ NAME_PTR	
(1C)	FULLWORD	4	EJDN_DISTINGUISHED_ NAME_LEN	
(20)	ADDRESS	4	EJDN_USERID_PTR	
(24)	FULLWORD	4	EJDN_USERID_LEN	
(28)	ADDRESS	4	EJDN_TITLE_PTR	
(2C)	FULLWORD	4	EJDN_TITLE_LEN	
(30)	ADDRESS	4	EJDN_EMAIL_ ADDRESS_PTR	
(34)	FULLWORD	4	EJDN_EMAIL_ ADDRESS_LEN	
(38)	ADDRESS	4	EJDN_COMMON_ NAME_PTR	

Table 189. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	FULLWORD	4	EJDN_COMMON_ NAME_LEN	
(40)	ADDRESS	4	EJDN_ORGANIZATIONAL_ UNIT_PTR	
(44)	FULLWORD	4	EJDN_ORGANIZATIONAL_ UNIT_LEN	
(48)	ADDRESS	4	EJDN_ORGANIZATION_ PTR	
(4C)	FULLWORD	4	EJDN_ORGANIZATION_ LEN	
(50)	ADDRESS	4	EJDN_LOCALITY_ PTR	
(54)	FULLWORD	4	EJDN_LOCALITY_ LEN	
(58)	ADDRESS	4	EJDN_STATE_ OR_PROVINCE_PTR	
(5C)	FULLWORD	4	EJDN_STATE_ OR_PROVINCE_LEN	
(60)	ADDRESS	4	EJDN_COUNTRY_PTR	
(64)	FULLWORD	4	EJDN_COUNTRY_LEN	

EJEPC Enterprise Java event

Table 190.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	278	EJEE_COMMAREA	
(0)	CHARACTER	32	EJEE_DJAR	
(20)	UNSIGNED	1	EJEE_EVENTCODE	
(21)	UNSIGNED	1	EJEE_EVENTTYPE	
(22)	CHARACTER	4	EJEE_CORBASERVER	
(26)	CHARACTER	240	EJEE_BEANNAME	

Constants

Table 191.

Len	Type	value	Name	Description
1	DECIMAL	1	EJEE_EVENTTYPE_INFO	
1	DECIMAL	2	EJEE_EVENTTYPE_ WARNING	
1	DECIMAL	3	EJEE_EVENTTYPE_ERROR	
1	DECIMAL	1	EJEE_EVENTCODE_ DJ_INSTALLED	
1	DECIMAL	2	EJEE_EVENTCODE_ DJ_DISCARDED	

Table 191. (continued)

Len	Type	value	Name	Description
1	DECIMAL	3	EJEE_EVENTCODE_ DJ_INSTALL_FAILED	
1	DECIMAL	4	EJEE_EVENTCODE_ DJ_OPEN_SHELF_ FAILED	
1	DECIMAL	5	EJEE_EVENTCODE_ DJ_HFS_PROBLEM	
1	DECIMAL	6	EJEE_EVENTCODE_ DJ_HFS_NO_READ_ ACCESS	
1	DECIMAL	7	EJEE_EVENTCODE_ DJ_HFS_READ_ERROR	
1	DECIMAL	8	EJEE_EVENTCODE_ DJ_HFS_WRITE_ERROR	
1	DECIMAL	9	EJEE_EVENTCODE_ DJ_NAME_INVALID	
1	DECIMAL	10	EJEE_EVENTCODE_ DJ_AUTOPUBLISH	
1	DECIMAL	11	EJEE_EVENTCODE_ DJ_ALREADY_INSTALLED	
1	DECIMAL	12	EJEE_EVENTCODE_ BN_PUBLISH_FALIED	
1	DECIMAL	13	EJEE_EVENTCODE_ DJ_SCAN_CREATED	
1	DECIMAL	14	EJEE_EVENTCODE_ DJ_SCAN_UPDATED	
1	DECIMAL	15	EJEE_EVENTCODE_ BN_PUBLISHED	
1	DECIMAL	16	EJEE_EVENTCODE_ BN_RETRACTED	
1	DECIMAL	17	EJEE_EVENTCODE_ BN_RETRACT_FAILED	
1	DECIMAL	18	EJEE_EVENTCODE_ DJ_DELETE_FAILED	
1	DECIMAL	19	EJEE_EVENTCODE_ CS_SCAN_STARTED	
1	DECIMAL	20	EJEE_EVENTCODE_ CS_SCAN_ENDED	
1	DECIMAL	21	EJEE_EVENTCODE_ CS_SCAN_DUPLICATE_ FOUND	

EJRDS Enterprise Java CorbaServer Statistics *OJC

```
         CONTROL BLOCK NAME = DFHEJRDS
         DESCRIPTIVE NAME  = CICS Corbaserver statistics record
           @BANNER_START 02
                           DFHEJRDS
         Licensed Materials - Property of IBM
```

```
                         "Restricted Materials of IBM"
                         5655-S97
                         @BANNER_END
                    FUNCTION =
                           This data area contains the CORBAServer statistics
                           provided by the EJ Domain.
                           It is provided for use in users monitoring applications
                           to map the statistics returned via the API or the
                           statistics global user exit.
                           There is a single instance of this data block.
                    LIFETIME =
                           This data block is created by the EJ Domain to store
                           statistics to be passed to the user in response to a
                           for CORBAServer statistics. The storage is released
                           when the user task is detached.
                           The DSECT also maps the contents of part of the SMF buffer
                           created by the statistics domain and is used in the
                           statistics exit.
                    STORAGE CLASS =
                    LOCATION =
                           The user is passed a pointer to the head of the storage
                           block.
                    INNER CONTROL BLOCKS = None
                    NOTES :
                       DEPENDENCIES = S/370
                       RESTRICTIONS = None
                       MODULE TYPE = Control block definition
                    ------------------------------------------------------------------
```

Table 192.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHEJRDS	CorbaServer Resid stats record
(0)	HALFWORD	2	EJRDS_LEN	CorbaServer stats record length
(2)	ADDRESS	2	EJRDS_ID	CorbaServer stats id
(4)	CHARACTER	1	EJRDS_VERS	CorbaServer stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	4	EJR_CORBASERVER_ NAME	
				CorbaServer Name
(C)	CHARACTER	255	EJR_JNDI_PREFIX	CorbaServer JNDI prefix
(10B)	CHARACTER	255	EJR_TCPIP_ HOST_NAME	
				CorbaServer TCP/IP Host name
(20A)	CHARACTER	255	EJR_SHELF_ DIRECTORY	
				CorbaServer Shelf directory
(309)	BITSTRING	3		Reserved
(30C)	BITSTRING	9		Reserved
(315)	BITSTRING	1	EJR_OUT_PRIVACY	CorbaServer Outbound Privacy

Table 192. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(316)	BITSTRING	2		Reserved
(318)	BITSTRING	4	EJR_SESSION_ TIMEOUT	
				CorbaServer Session Bean Timeout
(31C)	BITSTRING	4	EJR_OBJECT_ ACTIVATES	
				No. Object Activates
(320)	BITSTRING	4	EJR_OBJECT_ STORES	No. Object Stores
(324)	BITSTRING	4	EJR_FAILED_ ACTIVATES	
				No. Failed Activates
(328)	BITSTRING	4		Reserved
(32C)	CHARACTER	255	EJR_DJAR_ DIRECTORY	CorbaServer DJAR Directory
(42B)	BITSTRING	1		Reserved
(42C)	BITSTRING	8		Reserved
(434)	CHARACTER	56	EJR_TCPIP_ SERVICES (0)	CorbaServer TCP/IP Services
(434)	CHARACTER	8	EJR_TCPIP_UNAUTH	TCP/IP Service - Unauth
(43C)	CHARACTER	8	EJR_TCPIP_ CLIENTCERT	
				TCP/IP Service - Clientcert
(444)	CHARACTER	8	EJR_TCPIP_ UNAUTH_SSL	
				TCP/IP Service - Unauth SSL
(44C)	CHARACTER	8	EJR_TCPIP_ ASSERTED	TCP/IP Service - Asserted
(454)	CHARACTER	8		Reserved
(45C)	CHARACTER	8		Reserved
(464)	CHARACTER	8		Reserved
(46C)	BITSTRING	8		Reserved
(474)	CHARACTER	39	EJR_IP_ADDRESS	IP Address
(49B)	CHARACTER	1	EJR_IP_FAMILY	IP family
(49C)	CHARACTER	8	EJR_CORBAS_ DEFINE_SOURCE	
				Group installed from
(4A4)	BITSTRING	8	EJR_CORBAS_ CHANGE_TIME	
				Change/create time

Table 192. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4AC)	CHARACTER	8	EJR_CORBAS_ CHANGE_USERID	
				Change userid
(4B4)	BITSTRING	2	EJR_CORBAS_ CHANGE_AGENT	
				Change agent
(4B6)	BITSTRING	2	EJR_CORBAS_ INSTALL_AGENT	
				Install agent
(4B8)	BITSTRING	8	EJR_CORBAS_ INSTALL_TIME	
				Install/Create time
(4C0)	CHARACTER	8	EJR_CORBAS_ INSTALL_USERID	
				Install userid
(4C0)		0	EJRDS_END	"*"
(4C0)		0	EJRDS_LENGTH	"*-EJRDS_LEN" CorbaServer record length
Constants that denote a EJ CorbaServer stats record				
(4C0)	SIGNED	0	EJRIDR	"114" CorbaServer resid stats id
(4C0)	BITSTRING	0	EJR_VERS	"X'01'" Record version number
The following values relate to the EJ CorbaServer out_privacy.				
	....		EJR_OUTPRIVACY_ NOTSUPPORTED	
				"X'00'" OUTPRIVACY = NOTSUPPORTED
(4C0)	BITSTRING	0	EJR_OUTPRIVACY_ SUPPORTED	
				"X'01'" OUTPRIVACY = SUPPORTED
(4C0)	BITSTRING	0	EJR_OUTPRIVACY_ REQUIRED	
				"X'02'" OUTPRIVACY = REQUIRED
The following values relate to the EJ CorbaServer ip_family.				
	....		EJR_IP_ FAMILY_UNKNOWN	
				"X'00'" IP family = Unknown
(4C0)	BITSTRING	0	EJR_IP_ FAMILY_IPV4	"X'01'" IP family = IPv4
(4C0)	BITSTRING	0	EJR_IP_ FAMILY_IPV6	"X'02'" IP family = IPv6

Table 192. (continued)

Offset Hex	Type	Len	Name (dim)	Description
The following values relate to the RDO audit information Change Agents				
(4C0)	SIGNED	0	EJR_CSDAPI_ CHANGE	"0001" CSD API
(4C0)	SIGNED	0	EJR_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(4C0)	SIGNED	0	EJR_DREPAPI_ CHANGE	"0003" DREP API
(4C0)	SIGNED	0	EJR_CREATE_ CHANGE	"0004" EXEC CREATE SPI Install Agents
(4C0)	SIGNED	0	EJR_CSDAPI_ INSTALL	"0001" CSD API
(4C0)	SIGNED	0	EJR_CREATE_ INSTALL	"0004" EXEC CREATE SPI
(4C0)	SIGNED	0	EJR_GRPLIST_ INSTALL	
				"0005" GRPLIST

EPAP Event Processing Adaptparm Container

```
!:refstep.dfhepap_dsect_plx --------------------------- DFHEPAP 75 -
!
!
! This copybook describes the DFHEP.ADAPTPARM container that
! contains parameter data for invocation of a CICS EP adapter.
!
! A CICS EVENT object consists of the following containers:
!
! DFHEP.ADAPTER
! - a container for the EP adapter configuration
! DFHEP.ADAPTPARM
! - a container for the EP adapter invocation parameters
! DFHEP.CONTEXT
! - a container for the contextual data common to all events
! DFHEP.DESCRIPTOR
! - a container describing the list of capture data items
! DFHEP.DATA.nnnnn
! - a container for each captured data item where nnnnn is a 5
! decimal digit sequence number that indicates the ordering of the
! captured data starting at '00001'.
!
!-----------------------------------------------------------------
```

Table 193.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	44	EPAP	EP adapter parameter data
(0)	CHARACTER	4	EPAP_STRUCID	Structure identifier EPAP
(4)	FULLWORD	4	EPAP_VERSION	Structure version number

Table 193. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	32	EPAP_ADAPTERNAME	EP adapter name
(28)	CHARACTER	1	EPAP_RECOVER	Emission recoverability
(29)	CHARACTER	3	*	Reserved

Constants

Table 194.

Len	Type	value	Name	Description
Values of EPAP_StrucId				
4	CHARACTER	EPAP	EPAP_STRUC_ID	
Values of EPAP_Version				
4	DECIMAL	1	EPAP_VERSION_1	
4	DECIMAL	1	EPAP_CURRENT_VERSION	
Values of EPAP_Recover				
1	CHARACTER	R	EPAP_RECOVERABLE	
1	CHARACTER	N	EPAP_NON_ RECOVERABLE	
1	CHARACTER		EPAP_ANY_ RECOVERABLE	

EPCX Event Processing Context Container

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

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

A CICS EVENT object consists of the following containers:

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

    !---------------------------------------------------------------
```

Table 195.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	195	EPCX	Event contextual data
(0)	CHARACTER	4	EPCX_STRUCID	Structure identifier EPCX
(4)	FULLWORD	4	EPCX_VERSION	Structure version number
(8)	HALFWORD	2	EPCX_SCHEMA_VERSION	Schema version number
(A)	HALFWORD	2	EPCX_SCHEMA_RELEASE	Schema release number
(C)	CHARACTER	120	EPCX_CHAR_DATA	Character data
(C)	CHARACTER	32	EPCX_EVENT_BINDING	Event Binding Name
(2C)	CHARACTER	32	EPCX_CS_NAME	Capture Spec name
(4C)	CHARACTER	8	EPCX_EBUSERTAG	Event Binding user tag
(54)	CHARACTER	32	EPCX_BUSINESSEVENT	Business event name
(74)	CHARACTER	8	EPCX_NETQUAL	Network Applid Qualifier
(7C)	CHARACTER	8	EPCX_APPLID	Applid
(84)	CHARACTER	4	EPCX_TRANID	Transaction Id
(88)	CHARACTER	8	EPCX_USERID	User Id
(90)	CHARACTER	8	EPCX_ABSTIME	ABSTIME of event
(98)	CHARACTER	1	EPCX_EVENT_TYPE	Application or system
(99)	CHARACTER	3	*	Reserved
(9C)	CHARACTER	8	EPCX_PROGRAM	Current program name
(A4)	FULLWORD	4	EPCX_RESP	EIBRESP
(A8)	CHARACTER	27	EPCX_UOWID	Network UOW Id

Constants

Table 196.

Len	Type	value	Name	Description
Values of EPCX_StrucId				
4	CHARACTER	EPCX	EPCX_STRUC_ID	
Values of EPCX_Version				
4	DECIMAL	1	EPCX_VERSION_1	
4	DECIMAL	2	EPCX_VERSION_2	
4	DECIMAL	2	EPCX_CURRENT_VERSION	
Values of EPCX_SchemaVersion				
2	DECIMAL	1	EPCX_SCHEMA_ VERSION_1	
2	DECIMAL	2	EPCX_SCHEMA_ VERSION_2	

Table 196. (continued)

Len	Type	value	Name	Description
2	DECIMAL	2	EPCX_CURRENT_ SCHEMA_VERSION	
Values of EPCX_SchemaRelease				
2	DECIMAL	0	EPCX_SCHEMA_ RELEASE_0	
2	DECIMAL	0	EPCX_CURRENT_ SCHEMA_RELEASE	
Values of EPCX_EventType				
1	CHARACTER	A	EPCX_APPLICATION	
1	CHARACTER	S	EPCX_SYSTEM	

EPDE Event Processing Descriptor

```
!:refstep.dfhepde_dsect_plx -------------------------- DFHEPDE 80 -
!
!
! CONTROL BLOCK NAME = DFHEPDEC
!
! FUNCTION
!
! The EPDE is a definition of the DFHEP.DESCRIPTOR container that
! describes the data captured for a CICS EVENT and the formatting
! attributes specified for the event data.
!
! A CICS EVENT object consists of the following containers named
! DFHEP.xxxxx
!
! ADAPTER
! A container for the EPAdapter configuration.
! ADAPTPARM
! A container for the EPAdapter invocation parms.
! CONTEXT
! A container for the contextual data common to all events.
! DESCRIPTOR
! A container describing the list of capture data items.
! DFHEP.DATA.nnnnn
! A container for each captured data item where nnnnn is a 5
! decimal digit sequence number that indicates the ordering of the
! captured data starting at '00001'.
!
! The DESCRIPTOR is created from the XML definition of an event
! which is, normally, created using the CICS event binding editor
! and installed into CICS via a BUNDLE.
!
! Each CICS event object passed to an EP adapter contains a
! DFHEP.DESCRIPTOR container. This container has a prefix and an
! array of item definitions, one per data item captured, so that the
! DFHEP.DATA.nnnnn container will hold the data corresponding to the
! nth item in the EPDE_Item array.
!
! Each item in the DESCRIPTOR array defines the type of the source
! data captured and the required length and type of that data
! when/if it is formatted. The source data type is given in field
! EPDE_DataType and can take any of the following values:
!
! PACKED
! Packed decimal.
! ZONED
```

```
                    ! Zoned decimal.
                    ! HEX
                    ! Hexadecimal.
                    ! UHWORD
                    ! Unsigned halfword.
                    ! UFWORD
                    ! Unsigned fullword.
                    ! SHWORD
                    ! Signed halfword.
                    ! SFWORD
                    ! Signed fullword.
                    ! CHAR
                    ! Character.
                    ! HEXFLOAT
                    ! Hexadecimal floating point (HFP).
                    ! BINFLOAT
                    ! Binary floating point (BFP).
                    ! DECFLOAT
                    ! Decimal floating point (DFP).
                    ! HEXZ
                    ! Null terminated hexadecimal.
                    ! CHARZ
                    ! Null terminated character.
                    !
                    ! Notes:
                    !
                    ! - The sign in zoned decimal data captured from COBOL programs may
                    ! be leading or trailing, and either separate or included in the
                    ! numeric data.
                    !
                    ! - We distinguish between CHAR and CHARZ, HEX and HEXZ for
                    ! information only. The data captured does not include the
                    ! terminating null.
                    !
                    ! The captured data will be exactly as found in the source data. Its
                    ! length can be derived from the length of the data container.
                    ! Whatever data is available up to the length specified in the
                    ! capture data item spec will be captured. If the capture data is
                    ! not available then the corresponding DFHEP.DATA container will not
                    ! be created.
                    !
                    !-----------------------------------------------------------------
```

Table 197.

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

Table 198.

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

Constants

Table 199.

Len	Type	value	Name	Description
Values of strucid				
4	CHARACTER	EPDE	EPDE_STRUC_ID	
Values of version				
2	DECIMAL	1	EPDE_VERSION_1	
2	DECIMAL	1	EPDE_CURRENT_VERSION	
Values of EPDE_DataType				
8	CHARACTER	PACKED	EPDE_PACKED	
8	CHARACTER	ZONED	EPDE_ZONED	
8	CHARACTER	HEX	EPDE_HEX	
8	CHARACTER	UHWORD	EPDE_UHWORD	
8	CHARACTER	UFWORD	EPDE_UFWORD	
8	CHARACTER	SHWORD	EPDE_SHWORD	
8	CHARACTER	SFWORD	EPDE_SFWORD	
8	CHARACTER	CHAR	EPDE_CHAR	
8	CHARACTER	HEXFLOAT	EPDE_HEXFLOAT	
8	CHARACTER	BINFLOAT	EPDE_BINFLOAT	
8	CHARACTER	DECFLOAT	EPDE_DECFLOAT	
8	CHARACTER	HEXZ	EPDE_HEXZ	
8	CHARACTER	CHARZ	EPDE_CHARZ	
Values of EPDE_FormatType				
16	CHARACTER	text	EPDE_TEXT	
16	CHARACTER	numeric	EPDE_NUMERIC	
16	CHARACTER	scientific	EPDE_SCIENTIFIC	
Values of EPDE_FormatLen				
4	DECIMAL	0	EPDE_FORMATLEN_AUTO	

Table 199. (continued)

Len	Type	value	Name	Description
Values of EPDE_FormatPrecision				
4	DECIMAL	-1	EPDE_FORMATPREC_AUTO	

EPFE Event Processing Flattened Event

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

Table 200.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	228	EPFE	EPFE
(0)	CHARACTER	228	EPFE_CONTEXTDATA	Event context
(0)	CHARACTER	4	EPFE_STRUCID	Structure identifier EPFE
(4)	CHARACTER	4	EPFE_VERSION	Version
(8)	CHARACTER	32	EPFE_EVENTBINDING	Event Binding Name
(28)	CHARACTER	8	EPFE_EBUSERTAG	Event Binding user tag
(30)	CHARACTER	32	EPFE_BUSINESSEVENT	
				Business event name
(50)	CHARACTER	54	EPFE_NETWORKUOWID	Network UOW ID
(86)	CHARACTER	17	EPFE_NETQUALAPPLID	
				Network qualified applid
(97)	CHARACTER	29	EPFE_DATETIME	Capture date and time
(B4)	CHARACTER	32	EPFE_CSNAME	Capture specification name
(D4)	CHARACTER	16	*	Reserved
(E4)	CHARACTER	0	EPFE_EVENTDATA	Start of event data

Constants

Table 201.

Len	Type	value	Name	Description
Values of EPFE_StrucId				
4	CHARACTER	EPFE	EPFE_STRUC_ID	

Table 201. (continued)

Len	Type	value	Name	Description
Values of EPFE_Version				
4	CHARACTER	0001	EPFE_VERSION_1	
4	CHARACTER	0002	EPFE_VERSION_2	

EPGDS Event Processing Global Statistics

```
CONTROL BLOCK NAME = DFHEPGDS
DESCRIPTIVE NAME  = CICS EP Domain (Eventproc) Global
Statistics
    @BANNER_START 02
                        DFHEPGDS
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION =
        This data area contains the eventprocess global statistics
        provided by the EP Domain.
        It is provided for use in users monitoring applications
        to map the statistics returned via the API or the
        statistics global user exit.
        There is a single instance of this data block.
LIFETIME =
        This data block is created by the EP Domain to store
        statistics to be passed to the user in response to a
        for eventprocess global statistics. The storage is
        released when the user task is detached.
        The DSECT also maps the contents of part of the SMF buffer
        created by the statistics domain and is used in the
        statistics exit.
STORAGE CLASS =
LOCATION =
        The user is passed a pointer to the head of the storage
        block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 -------------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHEPGDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 202.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHEPGDS	EP Domain Global stats record
(0)	HALFWORD	2	EPGDS_LEN	EP Domain stats record length
(2)	ADDRESS	2	EPGDS_ID	EP Domain stats id
(4)	CHARACTER	1	EPGDS_VERS	EP Domain stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	EPG_PUT_EVENTS	Put Events

Table 202. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	FULLWORD	4		Reserved
(10)	FULLWORD	4		Reserved
(14)	FULLWORD	4	EPG_COMMIT_ FORWARD_EVENTS	
				Commit forward async events
(18)	FULLWORD	4	EPG_COMMIT_ BACKWARD_EVENTS	
				Commit backward async events
(1C)	BITSTRING	8		Reserved
(24)	FULLWORD	4	EPG_CURRENT_ EVC_QUEUE	
				Current event capture queue
(28)	FULLWORD	4	EPG_PEAK_ EVC_QUEUE	Peak event capture queue
(2C)	FULLWORD	4	EPG_CURRENT_ TRANS_QUEUE	
				Current transactional queue
(30)	FULLWORD	4	EPG_PEAK_ TRANS_QUEUE	
				Peak transactional queue
(34)	FULLWORD	4	EPG_ASYNC_ NORMAL_EVENTS	
				Async normal events
(38)	FULLWORD	4	EPG_ASYNC_ PRIORITY_EVENTS	
				Async priority events
(3C)	BITSTRING	8		Reserved
(44)	FULLWORD	4		Reserved
(48)	FULLWORD	4		Reserved
(4C)	FULLWORD	4	EPG_TRANS_EVENTS	Transactional events
(50)	FULLWORD	4	EPG_TRANS_ EVENTS_DISCARDED	
				Transactional events disc
(54)	FULLWORD	4	EPG_SYNC_EVENTS	Synchronous events
(58)	FULLWORD	4	EPG_SYNC_ EVENTS_FAILED	
				Synchronous events failed
(5C)	BITSTRING	8		Reserved

Table 202. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(64)	FULLWORD	4	EPG_DISPATCHERS_ ATTACHED	
				Dispatcher tasks attached
(68)	FULLWORD	4	EPG_CURRENT_ DISPATCHERS	
				Current dispatcher tasks
(6C)	FULLWORD	4	EPG_PEAK_ DISPATCHERS	
				Peak dispatcher tasks
(70)	FULLWORD	4		Reserved
(74)	FULLWORD	4	EPG_CUSTOM_ ADAPTER_EVENTS	
				Events to Custom EP adapter
(78)	FULLWORD	4	EPG_WMQ_ ADAPTER_EVENTS	
				Events to WMQ EP adapter
(7C)	FULLWORD	4	EPG_TRANS_ ADAPTER_EVENTS	
				Events to Trans EP adapter
(80)	FULLWORD	4	EPG_TSQUEUE_ ADAPTER_EVENTS	
				Events to Tsqueue adapter
(84)	FULLWORD	4	EPG_HTTP_ ADAPTER_EVENTS	
				Events to HTTP adapter
(88)	FULLWORD	4		Reserved
(8C)	FULLWORD	4	EPG_DISPATCH_ FAILURE_CONFIG	
				Events lost - config
(90)	FULLWORD	4	EPG_DISPATCH_ FAILURE_OTHER	
				Events lost - other
(94)	FULLWORD	4	EPG_ADAPTER_ FAILURE_CONFIG	
				Events lost - config
(98)	FULLWORD	4	EPG_ADAPTER_ FAILURE_OTHER	
				Events lost - other

Table 202. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9C)	FULLWORD	4	EPG_EVENTS_ ADAPTER_UNAVAIL	
				Events lost - no adapter
(A0)	BITSTRING	16		Reserved
(A0)		0	EPGDS_END	"*"
(A0)		0	EPGDS_LENGTH	"*-EPGDS_LEN" EP Domain Global record length
Constants that denote a EP domain global stats record				
(A0)	SIGNED	0	EPGIDE	"142" Eventprocess global stats id
(A0)	BITSTRING	0	EPG_VERS	"X'01'" Record version number

EPRDS Event Processing Resource Statistics

```
CONTROL BLOCK NAME = DFHEPRDS
DESCRIPTIVE NAME  = CICS EP Domain (EP) Resource Statistics
   @BANNER_START 02
                         DFHEPGDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
       This data area contains the eventprocess resource statistics
       provided by the EP Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the
       statistics global user exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the EP Domain to store
       statistics to be passed to the user in response to a request
       for eventprocess resource statistics. The storage is
       released when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 -------------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHEPRDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 203.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHEPRDS	EP resource stats record
(0)	HALFWORD	2	EPRDS_LEN	EP resource stats record length
(2)	ADDRESS	2	EPRDS_ID	EP resource stats id
(4)	CHARACTER	1	EPRDS_VERS	EP resource stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	32	EPR_ADAPTER_NAME	EP adapter name
(28)	BITSTRING	1	EPR_ADAPTER_TYPE	EP adapter type
(29)	BITSTRING	1	EPR_EMISSION_ MODE	Events are sync or async
(2A)	BITSTRING	2		Reserved
(2C)	FULLWORD	4	EPR_PUT_EVENTS	put_events for this adapter
(30)	BITSTRING	16		Reserved
(40)	CHARACTER	8	EPR_ADA_ DEFINE_SOURCE	
				Group installed from
(48)	BITSTRING	8	EPR_ADA_ CHANGE_TIME	
				Change/create time
(50)	CHARACTER	8	EPR_ADA_ CHANGE_USERID	
				Change userid
(58)	BITSTRING	2	EPR_ADA_ CHANGE_AGENT	
				Change agent
(5A)	BITSTRING	2	EPR_ADA_ INSTALL_AGENT	
				Install agent
(5C)	BITSTRING	8	EPR_ADA_ INSTALL_TIME	
				Install/Create time
(64)	CHARACTER	8	EPR_ADA_ INSTALL_USERID	
				Install userid
(64)		0	EPRDS_END	"*"
(64)		0	EPRDS_LENGTH	"*-EPRDS_LEN" EP Domain resource record length
Constants that denote a EP domain resource stats record				
(64)	SIGNED	0	EPRIDE	"144" Eventprocess resource stats id

Table 203. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(64)	BITSTRING	0	EPR_VERS	"X'01'" Record version number
The following values relates to epr_emission_mode				
(64)	SIGNED	0	EPR_EMODE_SYNC	"01"
(64)	SIGNED	0	EPR_EMODE_ASYNC	"02"
The following values relates to epr_adapter_type				
(64)	SIGNED	0	EPR_ATYPE_CUSTOM	"01"
(64)	SIGNED	0	EPR_ATYPE_WMQ	"02"
(64)	SIGNED	0	EPR_ATYPE_ TRANSTART	
				"03"
(64)	SIGNED	0	EPR_ATYPE_ TSQUEUE	"04"
(64)	SIGNED	0	EPR_ATYPE_HTTP	"05" Change Agents
(64)	SIGNED	0	EPR_CSDAPI_ CHANGE	"0001" CSD API
(64)	SIGNED	0	EPR_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(64)	SIGNED	0	EPR_DREPAPI_ CHANGE	"0003" DREP API
(64)	SIGNED	0	EPR_CREATE_ CHANGE	"0004" EXEC CREATE SPI Install Agents
(64)	SIGNED	0	EPR_BUNDLE_ INSTALL	"0009" BUNDLE

ETC EXEC terminal control

```
CONTROL BLOCK NAME = DFHETCDS
DESCRIPTIVE NAME  = CICS EXEC Terminal Control
```

Table 204.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHETCDS	
The EXEC terminal-control control block describes the storage used to hold data relatin to ATTACH function management headers (FMHs). Several such blocks may be created for a task and are chained from the EXEC interface structure (field EISCAHCB). Individual blocks may also be chained from TCTTEs owned by the task (field TCTEEIEX). ALLOW FOR (USER) STORAGE ACCOUNTING INFORMATION				
(0)	ADDRESS	4	(2)	* *
FIRST COME DEFINITIONS FOR CONTROL BLOCK AND DATA MANIPULATION.				
(8)	ADDRESS	4	ETCBFCHN	POINTER TO NEXT EXEC TC CONTROL BLOCK

Table 204. (continued)

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

Table 204. (continued)

Offset Hex	Type	Len	Name (dim)	Description
NOW COME DEFINITIONS FOR FIELDS THAT RELATE TO AN LU6 ATTACH HEADER				
(25)	CHARACTER	1	LU6MTYP	VALUE PUT IN FMHXMOD
(26)	CHARACTER	1	LU6DS	VALUE PUT IN FMHADS
(27)	CHARACTER	1	LU6DBA	VALUE PUT IN FMHADBA *
NOW COME DEFINITIONS FOR OPTIONAL FIELDS THAT RELATE TO AN LU6 ATTACH HEADER				
(28)	CHARACTER	1	LU6EXIST	VALUES PRESENT IN FMH
(28)	BITSTRING	0	LU6DPNX	"X'80'" DPN PRESENT
(28)	BITSTRING	0	LU6PRNX	"X'40'" PRN PRESENT
(28)	BITSTRING	0	LU6RDPNX	"X'20'" RDPN PRESENT
(28)	BITSTRING	0	LU6RPRNX	"X'10'" RPRN PRESENT
(28)	BITSTRING	0	LU6DQNX	"X'08'" DQN PRESENT *
(29)	CHARACTER	8	LU6DPN	VALUE PUT IN FMHATDPN
(31)	CHARACTER	8	LU6PRN	VALUE PUT IN FMHATPRN
(39)	CHARACTER	8	LU6RDPN	VALUE PUT IN FMHARDPN
(41)	CHARACTER	8	LU6RPRN	VALUE PUT IN FMHARPRN
(49)	CHARACTER	8	LU6DQN	VALUE PUT IN FMHATDQN *
LASTLY COME DEFINITIONS FOR FIELDS THAT RELATE TO WHAT HAS BEEN DONE TO THE DATA				
(51)	CHARACTER	1	ETCBPRE	IF SET, PREPARE HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB
(52)	CHARACTER	1	ETCBLU6	IF SET, LU6 ATTACH HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB
(53)	CHARACTER	1	ETCBLUC	IF SET, LU6 ATTACH HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB

Table 204. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	CHARACTER	1	ETCBFMH	IF SET, DATA RETURNED TO CALLER CONTAINS ONE OR MORE FMHS
(55)	CHARACTER	1	ETCBERR	IF SET, FMH IS NOT CONTAINED WITHIN THE SPECIFIED DATA LIMITS
(58)	DBL WORD	8	ETCBEND (0)	
(58)		0	ETCBCLR	"*-ETCBID" LENGTH OF DATA IN CONTROL BLOCK THAT IS CLEARED WHEN AN ETCB IS FREED
(58)		0	ETCBLEN	"*-ETCBFCHN" OVERALL LENGTH OF AN ETCB CONTROL BLOCK

FCE File control EXEC argument list

```
CONTROL BLOCK NAME = DFHFCEDS
DESCRIPTIVE NAME  = CICS EXEC argument list for File Control
 @BANNER_START 02
                      DFHFCEDS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
PRODUCT SENSITIVE PROGRAMMING INTERFACES
     The following fields are part of the Product-Sensitive
     Programming Interface.
             FC_ADDR0
             FC_ADDR1
             FC_ADDR2
             FC_ADDR3
             FC_ADDR4
             FC_ADDR5
             FC_ADDR6
             FC_ADDR7
             FC_ADDRB
             FC_GROUP
             FC_FUNCT
             FC_BITS1
             FC_BITS2
             FC_EIDOPT5
             FC_EIDOPT6
             FC_EIDOPT7
             FC_EIDOPT8
             FC_FILE
             FC_SET
             FC_INTO
             FC_FROM
             FC_LENGTH
             FC_NUMREC
```

```
                        FC_REQID
                        FC_RIDFLD
                        FC_KEYLENGTH
                        FC_RNP_REQID
                        FC_SYSID
                        FC_IND1
            FUNCTION =
                To define fields that may be of use to File Control User
                Exits:-
                  (1) The Command Level Parameter List.
                  (2) EIBRCODE, EIBRESP and EIBRESP2 values.
                  (3) The byte of File Control Indicators.
                On entry to the XFCREQ and XFCREQC User exits, the EXEC
                parameter list is pointed to by UEPCLPS. The EXEC
                parameter list for file control consists of twelve
                addresses.
                The twelve addresses are defined by FC_ADDR0 to FC_ADDRB.
                Only FC_ADDR0 to FC_ADDR7 may be used by user exits, and
                also FC_ADDRB.
                FC_ADDR8 to FC_ADDRA are reserved for CICS internal use
                only.
                This DSECT defines FC_ADDR0 to FC_ADDRB and the areas
                that they point to.
                On entry to the XFCREQ and XFCREQC user exits, the copy
                of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP
                is pointed by UEPRESP and the copy of EIBRESP2 is pointed
                to by UEPRESP2.
                This DSECT also contains equates for values of EIBRCODE,
                EIBRESP and EIBRESP2 used by File Control.
            LIFETIME = Lifetime of the FC command request
            STORAGE CLASS = As the storage being mapped is the translated
                            source in the user's application program, the
                            storage may be either above or below the line.
            LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.
                       (2) Fields copied from the EIB are addressed by
                           UEPRCODE, UEPRESP and UEPRESP2.
                       (3) The token for use in communicating between
                           XFCREQ and XFCREQC is addressed by UEPFCTOK.
            INNER CONTROL BLOCKS =
                FC_ADDR_LIST declares the EXEC addresses
                FC_EID defines the EID pointed by FC_ADDR0
            NOTES :
             DEPENDENCIES = S/370 ESA
             RESTRICTIONS = None
             MODULE TYPE = Control Block definition
        -------------------------------------------------------------------
            The Command Parameter List
        FC_ADDR_LIST defines twelve addresses, that form the EXEC
        parameter list for File Control. Only FC_ADDR0 to FC_ADDR7
        and FC_ADDRB may be referenced by user exits.
        In addition, FC_ADDR1 to FC_ADDR7 and FC_ADDRB may be modified by
        a user exit.
        Any attempt to modify FC_ADDR0 will be ignored.
```

Table 205.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	FC_ADDR_LIST	EXEC Parameter List
(0)	ADDRESS	4	FC_ADDR0	Address 0
(4)	ADDRESS	4	FC_ADDR1	Address 1
(8)	ADDRESS	4	FC_ADDR2	Address 2
(C)	ADDRESS	4	FC_ADDR3	Address 3
(10)	ADDRESS	4	FC_ADDR4	Address 4

Offset Hex	Type	Len	Name (dim)	Description
(14)	ADDRESS	4	FC_ADDR5	Address 5
(18)	ADDRESS	4	FC_ADDR6	Address 6
(1C)	ADDRESS	4	FC_ADDR7	Address 7
(20)	ADDRESS	4	FC_ADDR8	CICS Internal Use Only
(24)	ADDRESS	4	FC_ADDR9	CICS Internal Use Only
(28)	ADDRESS	4	FC_ADDRA	CICS Internal Use Only
(2C)	ADDRESS	4	FC_ADDRB	Address 11

```
FC_EID defines:
  (1) The type of request
  (2) Existence bits indicating which addresses in the EXEC
      Parameter List are valid.
  (3) Bits to indicate the keywords specified.
FC_ADDR0 contains the address of FC_EID.
The following bits may be modified from a File Control user exit.
  (1) Existence bits FC_EXIST3, FC_EXIST5, FC_EXIST6, FC_EXIST7
      and FC_EXISTB.
  (2) The keyword descriptors FC_MASSINSERT_X, FC_GENERIC_X,
      FC_GTEQ_X, FC_NRI_X, FC_CR_X, FC_RR_X and
      FC_NO_SUSPEND.
Any attempt to modify any other part of the EID will be ignored.
```

Table 206.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	FC_EID	EID for File Control
(0)	CHARACTER	1	FC_GROUP	Group Code
(0)	BITSTRING	0	FC_FILE_GROUP	"X'06'" All File Control Requests ..
(1)	CHARACTER	1	FC_FUNCT	Function Code
(1)	BITSTRING	0	FC_READ	"X'02'" READ Request
(1)	BITSTRING	0	FC_WRITE	"X'04'" WRITE Request
(1)	BITSTRING	0	FC_REWRITE	"X'06'" REWRITE Request
(1)	BITSTRING	0	FC_DELETE	"X'08'" DELETE Request
(1)	BITSTRING	0	FC_UNLOCK	"X'0A'" UNLOCK Request
(1)	BITSTRING	0	FC_STARTBR	"X'0C'" STARTBR request
(1)	BITSTRING	0	FC_READNEXT	"X'0E'" READNEXT Request
(1)	BITSTRING	0	FC_READPREV	"X'10'" READPREV Request
(1)	BITSTRING	0	FC_ENDBR	"X'12'" ENDBR Request

Table 206. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	BITSTRING	0	FC_RESETBR	"X'14'" RESETBR Request
(1)	BITSTRING	0	FC_REPLACE	"X'16'" REPLACE Request
(1)	BITSTRING	0	FC_REPLDEL	"X'18'" REPLACE_DELETE Request
The next two bytes contain existence bits for the addresses in the EXEC parameter list. For example, FC_ADDR1 should not be used unless FC_EXIST1 is set on. FC_ADDR0 is always valid and has no existence bit.				
(2)	BITSTRING	1	FC_BITS1	First 8 existence bits
(2)	BITSTRING	0	FC_EXIST1	"X'80'" FC_ADDR1 is valid if the command specifies FILE
(2)	BITSTRING	0	FC_EXIST2	"X'40'" FC_ADDR2 is valid if the command specifies INTO, SET or FROM
(2)	BITSTRING	0	FC_EXIST3	"X'20'" FC_ADDR3 is valid if the command specifies LENGTH or NUMREC. It is also valid if a STARTBR, RESETBR or ENDBR specifies REQID. This bit may be modified by a user exit.
(2)	BITSTRING	0	FC_EXIST4	"X'10'" FC_ADDR4 is valid if the command specifies RIDFLD.
(2)	BITSTRING	0	FC_EXIST5	"X'08'" FC_ADDR5 is valid if the command specifies KEYLENGTH. This bit may be modified by a user exit.
(2)	BITSTRING	0	FC_EXIST6	"X'04'" FC_ADDR6 is valid if the command is READNEXT or READPREV and it specifies REQID. This bit may be modified by a user exit.
(2)	BITSTRING	0	FC_EXIST7	"X'02'" FC_ADDR7 is valid if the command specifies SYSID. This bit may be modified by a user exit.
(2)	BITSTRING	0	FC_EXIST8	"X'01'" CICS Internal Use Only

Table 206. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	BITSTRING	1	FC_BITS2	Next 8 existence bits
(3)	BITSTRING	0	FC_EXIST9	"X'80'" CICS Internal Use Only
(3)	BITSTRING	0	FC_EXISTA	"X'40'" CICS Internal Use Only
(3)	BITSTRING	0	FC_EXISTB	"X'20'" FC_ADDRB is valid if the command specifies TOKEN. This may be modified by a user exit.
	The next 5 bytes describe the keywords on the command For example, if FC_MASSINSERT is set on, the command included the MASSINSERT keyword. If FC_MASSINSERT is set off, the command did not include the MASSINSERT keyword.			
(4)	BITSTRING	1		Reserved
(5)	BITSTRING	1	FC_EIDOPT5	Options Byte 1
(5)	BITSTRING	0	FC_MASSINSERT_X	"X'04'" MASSINSERT specified. This bit may be modified by a user exit.
(5)	BITSTRING	0	FC_RRN_X	"X'02'" RRN specified
(5)	BITSTRING	0	FC_SET_X	"X'01'" SET specified
(6)	BITSTRING	1	FC_EIDOPT6	Options byte 2
(6)	BITSTRING	0	FC_RBA_X	"X'80'" RBA specified
(6)	BITSTRING	0	FC_GENERIC_X	"X'40'" GENERIC specified. This bit may be modified by a user exit.
(6)	BITSTRING	0	FC_GTEQ_X	"X'20'" GTEQ specified. This bit may be modified by a user exit.
(6)	BITSTRING	0	FC_NRI_X	"X'10'" NRI specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set.
(6)	BITSTRING	0	FC_CR_X	"X'08'" CR specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set.

Table 206. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6)	BITSTRING	0	FC_RR_X	"X'04'" RR specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set.
(6)	BITSTRING	0	FC_BRWS_UPD_X	"X'02'" Update specified on READNEXT or READPREV request. This bit may not be modified by the user exit.
(6)	BITSTRING	0	FC_NO_SUSPEND	"X'01'" NOSUSPEND specified on READ, READNEXT, READPREV, WRITE, DELETE, or REWRITE. This bit may be modified by the user exit.
(7)	BITSTRING	1	FC_EIDOPT7	Options Byte 3
(7)	BITSTRING	0	FC_UPDATE_X	"X'04'" UPDATE specified. WARNING. This bit should only be tested if the command is READ. For all other commands it has no meaning and may or may not be set depending on the command.
(7)	BITSTRING	0	FC_RLO_X	"X'02'" Record lock only READ UPDATE
(7)	BITSTRING	0	FC_DEBLOCK_X	"X'01'" BDAM Deblocking request Either DEBKEY or DEBREC specified EIDOPT8 will specify whether DEBKEY or DEBREC. WARNING. This bit should only be tested if the command is READ or STARTBR. For all other commands this bit has no meaning and it may or may not be set depending on the command.
(8)	BITSTRING	1	FC_EIDOPT8	Options Byte 4

Table 206. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	BITSTRING	0	FC_DEBKEY_X	"X'80'" DEBKEY specified
(8)	BITSTRING	0	FC_DEBREC_X	"X'40'" DEBREC specified
(8)	BITSTRING	0	FC_TOKEN_X	"X'20'" TOKEN specified
(8)	BITSTRING	0	FC_BYPASS_ SECURITY	"X'10'" No security check
(8)	BITSTRING	0	FC_XRBA_X	"X'08'" XRBA specified

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

Table 207.

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

```
FC_ADDR2 addresses either INTO, FROM or SET
```

Table 208.

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

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

Table 209.

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

FC_ADDR4 addresses RIDFLD

Table 210.

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

FC_ADDR5 addresses KEYLENGTH

Table 211.

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

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

Table 212.

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

FC_ADDR7 addresses SYSID

Table 213.

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

FC_ADDRB addresses TOKEN

Table 214.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	FC_DATAB	Addressed by FC_ADDRB
(0)	CHARACTER	4	FC_TOKEN	Area for TOKEN
Start of general use programming interface. EIBRCODE, EIBRESP and EIBRESP2 Equates for EIBRCODE values used by File Control				
(4)	BITSTRING	6	FC_OK_EIBRCODE	OK
(4)	BITSTRING	0	FC_FILENOTFOUND_ EIBRCODE	
				"X'01'" File not Found

Table 214. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	BITSTRING	0	FC_LOCKED_ EIBRCODE	"X'03'" LOCKED
(4)	BITSTRING	0	FC_RECORDBUSY_ EIBRCODE	
				"X'05'" RECORDBUSY
(4)	BITSTRING	0	FC_CHANGED_ EIBRCODE	
				"X'06'" CHANGED
(4)	BITSTRING	0	FC_NOTFND_ EIBRCODE	"X'81'" NOTFND
(4)	BITSTRING	0	FC_DUPREC_ EIBRCODE	"X'82'" DUPREC
(4)	BITSTRING	0	FC_DUPKEY_ EIBRCODE	"X'84'" DUPKEY
(4)	BITSTRING	0	FC_INVREQ_ EIBRCODE	"X'08'" INVREQ
(4)	BITSTRING	0	FC_IOERR_ EIBRCODE	"X'80'" IOERR
(4)	BITSTRING	0	FC_NOSPACE_ EIBRCODE	
				"X'83'" NOSPACE
(4)	BITSTRING	0	FC_NOTOPEN_ EIBRCODE	
				"X'0C'" NOTOPEN
(4)	BITSTRING	0	FC_ENDFILE_ EIBRCODE	
				"X'0F'" ENDFILE
(4)	BITSTRING	0	FC_ILLOGIC_ EIBRCODE	
				"X'02'" ILLOGIC
(4)	BITSTRING	0	FC_LENGERR_ EIBRCODE	
				"X'E1'" LENGERR
(4)	BITSTRING	0	FC_SYSIDERR_ EIBRCODE	
				"X'D0'" SYSIDERR
(4)	BITSTRING	0	FC_ISCINVREQ_ EIBRCODE	
				"X'D1'" ISCINVREQ
(4)	BITSTRING	0	FC_NOTAUTH_ EIBRCODE	
				"X'D6'" NOTAUTH
(4)	BITSTRING	0	FC_SUPPRESSED_ EIBRCODE	
				"X'85'" SUPPRESSED

Table 214. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	BITSTRING	0	FC_DISABLED_ EIBRCODE	
				"X'0D'" DISABLED
(4)	BITSTRING	0	FC_LOADING_ EIBRCODE	
				"X'86'" LOADING
Equates for EIBRESP values used by File Control				
	....		FC_OK_EIBRESP	"00" OK
(4)	SIGNED	0	FC_FILENOTFOUND_ EIBRESP	
				"12" File Not found
(4)	SIGNED	0	FC_NOTFND_ EIBRESP	"13" NOTFND (Record not found)
(4)	SIGNED	0	FC_DUPREC_ EIBRESP	"14" DUPREC
(4)	SIGNED	0	FC_DUPKEY_ EIBRESP	"15" DUPKEY
(4)	SIGNED	0	FC_INVREQ_ EIBRESP	"16" INVREQ
(4)	SIGNED	0	FC_IOERR_EIBRESP	"17" IOERR
(4)	SIGNED	0	FC_NOSPACE_ EIBRESP	"18" NOSPACE
(4)	SIGNED	0	FC_NOTOPEN_ EIBRESP	"19" NOTOPEN
(4)	SIGNED	0	FC_ENDFILE_ EIBRESP	"20" ENDFILE
(4)	SIGNED	0	FC_ILLOGIC_ EIBRESP	"21" ILLOGIC
(4)	SIGNED	0	FC_LENGERR_ EIBRESP	"22" LENGERR
(4)	SIGNED	0	FC_SYSIDERR_ EIBRESP	
				"53" SYSIDERR
(4)	SIGNED	0	FC_ISCINVREQ_ EIBRESP	
				"54" ISCINVREQ
(4)	SIGNED	0	FC_NOTAUTH_ EIBRESP	"70" NOTAUTH
(4)	SIGNED	0	FC_SUPPRESSED_ EIBRESP	
				"72" SUPPRESSED
(4)	SIGNED	0	FC_DISABLED_ EIBRESP	
				"84" DISABLED

Table 214. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	SIGNED	0	FC_LOADING_ EIBRESP	"94" LOADING
(4)	SIGNED	0	FC_LOCKED_ EIBRESP	"100" LOCKED
(4)	SIGNED	0	FC_RECORDBUSY_ EIBRESP	
				"101" RECORDBUSY
(4)	SIGNED	0	FC_CHANGED_ EIBRESP	"105" CHANGED
Equates for EIBRESP2 values used by File Control EIBRESP2 values are listed in numerical order. This can mean that not all of the EIBRESP2 values for a given EIBRESP are listed together; for example, not all of the EIBRESP2 values for NOSPACE are listed one after the other, because there are other EIBRESP2 values within that numerical range.				
	....		FC_OK_EIBRESP2	"0" OK
(4)	SIGNED	0	FC_FILENOTFOUND_ EIBRESP2	
				"1" File not Found
(4)	SIGNED	0	FC_LENGERR10_ EIBRESP2	
				"10" No variable length
(4)	SIGNED	0	FC_LENGERR11_ EIBRESP2	
				"11" Buffer too small (on read request)
(4)	SIGNED	0	FC_LENGERR12_ EIBRESP2	
				"12" Record too large (on write request)
(4)	SIGNED	0	FC_LENGERR13_ EIBRESP2	
				"13" Buffer length not file len. (read)
(4)	SIGNED	0	FC_LENGERR14_ EIBRESP2	
				"14" Record length not file len. (write)
(4)	SIGNED	0	FC_INVREQ20_ EIBRESP2	
				"20" Servreq violation
(4)	SIGNED	0	FC_INVREQ21_ EIBRESP2	
				"21" ESDS Delete
(4)	SIGNED	0	FC_INVREQ22_ EIBRESP2	

Table 214. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				"22" Generic delete not KSDS
(4)	SIGNED	0	FC_INVREQ23_ EIBRESP2	
				"23" Ridfld Key not record key
(4)	SIGNED	0	FC_INVREQ24_ EIBRESP2	
				"24" Readprev in generic browse
(4)	SIGNED	0	FC_INVREQ25_ EIBRESP2	
				"25" Generic key too long
(4)	SIGNED	0	FC_INVREQ26_ EIBRESP2	
				"26" Full key wrong length
(4)	SIGNED	0	FC_INVREQ27_ EIBRESP2	
				"27" BDAM delete
(4)	SIGNED	0	FC_INVREQ28_ EIBRESP2	
				"28" Two READ UPDATEs without TOKEN
(4)	SIGNED	0	FC_INVREQ29_ EIBRESP2	
				"29" Reserved
(4)	SIGNED	0	FC_INVREQ30_ EIBRESP2	
				"30" Rewrite before read update
(4)	SIGNED	0	FC_INVREQ31_ EIBRESP2	
				"31" Delete before read update
(4)	SIGNED	0	FC_INVREQ32_ EIBRESP2	
				"32" Reserved
(4)	SIGNED	0	FC_INVREQ33_ EIBRESP2	
				"33" Duplicate REQID
(4)	SIGNED	0	FC_INVREQ34_ EIBRESP2	
				"34" Unknown REQID Readnext

Table 214. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	SIGNED	0	FC_INVREQ35_ EIBRESP2	
				"35" Unknown REQID Endbr
(4)	SIGNED	0	FC_INVREQ36_ EIBRESP2	
				"36" Unknown REQID Resetbr
(4)	SIGNED	0	FC_INVREQ37_ EIBRESP2	
				"37" Illegal key type change
(4)	SIGNED	0	FC_INVREQ38_ EIBRESP2	
				"38" BDAM Write Massinsert
(4)	SIGNED	0	FC_INVREQ39_ EIBRESP2	
				"39" BDAM Readprev
(4)	SIGNED	0	FC_INVREQ40_ EIBRESP2	
				"40" BDAM Key Conversion
(4)	SIGNED	0	FC_INVREQ41_ EIBRESP2	
				"41" Unknown REQID Readprev
(4)	SIGNED	0	FC_INVREQ42_ EIBRESP2	
				"42" Keylength negative
(4)	SIGNED	0	FC_INVREQ43_ EIBRESP2	
				"43" SEGSET Specified (obsolete funct'n)
(4)	SIGNED	0	FC_INVREQ44_ EIBRESP2	
				"44" Not in data table subset
(4)	SIGNED	0	FC_INVREQ45_ EIBRESP2	
				"45" INVREQ from remote system
(4)	SIGNED	0	FC_INVREQ46_ EIBRESP2	

Table 214. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				"46" BDAM length change
(4)	SIGNED	0	FC_INVREQ47_ EIBRESP2	
				"47" Invalid TOKEN suppied
(4)	SIGNED	0	FC_INVREQ48_ EIBRESP2	
				"48" Reserved
(4)	SIGNED	0	FC_DISABLED_ EIBRESP2	
				"50" DISABLED
(4)	SIGNED	0	FC_INVREQ51_ EIBRESP2	
				"51" RBA access to RLS KSDS
(4)	SIGNED	0	FC_INVREQ52_ EIBRESP2	
				"52" CR specified, but file not RLS
(4)	SIGNED	0	FC_INVREQ53_ EIBRESP2	
				"53" RR specified, but file not RLS
(4)	SIGNED	0	FC_INVREQ54_ EIBRESP2	
				"54" Browse request specified UPDATE, but file is not RLS
(4)	SIGNED	0	FC_INVREQ55_ EIBRESP2	
				"55" A command specified NOSUSPEND but the file was not a VSAM file open in RLS mode.
(4)	SIGNED	0	FC_INVREQ56_ EIBRESP2	
				"56" Unit of work cannot make updates to any more recoverable coupling facility data tables
(4)	SIGNED	0	FC_INVREQ59_ EIBRESP2	
				"59" XRBA specified. Dataset is KSDS

Table 214. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	SIGNED	0	FC_NOTOPEN_ EIBRESP2	
				"60" NOTOPEN
(4)	SIGNED	0	FC_ISCINVREQ_ EIBRESP2	
				"70" ISCINVREQ
(4)	SIGNED	0	FC_NOTFND_ EIBRESP2	"80" NOTFND
(4)	SIGNED	0	FC_NOTFND_ XRBA_EIBRESP2	
				"81" NOTFND. Request specified XRBA>4G Data set is not extended addressing.
(4)	SIGNED	0	FC_ENDFILE_ EIBRESP2	
				"90" ENDFILE
(4)	SIGNED	0	FC_NOSPACE_ EIBRESP2	
				"100" NOSPACE
(4)	SIGNED	0	FC_NOTAUTH_ EIBRESP2	
				"101" NOTAUTH
(4)	SIGNED	0	FC_TABLE_ FULL_EIBRESP2	
				"102" NOSPACE - Data table full
(4)	SIGNED	0	FC_STORE_ FAIL_EIBRESP2	
				"103" NOSPACE - GETMAIN fail
(4)	SIGNED	0	FC_LOADING_ EIBRESP2	
				"104" LOADING
(4)	SIGNED	0	FC_SUPPRESSED_ EIBRESP2	
				"105" SUPPRESSED
(4)	SIGNED	0	FC_LOCKED_ EIBRESP2	"106" LOCKED
(4)	SIGNED	0	FC_RECORDBUSY_ EIBRESP2	
				"107" RECORDBUSY
(4)	SIGNED	0	FC_CFDTPOOL_ FULL_EIBRESP2	

Table 214. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				"108" NOSPACE - CFDT pool full
(4)	SIGNED	0	FC_CHANGED_ EIBRESP2	
				"109" Record CHANGED since read upd
(4)	SIGNED	0	FC_ILLOGIC_ EIBRESP2	
				"110" ILLOGIC
(4)	SIGNED	0	FC_IOERR_ EIBRESP2	"120" IOERR
(4)	SIGNED	0	FC_SYSIDERR_ EIBRESP2	
				"130" SYSIDERR
(4)	SIGNED	0	FC_CFDT_ SYSIDERR_EIBRESP2	
				"131" SYSIDERR - CFDT server failed
(4)	SIGNED	0	FC_CFDT_ NOTABLE_EIBRESP2	
				"132" SYSIDERR - CF data table gone
(4)	SIGNED	0	FC_SYSIDERR_ XRBA_EIBRESP2	
				"133" SYSIDERR - File Owning Region does not support XRBA. Link is MRO. Error detected in AOR.
(4)	SIGNED	0	FC_DUPKEY_ EIBRESP2	"140" DUPKEY
(4)	SIGNED	0	FC_DUPREC_ EIBRESP2	"150" DUPREC
End of general use programming interface.				

FCLGC File Control Log Record Format *LGA

```
          CONTROL BLOCK NAME = DFHFCLGC
          DESCRIPTIVE NAME  = CICS (FC) File Control Part of Log
     Record
          @BANNER_START 02
                           DFHFCLGC
          Licensed Materials - Property of IBM
          "Restricted Materials of IBM"
          5655-S97
          @BANNER_END
          FUNCTION =
              This describes the format of File Control's part of log
              records written to the system log for backout, log records
              written to forward recovery logs and autojournal records
```

```
            written to autojournals.
 LIFETIME =
      This just describes the layout of log and journal records
      so does not have any particular lifetime.
 LOCATION =
      Log and journal records are built in LIFO storage by
      module DFHFCLJ.
 STORAGE CLASS =
      Since log and journal records are built in DFHFCLJ's LIFO
      this is CICS storage class.
 INNER CONTROL BLOCKS =
      None
 NOTES :
  DEPENDENCIES = S/390
  RESTRICTIONS = None
  MODULE TYPE = Control block definition
  All fields contained in this DSECT may be used to interpret
  CICS log and journal records and as such form part of the
  General-Use Programming Interface.
-----------------------------------------------------------------------
 EXTERNAL REFERENCES =
        None.
   DATA AREAS =
        None.
   CONTROL BLOCKS =
        None.
   GLOBAL VARIABLES (Macro pass) =
        None.
-----------------------------------------------------------------------
 FLJB - File Log and Journal Block
 The FLJB forms the basis of the data that File Control writes as
 part of its log and journal records. The FLJB is, in general,
 built from two parts, one part which contains data that mostly
 applies to all log and journal records, and a second part which
 contains data specific to the type of record. All log and journal
 records have data specific to the type of record.
 The FLJB is always written to the log or journal (as appropriate),
 but there may also be some variable length data written
 immediately after the fixed length parts of the FLJB. Precisely
 what variable length data is written depends on the record type.
 The resulting log and journal records for each record type are
 described below.
 Note that what follows is a description of only what File Control
 writes to the log or journal. In practice these records themselves
 also have a header prepended to them, either by the CICS Logger
 (in the case of autojournal and forward recovery records) or by
 the Recovery Manager (for all system log records).
 The format of File Control's part of log and journal records
 written for read only, read update, write update, and write add,
 and journal records written for the write add complete record
 type, is as shown below. The respective length of each block is
 also indicated.
 o fljb_general_data of length length(fljb_general_data),
   followed by:
 o fljb_common_data of length length(fljb_common_data),
   followed by:
 o fljb_cd_key of length fljb_cd_key_length,
   followed by:
 o fljb_cd_data of length fljb_cd_data_length.
 The format of File Control's part of log records written for the
 write add complete record type, is as shown below. The respective
 length of each block is also indicated.
 o fljb_general_data of length length(fljb_general_data),
   followed by:
 o fljb_common_data of length length(fljb_common_data).
 The format of File Control's part of log and journal records
 written for write delete is shown below. The respective length of
```

```
                    each block is also indicated.
                    o fljb_general_data of length length(fljb_general_data),
                      followed by:
                    o fljb_write_delete_data of length length(fljb_write_delete_data),
                      followed by:
                    o fljb_wdd_base_key of length fljb_wdd_base_key_length,
                      followed by:
                    o fljb_wdd_path_key of length fljb_wdd_path_key_length.
                    The format of File Control's part of log and journal records
                    written for file close is shown below. This record is one of the
                    simplest of all the log and journal records. It just contains the
                    general data block followed by data specific to file close. The
                    respective length of each block is indicated alongside. There are
                    no variable length records in the file close record.
                    o fljb_general_data of length length(fljb_general_data),
                      followed by:
                    o fljb_file_close_data of length length(fljb_file_close_data).
                    The format of File Control's part of tie up records is shown
                    below. The respective length of each block is indicated alongside.
                    There are no variable length records in the tie up record.
                    o fljb_general_data of length length(fljb_general_data),
                      followed by:
                    o fljb_tie_up_record of length length(fljb_tie_up_record)
                    Notes on Extended Addressing ESDS records (EA ESDS)
                    The XRBA field for addressing EA ESDS records is 8 bytes,
                    therefore the key is specified in the same way as it is in the
                    case of KSDS keys.
                    In the common data record
                    fljb_cd_key is set to the 8 byte XRBA
                    fljb_cd_key_length is set to 8
                    fljb_cd_key_esds_rba is 0
                    In the write delete record
                    fljb_wdd_key is set to the 8 byte XRBA
                    fljb_wdd_key_length is set to 8
                    fljb_wdd_key_esds_rba is 0
                    In the tie up record
                    fljb_tur_base_key_length is set to 8
                    fljb_tur_dataset_type is set to 'X'
```

Table 215.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	FLJB_GENERAL_DATA	
(0)	CHARACTER	1	FLJB_RECORD_TYPE	80: read only 81: read update record 82: write update record 83: write add record 84: write add complete 86: write delete record 8E: file close record 8F: tie up record
(1)	BIT(8)	1	FLJB_BITS	general flag byte
	1...		FLJB_AUTOJOURNAL	ON: autojournal record OFF: otherwise
	.1..		FLJB_FWD_ RECOVERY	ON: forward recovery log record OFF: otherwise
	..1.		FLJB_SYSTEM_LOG	ON: system log record OFF: otherwise
	...1		FLJB_LOG_ OF_LOGS	ON: log of logs record OFF: otherwise

Table 215. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		FLJB_BACKOUT	ON: written in backout OFF: otherwise
	.... .1..		FLJB_GENERAL_ EXTENDED_ESDS	
				ON: extended addressing ESDS OFF everything else
	11		*	reserved
(2)	CHARACTER	8	FLJB_FILE_NAME	name of the file which this record applies to
(A)	CHARACTER	2	*	reserved

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

Table 216.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	FLJB_COMMON_DATA	
(0)	UNSIGNED	4	FLJB_CD_ BASE_ESDS_RBA	
				base RBA of ESDS, or 0 if not an ESDS Also 0 for EA ESDS
(4)	HALFWORD	2	FLJB_CD_ KEY_LENGTH	length of the key for the users data
(6)	CHARACTER	2	*	reserved
(8)	FULLWORD	4	FLJB_CD_ DATA_LENGTH	
				length of the users data (This could be fixed(15) but allow for future expansion plans.)
(C)	BIT(8)	1	FLJB_CD_BITS	common flag byte
	1...		FLJB_CD_SHUNTED	ON: uow has been shunted OFF: otherwise
	.1..		FLJB_CD_ MASS_INSERT	
				ON: write mass insert when write add or write add complete OFF: otherwise
	..1.		FLJB_CD_ MI_FIRST	ON: first write add complete in mass insert sequence

Table 216. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		FLJB_CD_MI_LAST	ON: end of mi sequence WRTBFR/ENDREQ was successful.
	.... 1...		FLJB_CD_ FIXED_RECFM	
				ON: Fixed length record OFF: Variable length record.
	.... .111		*	reserved
(D)	CHARACTER	3	*	reserved

Write delete data

Table 217.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	FLJB_WRITE_ DELETE_DATA	
(0)	UNSIGNED	4	FLJB_WDD_ BASE_ESDS_RBA	
				base RBA of ESDS, or 0 if not an ESDS Also 0 for EA ESDS
(4)	HALFWORD	2	FLJB_WDD_ BASE_KEY_LENGTH	
				length of base key
(6)	HALFWORD	2	FLJB_WDD_ PATH_KEY_LENGTH	
				length of path key, or 0 if not a path
(8)	BIT(8)	1	FLJB_WDD_BITS	write delete flag byte
	1...		FLJB_WDD_ SHUNTED	ON: uow has been shunted OFF: otherwise
	.1..		FLJB_WDD_ FIXED_RECFM	
				ON: Fixed length record OFF: Variable length record.
	..11 1111		*	reserved
(9)	CHARACTER	3	*	reserved

File close data

Table 218.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	28	FLJB_FILE_ CLOSE_DATA	

Table 218. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	26	FLJB_FCD_ FWDRECOVLOG_NAME	
				forward recovery log stream name
(1A)	BIT(8)	1	FLJB_FCD_BITS	file close flag byte
	1...		FLJB_FCD_ FWD_RECOVERY	
				ON: forward recovery was specified for this file OFF: otherwise
	.1..		FLJB_FCD_ AUTOJOURNAL	
				ON: autojounalling was specified for this file OFF: otherwise
	..11 1111		*	reserved
(1B)	CHARACTER	1	*	reserved

```
Tie up record data
```

Table 219.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	136	FLJB_TIE_ UP_RECORD	
(0)	FULLWORD	4	FLJB_TUR_ BASE_CI_SIZE	
				CI size of base dataset
(4)	FULLWORD	4	FLJB_TUR_ MAXIMUM_LRECL	
				maximum record length
(8)	FULLWORD	4	FLJB_TUR_ BASE_KEY_POSITION	
				position of base key within the record
(C)	HALFWORD	2	FLJB_TUR_ BASE_KEY_LENGTH	
				length of base key
(E)	CHARACTER	1	FLJB_TUR_ DATASET_TYPE	
				type of dataset: K=KSDS, E=ESDS, P=path, R=RRDS or V=VRRDS
(F)	CHARACTER	1	FLJB_TUR_ RECORD_FORMAT	

Table 219. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				format of records: V=variable, F=fixed
(10)	HALFWORD	2	FLJB_TUR_ BASE_DSNAME_ LENGTH	
				length of base dataset name
(12)	CHARACTER	44	FLJB_TUR_ BASE_DSNAME	
				base dataset name
(3E)	HALFWORD	2	FLJB_TUR_ PATH_DSNAME_ LENGTH	
				length of path dataset name
(40)	CHARACTER	44	FLJB_TUR_ PATH_DSNAME	
				path dataset name
(6C)	CHARACTER	26	FLJB_TUR_ FWDRECOVLOG_NAME	
				forward recovery log stream name
(86)	BIT(8)	1	FLJB_TUR_BITS	tie up flag byte
	1...		FLJB_TUR_RLS	ON: this was an RLS file OFF: otherwise
	.1..		FLJB_TUR_OPEN	ON: tie up record written on open OFF: otherwise
	..1.		FLJB_TUR_ TAKE_KEYPOINT	
				ON: tie up record written for take keypoint request (non-RLS only) OFF: otherwise
	...1		FLJB_TUR_ DATASET_COPY	
				ON: tie up record written for DSS copy of dataset (RLS only) OFF: otherwise
	.... 1...		FLJB_TUR_ FWD_RECOVERY	
				ON: forward recovery was specified for this file OFF: otherwise
	.... .1..		FLJB_TUR_ AUTOJOURNAL	

Table 219. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				ON: autojounalling was specified for this file OFF: otherwise
	11		*	reserved
(87)	CHARACTER	1	*	reserved

Constants

Table 220.

Len	Type	value	Name	Description
Values for record types				
1	HEX	80	FLJB_READ_ONLY	
1	HEX	81	FLJB_READ_UPDATE	
1	HEX	82	FLJB_WRITE_UPDATE	
1	HEX	83	FLJB_WRITE_ADD	
1	HEX	84	FLJB_WRITE_ ADD_COMPLETE	
1	HEX	86	FLJB_WRITE_DELETE	
1	HEX	8E	FLJB_FILE_CLOSE	
1	HEX	8F	FLJB_TIE_UP	

FCS File control static storage

Table 221.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2160	FC_STATIC_STORAGE	FC Static Storage
Cache aligned static data. Fields in this section should only rarely change				
(0)	CHARACTER	1792	FC_STATIC_ STATIC_DATA	
(0)	CHARACTER	1792	*	Must be multiple of 256
(0)	CHARACTER	1616	*	
Standard prefix				
(0)	CHARACTER	16	FC_STATIC_ PREFIX	
(0)	HALFWORD	2	FC_STATIC_ STORAGE_LENGTH	
				Length of storage
(2)	CHARACTER	1	FC_STATIC_ ARROW	>
(3)	CHARACTER	3	FC_STATIC_DFH	DFH
(6)	CHARACTER	2	FC_STATIC_ DOMAIN_ID	

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				FC
(8)	CHARACTER	8	FC_STATIC_ BLOCK_ID	
				STATIC
SIT Options				
(10)	CHARACTER	4	FC_LOCAL_SYSID	Local sysid
(14)	UNSIGNED	1	FC_SUBTASKS	# Subtasks (1|0)
(15)	CHARACTER	11	*	Reserved
RLS Control ACB Area				
(20)	CHARACTER	24	FC_SUBSYSNM	sub system nm
(38)	ADDRESS	4	FC_CTL_ ACB_ADDRESS	
				Control ACB address
(3C)	ADDRESS	4	*	Reserved
Software versions				
(40)	UNSIGNED	2	FC_DFP_REL	DFP release pt. 1
(42)	UNSIGNED	2	*	Reserved
(44)	UNSIGNED	4	FC_DFP_REL_2	DFP release pt. 2
(48)	UNSIGNED	4	FC_HSM_REL	Installed HSM release
(4C)	UNSIGNED	4	FC_DSS_REL	Installed DSS release
Storage subpool tokens				
(50)	CHARACTER	8	FC_SUBPOOL_ TOKEN_CICS_BELOW	
				Stg below 16M
(58)	CHARACTER	8	FC_SUBPOOL_ TOKEN_VSAM	
				VSAM FCTE subpool
(60)	CHARACTER	8	FC_SUBPOOL_ TOKEN_BDAM	
				BDAM FCTE subpool
(68)	CHARACTER	8	FC_SUBPOOL_ TOKEN_SHRCTL	
				SHRCTL block subpool
(70)	CHARACTER	8	FC_SUBPOOL_ TOKEN_DSNAME	
				DSNAME block subpool
(78)	CHARACTER	8	FC_SUBPOOL_ TOKEN_ACB	
				VSAM ACB subpool
(80)	CHARACTER	8	FC_SUBPOOL_ TOKEN_DCB	

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				BDAM DCB subpool
(88)	CHARACTER	8	FC_SUBPOOL_ TOKEN_FRAB	
				FRAB subpool
(90)	CHARACTER	8	FC_SUBPOOL_ TOKEN_FLAB	
				FLAB subpool
(98)	CHARACTER	8	FC_SUBPOOL_ TOKEN_ABOVE	
				Storage above 16M
(A0)	CHARACTER	8	FC_SUBPOOL_ TOKEN_FRTE	
				FRTE subpool
(A8)	CHARACTER	8	FC_SUBPOOL_ TOKEN_RPL	
				RPL subpool
(B0)	CHARACTER	8	FC_SUBPOOL_ TOKEN_FLLB	
				FLLB subpool
(B8)	CHARACTER	8	FC_SUBPOOL_ TOKEN_FCPE	
				FCPE subpool
(C0)	CHARACTER	8	FC_SUBPOOL_ TOKEN_IFGLUWID	
				IFGLUWID subpool
(C8)	CHARACTER	8	FC_SUBPOOL_ TOKEN_FCPW	
				FCPW subpool
(D0)	CHARACTER	8	FC_SUBPOOL_ TOKEN_FCUP	
				FCUP subpool
(D8)	CHARACTER	8	*	Reserved
Flags and Indicators				
(E0)	CHARACTER	16	*	Flags
(E0)	CHARACTER	4	FC_DEBUG_ EYECATCHER	
				'DBUG'
(E4)	CHARACTER	4	*	Developer testing flags
(E4)	CHARACTER	1	*	
	1...		FC_THREADSAFE_ TESTMODE	
				Assert processing
	.1..		FC_FORCEQR	Force on QR TCB

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		FC_KEY9VSAMQR	Switch key 9 VSAM to QR
	...1		FC_NOLOCKS	Assume QR so no locking
	.... 1...		FC_FORCEQR_ LOCAL_VSAM	
				Run local VSAM on QR
	.... .1..		FC_VSAM_ TRACE	Trace all VSAM reqs
	11		*	Reserved
(E5)	UNSIGNED	1	FC_0890_ MAX_RETRY	
				Max No. retries
(E6)	CHARACTER	2	*	Reserved
(E8)	CHARACTER	4	*	Restart completion flgs
(E8)	CHARACTER	1	FC_FLAGS1	Flag byte 1
	1...		FCSCMPLT	FC restart complete
	.1..		FC_NO_ENVIRONMENT	
				FC restart failed to rebuild FC environment
	..1.		*	Reserved
	...1		FC_XFCFRIN_ ACTIVE	
				XFCFRIN active
	.... 1...		FC_XFCFROUT_ ACTIVE	
				XFCFROUT active
	.... .1..		FC_NONRLS_ RECOV	
				Ignore LOG for nonRLS
	11		*	Reserved
(E9)	CHARACTER	1	FC_FLAGS2	Flag byte 2
	1...		FC_SHUT_ IMMED	IMMEDIATE SHUTDN
	.1..		*	was FC_ESDS_COMPAT_INFO
	..1.		FC_XESDS_ MSG_SENT	
				Sent message "there is an extended addr ESDS"
	...1 11..		*	Reserved

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		FC_TRANISO	TRANISO=YES
	1		FC_CILOCK	VSAM CI lock indicator
(EA)	CHARACTER	2	*	Reserved
(EC)	CHARACTER	4	*	Reserved
Addresses of FC interface modules				
(F0)	ADDRESS	4	FC_FCMT_ ADDRESS	FCMT entry address
(F4)	ADDRESS	4	FC_FCRL_ ADDRESS	FCRL entry address
(F8)	ADDRESS	4	FC_FCDN_ ADDRESS	FCDN entry address
(FC)	ADDRESS	4	FC_FCFS_ ADDRESS	FCFS entry address
(100)	ADDRESS	4	FC_FCRF_ ADDRESS	FCRF entry address
(104)	ADDRESS	4	FC_BDAM_ ENTRY_ADDRESS	
				FCBD entry address
(108)	ADDRESS	4	FC_FCST_ ADDRESS	FCST entry address
(10C)	ADDRESS	4	FC_FCVC_ ADDRESS	FCVC entry address
(110)	ADDRESS	4	FC_FCVR_ENTRY	FCVR entry address
(114)	ADDRESS	4	FC_FCVS_ ADDRESS	FCVS entry address
(118)	ADDRESS	4	FC_FCDY_ ADDRESS	FCDY entry address
(11C)	ADDRESS	4	FC_FCDU_ ADDRESS	FCDU entry address
(120)	ADDRESS	4	FC_FCDT_ ADDRESS	FCDT entry address
(124)	ADDRESS	4	FC_FCAT_ ADDRESS	FCAT entry address
(128)	ADDRESS	4	FC_FCSD_ ADDRESS	FCSD entry address
(12C)	ADDRESS	4	FC_FCRO_ ADDRESS	FCRO entry address
(130)	ADDRESS	4	FC_FCRS_ ADDRESS	FCRS entry address
(134)	ADDRESS	4	FC_FCRV_ ADDRESS	FCRV entry address
(138)	ADDRESS	4	FC_FCRR_ ADDRESS	FCRR entry address
(13C)	ADDRESS	4	FC_FCCA_ ADDRESS	FCCA entry address
(140)	ADDRESS	4	FC_FCRC_ ADDRESS	FCRC entry address
(144)	ADDRESS	4	FC_FCIR_ ADDRESS	FCIR entry address
(148)	ADDRESS	4	FC_FCLJ_ ADDRESS	FCLJ entry address
(14C)	ADDRESS	4	FC_FCES_ ADDRESS	FCES entry address
(150)	ADDRESS	4	FC_FCQI_ ADDRESS	FCQI entry address
(154)	ADDRESS	4	FC_FCQU_ ADDRESS	FCQU entry address
(158)	ADDRESS	4	FC_FCQX_ ADDRESS	FCQX entry address
(15C)	ADDRESS	4	FC_FCLF_ ADDRESS	FCLF entry address
(160)	ADDRESS	4	FC_FCDO_ ADDRESS	FCDO entry address

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(164)	ADDRESS	4	FC_FCFL_ ADDRESS	FCFL entry address
(168)	ADDRESS	4	FC_FCNQ_ ADDRESS	FCNQ entry address
(16C)	ADDRESS	4	FC_FCDR_ ADDRESS	FCDR entry address
(170)	ADDRESS	4	* (4294967300:263626432)	Reserved
DFSMS Entry Points				
(180)	ADDRESS	4	FC_IGWABWO	EP IGWABWO
(184)	ADDRESS	4	FC_IGGCSI00	EP IGGCSI00
(188)	ADDRESS	4	FC_IGWARLS	EP IGWARLS
(18C)	ADDRESS	4	*	Reserved
DATA TABLES				
(190)	ADDRESS	4	FC_DTTKN	Data table services global token
(194)	ADDRESS	4	FC_DTRGL	Data table recovery global token
(198)	ADDRESS	4	FC_DTOC	Data table OPEN/CLOSE service
(19C)	ADDRESS	4	FC_DTLD	Data table LOAD
(1A0)	ADDRESS	4	FC_DTLOC	Data table LOCATE
(1A0)	ADDRESS	4	FC_DT_READ	Data table READ
(1A4)	ADDRESS	4	FC_DTMOD	Data table MODIFY
(1A8)	ADDRESS	4	FC_DT_LOG	Data table LOG
(1AC)	ADDRESS	4	FC_DT_USE	Data table USE
Declarations for IO Buffers				
(1B0)	ADDRESS	4	FC_BUFFER_BASE	Buffer pool base
(1B4)	ADDRESS	4	* (4294967299:263626432)	Reserved
(1C0)	ADDRESS	4	FC_SHRCTL_ VECTORS (4294967551:263626432)	
				Pointers to SHRCTL blocks
(5BC)	ADDRESS	4	* (4294967305:263626432)	reserved
Pointers to exit lists				
(5E0)	ADDRESS	4	FC_VSAM_ EXIT_LIST_PTR	
				VSAM exit list
(5E4)	ADDRESS	4	FC_RLS_ EXIT_LIST_PTR	
				RLS exit list

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5E8)	ADDRESS	4	FC_RLS_ CTL_EXIT_LIST_PTR	
				RLS Control ACB exit list
(5EC)	ADDRESS	4	*	Reserved
NQ domain ENQ/DEQ pool tokens				
(5F0)	CHARACTER	32	FC_NQ_POOL_ TOKENS	
(5F0)	ADDRESS	4	FC_DS_RECORD_ NQ_POOL_TOKEN	
				DSNB
(5F4)	ADDRESS	4	FC_FILE_ RECORD_ NQ_POOL_TOKEN	
				FCTE
(5F8)	ADDRESS	4	FC_DS_RANGE_ NQ_POOL_TOKEN	
				Mass Insert
(5FC)	ADDRESS	4	FC_DS_LOAD_ MODE_NQ_ POOL_TOKEN	
				Load Mode
(600)	ADDRESS	4	FC_DS_ESDS_ WRITE_NQ_ POOL_TOKEN	
				ESDS Write
(604)	ADDRESS	4	FC_FILE_ UMT_LOAD_ NQ_POOL_TOKEN	
				UMT Load
(608)	ADDRESS	4	* (4294967298:263626432)	Reserved
Directory Manager Tokens				
(610)	CHARACTER	16	FC_DIRECTORY_ TOKENS	
(610)	ADDRESS	4	FC_FCT_TOKEN	FCT directory token
(614)	ADDRESS	4	FC_DSN_TOKEN	DSN directory token
(618)	ADDRESS	4	* (4294967298:263626432)	Reserved
Lock Manager Tokens fc_FCT_GLOBAL_lock - Used to stabilise FCT entries shared For read access exclusive For add, update and delete fc_DSN_GLOBAL_lock - Used to stabilise DSN entries shared For read access exclusive For add, update and delete fc_FRAB_GLOBAL_lock - Used to stabilse the FRAB chain				
(620)	CHARACTER	48	FC_LOCK_TOKENS	
(620)	ADDRESS	4	FC_FCT_ GLOBAL_LOCK_TOKEN	

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				FCT global lock
(624)	ADDRESS	4	FC_DSN_ GLOBAL_LOCK_TOKEN	
				DSN global lock
(628)	ADDRESS	4	FC_FRAB_ GLOBAL_LOCK_TOKEN	
				FRAB chain lock
(62C)	ADDRESS	4	FC_CONNECT_ LOCK_TOKEN	
				connect_dsnb lock
(630)	ADDRESS	4	FC_RPL_ GLOBAL_LOCK_TOKEN	
				Ctl ACB RPL chain lock
(634)	ADDRESS	4	FC_LSR_ GLOBAL_LOCK_TOKEN	
				LSRPOOL stats lock
(638)	ADDRESS	4	FC_STATS_ GLOBAL_LOCK_TOKEN	
				Reset Stats lock
(63C)	ADDRESS	4	FC_ACB_ STRING_LOCK_TOKEN	
				Ctl Acb string lock
(640)	ADDRESS	4	* (4294967300:263625720)	Reserved
	Cache aligned variable data. May change after initialisation This must be aligned to a 256 byte boundary			
(700)	CHARACTER	368	FC_STATIC_ VARIABLE_DATA	
	FC_QR_COUNT and FC_TASK_ID are threadsafe fields but are set by a private CDS routine and do not use the standard threadsafe methods. Do not use the reserved field.			
(700)	CHARACTER	8	FC_RUNAWAY_CTL	Threadsafe changed by CDS
(700)	FULLWORD	4	FC_QR_COUNT	
(704)	FULLWORD	4	*	
(704)	CHARACTER	1	*	Reserved do no use
(705)	CHARACTER	3	FC_TASK_ID	Task which FC_QR_COUNT applies
(708)	CHARACTER	8	*	Reserved
	CICS ECBs (hand posted)			
(710)	CHARACTER	1	*	
(710)	BIT(8)	1	FC_NON_ RECOV_ALLOWED_ECB	

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Non-recoverable work
(711)	CHARACTER	1	*	
(711)	BIT(8)	1	FC_RECOV_ ALLOWED_ECB	
				Recoverable work
(712)	CHARACTER	1	*	
(712)	BIT(8)	1	FC_CTL_ ACB_UNREG_ECB	
				Ctrl ACB unregistered
(713)	CHARACTER	1	*	
(713)	BIT(8)	1	FC_RESTART_ LOG_SCAN_ECB	
				Restart log scan ECB. Posted when the system log scan at emergency restart ends.
(714)	CHARACTER	1	*	
(714)	BIT(8)	1	FC_DYRRE_ COMPLETED_ECB	
				DYRRE Completed ECB. Posted when a dynamic RLS restart completes, whether successful or not.
(715)	BIT(8)	1	FC_RLS_ LAST_ACB_ECB	
				Posted when the last open RLS ACB is closed.
(716)	CHARACTER	10	*	Reserved
Headers for Free chains				
(720)	STRUCTURE IsA(FC_CHAIN_HEAD_TYPE)	8	FC_STATIC_ FRAB_FREE_CTL	
				FRAB
(720)	ADDRESS	4	HEAD	Head of chain !
(724)	UNSIGNED	4	CH_COUNT	Change Count !
(728)	STRUCTURE IsA(FC_CHAIN_HEAD_TYPE)	8	FC_STATIC_ FLAB_FREE_CTL	
				FLAB
(728)	ADDRESS	4	HEAD	Head of chain !
(72C)	UNSIGNED	4	CH_COUNT	Change Count !
(730)	STRUCTURE IsA(FC_CHAIN_HEAD_TYPE)	8	FC_STATIC_ FRTE_FREE_CTL	

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				FRTE
(730)	ADDRESS	4	HEAD	Head of chain !
(734)	UNSIGNED	4	CH_COUNT	Change Count !
(738)	STRUCTURE IsA(FC_CHAIN_HEAD_TYPE)	8	FC_STATIC_ RPL_FREE_CTL	
				RPL
(738)	ADDRESS	4	HEAD	Head of chain !
(73C)	UNSIGNED	4	CH_COUNT	Change Count !
	Suspend chains			
(740)	STRUCTURE IsA(FC_CHAIN_HEAD_TYPE)	8	FC_STATIC_ RPL_SUSP_CTL	
				RPL
(740)	ADDRESS	4	HEAD	Head of chain !
(744)	UNSIGNED	4	CH_COUNT	Change Count !
(748)	STRUCTURE IsA(FC_CHAIN_HEAD_TYPE)	8	FC_STATIC_ VSWA_SUSP_CTL	
				VSWA
(748)	ADDRESS	4	HEAD	Head of chain !
(74C)	UNSIGNED	4	CH_COUNT	Change Count !
	Active chains			
(750)	CHARACTER	4	*	
(750)	ADDRESS	4	FC_FRAB_CHAIN	Head of FRAB chain
(754)	CHARACTER	4	*	
(754)	ADDRESS	4	FC_POOL_ ELEM_CHAIN	
				Head of Pool chain
(758)	ADDRESS	4	* (4294967298:263657544)	Reserved
	High-water-mark for dsname block numbers			
(760)	CHARACTER	4	*	
(760)	FULLWORD	4	FC_DSNBLK_HWM	HWM for dsn block #s
(764)	CHARACTER	12	*	Reserved
	Fields for BACKUP WHILE OPEN(BWO) - FUZZY BACKUP: FC_FUZZY_ALLOWED set when correct level of DFP is installed. FC_KEYPOINT_TAKEN set every 30 minutes to signal FCAT to write TURS to the FRLOG. FC_IGWABWO_LOADED set when Callable Services stub loaded FC_IGWABWO_LOAD_FAILED set when load failed. FC_HSM_BACKLEVEL set when HSM 2.5 not installed. FC_DSS_BACKLEVEL set when DSS 2.5 not installed. FC_HSM_DSS_WARNMSG Msg when HSM/DSS 2.5 not installed. FC_KEYPOINT_TIME time of keypoint when RECOV POINT updated FC_KPLE_CHAIN reset when every new KPLE added to chain			
(770)	FULLWORD	4	FC_FUZZY_VALUES	
(770)	CHARACTER	1	*	

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		FC_FUZZY_ ALLOWED	
				BWO allowed
	.1..		FC_KEYPOINT_ TAKEN	
				Set every 30 minutes
	..1.		FC_IGWABWO_ LOADED	
				load attemped
	...1		FC_IGWABWO_ LOAD_FAILED	
				if load failed
	.... 1...		FC_HSM_ BACKLEVEL	
				HSM 2.5 not installed
	.... .1..		FC_DSS_ BACKLEVEL	
				DSS 2.5 not installed
	.... ..1.		FC_HSM_ DSS_WARNMSG	
				HSM/DSS warning message
	1		*	Reserved
(771)	CHARACTER	3	*	Reserved
(774)	ADDRESS	4	FC_KPLE_CHAIN	Anchor for KPLE chain
(778)	CHARACTER	8	FC_KEYPOINT_ TIME	Last keypoint time
(778)	UNSIGNED	4	FC_KEYPOINT_ WK1	Left word (1bit=1sec)
(77C)	UNSIGNED	4	FC_KEYPOINT_ WK2	right word
DATA TABLES				
(780)	CHARACTER	8	FC_DT_LAST_INIT	Time of last attempt to issue AOR DTP_INIT
(780)	UNSIGNED	4	FC_DT_LH_ LAST_INIT	
				Left half of clock
(788)	ADDRESS	4	FC_DT_2	Entry point for data tables initialization
(78C)	ADDRESS	4	FC_DT_CLOSE_ CHAIN	Files to be closed
(790)	BIT(8)	1	FC_DT_CLOSE_ECB	Files to be closed ECB
(791)	CHARACTER	1	*	FOR support indicators

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		FC_DT_FOR_ NOSHARING	
				FOR cannot support SDT
	.1..		FC_DT_FOR_ LOGGED_ON	
				FOR logged on
	..1.		FC_DT_FOR_ NOTAUTH	
				FOR not authorized
	...1 1111		*	Reserved
(792)	CHARACTER	1	*	AOR support indicators
	1...		FC_DT_AOR_ NOSHARING	
				AOR cannot use SDT
	.111 1111		*	Reserved
(793)	BIT(8)	1	*	Reserved
(794)	ADDRESS	4	FC_DT_REMOTE_ GLOBAL	
				Remote table services global area
(798)	ADDRESS	4	FC_DT_SIGNAL	Addr STCK field in ECSA indicating table opens
(79C)	ADDRESS	4	FC_DT_CONNECT	Data table CONNECT
(7A0)	ADDRESS	4	FC_DT_REMOTE_ READ	Data table SDT read
(7A4)	ADDRESS	4	FC_DT_REMOTE_ USE	Data table set user
(7A8)	ADDRESS	4	FC_DT_BF	Bind fail chain
(7AC)	ADDRESS	4	*	Reserved
RLS				
(7B0)	UNSIGNED	2	FC_TIMEOUT	Global timeout value
(7B2)	UNSIGNED	2	FC_QUIESTIM	Quiesce timeout value
(7B4)	BIT(8)	1	FC_RLS_FLAGS	RLS Indicators
	1...		*	Reserved
	.1..		FC_CACHE_ MSG_SENT	
				Cache message sent
	..1.		FC_RLS_ SUPPORTED	RLS supported
	...1		FC_RLS_ RECOVERY_ONLY	

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Only recovery work may access RLS
	.... 1...		FC_ACUCB_ SUPPORTED	
				UCB VSCR supported
	.... .1..		FC_CATALOG_ SUPPORTED	
				Non-rls recovery attributes from catalog supported
	.... ..1.		FC_LSR_ INCLUDE_RLS_FCTES	
				Include RLS in build
	1		*	Reserved
(7B5)	CHARACTER	3	*	Reserved
(7B8)	ADDRESS	4	FC_RLS_ ACB_CHAIN	Chain of open RLS ACBs
(7BC)	CHARACTER	4	*	
(7BC)	ADDRESS	4	FC_CTL_ ACB_RPL_CHAIN	
				Active RPL chain
(7C0)	ADDRESS	4	FC_INQRECOV_ ADDRESS	
				-> last INQ RECOV area
(7C4)	FULLWORD	4	FC_INQRECOV_ LENGTH	
				len of above area
(7C8)	ADDRESS	4	* (4294967298:263657544)	Reserved
RLS counts				
(7D0)	CHARACTER	4	*	
(7D0)	FULLWORD	4	FC_CTL_ ACB_TOTAL_WAITS	
				Tot # string waits
(7D4)	FULLWORD	4	FC_CTL_ ACB_TOTAL_ WAITS_CSFAIL	
				# CS Failures
(7D8)	CHARACTER	4	*	
(7D8)	FULLWORD	4	FC_CTL_ ACB_CURRENT_WAITS	
				Curr # string waits

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7DC)	FULLWORD	4	FC_CTL_ ACB_CURRENT_ WAITS_CSFAIL	
				# CS Failures
(7E0)	CHARACTER	4	*	
(7E0)	FULLWORD	4	FC_CTL_ ACB_HWM_WAITS	
				String wait hwm
(7E4)	FULLWORD	4	FC_CTL_ ACB_HWM_ WAITS_CSFAIL	
				# CS Failures
(7E8)	CHARACTER	4	*	
(7E8)	FULLWORD	4	FC_CTL_ ACB_ACT_STRINGS	
				Active string count
(7EC)	FULLWORD	4	FC_CTL_ ACB_ACT_ STRINGS_CSFAIL	
				# CS Failures
Flags				
(7F0)	CHARACTER	1	*	Restart Flags
	1...		FC_DYRRE_ IN_PROGRESS	
				DYRRE in Progress flag. Set whilst a dynamic RLS restart is in progress, clear when one is not.
	.111 1111		*	Reserved
(7F1)	CHARACTER	3	*	Reserved
The following structure allows to set FC_RLS_ACCESS_DISABLED and FC_SERVER_SEQUENCE atomically. FC_SERVER_SEQUENCE is sequence number of server. Starts at 1. At first recycle goes to 2 etc.				
(7F4)	BIT(32)	4	*	
(7F4)	UNSIGNED	4	FC_SERVER_ STATE	
(7F4)	BIT(32)	4	*	
(7F4)	BIT(8)	1	*	Pacify dsectgen
	1...		FC_RLS_ ACCESS_DISABLED	
	.111 1111		*	
(7F5)	BIT(24)	3	*	
(7F4)	CHARACTER	4	*	
(7F4)	UNSIGNED	2	*	

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7F6)	UNSIGNED	2	FC_SERVER_ SEQUENCE	
RLS Restart Task variables				
(7F8)	CHARACTER	4	FC_RLS_ RESTART_ SUSPEND_TOKEN	
(7FC)	CHARACTER	4	*	
(7FC)	FULLWORD	4	FC_OFFSITE_ RESTART	
				1 or 0
(800)	FULLWORD	4	FC_OFFSITE_ RESTART_CSFAIL	
				# CS Failures
(804)	ADDRESS	4	* (4294967299:263657544)	Reserved
RLS Quiesce fields				
(810)	CHARACTER	48	FC_QUIESCE_DATA	Quiesce fields
(810)	CHARACTER	16	FC_FCQSE_ CHAIN_DATA	
				FCQSE element chain
(810)	ADDRESS	4	FC_FCQSE_ FIRST	-> first
(814)	ADDRESS	4	FC_FCQSE_LAST	-> last
(818)	BIT(32)	4	FC_FCQSE_ECB	Post ECB when adding
(81C)	CHARACTER	4	*	Reserved
(820)	CHARACTER	16	FC_FCQRE_ CHAIN_DATA	
				FCQRE element chain
(820)	ADDRESS	4	FC_FCQRE_ FIRST	-> first real
(824)	ADDRESS	4	FC_FCQRE_ ISOLATE	
				-> first isolated
(828)	BIT(32)	4	FC_FCQRE_ECB	Post ECB when adding
(82C)	ADDRESS	4	FC_FCQRE_ ERROR	-> error element
(830)	ADDRESS	4	FC_CFQS_ ECBLIST	-> CFQS task ECB list
(834)	BIT(8)	1	FC_QUIESCE_ FLAGS	Quiesce flags
	1...		FC_CFQS_TERM	=1 to stop CFQS task
	.1..		FC_CFQR_TERM	=1 to stop CFQR task
	..11 1111		*	Reserved
(835)	CHARACTER	11	*	Reserved
(840)	CHARACTER	8	FC_DFHFCQX_ ENTRY_STCK	

Table 221. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Time of entry to DFHFCQX
(848)	CHARACTER	8	FC_DFHFCQX_ EXIT_STCK	
				Time of exit from DFHFCQX
CFDT				
(850)	FULLWORD	4	FC_CFDT_ LOADER_ID	
(854)	ADDRESS	4	* (4294967299:263657544)	Reserved
Event point tokens				
(860)	CHARACTER	8	FC_OPEN_ EVENT_TOKEN	
				Open/close event
(868)	CHARACTER	8	FC_ENABLE_ EVENT_TOKEN	
				Enable/disable event
(870)	CHARACTER	0	FC_STATIC_END	@PLC/

```
        MACRO NAME: IFGSYSNM
        DESCRIPTION: Mapping the Subsystem Name Control Block
        STATUS: Version 1 DFSMS Release 3.0
PROPRIETARY V3 STATEMENT
LICENSED MATERIALS - PROPERTY OF IBM
"RESTRICTED MATERIALS OF IBM"
5695-DF1
END PROPRIETARY V3 STATEMENT
    FUNCTION = Mapping macro for SubSystem Name
    INCLUDED MACROS = NONE
    METHOD OF ACCESS = PL/X-370 OR ASSEMBLER
```

Table 222.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	IFGSYSNM	
(0)	CHARACTER	16	SYSNMHDR	
(0)	CHARACTER	8	SYSNMID	Eye Catcher - IFGSYSNM
(8)	FULLWORD	4	SYSNMLEN	Control Block Length
(C)	UNSIGNED	1	SYSNMVER	Version Identifier
(D)	CHARACTER	3	*	Reserved
(10)	CHARACTER	8	SYSNMVAL	SubSystem Name

Constants

Table 223.

Len	Type	value	Name	Description
Constants				

Table 223. (continued)

Len	Type	value	Name	Description
2	DECIMAL	2160	FC_STATIC_LENGTH	
8	CHARACTER	STATIC	FC_STATIC_ID	Eyecatcher
2	DECIMAL	36	VSAM_EXLST_LENGTH	Length of exit list
Maximum number of strings for control ACB				
4	DECIMAL	1024	FC_CTL_ACB_ MAX_STRINGS	
Minimum DFP release levels for RLS support				
2	HEX	3321	MIN_RLS_DFP_LEVEL1	
4	HEX	01010300	MIN_RLS_DFP_LEVEL2	
SYSNM Constants				
8	CHAR HEX	0000000000000000	SYSNMNUL	Null Subsys Name
8	CHARACTER	IFGSYSNM	SYSNMIDC	Eyecatcher
1	DECIMAL	1	SYSNMVRC	Version
NQ domain ENQ/DEQ pool names				
8	CHARACTER	FCDSRECD	FC_DS_RECORD_ NQ_POOL_NAME	
8	CHARACTER	FCFLRECD	FC_FILE_RECORD_ NQ_POOL_NAME	
8	CHARACTER	FCDSRNGE	FC_DS_RANGE_ NQ_POOL_NAME	
8	CHARACTER	FCDSLDMD	FC_DS_LOAD_ MODE_NQ_POOL_NAME	
8	CHARACTER	FCDSESWR	FC_DS_ESDS_ WRITE_NQ_POOL_ NAME	
8	CHARACTER	FCFLUMTL	FC_FILE_UMT_ LOAD_NQ_POOL_NAME	

FCT File control table entry layout

```
CONTROL BLOCK NAME = DFHFCTDS
 DESCRIPTIVE NAME  = CICS/ESA FILE CONTROL TABLE ENTRY LAYOUT
   @BANNER_START 02
                        DFHFCTDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
 FUNCTION =
      To map an entry in the File Control Table.
      The File Control Table is the principal repository of
      definitions of the database (or FILE) component.
      Other modules access it at their peril.
      Each entry ordinarily matches a call of the DFHFCT macro,
      and describes a database file.
      There is another dsect (DFHFCTSR) to treat shared resource
      pools, which appear in another connected table.
      The following fields form part of the Product Sensitive
      Programming Interface:
              FCTDSID
```

```
                             FCTDSVR1 to FCTDSKL
                             FCTDSRKP
                             FCTDSJID
                             FCTDSDP
                             FCTDSBCP
                             Bit settings FCTKSDS,FCTESDS,FCTRRDS of FCTVSVR1
                             Bit settings FCTJFR, FCTJWAC of byte FCTDSVR6
                             FCTDSREC
                             FCTDSBLK
                             FCTDTSIZ
               LIFETIME =
                     FCT entries are created at File Control restart and are
                     always present thereafter.
               STORAGE CLASS =
                     Part of the CICS nucleus.
               LOCATION =
                     By the Table Management Program.
               INNER CONTROL BLOCKS =
                     None. There are some fields with alternative meanings.
               NOTES :
                  DEPENDENCIES = S/370
                  RESTRICTIONS = Sequence symbols must not coincide with any that
                     are used by objects that imbed this; in particular, the
                     prefix .FC causes the Assembler to loop.
                  MODULE TYPE = Control block definition
                              FILE CONTROL TABLE
```

Table 224.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHFCTDS	DUMMY SECTION FILE CONTROL TABLE
FCTE prefix				
(0)	CHARACTER	8	FCTDSID	File identification
(8)	CHARACTER	8	FCTRFILE	Remote file id
(10)	CHARACTER	4	FCTSYSID	Sysid of remote file
(14)	ADDRESS	2	FCTDSTEL	Table entry length
DATA SET CONTROL INDICATOR 1 All 'Capabilities' (as derived from SERVREQ)				
(16)	BITSTRING	1	FCTDSVR1	DATA SET CONTROL INDICATOR 1
(16)		0	FCTDSRI	"FCTDSVR1" READ INDICATOR
(16)	BITSTRING	0	FCTRDIM	"X'80'" READ VALID
(16)		0	FCTDSUPD	"FCTDSVR1" READ UPDATE INDICATOR
(16)	BITSTRING	0	FCTUPDIM	"X'20'" UPDATE VALID
(16)		0	FCTDSADD	"FCTDSVR1" WRITE NEW RECORD INDICATOR
(16)	BITSTRING	0	FCTADDIM	"X'10'" ADD VALID

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(16)		0	FCTDSDI	"FCTDSVR1" DELETION VALIDITY INDICATOR
(16)	BITSTRING	0	FCTDELIM	"X'08'" DELETE VALID
(16)		0	FCTBRWSE	"FCTDSVR1" BROWSE VALIDITY INDICATOR
(16)	BITSTRING	0	FCTBRZIM	"X'02'" BROWSE VALID
DATA SET CONTROL INDICATOR 2 Flags relating to structure of records (mainly BDAM)				
(17)	BITSTRING	1	FCTDSVR2	DATA SET CONTROL INDICATOR 2
(17)		0	FCTDSEXC	"FCTDSVR2" EXCLUSIVE CONTROL INDICATOR
(17)	BITSTRING	0	FCTEXCIM	"X'80'" EXCLUSIVE CONTROL (BDAM)
(17)	BITSTRING	0	FCT_SET_AFTER	"X'40'" Acquire SET storage after file request is complete
(17)		0	FCTDSDRT	"FCTDSVR2" DECIMAL RELATIVE TRACK INDICATOR
(17)	BITSTRING	0	FCTDRTIM	"X'10'" DECIMAL RELATIVE TRACK ACCESSING
(17)		0	FCTDSVLI	"FCTDSVR2" RECORD LENGTH TYPE INDICATOR
(17)	BITSTRING	0	FCTVRLIM	"X'08'" VARIABLE LENGTH RECORDS
(17)	BITSTRING	0	FCTFIXIM	"X'04'" FIXED LENGTH RECORDS
(17)		0	FCTDSNBK	"FCTDSVR2" RECORD BLOCKING INDICATOR
(17)	BITSTRING	0	FCTBLKIM	"X'02'" BLOCKED RECORDS
(17)		0	FCTDSKEY	"FCTDSVR2" BDAM KEY SEARCH INDICATOR
(17)	BITSTRING	0	FCTKEYIM	"X'01'" KEYED BDAM
DATA SET CONTROL INDICATOR 3 Flags defining the access method				

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	BITSTRING	1	FCTDSVR3	DATA SET CONTROL INDICATOR 3
(18)		0	FCTDSVSM	"FCTDSVR3" VSAM INDICATOR
(18)	BITSTRING	0	FCTVSAMI	"X'80'" VSAM DATA SET
(18)	BITSTRING	0	FCTDTBL	"X'40'" Data table
(18)	BITSTRING	0	FCTDTUM	"X'20'" User data table
(18)	BITSTRING	0	FCTREMOT	"X'08'" Remote FCTE
(18)	BITSTRING	0	FCTRLS	"X'04'" RLS file
(18)	BITSTRING	0	FCTCFDT	"X'02'" Coupling Facility Data Table
(18)		0	FCTDSBDM	"FCTDSVR3" BDAM DATA SET INDICATOR
(18)	BITSTRING	0	FCTBDAMI	"X'01'" BDAM DATA SET
DATA SET CONTROL INDICATOR 4 Flags to govern journalling and logging.				
(19)	BITSTRING	1	FCTDSVR4	DATA SET CONTROL INDICATOR 4
(19)		0	FCTDSJRO	"FCTDSVR4" JOURNAL READ ONLYS INDICATOR
(19)	BITSTRING	0	FCTJRO	"X'80'" JOURNAL READ ONLYS
(19)		0	FCTDSJRU	"FCTDSVR4" JOURNAL READS FOR UPDATE INDICATOR
(19)	BITSTRING	0	FCTJRU	"X'40'" JOURNAL READS FOR UPDATE
(19)		0	FCTDSJWU	"FCTDSVR4" JOURNAL WRITE UPDATES INDICATOR
(19)	BITSTRING	0	FCTJWU	"X'20'" JOURNAL WRITE UPDATES
(19)		0	FCTDSJWA	"FCTDSVR4" JOURNAL WRITE ADDS INDICATOR
(19)	BITSTRING	0	FCTJWA	"X'10'" JOURNAL WRITE ADDS
(19)		0	FCTDSJDS	"FCTDSVR4" DSNAME HAS BEEN JOURNALLED IND

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(19)		0	FCTDSJSY	"FCTDSVR4" SYNCHRONOUS READS JOURNAL INDICATOR
(19)	BITSTRING	0	FCTJSYN	"X'04'" SYNCHRONOUS READS JOURNAL
(19)		0	FCTDSJAS	"FCTDSVR4" ASYNCHRONOUS WRITES JRNL INDICATOR
(19)	BITSTRING	0	FCTJASY	"X'02'" ASYNCHRONOUS WRITES JOURNAL
(19)		0	FCTDSLOG	"FCTDSVR4" USE SYSTEM LOG INDICATOR
(19)	BITSTRING	0	FCTLOG	"X'01'" USE SYSTEM LOG
FILE STATE THE NEW FILE STATES ALLOW FOR "TRANSITIONAL" CONDITIONS. IF " TM FCTDSTAT,FCTDSENI" YIELDS "ONES", THEN I/O REQUESTS ARE ALLOWED, EVEN IF THE TASK MUST WAIT FOR A DATA SET TO BE OPENED, SUBJECT TO SERVREQ CHECKING.				
(1A)	BITSTRING	1	FCTDSTAT	File state
(1A)		0	FCTDSOPN	"FCTDSTAT" (Early-open indicator)
(1A)	BITSTRING	0	FCTOPNIM	"X'80'" Data set is to be opened by utility rather than on first reference.
(1A)	BITSTRING	0	FCTDSOPI	"X'40'" Data set is open or opening

HENCE:
  .1...... OPEN
  .0...... CLOSED
  .0...... CLOSING (with FCTDSCLX set)				

(1A)	BITSTRING	0	FCTDSCRQ	"X'10'" 'CLOSE' has been requested
(1A)	BITSTRING	0	FCTDSENI	"X'04'" Data set is enabled
(1A)	BITSTRING	0	FCTDSIMP	"X'02'" Disabled only implicitly via close

HENCE:
  .....10. ENABLED
  .....01. DISABLED implicitly via CLOSE
  .....00. DISABLED explicitly
  .....11. (never valid)				

(1A)	BITSTRING	0	FCTDTCLS	"X'01'" Close data table source
(1B)	BITSTRING	1	FCTDSKL	Key length

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	BITSTRING	1	FCTBFLGS	Backout Flags
(1C)	BITSTRING	0	FCTBACKO	"X'80'" LOG=Y for this file while open
(1C)	BITSTRING	0	FCT_ESDS_ COMPAT_ERR	
				"X'40'" ESDS Compat Error Message sent
(1C)	BITSTRING	0	FCT_ESDS_ COMPAT_INFO	
				"X'20'" ESDS Compat Info (6037) sent
(1C)	BITSTRING	0	FCTFOPEN	"X'04'" Dynamically allocated and the first to be opened
(1C)	BITSTRING	0	FCTCLUN	"X'02'" File closed & marked unena- bled after an open failure
(1D)	BITSTRING	1	FCTCFKL	CFDT user specified keylength
(1E)	BITSTRING	1	FCTFLAG1	Saved temporary flag
(1F)	BITSTRING	1	FCTFLG2	Saved temporary flag
(20)	FULLWORD	4	FCTLGTKN	Autojnl log token from Logger
(24)	BITSTRING	1		Reserved
(25)	BITSTRING	1		Reserved
(26)	ADDRESS	2	FCTDSRKP	RELATIVE KEY POSITION
(28)	BITSTRING	1	FCTDSJID	USER JOURNAL ID
DATA SET CONTROL INDICATOR 5 Certain conditions that apply to any local data set, while open.				
(29)	BITSTRING	1	FCTDSVR5	DATA SET CONTROL INDICATOR 5
CONDITIONS GIVEN AT TABLE-GENERATION -				
(29)	BITSTRING	0	FCTDPSHR	"X'80'" "DISP=SHR" FOUND
(29)	BITSTRING	0	FCTDPOLD	"X'40'" "DISP=OLD" FOUND
CONDITIONS FOUND WHILE PROCESSING AN "OPEN" REQUEST -				
(29)	BITSTRING	0	FCTDSDA	"X'02'" DYNAMICALLY ALLOCATED DATA SET
(29)	BITSTRING	0	FCTDSCLX	"X'01'" CLOSE IN PROGRESS
(2A)	BITSTRING	1	FCTFLG3	Saved temporary flag

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
ACCESS - STATE PROTECTION Some flags are defined for in-progress state changes The following three ECBs (or "wait bytes") exist to serialise certain combinations of state-change requests. Only one of them can be WAITing at any moment, but any combination may be POSTed (implying present or past existence of tasks that waited for an action of the specific kind to complete). Next there is an ECB for serialising data table loads				
(2B)	BITSTRING	1	FCTINPFL	In-progress flags
(2B)		0	FCTDIINP	"FCTINPFL" Disable in-progress indicator
(2B)	BITSTRING	0	FCTDISIN	"X'80'" Disable is in progress
(2C)	BITSTRING	1	FCTOPECB	"OPEN" state-change ECB
(2D)	BITSTRING	1	FCTDIECB	"DISABLE" state-change ECB
(2E)	BITSTRING	1	FCTCLECB	"CLOSE" state-change ECB
(2F)	BITSTRING	1	FCTDTLDC	Table load complete
STATISTICS				
(30)	FULLWORD	4	FCTDSRD	NUMBER OF READ REQUESTS
(34)	FULLWORD	4	FCTDSWRA	NUMBER OF ADD RECORD REQS
(38)	FULLWORD	4	FCTDSWRU	NUMBER OF UPDATE REQUESTS
(3C)	FULLWORD	4	FCTDSXCP	NO. OF EXCP CALLS TO LAST CLOSE
(40)	FULLWORD	4	FCTDSIXP	NUMBER OF EXCP REQUESTS TO INDEX
(44)	FULLWORD	4	FCTDSGU	COUNT GET UPDATE REQUESTS
(48)	FULLWORD	4	FCTDSBR	NUMBER OF BROWSE REQUESTS
(4C)	FULLWORD	4	FCTDSBRU	No. of update browse requests
(50)	FULLWORD	4		Reserved
(54)	CHARACTER	8	FCTOPENT	Time file opened
(5C)	ADDRESS	4	FCTDSFRT	Address of a FRTE
(60)	FULLWORD	4	FCTDYNAL (0)	
DYNAMIC ALLOCATION				
(60)	ADDRESS	4	FCTDSDP	>-> DSNAME ENTRY FOR DYNAMIC ALLOCATION.

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(64)	ADDRESS	4	FCTDSBCP	>-> DSNAME ENTRY WITH BASE CLUSTER NAME.
Buffer pool pointer				
(68)	ADDRESS	4	FCTDSBFP	Pointer to buffer pool header
New or moved fields for making FCT threadsafe				
(6C)	ADDRESS	4	FCT_LOCK_TOKEN	Unique lock token per FCT
(70)	BITSTRING	1	FCT_IN_PROGRESS	Flags for add or delete
(70)	BITSTRING	0	FCT_ADD_ IN_PROGRESS	
				"X'80'"
(70)	BITSTRING	0	FCT_DELETE_ IN_PROGRESS	
				"X'40'"
(71)	CHARACTER	3		Reserved
(74)	ADDRESS	4	FCT_STRING_ LOCK_TOKEN	
(78)	BITSTRING	4	FCT_TOD_CREATED	1st word of TOD
(7C)	FULLWORD	4	FCTDSXCL	No. of exclusive ctl conflicts
(80)	FULLWORD	4		Reserved for # CS Failures
(84)	ADDRESS	4	(7)	Reserved
Resource Signature data				
(A0)	CHARACTER	1	FCT_RESOURCE_SIG	matches the PLX version
Access-method dependent sections				
(E0)	DBL WORD	8	FCTVSEXT (0)	BASE FOR OVERLAYING
VSAM EXTENSION				
(E0)	ADDRESS	4		Reserved
(E4)	FULLWORD	4	FCTDSTBW	TOTAL # WAITED FOR BUFFER
(E8)	FULLWORD	4		Reserved for # CS Failures
(EC)	FULLWORD	4	(3)	Reserved
(F8)	ADDRESS	4	FCTVSWA	Free VSWAs
(FC)	FULLWORD	4	FCTVSWA_CNT	# of changes to FCTVSWA
(100)	BITSTRING	1	FCTDSDBN	BUFFER SIZE INDEX FOR DATA BUFFERS

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(101)	BITSTRING	1	FCTDSIBN	BUFFER SIZE INDEX FOR INDEX BUFFERS
(102)	BITSTRING	1	FCTVSVR1	VSAM DATA SET CONTROL IND 1
(102)		0	FCTDSKSD	"FCTVSVR1" KSDS INDICATOR
(102)	BITSTRING	0	FCTKSDS	"X'80'" KEY SEQUENCED DATA SET
(102)		0	FCTDSESD	"FCTVSVR1" ESDS INDICATOR
(102)	BITSTRING	0	FCTESDS	"X'40'" ENTRY SEQUENCED DATA SET
(102)		0	FCTDSSHR	"FCTVSVR1" SHARED RESOURCES INDICATORS, THAT SIGNIFY CONNECTION WITH LSR POOLS
(102)	BITSTRING	0	FCTSHRIM	"X'20'" FILE IS NOW SHARING RESOURCES
(102)	BITSTRING	0	FCTSHRSP	"X'08'" FILE IS TO USE AN LSR POOL
(102)		0	FCTDSSGF	"FCTVSVR1" SHARED STATS COLLECTED FLAG
(102)	BITSTRING	0	FCTSHBG	"X'10'" STATISTICS HAVE BEEN COLLECTED
(102)	BITSTRING	0	FCTVRRDS	"X'04'" Variable RRDS
(102)		0	FCTDSADR	"FCTVSVR1" ADDRESSED ACCESS INDICATOR
(102)	BITSTRING	0	FCTADR	"X'02'" ADDRESSED ACCESS ONLY (SHARE OPTIONS 4 ONLY)
(102)		0	FCTDSRRD	"FCTVSVR1" RRDS INDICATOR
(102)	BITSTRING	0	FCTRRDS	"X'01'" RELATIVE RECORD DATA SET
(103)	BITSTRING	1	FCTDSOBJ	VSAM OBJECT TYPE (OR MODE)
MODE OF ACCESS THROUGH VSAM (DETERMINED AT OPEN-TIME, ON OS)				

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(103)		0	FCTDSPAT	"FCTDSOBJ" AIX PATH INDICATOR
(103)	BITSTRING	0	FCTPATH	"X'10'" AIX PATH + DATASET SHARING
(103)		0	FCTDSALT	"FCTDSOBJ" AIX INDICATOR
(103)	BITSTRING	0	FCTALTIX	"X'08'" ACCESS THROUGH AIX
(103)	BITSTRING	0	FCTBASE	"X'04'" ACCESSED AS A BASE
(104)	ADDRESS	1	FCTIPOOL	LSR POOL IDENTIFIER
(105)	BITSTRING	1	FCTVSVR2	VSAM DS INDICATOR 2
(105)	BITSTRING	0	FCT_IMMCLOSE	"X'80'" Immediate close requested
(105)	BITSTRING	0	FCTDTOPN	"X'40'" Data table is open
(105)	BITSTRING	0	FCTNODSN	"X'20'" DSN-SHARING NOT TO BE APPLIED IF READ-ONLY
(105)	BITSTRING	0	FCTILFLG	"X'08'" DATA SET IS BEING INITIALLY LOADED
(105)	BITSTRING	0	FCTDREUS	"X'04'" THE FILE HAS A "REUSE" SERVREQ
(105)	BITSTRING	0	FCTMTYRQ	"X'02'" "EMPTY" REQUEST IS OUTSTANDING
(105)	BITSTRING	0	FCTDLFLG	"X'01'" VSAM "LOAD" MODE IS IN EFFECT
	DATA SET CONTROL INDICATOR 6 VSAM only journalling and logging options.			
(106)	BITSTRING	1	FCTDSVR6	Dataset control indicator 6
(106)	BITSTRING	0	FCTJFR	"X'80'" Forward recovery
(106)	BITSTRING	0	FCTJWAC	"X'40'" Write add complete
(106)	BITSTRING	0	FCTFUZZY	"X'20'" Fuzzy Image Copy Allowed according to FCTE

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(106)	BITSTRING	0	FCTBWO	"X'10'" BWO allowed for this FCTE set according to FCTE or VSAM Catalog - whichever is being used
EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved 　　　　　DATA SET CONTROL INDICATOR 7 　　　　　　VSAM RLS options.				
(107)	BITSTRING	1	FCTDSVR7	RLS bit settings
(107)	BITSTRING	0	FCTCR	"X'80'" Consistent read
(107)	BITSTRING	0	FCTRR	"X'40'" Repeatable read
(107)	BITSTRING	0	FCTUQENA	"X'20'" Re-ENABLE on QUIOPEN
(107)	BITSTRING	0	FCTCQENA	"X'10'" Re-ENABLE on QUICEND
The following two fields are used to record the catalog definition for read only RLS files.				
(107)	BITSTRING	0	FCTROBO	"X'08'" Backward Recovery
(107)	BITSTRING	0	FCTROFR	"X'04'" Forward Recovery
(108)	HALFWORD	2		Reserved
(10A)	HALFWORD	2		Reserved
THE NEXT TWO FIELDS CONTAIN LIMITS, AGAINST WHICH FCTDSASC IS TESTED.				
(10C)	HALFWORD	2	FCTDSMSC	Upper limit for string count
(10E)	HALFWORD	2	FCTDSPMS	Limit for UPDATE/ADD string count
THE NEXT THREE FIELDS CONTAIN HISTORICAL INFORMATION, COLLECTED 　FOR USE IN STATISTICAL REPORTS				
(110)	FULLWORD	4	FCTDSTSW	Total # tasks waited for string
(114)	FULLWORD	4		Reserved for # CS Failures
(118)	FULLWORD	4	(3)	Reserved
(124)	FULLWORD	4	FCTDSDEL	Number of DELETEs
(128)	HALFWORD	2		Reserved
(12A)	HALFWORD	2	FCTUPSTG	Number of strings required by VSAM during an UPDATE request

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
THE NEXT FIELD IS THE MAXIMUM RECORD LENGTH SPECIFIED IN THE DEFINITION OF THE VSAM DATA SET AND IS ALSO USED FOR ESTIMATING THE SIZE OF BUFFER REQUIRED FOR LARGE VSAM RECORDS.				
(12C)	FULLWORD	4	FCTMAXLN	Maximum record length
(130)	FULLWORD	4	FCTCFRLN	CFDT user specified reclen
TWO FIELDS REPRESENT SYSTEM-PROGRAMMER-SUPPLIED VALUES, THAT WILL BE DYNAMICALLY INSERTED IN THE ACB :				
(134)	HALFWORD	2	FCTBUFND	Specified number of data buffers
(136)	HALFWORD	2	FCTBUFNI	Specified number of index buffers
(138)	FULLWORD	4	FCTDSACB	Pointer to VSAM ACB
(13C)	BITSTRING	1		Reserved
(13D)	BITSTRING	1		Reserved
(13E)	BITSTRING	1	FCTFRLOG	Forward recovery log id
(13F)	BITSTRING	1	FCTVSPWL	VSAM password length
(140)	CHARACTER	8	FCTVSPWD	VSAM password
(148)	CHARACTER	8	FCTBASEN	Symbolic name of base
(150)	FULLWORD	4	FCTDTSIZ	Data table size
(154)	ADDRESS	4	FCTDTTKN	Data table token
(158)	FULLWORD	4	FCTDTRDS	Data table reads
(15C)	FULLWORD	4	FCTDTRNF	Data table reads via VSAM
(160)	FULLWORD	4	FCTDTAVR	Data table adds via read
(164)	FULLWORD	4	FCTDTADS	Data table adds via API
(168)	FULLWORD	4	FCTDTARJ	Data table adds suppressed
(16C)	FULLWORD	4	FCTDTATF	Data table adds and table full
(170)	FULLWORD	4	FCTDTRWS	Data table rewrites
(174)	FULLWORD	4	FCTDTDLS	Data table deletes
(178)	FULLWORD	4	FCTDTLDS	Data table LOADING responses
(17C)	FULLWORD	4	FCTDTSHI	Data table record hwm
(180)	ADDRESS	4	FCTDTPTH	Data table path token
(184)	ADDRESS	4	FCTBCCHN	Open file chain

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(188)	ADDRESS	4	FCT_NEXT_RLS_FCTE	Address of next file open in RLS mode
(18C)	ADDRESS	4	FCT_BC_CONN_CHAIN	Address of next FCT entry connected to this base
(190)	ADDRESS	4	FCT_RLS_TIMEOUTS	Number Of RLS timeouts
(194)	FULLWORD	4		Reserved for # CS Failures
(198)	FULLWORD	4	(3)	Reserved
(1A4)	CHARACTER	8	FCTDT_NAME	Data Table Name
(1AC)	CHARACTER	8	FCTCF_POOL_NAME	CFDT Pool Name
(1B4)	ADDRESS	4	FCTCF_POOL_ELEM_ADDR	
				Address of pool element
(1B8)	ADDRESS	4	FCTCF_NEXT_IN_POOL_CHAIN	
				Address of next FCT entry open against a CFDT in this pool
(1BC)	FULLWORD	4	FCTCF_DT_TOKEN	CFDT Token
(1C0)	BITSTRING	1	FCTCF_FLAGS	CFDT Flags Byte
(1C0)	BITSTRING	0	FCTCF_UM_CONTEN	"X'80'" CFDT update model is contention
(1C0)	BITSTRING	0	FCTCF_LOADREQ	"X'40'" CFDT requires loading
(1C0)	BITSTRING	0	FCTCF_SOURCE	"X'20'" CFDT has a source data set
(1C0)	BITSTRING	0	FCTCF_REOPEN	"X'10'" CFDT access needs reopening
(1C1)	BITSTRING	1	FCTFLG1	Flags
(1C1)	BITSTRING	0	FCT_NOT_AUTH	"X'80'" Connect failed - not auth
(1C1)	BITSTRING	0	FCT_CONN_FAIL	"X'20'" Last CONNECT attempt failed - retry later
(1C1)	BITSTRING	0	FCT_LINK_FAIL	"X'10'" Last CONNECT attempt failed link security check
(1C1)	BITSTRING	0	FCT_408_ISSUED	"X'08'" Message 0408 issued - shipped request was successful
(1C1)	BITSTRING	0	FCT_408_NEEDED	"X'04'" Message 0408 needed if shipped request is successful

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C1)	BITSTRING	0	FCT_FORCE	"X'02'" Force users off
(1C2)	CHARACTER	2		Reserved
(1C4)	FULLWORD	4	FCTCF_LOADER_ID	CFDT loader id
(1C8)	DBL WORD	8	FCT_STCK	Last shared table connect
New or moved fields for making FCT threadsafe				
(1D0)	FULLWORD	4	FCTDSCBW	CURRENT # WAITING FOR BUFFER
(1D4)	FULLWORD	4		Reserved for # CS Failures
(1D8)	FULLWORD	4	FCTDSHBW	HIGHEST # WAITED FOR BUFFER
(1DC)	FULLWORD	4		Reserved for # CS Failures
(1E0)	FULLWORD	4	FCTDSASC	Active string count
(1E4)	FULLWORD	4		Reserved for # CS Failures
(1E8)	FULLWORD	4	FCTDSCWC	VSAM current string wait count
(1EC)	FULLWORD	4		Reserved for # CS Failures
(1F0)	FULLWORD	4	FCTDSHSW	Highest # tasks waited on string
(1F4)	FULLWORD	4		Reserved for # CS Failures
(1F8)	FULLWORD	4	FCT_ACTV_RLS_CNT	# active RLS requests
(1FC)	ADDRESS	4	FCT_STRING_HEAD	Max. string wait chain head
(200)	FULLWORD	4		Reserved for # CS Failures
(204)	ADDRESS	4	FCT_PSEUDO_HEAD	Pseudo max string wait chain hd.
(208)	FULLWORD	4		Reserved for # CS Failures
(20C)	BITSTRING	1	FCTTSFLG	Threadsafe bit flags
(20C)	BITSTRING	0	FCT_THREADSAFE_ WORK	
				"X'80'" Flag Threadsafe work performed
(20D)	BITSTRING	1	(3)	on file. No CS needed.
(210)	ADDRESS	4	(2)	Reserved
Here is the embedded resource signature object				

Table 224. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(210)		0	FCTVSEL	"*-DFHFCTDS" Length of VSAM file entry
(E0)	FULLWORD	4	FCTDAEXT (0)	
	BDAM EXTENSION			
(E0)	ADDRESS	4	FCTDSDCB	Data Control Block address
(E4)	ADDRESS	2	FCTDSREC	Record length
(E6)	ADDRESS	2	FCTDSBLK	Block size
(E6)		0	FCTNVEL	"*-DFHFCTDS" Length of BDAM file entry

FILE CONTROL TABLE PREFIX

Table 225.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHPFDS	TO PRECEDE FIRST FCT ENTRY
(0)	BITSTRING	1	FPFATTR	ATTRIBUTES OF LOCAL FILES SEE DFHFCT FOR SIGNIFICANCE
(1)	BITSTRING	3		RESERVED
(4)	ADDRESS	4		Reserved
(8)	ADDRESS	4	FPFSELFA	SELF-POINTER (FOR F-DUMP)
(C)	ADDRESS	4		Reserved
(10)	ADDRESS	4		Reserved
(14)	ADDRESS	4		Reserved
(18)	ADDRESS	4	FPFPVADR	ADDRESS SHARED-POOL VECTOR
(1C)	ADDRESS	4		Reserved
(1C)		0	FPFPRFL	"*-DFHPFDS" LENGTH OF FCT PREFIX

FCTSR File control shared resources

```
CONTROL BLOCK NAME = DFHFCTSR
DESCRIPTIVE NAME  = CICS FCT SHARED RESOURCES CONTROL BLOCK
   @BANNER_START 02
                      DFHFCTSR
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
```

```
                To represent CICS's requirements of, and use made of,
                a VSAM local shared resources pool.
                Part of FILE CONTROL (the database component).
                There is one instance for each pool mentioned in the
                FCT, ie up to 8 in OS and 1 in VSE.
          LIFETIME & STORAGE CLASS =
                Same as the rest of the FCT.
          LOCATION =
                By pointers and identifying numbers, all within the FCT.
          INNER CONTROL BLOCKS =
                None in the strict sense.
                Certain fields repeat others defined in DFHFCSBK,
                and can be used as a work area.
          NOTES :
             DEPENDENCIES = S/370
             RESTRICTIONS = None.
             MODULE TYPE = Control block definition
       ----------------------------------------------------------------
          EXTERNAL REFERENCES =
             DATA AREAS =
                The six fields named FCTVR... are all defined over
                the list-form of VSAM macro BLDVRP.
             CONTROL BLOCKS =
                    None.
             GLOBAL VARIABLES (Macro pass) = Used only for splitting source.
       ----------------------------------------------------------------
                     FILE CONTROL TABLE
                    SHARED RESOURCES CONTROL
```

Table 226.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHFCTSR	VSAM SHARED RESOURCES CONTROL
(0)	CHARACTER	8	FCTSRGRP (0)	(RDO group name)
(0)	CHARACTER	8		SHARED RESOURCES CONTROL EYE-CATCHER
(8)	BITSTRING	1	FCTSRCSN (0)	String num. status (next build)
(8)	BITSTRING	0	FCTCPSTN	"X'80'" MUST COMPUTE STRING NUMBER
(8)	BITSTRING	1	FCTSRCKL (0)	Key length status (next build)
(8)	BITSTRING	0	FCTCPKYL	"X'40'" MUST COMPUTE LENGTH FOR KEYS
(8)	BITSTRING	1	FCTSRCCI (0)	CI size sataus (next build)
(8)	BITSTRING	0	FCTCPCIS	"X'20'" MUST COMPUTE CI SIZES
(8)	BITSTRING	1	FCTSRNDI (0)	Data/index buffer status (next build)
(8)	BITSTRING	0	FCTSRNSP	"X'10'" Use separate buffers

Table 226. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	BITSTRING	1		Next build control flags
(9)	SIGNED	1	FCTSRPID	NUMERICAL POOL IDENTIFIER
(A)	HALFWORD	2	FCTSRUC	NUMBER OF OPEN ACBs ON THE POOL
(C)	ADDRESS	4	FCTSRBWC	BUFFER WAIT CHAIN START
(10)	FULLWORD	4		# CS Failures
(14)	ADDRESS	4	FCTSRTSC	Transaction ID suspend chain
(18)	HALFWORD	2	FCTSRPCT	PERCENTILE VALUE
(1A)	HALFWORD	2		RESERVED
(1C)	HALFWORD	2	FCTSRNKL	KEY LENGTH FOR NEXT BUILD
(1E)	HALFWORD	2	FCTSRNST	STRING NUMBER FOR NEXT BUILD
(20)	FULLWORD	4	FCTSRCHN	String wait chain
(24)	CHARACTER	8	FCTSRCTD	STCK Creation Time
(2C)	CHARACTER	8	FCTSRDTD	STCK Deletion Time
(34)	HALFWORD	2	FCTSRKYL	COMPUTED KEY LENGTH
(36)	HALFWORD	2	FCTSRSTN	COMPUTED NUMBER OF STRINGS
(38)	HALFWORD	2		RESERVED
(3A)	HALFWORD	2		RESERVED
(3C)	BITSTRING	1	FCTSRNBB	NO BUFFER byte
(3C)	BITSTRING	0	FCTSRNBF	"X'80'" This BIT requires own BYTE
(3D)	CHARACTER	3		reserved
(40)	FULLWORD	4	FCTSRMAP	WRTBFR TRANSID USE MAP
(44)	BITSTRING	1	FCTSRSDI (0)	Separate DATA/INDEX buffers
(44)	BITSTRING	0	FCTSRSEP	"X'80'" Use separate buffers (was 10)
(44)	BITSTRING	1	FCTSRERR (0)	ERROR BUILDING POOL
(44)	BITSTRING	0	FCTSRDMP	"X'40'" FORMATTED DUMP ISSUED (was 02)
(44)	BITSTRING	1	FCTSRPST (0)	STATUS OF THIS POOL

Table 226. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	BITSTRING	0	FCTSRBLT	"X'20'" POOL IS BUILT (was 01)
(44)	BITSTRING	1		Current build control flags
(45)	CHARACTER	3		Reserved
(48)	FULLWORD	4	FCTSRHAS	HIGHEST # ACTIVE STRINGS
(4C)	FULLWORD	4		# CS Failures
(50)	FULLWORD	4	FCTSRHSW	HIGHEST # WAITED FOR STRING
(54)	FULLWORD	4		# CS Failures
(58)	FULLWORD	4	FCTSRTSW	TOTAL # WAITED FOR STRING
(5C)	FULLWORD	4		# CS Failures
(60)	FULLWORD	4	FCTSRNAS	# ACTIVE STRINGS
(64)	FULLWORD	4		# CS Failures
(68)	FULLWORD	4	FCTSRCSW	CURRENT # WAITING FOR STRING
(6C)	FULLWORD	4		# CS Failures
(70)	FULLWORD	4	FCTSR_LOCK_TOKEN	Pool lock token
(74)	FULLWORD	4	FCTSRCIS (0)	FORMAT OF REPEATING FIELDS
(74)	ADDRESS	2	FCTSRBSZ	Buffer size
(76)	HALFWORD	2	FCTSRVBN	Virtual buffers this build
(78)	FULLWORD	4	FCTSRVBX	Virtual buffers next build
(7C)	FULLWORD	4	FCTSRHBN	Hiperspace bufs this build
(80)	FULLWORD	4	FCTSRHBX	Hiperspace bufs next build
(84)	FULLWORD	4	FCTSRBFF	NUMBER OF LOOK-ASIDE HITS
(88)	FULLWORD	4	FCTSRFRD	NUMBER OF BUFFER READS
(8C)	FULLWORD	4	FCTSRUIW	NO OF USER INITIATED WRITES
(90)	FULLWORD	4	FCTSRNUW	NO OF NON-USER INITIATED WRITES
(94)	FULLWORD	4	FCTSRCRS	Number successful CREADS
(98)	FULLWORD	4	FCTSRCWS	Number successful CWRITES
(9C)	FULLWORD	4	FCTSRCRF	Number failing CREADS

Table 226. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	FULLWORD	4	FCTSRCWF	Number failing CWRITES
(A0)		0	FCTSRCIL	"*-FCTSRCIS" LENGTH OF BUFFER SIZE ENTRY
(74)	BITSTRING	1	FCTSR512_DATA (0)	512 CI'S NUMBER AND STATISTICS
(A4)	BITSTRING	1	FCTSR1K_DATA (0)	1K CI'S NUMBER AND STATISTICS
(D4)	BITSTRING	1	FCTSR2K_DATA (0)	2K CI'S NUMBER AND STATISTICS
(104)	BITSTRING	1	FCTSR4K_DATA (0)	4K CI'S NUMBER AND STATISTICS
(134)	BITSTRING	1	FCTSR8K_DATA (0)	8K CI'S NUMBER AND STATISTICS
(164)	BITSTRING	1	FCTSR12K_DATA (0)	12K CI'S NUMBER AND STATISTICS
(194)	BITSTRING	1	FCTSR16K_DATA (0)	16K CI'S NUMBER AND STATISTICS
(1C4)	BITSTRING	1	FCTSR20K_DATA (0)	20K CI'S NUMBER AND STATISTICS
(1F4)	BITSTRING	1	FCTSR24K_DATA (0)	24K CI'S NUMBER AND STATISTICS
(224)	BITSTRING	1	FCTSR28K_DATA (0)	28K CI'S NUMBER AND STATISTICS
(254)	BITSTRING	1	FCTSR32K_DATA (0)	32K CI'S NUMBER AND STATISTICS
(254)		0	FCTSRRFL	"(*-FCTSRCIS)" Length of repeating fields
(254)		0	FCTSRNCI	"(FCTSRRFL/ FCTSRCIL)" Number of CI sizes
(284)	BITSTRING	1	FCTSR512_INDX (0)	512 CI'S NUMBER AND STATISTICS
(2B4)	BITSTRING	1	FCTSR1K_INDX (0)	1K CI'S NUMBER AND STATISTICS
(2E4)	BITSTRING	1	FCTSR2K_INDX (0)	2K CI'S NUMBER AND STATISTICS
(314)	BITSTRING	1	FCTSR4K_INDX (0)	4K CI'S NUMBER AND STATISTICS
(344)	BITSTRING	1	FCTSR8K_INDX (0)	8K CI'S NUMBER AND STATISTICS
(374)	BITSTRING	1	FCTSR12K_INDX (0)	12K CI'S NUMBER AND STATISTICS
(3A4)	BITSTRING	1	FCTSR16K_INDX (0)	16K CI'S NUMBER AND STATISTICS

Table 226. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3D4)	BITSTRING	1	FCTSR20K_INDX (0)	20K CI'S NUMBER AND STATISTICS
(404)	BITSTRING	1	FCTSR24K_INDX (0)	24K CI'S NUMBER AND STATISTICS
(434)	BITSTRING	1	FCTSR28K_INDX (0)	28K CI'S NUMBER AND STATISTICS
(464)	BITSTRING	1	FCTSR32K_INDX (0)	32K CI'S NUMBER AND STATISTICS
(494)		0	FCTSRLNG	"*-DFHFCTSR" RESOURCE CONTROL ENTRY LENGTH

FIOA File input/output area

```
CONTROL BLOCK NAME = DFHFIOA
DESCRIPTIVE NAME  = CICS File I/O Area.
   @BANNER_START 02
                        DFHFIOA
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = FILE I/O AREA
 The FIOA is acquired dynamically from main storage by File
 Control whenever a request is made for I/O to a BDAM data set.
 The data area, beginning at field FIOADBA, is used as the true
 I/O area from/to which records are read/written. The FRTE
 contains the address of the FIOA at FRT_WORK_AREA_ADDRESS.
 The following fields form part of the Product-Sensitive
 Programming Interface.
   FIOAIND
   FIOAM
   FCFIODEC
   FCFIOBEX
   FCFIOECB
   FCFIOLRA
   FIOADBA
   FCDS01D
```

Table 227.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHFIOA	DUMMY SECTION - FILE I/O AREA @
	FIXED SECTION			
(0)	HALFWORD	2	FIOALGTH	Length of FIOA.
	DATA EVENT CONTROL BLOCK			
(2)	BITSTRING	1	FIOAIND (0)	FILE I/O AREA INDICATOR
(2)	BITSTRING	0	FIOAM	"X'C0'" FILE I/O AREA
(4)	FULLWORD	4	FCFIODEC (0)	DATA EVENT CONTROL BLOCK

Table 227. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	FULLWORD	4	FCFIOBEX (0)	EXCEPTION CODES - BDAM
(4)	FULLWORD	4	FCFIOECB	EVENT CONTROL BLOCK
(8)	HALFWORD	2	FCFIOTYP	TYPE OF OPERATION
(A)	HALFWORD	2	FCFIOLNG	DATA / AREA LENGTH
(C)	FULLWORD	4	FCFIODCB	DATA CONTROL BLOCK ADDRESS
(10)	ADDRESS	4	FCFIOAA	INPUT / OUTPUT DATA ADDR
(14)	FULLWORD	4	FCFIOIOB	IOB ADDRESS
(18)	FULLWORD	4	FCFIOKA	KEY ADDRESS
(1C)	FULLWORD	4	FCFIOBRF	BLKREF FIELD - BDAM
(20)	FULLWORD	4	FCFNXADR	ADDR OF NEXT ADDR FEEDBACK FLD
	VARIABLE SECTION			
(24)	BITSTRING	1	FCIOEXB (0)	EXCLUSIVE CONTROL INDICATOR
(24)	BITSTRING	0	FCECIND	"X'80'" RECORD IS UNDER EXCLUSIVE CNTRL
(24)	CHARACTER	1	(3)	RESERVED
(28)	ADDRESS	4	FIOAFRTE	ADDRESS OF ASSOCIATED FRTE
(2C)	FULLWORD	4	FCFIOLRA	LOGICAL RECORD ADDRESS
(30)	HALFWORD	2	FCFIOLRL	Logical record length
(34)	FULLWORD	4	FCFIOFCT	FILE CONTROL TABLE ENTRY ADDR
(38)	FULLWORD	4	FIOA_KEY_ADDRESS	Address of RIDFLD in FIOA
(3C)	FULLWORD	4		Reserved
(40)	FULLWORD	4	FIOA_BLOCK_END	Address of end of block
(44)	HALFWORD	2	FIOA_BROWSE_ KEYLENGTH	
				Keylength during browse
(46)	HALFWORD	2	FIOA_BROWSE_RRN	DEBREC number in browse

Table 227. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	CHARACTER	8	FIOA_KEY_ WORKAREA	Workarea for real address conversion
(50)	CHARACTER	8	FIOA_JOURNAL_ECN	Workarea for FCJL
(58)	BITSTRING	1	FIOA_BROWSE_ FLAGS	Indicators for browse
(58)	BITSTRING	0	FIOA_BROWSE_ IN_PROGRESS	
				"X'80'" Browse in progress
(58)	BITSTRING	0	FIOA_DEBREC_ BROWSE	"X'40'" DEBREC browse
(58)	BITSTRING	0	FIOA_DEBKEY_ BROWSE	"X'20'" DEBKEY browse
(59)	BITSTRING	1	FIOA_INDICATORS	Miscellaneous indicators
(59)	BITSTRING	0	FIOA_DEBLOCK_ REQUIRED	
				"X'80'" Deblock required
(60)	DBL WORD	8	FIOACAE (0)	CONTROL AREA ENDING ADDRESS
(60)		0	FIOACAD	"*-DFHFIOA" CONTROL AREA DISPLACEMENT
(60)		0	FIOAL	"*-FCFIOECB" FIOA LENGTH
(60)	DBL WORD	8	FCDS01D (0)	BEGINNING ADDRESS DATA AREA
(60)		0	FIOADBA	"FCDS01D" DATA BEGINNING ADDRESS

FLABC File Lasting Access Block

Table 228.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	144	DFHFLAB	
Eye catcher				
(0)	CHARACTER	16	FLAB_EYE_CATCHER	Eye catcher
(0)	HALFWORD	2	FLAB_LENGTH	Length of FLAB
(2)	CHARACTER	6	FLAB_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FLAB_EYE2	FLAB
Main part of FLAB.				
(10)	CHARACTER	128	FLAB_MAIN_PART	Main part of FLAB

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	CHARACTER	4	*	
(10)	CHARACTER	4	*	
(10)	ADDRESS	4	FLAB_NEXT_ FLAB_ADDRESS	
				-> next FLAB on chain from owning FLAB
(10)	ADDRESS	4	FLAB_FREE_ FLAB_ADDRESS	
				Address of next FLAB on free chain
(14)	ADDRESS	4	FLAB_FRAB_ ADDRESS	Addresss of FRAB that owns this FLAB
(18)	CHARACTER	8	*	
(18)	CHARACTER	8	FLAB_FILENAME	Name of associated file
(20)	CHARACTER	4	FLAB_REMOTE_ SYSTEM_ID	
				Name of target system if file is remote
(24)	CHARACTER	8	FLAB_REMOTE_ FILENAME	
				Name of file on target system if file is remote
(2C)	CHARACTER	4	*	
(2C)	ADDRESS	4	FLAB_FCTE_ ADDRESS	
				-> associated FCTE
(30)	UNSIGNED	4	FLAB_ENVIRONMENT_ ID	
				Environment identifier
This part of the FLAB addresses the FRTE chain and controls whether the file may be closed or reallocated.				
(34)	CHARACTER	4	*	
(34)	ADDRESS	4	FLAB_FRTE_ CHAIN_ADDRESS	
				-> first FRTE owned by this FLAB
(38)	BIT(8)	1	FLAB_FLAGS	Flag byte
	1...		FLAB_FORCE_ ABEND	SDT connect failed, abend
	.1..		*	Reserved

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		FLAB_BACKOUT_ ATTEMPTS_DISABLED	
				Do not attempt backout: base data set has had a backout failure since the last unshunt
	...1		*	Reserved
	.... 1...		FLAB_MI_ COMPLETE_SEEN	
				Mass insert complete log rec seen (restart)
	.... .1..		FLAB_WA_ COMPLETE_SEEN	
				Write add complete log rec seen (restart)
	.... ..1.		FLAB_NEEDS_ FLLB	FLLB getmained but not yet chained
	1		FLAB_HAS_FLLB	FLLB now chained
(39)	BIT(8)	1	FLAB_SECURITY_ ACCESS	
				Security Characteristics
	1...		FLAB_READ_ ALLOWED	
				Read security check OK
	.1..		FLAB_UPDATE_ ALLOWED	
				Update security check OK
	..11 1111		*	Reserved
(3A)	CHARACTER	1	*	
(3A)	UNSIGNED	1	FLAB_RETAIN_ REASON	
				Reason work had to be retained
(3B)	UNSIGNED	1	FLAB_RETAIN_ REASON2	
				Sub-reason for backout failures
SET storage for READ_SET requests				
(3C)	CHARACTER	8	FLAB_SET_ CONTROL	Set storage control
(44)	CHARACTER	8	FLAB_SETU_ CONTROL	Set storage control
Threadsafe Flags ??? make these separate words				

Table 228. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	BIT(8)	1	*	
(4C)	CHARACTER	1	*	
(4C)	BIT(8)	1	FLAB_DO_ NOT_CLOSE_FLAG	
	1...		FLAB_DO_ NOT_CLOSE	
				Dont close file until syncpoint commit
(4D)	BIT(8)	1	*	
(4D)	CHARACTER	1	*	
(4D)	BIT(8)	1	FLAB_DO_ NOT_REALLOCATE_ FLAG	
	1...		FLAB_DO_ NOT_REALLOCATE	
				Dont realloc file@D1A Retained locks exist
(4E)	BIT(8)	1	*	
(4E)	CHARACTER	1	*	
(4E)	BIT(8)	1	FLAB_RECOVERABLE_ WORK_DONE_FLAG	
	1...		FLAB_RECOVERABLE_ WORK_DONE	
				Recoverable work done so eligible for shunting
(4F)	BIT(8)	1	*	
(4F)	CHARACTER	1	*	
(4F)	BIT(8)	1	FLAB_QUICMP_ PENDING_FLAG	
	1...		FLAB_QUICMP_ PENDING	
				RLS QUICOPY or QUIBWO req recvd for base data set
Statistics for this task. Copied to FCT at end of task. If a stats are collected before end of task the value collected is saved in FLAB_STATS_COLLECTED so that the extra value saved at end of task is reduced by that value				
(50)	CHARACTER	28	FLAB_STATS	Stats for task
(50)	FULLWORD	4	FLAB_FCTDSRD	READ
(54)	FULLWORD	4	FLAB_FCTDSWRA	ADD
(58)	FULLWORD	4	FLAB_FCTDSWRU	UPDATE
(5C)	FULLWORD	4	FLAB_FCTDSGU	GET UPDATE
(60)	FULLWORD	4	FLAB_FCTDSBR	BROWSE

Table 228. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(64)	FULLWORD	4	FLAB_FCTDSBRU	BROWSE UPDATE
(68)	FULLWORD	4	FLAB_FCTDSDEL	DELETE
(6C)	CHARACTER	28	FLAB_STATS_COLLECTED	
				Stats collected
(6C)	FULLWORD	4	FLAB_FCTDSRD_COLLECTED	
				READ
(70)	FULLWORD	4	FLAB_FCTDSWRA_COLLECTED	
				ADD
(74)	FULLWORD	4	FLAB_FCTDSWRU_COLLECTED	
				UPDATE
(78)	FULLWORD	4	FLAB_FCTDSGU_COLLECTED	
				GET UPDATE
(7C)	FULLWORD	4	FLAB_FCTDSBR_COLLECTED	
				BROWSE
(80)	FULLWORD	4	FLAB_FCTDSBRU_COLLECTED	
				BROWSE UPDATE
(84)	FULLWORD	4	FLAB_FCTDSDEL_COLLECTED	
				DELETE
(88)	CHARACTER	8	*	Reserved
(90)	CHARACTER	0	*	Align to double word boundary

Constants

Table 229.

Len	Type	value	Name	Description
Values for flab_retain_reason				
1	DECIMAL	0	FLAB_NOT_RETAINED	
1	DECIMAL	1	FLAB_FILE_BACKOUT_FAILURE	
1	DECIMAL	2	FLAB_CACHE_FAILURE	
1	DECIMAL	3	FLAB_RLS_CATASTROPHE	
1	DECIMAL	4	FLAB_INDOUBT	
1	DECIMAL	5	FLAB_COMMIT_FAILURE	
1	DECIMAL	6	FLAB_CICS_FAILURE	

Table 229. (continued)

Len	Type	value	Name	Description
Values for flab_retain_reason2				
1	DECIMAL	0	FLAB_NO_SUBREASON	
1	DECIMAL	1	FLAB_IO_ERROR	
1	DECIMAL	2	FLAB_NO_SPACE	
1	DECIMAL	3	FLAB_AIX_FULL	
1	DECIMAL	4	FLAB_DUP_RECORD	
1	DECIMAL	5	FLAB_OPEN_ERROR	
1	DECIMAL	6	FLAB_NO_LDEL	
1	DECIMAL	7	FLAB_DEADLOCK	
1	DECIMAL	8	FLAB_COPY_ACTIVE	
1	DECIMAL	9	FLAB_SEVERE_ERROR	
1	DECIMAL	10	FLAB_RETAINABLE_ LOCKS	
1	DECIMAL	11	FLAB_REPEATABLE_ READS	
1	DECIMAL	12	FLAB_LOCK_STRUC_FULL	

FMH Function management headers

```
MODULE NAME = DFHFMHDS
DESCRIPTIVE NAME  = CICS CICS Function Management Headers
@BANNER_START 02
                        DFHFMHDS
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
FUNCTION =
 Copybook DFHFMHDS provides dsect DFHFMHDS.
 DFHFMHDS describes the format of the Function Management Headers
 (FMHs) used by CICS.
LIFETIME =
 FMHs are used (in conjunction with user data) for communication
 between CICS and other LUs. These include:
  1. 3600 and batch LUs
  2. LUs supporting LU6.1 protocols
  3. LUs supporting LU6.2 protocols
  4. LUs supporting (CICS) IRC protocols
 The lifetime, as far as CICS is concerned, is no more than the
 lifetime of the TIOAs containing the FMHs and user data.
STORAGE CLASS =
 As for TIOAs.
LOCATION =
 As for TIOAs.
INNER CONTROL BLOCKS =
 There are no inner control blocks.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = There are no restrictions.
 MODULE TYPE = Control block definition.
 -----------------------------------------------------------------
 EXTERNAL REFERENCES =
    DATA AREAS =
```

```
CONTROL BLOCKS =
GLOBAL VARIABLES (Macro pass) =
-----------------------------------------------------------------
COMMON SECTION - 3600, BATCH LU
```

Table 230.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHFMHDS	DSECT - FORMAT MESSAGE HDR
(0)	BITSTRING	1	FMHLENG	FMH LENGTH
(0)	SIGNED	0	FMHL3600	"3" ...LENGTH OF 3600 FMH
(0)	SIGNED	0	FMHLBLU	"6" ...LENGTH OF BATCH LU FMH
(0)	SIGNED	0	FMHLLU4	"9" ...LENGTH OF LU4 FMH-NO DSN
(1)	BITSTRING	1	FMHHD	HEADER DESCRIPTION
(1)	BITSTRING	0	FMHFD	"X'40'" ...MESSAGE HAS FORMATTED DATA
(1)	BITSTRING	0	FMHALARM	"X'20'" ...TRIGGER ALARM AT DEVICE
(1)	BITSTRING	0	FMHTBLU	"X'01'" ...BATCH LU IS TYPE X'01'
(2)	BITSTRING	1	FMHLDC	LOGICAL DEVICE CODE -- SAME VALUES IN DFHSLDC, EXCEPT:
(2)	BITSTRING	0	FMHBLUIN	"X'80'" ...INPUT INDICATOR FOR BATCH LU
(3)	BITSTRING	1		RESERVED
	BATCH LU EXTENSION			
(4)	BITSTRING	1	FMHFLAGS	BATCH LU FLAGS
(4)	BITSTRING	0	FMHSUSP	"X'80'" ...SUSPEND DATA SET
(4)	BITSTRING	0	FMHBODS	"X'40'" ...BEGINNING OF DATA SET
(4)	BITSTRING	0	FMHEODS	"X'20'" ...END OF DATA SET
(5)	BITSTRING	1		RESERVED
	RESPECIFICATION FOR BATCH LU FMHS TYPE 1 FMH FORMAT			
(0)	BITSTRING	1	FMHLEN	LENGTH OF COMPLETE FMH
(1)	BITSTRING	1	FMHTYPE	TYPE OF FMH
(1)	BITSTRING	0	FMHFTYP1	"X'01'" ..TYPE 1 FMH
(1)	BITSTRING	0	FMHFTYP2	"X'02'" ..TYPE 2 FMH
(1)	BITSTRING	0	FMHFTYP3	"X'03'" ..TYPE 3 FMH

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	BITSTRING	0	FMHFCONC	"X'80'" CONCATENATED FMH
(2)	BITSTRING	1	FMHMEDIA	MEDIA SELECTION BYTE
	....		FMHMEFCN	"X'00'" ..CONSOLE
(2)	BITSTRING	0	FMHMEFEX	"X'10'" ..EXCHANGE MEDIA
(2)	BITSTRING	0	FMHMEFCD	"X'20'" ..CARD READER
(2)	BITSTRING	0	FMHMEFPR	"X'30'" ..PRINT
(2)	BITSTRING	0	FMHMEFDI	"X'40'" ..DISK
(2)	BITSTRING	0	FMHMEFPD	"X'60'" ..PDS
(2)	BITSTRING	0	FMHMEXDC	"X'50'" .. EXTENDED DOCUMENT
(2)	BITSTRING	0	FMHMEWM1	"X'80'" .. WP MEDIUM 1
(2)	BITSTRING	0	FMHMEWM2	"X'90'" .. WP MEDIUM 2
(2)	BITSTRING	0	FMHMEWM3	"X'A0'" .. WP MEDIUM 3
(2)	BITSTRING	0	FMHMEWM4	"X'C0'" .. WP MEDIUM 4
(2)	BITSTRING	0	FMHMENCI	"X'D0'" .. NCI
(2)	BITSTRING	0	FMHMEFAN	"X'7F'" ..ANY NOTE ONLY BITS 1-3 USED BIT 0 RESERVED BIT 4-7 LOGICAL SUBADDRESS
(3)	BITSTRING	1	FMHFLAG3 (0)	FLAG BYTE
(3)	BITSTRING	0	FMHT1STK	"X'80'" 'YOUR' STACK INDICATOR BIT 1-3 RESERVED
(3)	BITSTRING	1	FMHDSP (0)	DATA STREAM PROFILE
	....		FMHDSPDE	"X'00'" DEFAULT DSP
(3)	BITSTRING	0	FMHDSPBA	"X'01'" BASE DSP
(3)	BITSTRING	0	FMHDSPJB	"X'03'" JOB DSP
(3)	BITSTRING	0	FMHDSPRW	"X'04'" WP RAW
(3)	BITSTRING	0	FMHDSPI1	"X'06'" OII LEVEL 1
(3)	BITSTRING	0	FMHDSPI2	"X'07'" OII LEVEL 2
(3)	BITSTRING	0	FMHDSPI3	"X'08'" OII LEVEL 3 X'09' - X'0A' RESERVED

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	BITSTRING	0	FMHDSPSF	"X'0B'" STRUCTURED FIELDS X'0C' - X'0F' RESERVED
(3)	BITSTRING	1	FMHDSDSP	DEFINE STORAGE
(4)	BITSTRING	1	FMHDESEL	DESTINATION SELECT FIELD BIT 0-2 ONLY
	....		FMHDEFRE	"X'00'" ..RESUME DATA SET
(4)	BITSTRING	0	FMHDEFEN	"X'20'" ..END DATA SET
(4)	BITSTRING	0	FMHDEFBG	"X'40'" ..BEGIN DATA SET
(4)	BITSTRING	0	FMHDEFBD	"X'60'" ..BEGIN AND END DATA SET
(4)	BITSTRING	0	FMHDEFSU	"X'80'" ..SUSPEND DATA SET
(4)	BITSTRING	0	FMHDEFAB	"X'A0'" ..ABORT DATA SET
(5)	BITSTRING	1	FMHRESV1 (0)	RESERVED
(5)	BITSTRING	1	FMHERCI	EXCHANGE RECORD LENGTH
(6)	BITSTRING	1	FMHRESV2 (2)	RESERVED
(8)	BITSTRING	1	FMHDSNL	LENGTH OF DESTINATION NAME
(9)	CHARACTER	1	FMHDSNH (0)	ACTUAL DSN NAME
TYPE 2 FMH OVERLAY				
(2)	BITSTRING	1	FMH2OPCD	TYPE OF OPERATION
(2)	BITSTRING	0	FMH2FADD	"X'24'" ..ADD OPERATION
(2)	BITSTRING	0	FMH2FREP	"X'25'" ..REPLACE OPERATION
(2)	BITSTRING	0	FMH2FQUE	"X'28'" ..QUERY OPERATION
(2)	BITSTRING	0	FMH2FNOT	"X'29'" ..NOTE OPERATION
(2)	BITSTRING	0	FMH2NTRY	"X'2A'" ..NOTE REPLY OPERATION
(2)	BITSTRING	0	FMH2FRID	"X'2B'" ..RECID OPERATION
(2)	BITSTRING	0	FMH2FERA	"X'2C'" ..ERASE OPERATION
(2)	BITSTRING	0	FMH2FVOL	"X'2E'" ..VOLID OPERATION

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	BITSTRING	1	FMH2NURC (0)	NUMBER OF RECORDS AFFECTED
(3)	BITSTRING	1	FMH2RITY (0)	TYPE OF KEY FOR RECID TYPE
	....		FMH2RIAK	"X'00'" ..ADDRESSED DIRECT
(3)	BITSTRING	0	FMH2RID1	"X'01'" ..KEY DIRECT KEY1
(3)	BITSTRING	0	FMH2RID2	"X'02'" ..KEY DIRECT KEY2
(3)	BITSTRING	0	FMH2RIAP	"X'03'" ..APPLICATION DEFINITION
(3)	BITSTRING	0	FMH2RICC	"X'04'" ..CONTROL DEFINITION
(3)	BITSTRING	1	FMH2DAT1 (0)	START OF DATA FIRST TYPE
(3)	BITSTRING	1		OVERLAYED BYTE
(4)	CHARACTER	1	FMH2DAT2 (0)	START OF DATA SECOND TYPE

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	THE FOLLOWING DSECT DESCRIBES FUNCTION MANAGEMENT HEADERS AND IN SOME CASES THE DATA THAT CAN FOLLOW THE HEADER. THE ORGANIZATION OF THE DEFINITIONS WITHIN THIS PART OF THE COPY BOOK IS AS FOLLOWS :- 1. THE STANDARD PART OF A FUNCTION MANAGEMENT HEADER. THESE DEFINITIONS APPLY WHATEVER TYPE, GROUP AND FUNCTION CODE THE HEADER MAY CARRY. 2. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 5; THAT IS, ATTACH HEADERS. THESE MAY BE IDENTIFIED BY THE PREFIX 'FMHA' FOR LU6.1 AND BY THE PREFIX 'FMHB' FOR LU6.2. 3. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 6; THAT IS, SCHEDULER MODEL, QUEUE MODEL AND DL/I MODEL HEADERS. THESE MAY BE IDENTIFIED BY THE PREFIXES 'FMHS', 'FMHQ' AND 'FMHD' RESPECTIVELY. 4. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 7; THAT IS, SYSTEM MESSAGES. THESE ARE IDENTIFIED BY THE PREFIX 'FMHSM' 5. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 10; THAT IS, SYNCPOINT HEADERS. THESE ARE IDENTIFIED BY THE PREFIX 'FMHP' 6. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 12; THAT IS, TRANSFORMED PASSWORD HEADERS. THESE ARE IDENTIFIED BY THE PREFIX 'FMHV'. 7. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 43; THAT IS, CICS PRIVATE HEADERS. THESE MAY BE IDENTIFIED BY THE PREFIX 'FMHC'. NOTE THAT THE DECLARED LENGTHS OF VARIABLE LENGTH PARAMETERS ALLOW FOR THE (REASONABLE) LENGTH OF THE PARAMETER VALUES. TO EACH MUST BE ADDED ONE BYTE FOR THE PRECEEDING LENGTH FIELD. (REFER TO MODULE DFHXFP FOR EXAMPLES OF HOW VARIABLE LENGTH PARAMETERS ARE HANDLEED.) NOTE ALSO THAT A THEORETICAL MAXIMUM LENGTH IS QUOTED FOR MOST FMHS. THIS PERMITS THE FASTER CONSTRUCTION OF FMHS AT THE EXPENSE OF A FEW EXTRA BYTES OF STORAGE.				
(0)	CHARACTER	1	FMHL	LENGTH OF FMH
(1)	CHARACTER	1	FMHCT	CONCATENATION FLAG AND FMH TYPE BITS SET AS FOLLOWS
(1)	BITSTRING	0	FMHCAT	"X'80'" A SECOND F.M. HEADER COMES AFTER THIS ONE BIT1 - BIT 7 FMH TYPE VALUES SET AS FOLLOWS
(1)	BITSTRING	0	FMHT05	"X'05'" IBM ARCHITECTED ATTACH F.M. HEADER

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	BITSTRING	0	FMHT06	"X'06'" IBM ARCHITECTED MODEL F.M. HEADER
(1)	BITSTRING	0	FMHT07	"X'07'" IBM ARCHITECTED SYSTEM MESSAGE F.M. HEADER
(1)	BITSTRING	0	FMHT0A	"X'0A'" IBM ARCHITECTED SYNCPOINT F.M. HEADER
(1)	BITSTRING	0	FMHT0C	"X'0C'" IBM ARCHITECTED TRANSFORMED PASSWORD F.M. HEADER
(1)	BITSTRING	0	FMHT43	"X'43'" CICS ARCHITECTED MODEL F.M. HEADER
(2)	CHARACTER	2	FMHXCMD (0)	GROUP AND FUNCTION CODES
(2)	CHARACTER	2	FMHXSS (0)	FMH T7 SYSTEM SENSE
(2)	CHARACTER	1	FMHGROUP	GROUP CODE
(3)	CHARACTER	1	FMHFN	FUNCTION CODE
(4)	CHARACTER	2	FMHXUS (0)	FMH T7 USER SENSE
(4)	CHARACTER	1	FMHXMOD	MODIFIER BITS SET AS FOLLOWS
(4)	BITSTRING	0	FMHXLNSZ	"X'80'" '0' FOR 1 BYTE FMH LENGTH FIELDS(LU6.1 FMH ONLY)
(4)	BITSTRING	0	FMHXTOS	"X'40'" Set if system supports Time-out delete of remote skeletons (Transaction Routing only) BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED BIT5 RESERVED BIT6 RESERVED BIT7 RESERVED
(5)	CHARACTER	1	FMHXFXCT	LENGTH OF FIXED LENGTH PARAMETERS IN FMH

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6)	CHARACTER	1	FMHFORG (0)	ORIGIN FOR THE TYPE, GROUP AND FUNCTION DEPEND- ENT FIXED LENGTH PARAMETERS
(6)		0	LFMH	"*-DFHFMHDS" LENGTH OF THE STANDARD PART OF THE HEADER
TYPE 5 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF ATTACH MANAGEMENT LU6.1 ATTACH FUNCTION MANAGEMENT HEADER X'0202' GROUP AND FUNCTION FMHGROUP VALUES SET AS FOLLOWS				
(6)	BITSTRING	0	FMHT5ATT	"X'02'" GROUP IS ATTACH FMHFN VALUES SET AS FOLLOWS
(6)	BITSTRING	0	FMHATTFN	"X'02'" FUNCTION IS ATTACH
(6)	CHARACTER	1	FMHATDS	SECURITY ALGORITHM VALUE
(7)	CHARACTER	1	FMHATDBA	DATA ALGORITHM VALUE VALUES SET AS FOLLOWS
	....		FMHAU	"X'00'" UNDEFINED
(7)	BITSTRING	0	FMHAV	"X'01'" VARIABLE LENGTH
(7)	BITSTRING	0	FMHASCSD	"X'02'" DOCUMENT SUBSET OF SCS
(7)	BITSTRING	0	FMHASCSC	"X'03'" CARD SUBSET OF SCS
(7)	BITSTRING	0	FMHARUC	"X'04'" CHAIN OF REQUEST UNITS
(7)	BITSTRING	0	FMHARU	"X'05'" REQUEST UNIT
(7)		0	LFMH0202	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(7)		0	LF050202	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHATDPN (0)	PROCESS TO BE INITIATED

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	1	FMHATDPL	PROCESS NAME LENGTH
(0)	SIGNED	0	FMHARLEN	"1" LENGTH OF AN ARCHITECTED PROCESS NAME
(1)	CHARACTER	4	FMHATDPV (0)	PROCESS NAME UP TO FOUR CHARACTERS
(1)	BITSTRING	0	FMHARMAX	"X'3F'" MAXIMUM POSSIBLE VALUE FOR ARCHITECTED PROCESS NAMES - NON-GRAPHIC VALUES
(0)	CHARACTER	8	FMHATPRN (0)	RESOURCE FOR INITIATED PROCESS
(0)	CHARACTER	8	FMHARDPN (0)	RETURN PROCESS NAME
(0)	CHARACTER	8	FMHARPRN (0)	RESOURCE FOR RETURN PROCESS
(0)	CHARACTER	8	FMHATDQN (0)	QUEUE TO BE ASSOCIATED WITH INITIATED PROCESS
(0)		0	TA050202	"LF050202+1+L'FMHATDPN+1+L'FMHA
(0)		0	MF050202	"TA050202+1+L'FMHARPRN+1+L'FMHA GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE ATTACH FMH
LU6.2 ATTACH FUNCTION MANAGEMENT HEADER X'02FF' GROUP AND FUNCTION GROUP AND FUNCTION VALUES SET AS FOLLOWS				
(0)	BITSTRING	0	FMHBCMD	"X'02FF'" ATTACH LU6.2
(0)	BITSTRING	0	FMHBTTFN	"X'FF'" FUNCTION = LU6.2 ATTACH FLAGS SET IN FMHXMOD
(0)	BITSTRING	0	FMHBPIP	"X'08'" PIP PRESENT
(0)	BITSTRING	0	FMHBXSEC	"X'04'" Extended security bit
(0)	BITSTRING	0	FMHBAVER	"X'80'" USERID ALREADY VERIFIED
(0)	BITSTRING	0	FMHBPVER	"X'40'" USERID PERSISTENTLY VERIFIED

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	BITSTRING	0	FMHBPV2	"X'20'" Userid Persistently Signed On FMHXFXCT
(0)	BITSTRING	0	FMHBFXCT	"X'03'" LENGTH OF FIXED LENGTH PARMS
(6)	BITSTRING	1	FMHBCVT (0)	CONVERSATION TYPE
(6)	BITSTRING	0	FMHBUNMP	"X'D0'" UNMAPPED
(6)	BITSTRING	0	FMHBMAPD	"X'D1'" MAPPED
(6)	BITSTRING	1	FMHBFXT1	1ST BYTE
(7)	BITSTRING	1	FMHBFXT2	2ND BYTE - RESERVED 3RD BYTE
(8)	BITSTRING	1	FMHBSPL (0)	BITS 0-1 - SYNC POINT LEVEL
	....		FMHBSPL0	"X'00'" NO SYNC
(8)	BITSTRING	0	FMHBSPL1	"X'40'" COMMIT ONLY (CONFIRM)
(8)	BITSTRING	0	FMHBSPL2	"X'80'" FULL SYNCPT
(8)	BITSTRING	0	FMHBSPMK	"X'C0'" SYNC POINT MASK
(8)	BITSTRING	1	FMHBRSTL (0)	BIT 2 - RESTART LEVEL
	....		FMHBRNO	"X'00'" - NO
(8)	BITSTRING	0	FMHBRYES	"X'20'" - YES
(8)	BITSTRING	1	FMHBFXT3	3RD BYTE
(8)		0	LF0502FF	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	1	FMHBTPNL	ACTUAL LENGTH OF FMHBTPN
(1)	CHARACTER	32	FMHBTPN (0)	TRANSACTION PROGRAM NAME
(0)	CHARACTER	1	FMHBACCL	ACTUAL LENGTH OF FMHBACC
(1)	CHARACTER	139	FMHBACC (0)	SECURITY ACCESS CODE
(0)	CHARACTER	1	FMHBACSL	ACCESS SUBFIELD LENGTH
(1)	CHARACTER	1	FMHBACST	ACCESS SUBFIELD TYPE
	....		FMHBACPR	"X'00'" PROFILE-ID
(1)	BITSTRING	0	FMHBACPA	"X'01'" PASSWORD
(1)	BITSTRING	0	FMHBACUS	"X'02'" USER-ID

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	BITSTRING	0	FMHBAC_EWLM	"X'F8'" EWLM correlator
(1)	BITSTRING	0	FMHBAC_RQS	"X'F9'" Requeststream flow
(1)	BITSTRING	0	FMHBAC_RRS	"X'FA'" RRS data field
(1)	BITSTRING	0	FMHBAC_EPN	"X'FB'" ENTRY PORT NAME
(1)	BITSTRING	0	FMHBAC_EPT	"X'FC'" ENTRY PORT TYPE
The entry port type can either be X'00' representing a VTAM terminal, or X'01' representing a console.				
	....		FMH_VTAM_ TERMINAL	"X'00'"
(1)	BITSTRING	0	FMH_CONSOLE	"X'01'"
(1)	BITSTRING	0	FMHBAC_APL	"X'FD'" APPLID OF ENTRY PORT
(1)	BITSTRING	0	FMHBAC_PRI	"X'FE'" SHIPPED TASK PRIORITY
(1)	BITSTRING	0	FMHBAC_SRC	"X'FF'" MVS/WLM SRC TOKEN
(2)	CHARACTER	64	FMHBACSD (0)	ACCESS SUBFIELD DATA
(0)	CHARACTER	1	FMHBUOWL	ACTUAL LENGTH OF FMHBUOW
(1)	CHARACTER	30	FMHBUOW (0)	UNIT OF WORK ID
(1)	CHARACTER	1	FMHBULUL	LENGTH OF LU NAME
(2)	CHARACTER	17	FMHBULU (0)	LU NAME (NETWORK NAME FROM ACB)
(0)	CHARACTER	6	FMHBUCLK	UOW INSTANCE (STORE CLOCK VALUE)
(6)	CHARACTER	2	FMHBUSEQ	UOW SEQUENCE NO
(0)	CHARACTER	1	FMHBCCSL	ACTUAL LENGTH OF FMHBCCS
(1)	CHARACTER	8	FMHBCCS (0)	SENDER'S CONVERSATION CORRELATOR
(0)	CHARACTER	1	FMHBSEQL	Actual length of FMHBSEQ
(1)	CHARACTER	8	FMHBSEQ (0)	Sender's DCE sequence number
(1)		0	TA0502FF	"LF0502FF+1+L'FMHBTPN+1+L'FMHBA

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)		0	MF0502FF	"TA0502FF+1+L'FMHBCCS+L'FMHBS GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE LU6.2 ATTACH FMH
TYPE 6 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 SYSTEM MESSAGE MODEL SYSSTAT FUNCTION MANAGEMENT HEADER USED FOR LOGGING ERROR MESSAGES ON CSMT X'0402' GROUP AND FUNCTION NOTE THAT CICS/VS WILL NOT SEND THE SYSSTAT FMH				
(6)		0	LF060402	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
SYSERROR FUNCTION MANAGEMENT HEADER USED FOR ..... X'0404' GROUP AND FUNCTION NOTE THAT CICS/VS WILL NOT SEND NOR RECEIVE THE SYSERROR FMH				
(6)		0	LF060404	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	4	FMHERDPN	DPN FOR INTENDED REPLY
(0)	CHARACTER	4	FMHERPRN	PRN FOR INTENDED REPLY
(0)		0	MF060404	"LF060404+1+L'FMHERDPN+1+L'FMI GOOD UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SYSERROR FMH

FUNCTION MANAGMENT HEADERS SENT AND RECEIVED
IN SUPPORT OF THE LU6 SCHEDULER MODEL
SCHED FUNCTION MANAGEMENT HEADER
USED FOR
      IC SCHEDULE REQUESTS
X'0802' GROUP AND FUNCTION
         ADDITIONAL FLAGS SET IN
         FMHXMOD FOR SCHED FMH				

(0)	BITSTRING	0	FMHXRPLY	"X'40'" REPLY IS EXPECTED
(0)	BITSTRING	0	FMHXPROT	"X'20'" REQUEST IS PROTECTED
(0)	BITSTRING	0	FMHXDELY	"X'10'" TIMER IS REQUIRED

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	BITSTRING	0	FMHRTST	"X'08'" Routable START
(0)	BITSTRING	0	FMHRESUN	"X'04'" RESUNAVAIL is supported
(0)	BITSTRING	0	FMHCHANL	"X'02'" CHANNEL request
(6)	CHARACTER	1	FMHSRQST	DETAILS OF SCHEDULE REQUEST BITS SET AS FOLLOWS
(6)	BITSTRING	0	FMHSTIME	"X'80'" TIME DELAY SPECIFIED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED BIT5 RESERVED BIT6 RESERVED BIT7 RESERVED
(6)		0	LF060802	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHSSDPN (0)	NAME OF PROCESS THAT IS TO BE INITIATED
(0)	CHARACTER	4	FMHSPRN (0)	NAME OF PRIMARY RESOURCE FOR PROCESS BEING INITIATED
(0)	CHARACTER	8	FMHSRDPN (0)	SUGGESTED NAME FOR RETURN PROCESS
(0)	CHARACTER	4	FMHSRPRN (0)	SUGGESTED NAME FOR PRIMARY RESOURCE FOR RETURN PROCESS
(0)	CHARACTER	8	FMHSQNME (0)	NAME OF QUEUE ASSOCIATED WITH PROCESS BEING INITIATED
(0)	CHARACTER	8	FMHSREQN (0)	NAME OF REQUEST INSTANCE ASSOCIATED WITH PROCESS
(0)	CHARACTER	6	FMHSDELY (0)	THE INTERVAL OR TIME INITIATION DELAY FIELD
(0)	CHARACTER	8	FMHUSID (0)	THE USERID ON A START COMMAND
(0)	CHARACTER	8	FMHSYSNE (0)	Applid for PF start

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	8	FMHTRMNE (0)	Terminal netname for start
(0)		0	TA060802	"LF060802+1+L'FMHSSDPN+1+L'FMH
(0)		0	TB060802	"TA060802+1+L'FMHSRPRN+1+L'FMH
(0)		0	MF060802	"TB060802+1+L'FMHSDELY+1+L'FMH GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SCHED FMH

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          SCDSTAT FUNCTION MANAGEMENT HEADER
     USED FOR
            IC SCHEDULE REPLIES
     X'0804' GROUP AND FUNCTION
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Offset Hex	Type	Len	Name (dim)	Description
(6)	CHARACTER	1	FMHSSSTS	STATUS OF SCHEDULE REQUEST BITS SET AS FOLLOWS BIT0 RESERVED
(6)	BITSTRING	0	FMHSSYSI	"X'40'" Unable to ship request to next node
(6)	BITSTRING	0	FMHSINAU	"X'20'" UNAUTHORIZED REQUEST
(6)	BITSTRING	0	FMHSIEXP	"X'10'" INITIATION TIME EXPIRED
(6)	BITSTRING	0	FMHSIDPN	"X'08'" INVALID PROCESS NAME
(6)	BITSTRING	0	FMHSIPRN	"X'04'" INVALID RESOURCE NAME
(6)	BITSTRING	0	FMHSERR	"X'02'" UNABLE TO SCHEDULE DUE TO PROCESSING ERROR
(6)	BITSTRING	0	FMHSINV	"X'01'" INVALID REQUEST
(7)	CHARACTER	1	FMHSSST2	EXTENSION TO FMHSSSTS BITS SET AS FOLLOWS
(7)	BITSTRING	0	FMHUIDER	"X'80'" USERID ERROR
(7)		0	LF060804	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHSIREQ (0)	REQUEST NAME GENERATED BY RECEIVING SYSTEM

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)		0	MF060804	"LF060804+1+L'FMHSIREQ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SCDSTAT FMH
	PURGREQ FUNCTION MANAGEMENT HEADER USED FOR IC CANCEL REQUESTS X'0806' GROUP AND FUNCTION			
(6)		0	LF060806	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHSREQN
(0)	CHARACTER	8	FMHSCDPN (0)	NAME OF PROCESS THAT IS TO BE CANCELLED
(0)		0	MF060806	"LF060806+1+L'FMHSREQN+1+L'FMHSC GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE PURGREQ FMH
	PURGSTAT FUNCTION MANAGEMENT HEADER USED FOR IC CANCEL REPLIES X'0808' GROUP AND FUNCTION			
(6)	CHARACTER	1	FMHSPSTS	STATUS OF PURGE REQUEST BITS SET AS FOLLOWS BIT0 RESERVED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED
(6)	BITSTRING	0	FMHSPSYS	"X'04'" Unable to ship request to next node
(6)	BITSTRING	0	FMHSPNAU	"X'02'" UNAUTHORIZED REQUEST
(6)	BITSTRING	0	FMHSNFD	"X'01'" NAMED REQUEST NOT FOUND
(6)		0	LF060808	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description

FUNCTION MANAGMENT HEADERS SENT AND RECEIVED
IN SUPPORT OF THE LU6 QUEUE MODEL
QPUT FUNCTION MANAGEMENT HEADER
USED FOR
       WRITEQ TD REQUESTS
       WRITEQ TS REQUESTS
X'0A02' GROUP AND FUNCTION				

(6)	BITSTRING	0	FMHCNDRQ	"X'02'" CONDITIONAL REQUEST
(6)	CHARACTER	1	FMHQQORG	TYPE OF QUEUE VALUES SET AS FOLLOWS
	....		FMHQNSPE	"X'00'" QUEUE TYPE NOT SPECIFIED
(6)	BITSTRING	0	FMHQSEQL	"X'01'" QUEUE TYPE IS SEQUENTIAL
(6)	BITSTRING	0	FMHQLINE	"X'02'" QUEUE TYPE IS LINEAR
(6)	BITSTRING	0	FMHQHIER	"X'03'" QUEUE TYPE IS HIERARCHICAL
(6)		0	LF060A02	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	16	FMHQNAME (0)	THE QUEUE NAME IS FROM 1 TO 16 CHARACTERS
(0)		0	MF060A02	"LF060A02+1+L'FMHQNAME" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QPUT FMH

QGET FUNCTION MANAGEMENT HEADER
USED FOR
       READQ TS REQUESTS
X'0A04' GROUP AND FUNCTION
               ADDITIONAL FLAGS SET IN
            FMHXMOD FOR QGET FMH
FMHCNDRQ EQU X'02' CONDITIONAL REQUEST				

(6)	CHARACTER	1		see definition for FMHQQORG
(6)		0	LF060A04	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHQNAME
(0)	CHARACTER	2	FMHQCURS	THE CURSOR IS HELD AS TWO BYTE BINARY

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	2	FMHQTRSZ	THE MAXIMUM RECORD LENGTH IS HELD AS TWO BYTE BINARY
(0)		0	MF060A04	"LF060A04+1+L'FMHQNAME+1+L'FMH GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QGET FMH

	QPURGE FUNCTION MANAGEMENT HEADER
	USED FOR
	      DELETEQ TD REQUESTS
	      DELETEQ TS REQUESTS
	X'0A06' GROUP AND FUNCTION				

(6)	CHARACTER	1		see definition for FMHQQORG
(6)		0	LF060A06	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHQNAME
(0)		0	MF060A06	"LF060A06+1+L'FMHQNAME" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QPURGE FMH

	QXFR FUNCTION MANAGEMENT HEADER
	USED FOR
	      READQ TD REPLIES
	      READQ TS REPLIES
	X'0A08' GROUP AND FUNCTION				

(6)	CHARACTER	1		see definition for FMHQQORG
(7)	CHARACTER	1	FMHQXFST	STATUS BYTE BITS SET AS FOLLOWS BIT0 RESERVED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED
(7)	BITSTRING	0	FMHQDISP	"X'04'" DISPOSITION OF QUEUE BIT6 RESERVED
(7)	BITSTRING	0	FMHQEMSG	"X'01'" END OF MESSAGE
(7)		0	LF060A08	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	2	(0)	see definition for FMHQCURS
(0)	CHARACTER	2	FMHQRCNT (0)	NUMBER OF OCCURENCES OF RECORDS AT LOWEST LEVEL OF CURSOR
(0)	CHARACTER	2	FMHQRCLN (0)	RECORD LENGTH BEFORE TRUNCATION
(0)		0	MF060A08	"LF060A08+1+L'FMHQCURS+1+L'FM GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QXFR FMH

QSTATUS FUNCTION MANAGEMENT HEADER
USED FOR
        WRITEQ TD REPLIES
        WRITEQ TS REPLIES
        READQ TD REPLIES
        READQ TS REPLIES
        DELETEQ TD REPLIES
        DELETEQ TS REPLIES
X'0A0A' GROUP AND FUNCTION
NOTE THAT CICS/VS WILL NOT SEND EITHER
THE FMHQSENS OR THE FMHQNAME VARIABLE
LENGTH PARAMETER				

(6)	CHARACTER	1		see definition for FMHQQORG
(7)	CHARACTER	2	FMHQSTAT (0)	STATUS OF REQUEST
(7)	CHARACTER	1	FMHQSTA1	FIRST STATUS BYTE BITS SET AS FOLLOWS
(7)	BITSTRING	0	FMHQINVL	"X'80'" INVALID LENGTH FOR REQUEST
(7)	BITSTRING	0	FMHQINVN	"X'40'" INVALID QUEUE NAME
(7)	BITSTRING	0	FMHQRNVL	"X'20'" RECORD NOT AVAILABLE
(7)	BITSTRING	0	FMHQNAVL	"X'10'" QUEUE NAME NOT AVAILABLE
(7)	BITSTRING	0	FMHQSPAC	"X'08'" NO SPACE LEFT ON QUEUE
(7)	BITSTRING	0	FMHQINVC	"X'04'" INVALID CURSOR
(7)	BITSTRING	0	FMHQERRO	"X'02'" I/O ERROR WHEN QUEUE ACCESSED

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7)	BITSTRING	0	FMHQEMPT	"X'01'" QUEUE IS EMPTY
(8)	CHARACTER	1	FMHQSTA2	RESERVED
(8)	BITSTRING	0	FMHQIORG	"X'80'" Q-ORG NOT SUPPORTED
(8)	BITSTRING	0	FMHQNAUT	"X'40'" UNAUTHORIZED REQUEST
(8)	BITSTRING	0	FMHQSYSI	"X'20'" Unable to ship request to next node
(8)	BITSTRING	0	FMHQDISA	"X'10'" Queue exists but has been disabled
(8)	BITSTRING	0	FMHQINVR	"X'08'" Invalid request; e.g. DELETEQ for extra TD
(8)	BITSTRING	0	FMHQLOCK	"X'04'" Queue is locked
(8)		0	LF060A0A	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	2	(0)	see definition for FMHQCURS
(0)	CHARACTER	256	FMHQSENS (0)	SENSE DATA (COULD BE ACCESS METHOD DATA)
(0)	CHARACTER	8	(0)	see definition for FMHQNAME
(0)		0	MF060A0A	"LF060A0A+1+L'FMHQCURS" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QSTATUS FMH

QREPL FUNCTION MANAGEMENT HEADER
USED FOR
    WRITEQ TS REQUESTS
X'0A0C' GROUP AND FUNCTION
        ADDITIONAL FLAGS SET IN
        FMHXMOD FOR QREPL FMH
FMHCNDRQ EQU X'02' CONDITIONAL REQUEST				

(6)	CHARACTER	1		see definition for FMHQQORG
(6)		0	LF060A0C	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHQNAME

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	2	(0)	see definition for FMHQCURS
(0)		0	MF060A0C	"LF060A0C+1+L'FMHQNAME+1+L'FI GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QREPL FMH

QGETN FUNCTION MANAGEMENT HEADER
USED FOR
       READQ TD REQUESTS
       READQ TS REQUESTS
   X'0A10' GROUP AND FUNCTION
          ADDITIONAL FLAGS SET IN
          FMHXMOD FOR QGETN FMH
FMHCNDRQ EQU X'02' CONDITIONAL REQUEST				

(6)	CHARACTER	1		see definition for FMHQQORG
(6)		0	LF060A10	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8		see definition for FMHQNAME
(0)	CHARACTER	2		see definition for FMHQTRSZ
(0)		0	MF060A10	"LF060A10+1+L'FMHQNAME+1+L'FN GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QGETN FMH
 FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 DL/I MODEL DL/I MODEL FUNCTION MANAGEMENT HEADERS CAN BE FOLLOWED BY ONE OR MORE SELF DESCRIBING PIECES OF DATA.				
(0)	CHARACTER	2	FMHDLENG	LENGTH OF PARAMETER; INCLUDES LENGTH AND TYPE FIELDS
(2)	CHARACTER	1	FMHDTYPE	PARAMETER TYPE - VALUES SET AS FOLLOWS
(2)	BITSTRING	0	FMHDIOA	"X'01'" FLAG SET TO SHOW THAT PARAMETER IS AN I/O AREA
(2)	BITSTRING	0	FMHDSSA	"X'02'" FLAG SET TO SHOW THAT PARAMETER IS A SSA

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	BITSTRING	0	FMHDPCB	"X'03'" FLAG SET TO SHOW THAT PARAMETER IS A PCB
(2)	BITSTRING	0	FMHDKEY	"X'04'" FLAG SET TO SHOW THAT PARAMETER IS A KEY
(2)	BITSTRING	0	FMHDSTFN	"X'05'" Flag set to show that parameter is a STATFUNC
(2)	BITSTRING	0	FMHDSRTK	"X'06'" Flag set to show that parameter is a SRTOKEN
(2)	BITSTRING	0	FMHDSCHD	"X'07'" Flag set to show that parameter is a SCHEDINFO
(2)	BITSTRING	0	FMHDAIB	"X'08'" Flag set to show that parameter is a AIB
(3)	CHARACTER	256	FMHDPARM (0)	THE PARAMETER ITSELF; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE
(3)	CHARACTER	256	FMHDAREA (0)	THE I/O AREA; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE
(3)	CHARACTER	256	FMHDPSSA (0)	THE SEGMENT SEARCH ARGU-MENT; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE
(3)	CHARACTER	256	FMHDPPCB (0)	THE PCB VIEW DESCRIPTOR; 256 IS AN ARBITRARY RATHER RATHER THAN MAXIMUM VALUE
(3)	CHARACTER	4	FMHDNTNT	PROCESSING INTENT FOR THIS DATA BASE
(7)	CHARACTER	4	FMHDMKYL	MAXIMUM KEY LENGTH FOR THIS PCB (BINARY)
(B)	CHARACTER	4	FMHDSEGS	NUMBER OF SENSITIVE SEGMENTS (BINARY)

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B)		0	LFMHDVD	"*-FMHDLENG" LENGTH OF THE FIXED PART OF THE VIEW DESCR (PCB)
(0)	CHARACTER	8	FMHDDBDN (0)	DBD NAME - VARIABLE PARAM - FROM 1 TO 8 CHARACTERS LONG
(0)	CHARACTER	2	FMHDSAMX (0)	MAX SSA SIZE - VARIABLE PARAM - 2 BYTES LONG
(0)	CHARACTER	2	FMHDIOMX (0)	MAX I/O AREA SIZE - VAR IABLE PARAM - 2 BYTES LONG
(0)	CHARACTER	2	FMHDSTC (0)	Status Codes- Variable parameter - 2 bytes long
(0)	CHARACTER	8	FMHDBORG (0)	Database Organisation -Var iable param - 8 bytes long
(0)	CHARACTER	8	FMHDPCBN (0)	Real PCBNAME -Var iable param - 8 bytes long
(0)		0	MAXLDVD	"LFMHDVD+1+L'FMHDDBDN+1+L'F
	GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR VIEW DESCRIPTOR			
(3)	CHARACTER	256	FMHDPKEY (0)	THE FULLY CONCATENATED KEY FOR THIS OPERATION; 256 IS AN ARBITRARY RATHER RATHER THAN MAXIMUM VALUE
	DLIDBS FUNCTION MANAGEMENT HEADER USED FOR DL/I SCHEDULE REQUESTS X'4002' GROUP AND FUNCTION			
(6)		0	LF064002	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHDPSBN (0)	PSB NAME - VARIABLE PARAM - FROM 1 TO 8 CHARACTERS LONG

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)		0	MF064002	"LF064002+1+L'FMHDPSBN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE PSB FMH
	DLIDBSR FUNCTION MANAGEMENT HEADER USED FOR 　　　DL/I SCHEDULE REPLIES X'4004' GROUP AND FUNCTION			
(6)	CHARACTER	2	FMHDSRCS (0)	DL/I RETURN CODES
(6)	CHARACTER	1	FMHDSRC1	DL/I RETURN CODE WITH BITS SET AS FOLLOWS
(6)	BITSTRING	0	FMHDNOPN	"X'80'" DATA BASE NOT OPEN
(6)	BITSTRING	0	FMHDNFND	"X'40'" PSB NOT FOUND
(6)	BITSTRING	0	FMHDNACT	"X'20'" DL/I NOT ACTIVE
(6)	BITSTRING	0	FMHDFAIL	"X'10'" PSB INITIALIZATION FAILED
(6)	BITSTRING	0	FMHDNAUT	"X'08'" UNAUTHORIZED ACCESS TO PSB
(6)	BITSTRING	0	FMHDCONF	"X'04'" INTENT SCHEDULE CONFLICT
(6)	BITSTRING	0	FMHDIPCB	"X'02'" Invalid PCB Request E.G. IOPCB for Local PSB BIT6 RESERVED BIT7 RESERVED
(7)	CHARACTER	1	FMHDSRC2	RESERVED
(7)		0	LF064004	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIREPL FUNCTION MANAGEMENT HEADER USED FOR 　　　DL/I REPL REQUESTS X'4006' GROUP AND FUNCTION			
(6)	CHARACTER	2	FMHDPCBI	THE INDEX FOR THIS PCB
(6)		0	LF064006	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	DLIISRT FUNCTION MANAGEMENT HEADER USED FOR DL/I ISRT REQUESTS X'4008' GROUP AND FUNCTION			
(6)	CHARACTER	2		see definition for FMHDPCBI
(6)		0	LF064008	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIDLET FUNCTION MANAGEMENT HEADER USED FOR DL/I DLET REQUESTS X'400A' GROUP AND FUNCTION			
(6)	CHARACTER	2		see definition for FMHDPCBI
(6)		0	LF06400A	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIGU FUNCTION MANAGEMENT HEADER USED FOR DL/I GU REQUESTS X'4010' GROUP AND FUNCTION			
(6)	CHARACTER	2		see definition for FMHDPCBI
(6)		0	LF064010	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIGHU FUNCTION MANAGEMENT HEADER USED FOR DL/I GHU REQUESTS X'4012' GROUP AND FUNCTION			
(6)	CHARACTER	2		see definition for FMHDPCBI
(6)		0	LF064012	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIGN FUNCTION MANAGEMENT HEADER USED FOR DL/I GN REQUESTS X'4014' GROUP AND FUNCTION			
(6)	CHARACTER	2		see definition for FMHDPCBI
(6)		0	LF064014	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description

`DLIGHN FUNCTION MANAGEMENT HEADER`
`USED FOR`
`    DL/I GHN REQUESTS`
`X'4016' GROUP AND FUNCTION`				

(6)	CHARACTER	2		see definition for FMHDPCBI
(6)		0	LF064016	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER

`DLIGNP FUNCTION MANAGEMENT HEADER`
`USED FOR`
`    DL/I GNP REQUESTS`
`X'4018' GROUP AND FUNCTION`				

(6)	CHARACTER	2		see definition for FMHDPCBI
(6)		0	LF064018	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER

`DLIGHNP FUNCTION MANAGEMENT HEADER`
`USED FOR`
`    DL/I GHNP REQUESTS`
`X'401A' GROUP AND FUNCTION`				

(6)	CHARACTER	2		see definition for FMHDPCBI
(6)		0	LF06401A	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER

`DLIDBXFR FUNCTION MANAGEMENT HEADER`
`USED FOR`
`    DL/I DATABASE REPLIES`
`    (SUCCESSFUL GET REQUESTS)`
`X'401C' GROUP AND FUNCTION`				

(6)	CHARACTER	2	FMHDRCDS (0)	DL/I RETURN CODES
(6)	CHARACTER	1	FMHDRCD1	DL/I RETURN CODE WITH BITS SET AS FOLLOWS

`FMHDNOPN EQU X'80' DATA BASE NOT OPEN`
`              BIT1 RESERVED`
`              BIT2 RESERVED`
`              BIT3 RESERVED`
`              BIT4 RESERVED`				

(6)	BITSTRING	0	FMHDNVRQ	"X'04'" INVALID PCB INDEX BIT6 RESERVED BIT7 RESERVED
(7)	CHARACTER	1	FMHDRCD2	RESERVED
(8)	CHARACTER	2	FMHDSEGL	SEGMENT LEVEL (BINARY)

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A)	CHARACTER	2	FMHDSTCD	STATUS CODES
(A)		0	LF06401C	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHDSEGN (0)	THE SEGMENT NAME IS FROM ONE TO EIGHT CHARACTERS
(0)		0	MF06401C	"LF06401C+1+L'FMHDSEGN" GOOD UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE DLIDBXFR FMH

	DLIDBSTS FUNCTION MANAGEMENT HEADER
	USED FOR
	     DL/I DATABASE REPLIES
	       (UNSUCCESSFUL GET REQUESTS AND
	        (UN)SUCCESSFUL REPL/ISRT/DLET
	       REQUESTS)
	X'401E' GROUP AND FUNCTION				

(6)	CHARACTER	2	(0)	see definition for FMHDRCDS
(6)	CHARACTER	1		see definition for FMHDRCD1
(7)	CHARACTER	1		see definition for FMHDRCD2
(8)	CHARACTER	2		see definition for FMHDSEGL
(A)	CHARACTER	2		see definition for FMHDSTCD
(A)		0	LF06401E	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHDSEGN
(0)		0	MF06401E	"LF06401E+1+L'FMHDSEGN" GOOD UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE DLIDBSTS FMH
	DLIDEQ FUNCTION MANAGEMENT HEADER USED FOR DL/I DEQ REQUESTS X'4020' GROUP AND FUNCTION				
(6)	CHARACTER	2		PCB index
(6)		0	LF064020	"*-DFHFMHDS" Length of fixed part

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	ADDRESS	2		Length of view descriptor
(A)	BITSTRING	1		I/O area type View descriptor
(B)	BITSTRING	1		I/O area (1 byte)
(B)		0	MF064020	"*-DFHFMHDS" Maximum length of this header
DLIDEQR FUNCTION MANAGEMENT HEADER USED FOR DL/I DEQ REPLIES X'4022' GROUP AND FUNCTION				
(6)	CHARACTER	2		FMHDRCDS
(8)	CHARACTER	2	FMHDESTC	DL/I Status Code
(8)		0	LF064022	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
DLIDBSI Function Management Header Used for DL/I Schedule requests with IOPCB X'4024' Group and Function				
(6)	CHARACTER	8	FMHSIPSBNM	PSB Name
(6)		0	LF064024	"*-DFHFMHDS"
(0)	CHARACTER	2		FMHDLENG
(2)	CHARACTER	1		FMHDTYPE
(3)	CHARACTER	12	FMHDPSCH (0)	
(3)	CHARACTER	8	FMHDIOPC	
(C)	HALFWORD	2	FMHDNBA	
(E)	HALFWORD	2	FMHDOBA	
(E)		0	MF064024	"LF064024+2+1+L'FMHDPSCH"
DLILOG Function Management Header User for DL/I LOG requests X'4026' Group and Function				
(6)	CHARACTER	2		PCB index
(6)		0	LF064026	"*-DFHFMHDS"
DLISTAT Function Management Header User for DL/I STAT requests X'4028' Group and Function				
(6)	CHARACTER	2		PCB index
(6)		0	LF064028	"*-DFHFMHDS"
(0)	CHARACTER	2		FMHDLENG
(2)	CHARACTER	1		FMHDTYPE
(3)	CHARACTER	9	FMHDPSTA (0)	

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	CHARACTER	4	FMHDSTTY	
(7)	CHARACTER	1	FMHDSTFO	
(8)	CHARACTER	4	FMHDSTRE	
(8)		0	MF064028	"LF064028+2+1+L'FMHDPSTA"
	DLIINIT Function Management Header User for DL/I INIT requests X'402A' Group and Function			
(6)	CHARACTER	2		PCB index
(6)		0	LF06402A	"*-DFHFMHDS"
	DLISETS Function Management Header User for DL/I SETS requests X'402C' Group and Function			
(6)	CHARACTER	2		PCB index
(6)		0	LF06402C	"*-DFHFMHDS"
(0)	CHARACTER	4	FMHDPSRT	
	DLIROLS Function Management Header User for DL/I ROLS requests X'402E' Group and Function			
(6)	CHARACTER	2		PCB index
(6)		0	LF06402E	"*-DFHFMHDS"
	DLIPOS Function Management Header User for DL/I POS requests X'4030' Group and Function			
(6)	CHARACTER	2		PCB index
(6)		0	LF064030	"*-DFHFMHDS"
	DLISSR Function Management Header User for DL/I System Service Reply X'4032' Group and Function			
(6)	CHARACTER	2		FMHDRCDS
(8)	CHARACTER	2	FMHDSSCD	Status Code
(8)		0	LF064032	"*-DFHFMHDS"
	DLIINITR Function Management Header User for DL/I INIT Reply X'4034' Group and Function			
(6)		0	LF064034	"*-DFHFMHDS"
	DLIICMD Function Management Header User for DL/I ICMD requests X'4036' Group and Function			
(6)	CHARACTER	2		PCB index (zero for ICMD, RCMD, GMSG)

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6)		0	LF064036	"*-DFHFMHDS" Length of fixed part
DLIAOIR Function Management Header User for DL/I ICMD, RCMD, GMSG Reply X'4038' Group and Function				
(6)	CHARACTER	2		FMHDRCDS
(6)		0	LF064038	"*-DFHFMHDS"
DLIRCMD Function Management Header User for DL/I RCMD requests X'403A' Group and Function				
(6)	CHARACTER	2		PCB index (zero for ICMD, RCMD, GMSG)
(6)		0	LF06403A	"*-DFHFMHDS" Length of fixed part
DLIGMSG Function Management Header User for DL/I GMSG requests X'403C' Group and Function				
(6)	CHARACTER	2		PCB index (zero for ICMD, RCMD, GMSG)
(6)		0	LF06403C	"*-DFHFMHDS" Length of fixed part
DLIINQY Function Management Header User for DL/I INQY requests X'403E' Group and Function				
(6)	CHARACTER	2		PCB index (zero for INQY)
(6)		0	LF06403E	"*-DFHFMHDS" Length of fixed part
TYPE 7 FUNCTION MANAGEMENT HEADERS				
(6)	CHARACTER	1	FMHELOG (0)	LUTYPE 6.2 ERROR LOG
(6)	BITSTRING	0	FMHELOG1	"X'80'" GDS DATA VARIABLE
	....		FMHELOG0	"X'00'" NO GDS DATA VARIABLE
(6)	CHARACTER	2	FMHSMNUM	MESSAGE NUMBER
(6)		0	LFMHSM	"*-DFHFMHDS" LENGTH OF ARCHITECTED T7 FMH
(8)	CHARACTER	1	FMHSMSTD (0)	END OF ARCHITECTED T7 FMH
(8)	CHARACTER	4	FMHSMCCD	CICS ABEND CODE

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	CHARACTER	5	FMHSMDCD	DL/I ABEND CODE
(C)		0	LFMHSMDL	"*-DFHFMHDS" LENGTH OF MM T7 FMH
	TYPE 10 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF SYNCPOINT MANAGEMENT SYNCPOINT FUNCTION MANAGEMENT HEADER X'0202' GROUP AND FUNCTION			
(C)	BITSTRING	0	FMHPGPSY	"X'02'" SYNCH POINT GROUP
(C)	BITSTRING	0	FMHPGPPR	"X'02'" PREPARE SUBGROUP
(4)	BITSTRING	1	FMHPRSV1	RESERVED '00'
(5)	BITSTRING	1	FMHPPTYP	PREPARE TYPE
	....		FMHPPTFL	"X'00'" PREPARE WITH KEEP FLOW
(5)	BITSTRING	0	FMHPPTEB	"X'01'" PREPARE WITH REQUEST EB
(5)	BITSTRING	0	FMHPPTCD	"X'02'" PREPARE WITH REQUEST CD
(5)		0	LF0A0202	"*-DFHFMHDS" LENGTH
	TYPE 12 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF BIND TIME SECURITY TRANSFORMED PASSWORD FUNCTION MANAGEMENT HEADER ---- GROUP AND FUNCTION NOT SUPPORTED			
(2)	BITSTRING	8	FMHVTPW	TRANSFORMED PASSWORD
(2)		0	LFFMHV	"*-DFHFMHDS" LENGTH
	TYPE 43 FUNCTION MANAGEMENT HEADERS CICS PRIVATE HEADERS THE FUNCTION MANAGEMENT HEADER FOR A CICS REQUEST OR REPLY. SINCE THIS IS A PRIVATE FMH, THE DIRECTION OF TRANSMISSION DETERMINES WHETHER IT REPRESENTS A REQUEST OR A REPLY.			
(6)		0	LFMHCICS	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	14	FMHCOPTS (0)	FOR OUTBOUND REQUESTS - THE EXISTENCE AND TCA BITS FROM ARG0
(0)	CHARACTER	9	FMHCINVP (0)	For outbound DPL requests - the name of the invoking program

Table 230. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	5	FMH43_PC_CCSID (0)	
(0)	CHARACTER	5	FMH43_PC_NDIAN (0)	
(0)	CHARACTER	7	FMHCRCDE (0)	FOR INBOUND REPLIES - THE ERROR CODES FROM EIBRCODES
(0)	CHARACTER	7	FMHRESP (0)	FOR INBOUND REPLIES - RESPONSE/REASON ETC.
(0)	CHARACTER	5	FMHVRSN (0)	FOR INBOUND REPLIES - VERSION NUMBER OF REPLY FIELDS
(0)	CHARACTER	3	FMHFLGS (0)	FOR INBOUND REPLIES - FLAG BYTES
(0)	BITSTRING	0	FMH_TERMINATE_ STRING	
				"X'80'" TERMINATE STRING INDICATOR
(0)	CHARACTER	5	FMHCTRRC (0)	FOR INBOUND REPLIES - THE TRANSACTION ROUTING RETURN CODE TO BE PASSED TO CPSM
	THIS FMH IS FOLLOWED BY ZERO OR MORE DATA VARIABLES WHICH REPRESENT ARGUMENTS TO AN EXEC CICS COMMAND. NOT ALL ARGUMENTS WILL BE SENT AND FURTHERMORE THE VALUES TRANSMITTED WILL DEPEND ON THE FUNCTION AND DIRECTION OF TRANSMISSION.			
(0)	CHARACTER	2	FMHCARGL	LENGTH OF PARAMETER; INCLUDES LENGTH AND ARGNO FIELDS
(2)	CHARACTER	1	FMHCARGN	ARGUMENT NUMBER; ARG3 IS REPRESENTED BY VALUE X'06'
(3)	CHARACTER	256	FMHCARGV (0)	THE ARGUMENT ITSELF; IT MAY BE, FOR EXAMPLE, A KEY

FMI Function and module identifiers

```
                         MODULE NAME = DFHFMIPS
                         DESCRIPTIVE NAME  = CICS FUNCTION AND MODULE IDENTIFIERS
                          @BANNER_START 02
                                           DFHFMIPS
                         Licensed Materials - Property of IBM
                         "Restricted Materials of IBM"
                         5655-S97
                         @BANNER_END
                         All names defined in DFHFMIPS form part of the
                         Product-Sensitive Programming Interface.
                                   FUNCTION AND MODULE IDENTIFIERS
                                   (SEE FOLLOWING DSECTS: DFHDWEDS,DFHJCADS,DFHJCR)
                                    FUNCTION IDENTIFIERS
                         X'20' PLUS X'8-' ...USE FOR AUTOMATIC JOURNALING
                         X'40' PLUS X'8-' ...USE FOR AUTOMATIC LOGGING
                         X'E0' thru X'FF' are reserved for Sync-Point logging
                                   (MUST BE PRESENT IN 'LOGGABLE' DWE'S)
                                      DFHFMIDS CONSTANTS
                                            JOURNAL CONTROL
```

Constants

Table 231.

Len	Type	value	Name	Description
1	HEX	80	FIDJCLAB	JOURNAL CONTROL LABEL
	FILE CONTROL			
1	HEX	40	FIDALOG	AUTOMATICALLY LOGGED
1	HEX	20	FIDAJRN	AUTOMATICALLY JOURNALLED
1	HEX	10	FIDMASS	MASSINSERT REQ (FIDFCWA ONLY) *
1	HEX	80	FIDFCRO	FILE CONTROL READ-ONLY
1	HEX	81	FIDFCRU	FILE CONTROL READ-UPDATE
1	HEX	82	FIDFCWU	FILE CONTROL WRITE-UPDATE
1	HEX	83	FIDFCWA	FILE CONTROL WRITE-ADD
1	HEX	84	FIDFCWAC	FILE CONTROL WRITE-ADD-COMP *
1	HEX	86	FIDFCWD	FILE CONTROL WRITE-DELETE *
1	HEX	88	FIDFCBOF	Backout Failed Log Record *
1	HEX	8F	FIDFCDSN	Dsname record *
NOTE THAT FID VALUES (AS ABOVE) ARE OFTEN USED BOTH TO IDENTIFY THE FUNCTION OF THE DWE AND THE FUNCTION OF THE LOG RECORD. IN THE CASE OF THE FIDFC EQU'S ABOVE, THEY ARE USED FOR LOG RECORDS ONLY. SPECIAL FEATURES FUNCTION IDENTIFIERS				

Table 231. (continued)

Len	Type	value	Name	Description
1	HEX	80	FIDPSOPC	CONTINOUS LOGICAL SPOOLOPEN
1	HEX	81	FIDPSWRC	CONTINOUS LOGICAL SPOOLWRITE
1	HEX	82	FIDPSCLC	CONTINOUS LOGICAL SPOOLCLOSE
1	HEX	83	FIDPSOPS	STANDARD SPOOLOPEN
	INTERVAL CONTROL FUNCTION IDENTIFIERS			
1	HEX	50	FIDICPDF	INTERVAL CONTROL PUT,DEFER
1	HEX	80	FIDICRGT	RESTART GET.
1	HEX	90	FIDICCAN	COPY OF CANCELLED ICE
1	HEX	08	FIDICDB	CKOUT MASK
	BMS FUNCTION IDENTIFIERS:-			
1	HEX	81	FIDBMPM	BMS - PARTIAL MESSAGE ON
1	HEX	82	FIDBMODS	BMS - OPEN DATA SET ON
	TERMINAL CONTROL FUNCTION IDENTIFIERS			
1	HEX	F0	FIDTCML	SYNC POINT - LOG SEQUENCE
1	HEX	01	FIDTCDWL	DEFERRED WRITE DATA
1	HEX	02	FIDTCFMH	FUNCTION MANAGEMENT
1	HEX	04	FIDTCDIP	DIP REQUEST
1	HEX	08	FIDTCDB	DYNAMIC BACKOUT MASK
1	HEX	40	FIDTCAL	AUTOMATIC LOGGING MASK
1	HEX	20	FIDTCAJ	AUTOMATIC JOURNALING MASK
1	HEX	80	FIDTCTL	SEQUENCE NUMBER ONLY
1	HEX	81	FIDTCIM	INPUT MESSAGE (LOG AND
1	HEX	82	FIDTCOM	OUTPUT MESSAGE (JOURNAL
1	HEX	83	FIDTCWP	WRITE WAS PURGED (LOG

Table 231. (continued)

Len	Type	value	Name	Description
1	HEX	84	FIDTCPRR	POSITIVE RESPONSE
1	HEX	85	FIDTCIMF	INPUT MESSAGE (W/FMH,
1	HEX	86	FIDTCOMN	OUTPUT MESSAGE, (W/O
1	HEX	87	FIDTCON	OUTPUT MESSAGE, FMH,
1	HEX	88	FIDTCONN	OUTPUT MESSAGE, W/O FMH,
1	HEX	89	FIDTCUA	INITIAL TCT USER AREA
1	HEX	8A	FIDTCEIB	INITIAL EXEC COMM AREA
1	HEX	8B	FIDTCIMN	IN MSG, NO FMH, DATA COMPLT *
1	HEX	8C	FIDTCINN	IN MSG, NO FMH, DATA ^COMPLT *
	GENERAL PURPOSE SUBTASK FUNCTION IDENTIFIERS			
1	HEX	80	FIDSKDF	DEFAULT FUNCTION CODE
	Front-End Programming Interface FUNCTION IDENTIFIERS			
1	HEX	F0	FIDFEPIN	FEPI Inbound API<-FEPI
1	HEX	F1	FIDFEPOU	FEPI Outbound API->FEPI
	MODULE IDENTIFIERS (MAY BE X'01'-->X'FF'.)			
1	HEX	08	MODIDIC	INTERVAL CONTROL
1	HEX	10	MODIDTC	TERMINAL CONTROL
1	HEX	11	MODIDFC	FILE CONTROL
1	HEX	13	MODIDTS	TEMPORARY STORAGE
1	HEX	14	MODIDFCJ	FILE CONTROL JOURNALLING *
1	HEX	40	MODIDBM	BASIC MAPPING
1	HEX	45	MODIDJC	JOURNAL CONTROL
1	HEX	53	MODIDPS	SPECIAL FEATURES
1	HEX	5B	MODIDTMP	TABLE MANAGER
1	HEX	5C	MODIDSKP	SUBTASK MANAGER
1	HEX	5D	MODIDFEP	Front-End Prog Inter

Table 231. (continued)

Len	Type	value	Name	Description
1	HEX	FF	MODIDUSR	RESERVED FOR USER SYNC

FRABC File Request Anchor Block

Table 232.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	280	DFHFRAB	
Eye catcher				
(0)	CHARACTER	16	FRAB_EYE_CATCHER	Eye catcher
(0)	UNSIGNED	2	FRAB_LENGTH	Length of FRAB
(2)	CHARACTER	6	FRAB_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FRAB_EYE2	FRAB
Following storage is not reinitialise for each task				
(10)	CHARACTER	16	*	
(10)	ADDRESS	4	FRAB_FREE_FLAB	Free FLAB
(14)	ADDRESS	4	FRAB_FREE_FRTE	Free FRTE
(18)	ADDRESS	4	* (4294967298:130363392)	Reserved
Main part of FRAB (initialised at start of task)				
(20)	CHARACTER	248	FRAB_MAIN_PART	Main part of FRAB
(20)	CHARACTER	4	*	
(20)	CHARACTER	4	*	
(20)	ADDRESS	4	FRAB_NEXT_ FRAB_ADDRESS	
				-> next FRAB in FRAB chain
(20)	ADDRESS	4	FRAB_FREE_ FRAB_ADDRESS	
				Next FRAB in FC static free chain.
(24)	ADDRESS	4	FRAB_PREV_ FRAB_ADDRESS	
				Pointer to previous FRAB in FRAB chain
(28)	CHARACTER	4	*	
(28)	ADDRESS	4	FRAB_FLAB_ CHAIN_ADDRESS	
				-> FLAB chain for current tran
(2C)	CHARACTER	4	*	
(2C)	ADDRESS	4	FRAB_FLLB_ CHAIN_ADDRESS	

Table 232. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				-> FLLB chain for current tran
(30)	ADDRESS	4	FRAB_EXCL_VSWA	VSWA that suffered excl control conflict for this task.
(34)	CHARACTER	4	*	
(34)	ADDRESS	4	FRAB_TRANSACTION_ TOKEN	
				Current TCA
(38)	FULLWORD	4	FRAB_UPDATE_ TOKEN	Current update token
Data tables section of FRAB				
(3C)	ADDRESS	4	FRAB_DT_ UOW_TOKEN	Data tables recovery token
Recovery-related section of FRAB				
(40)	BIT(8)	1	FRAB_FLAGS	Assorted flags
	1...		*	
	.1..		FRAB_NON_ RLS_LOCKS_HELD	
				NQ Manager DEQ is required
	..1.		FRAB_HAS_LOCKS	FLLB lost locks chain is built
	...1		FRAB_UOWID_SET	UOW has been recorded in FRAB
	.... 1...		FRAB_PHASE_ 2_SYNC	
				UOW has been through ph2 of syncpoint
	.... .1..		FRAB_REQUEST_ FORGET	
				Request_forget has been issued
	.... ..1.		FRAB_LONG_ RUNNING	
				The XFCFRIN exit has intercepted the request and indicated that the mirror is to remain long running
	1		FRAB_FORCE_ PURGE_ISSUED	
				FCFS issued purge
(41)	CHARACTER	1	*	
(41)	CHARACTER	1	*	

Table 232. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(41)	BIT(8)	1	FRAB_RLS_LOCKS_HELD_FLAG	
	1...		FRAB_RLS_LOCKS_HELD	
				IDALKREL is reqd
(42)	CHARACTER	1	*	
(42)	CHARACTER	1	*	
(42)	BIT(8)	1	FRAB_HAS_BEEN_SHUNTED_FLAG	
	1...		FRAB_HAS_BEEN_SHUNTED	
				UOW was shunted at least once
(43)	CHARACTER	1	*	Reserved
(44)	ADDRESS	4	FRAB_FCUP_CHAIN_ADDRESS	
				Pointer to start of FCUP chain
RLS section of FRAB				
(48)	UNSIGNED	2	FRAB_RLS_TIMEOUT	Timeout value
(4A)	UNSIGNED	2	FRAB_SERVER_SEQUENCE	
				Sequence number of server at time FRAB created.
(4C)	ADDRESS	4	FRAB_NEXT_RECOV_UPDT	
				-> frab
(50)	CHARACTER	4	FRAB_TRANNUM	Transaction # for deadlock/timeout pd
(54)	CHARACTER	4	FRAB_TRANID	Transaction id for deadlock/timeout pd
(58)	CHARACTER	96	*	
(58)	CHARACTER	96	FRAB_LUWID	RLS Luwid
(B8)	CHARACTER	80	FRAB_VSAM_WORKAREA	
				VSAM workarea
(B8)	FULLWORD	4	* (4294967316:130365392)	(20 words)
(108)	CHARACTER	0	*	Align to double word boundary
FRAB extension - multi-purpose				
(108)	FULLWORD	4	FRAB_REQUEST_COUNT	

Table 232. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				req counter
(10C)	FULLWORD	4	* (4294967299:130365392)	future use
(118)	CHARACTER	0	*	Align to double word boundary

```
   MACRO NAME: IFGLUWID
   DESCRIPTION: Mapping the Logical Unit of Work ID Control Block
   STATUS: Version 1 DFSMS Release 3.0
PROPRIETARY V3 STATEMENT
LICENSED MATERIALS - PROPERTY OF IBM
"RESTRICTED MATERIALS OF IBM"
5695-DF1
END PROPRIETARY V3 STATEMENT
   FUNCTION = Mapping Macro for Logical Unit of Work ID
   INCLUDED MACROS = NONE
   METHOD OF ACCESS = PL/X-370 OR ASSEMBLER
```

Table 233.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	IFGLUWID	
(0)	CHARACTER	16	LUWIDHDR	
(0)	CHARACTER	8	LUWIDID	Eye Catcher - IFGLUWID
(8)	FULLWORD	4	LUWIDLEN	Control Block Length
(C)	UNSIGNED	1	LUWIDVER	Version Identifier
(D)	CHARACTER	3	*	Reserved
(10)	CHARACTER	8	LUWIDVAL	Logical Unit Of Work ID
(18)	CHARACTER	36	LUWIDPDI	deadlock/timeout problem
determination information				
(18)	BIT(8)	1	LUWIDFL1	first flag field
	1...		LUWIDNDL	'1'= LUWID is not a preferred
deadlock victim				
(19)	CHARACTER	3	*	reserved
(1C)	CHARACTER	32	LUWIDPD	Deadlock/time out problem
determination data area				
(3C)	UNSIGNED	4	LUWIDWLM	WLM transaction token or 0
! The LUWID should be on a dblword boundary. In PL/X, if LIKE is ! used, LIKE must specify BDY(DWORD). To avoid potential problems ! with how the user gets the LUWID block, whether PL/X or ASM, ! VSAM will save result of TIMEUSED in a BDY(DWORD) internal field ! and then move to LUWIDCPU !				

Table 233. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	CHARACTER	8	LUWIDCPU	Total CPU time used by the
current SRB up until TIMEUSED is issued. Time used by TCB is NOT included. (Field must be cleared by user before issuing a VSAM request. Field is not available until the VSAM request is complete. For SYN,RLSWAIT, field is available when control is returned from RLSWAIT exit. For ASY requests, field is available when CHECK completes. VSAM may not be able to set this field if Cancel or ABEND occurs, or TIMEUSED fails.)				
(48)	ADDRESS	4	LUWIDSVA	Ptr to a 20-word BDY(DWORD)
user-provided area required for VSAM to use TIMEUSED				
(4C)	FULLWORD	4	* (4294967301:130379312)	Reserved, unused

Constants

Table 234.

Len	Type	value	Name	Description
LUWID Constants				
8	CHAR HEX	0000000000000000	LUWIDNUL	Null LUWID
8	CHARACTER	IFGLUWID	LUWIDIDC	Eyecatcher
1	DECIMAL	1	LUWIDVRC	Version Number

FRTEC File Request Thread Element

Table 235.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	116	DFHFRTE	
Eye catcher				
(0)	CHARACTER	16	FRT_EYE_CATCHER	Eye catcher
(0)	HALFWORD	2	FRT_LENGTH	length of FRTE
(2)	CHARACTER	6	FRT_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FRT_EYE2	FRTE
NOTE: frt_ifgluwid_pointer is NOT part of frt_main_part. This ensures that this field is not cleared when the FRTE is reused. The FRTE stays permanently attached the IFGLUWID area.				
(10)	ADDRESS	4	FRT_IFGLUWID_ POINTER	
				Address of IFGLUWID@L4C area associated with this request thread.
Main part of FRTE FRT_MAIN_PART starts here - Do not move fields out of FRT_MAIN_PART - All fields in FRT_MAIN_PART are reset together				

Table 235. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	CHARACTER	96	FRT_MAIN_PART	Main part of FRTE
(14)	CHARACTER	4	*	
(14)	CHARACTER	4	*	
(14)	ADDRESS	4	FRT_NEXT_ FRTE_ADDRESS	
				-> next FRTE in chain for current file.
(14)	ADDRESS	4	FRT_FREE_ FRTE_ADDRESS	
				Next FRTE in FC static storage free chain.
(18)	ADDRESS	4	FRT_FLAB_ ADDRESS	Address of FLAB that owns this FRTE.
(1C)	CHARACTER	1	*	
(1C)	CHARACTER	1	FRT_FUNCTION	Function byte see CONSTANT defs
(1D)	BIT(8)	1	FRT_FLAGS	FRTE flag byte
	1...		*	
	.1..		FRT_INITIAL_ LOAD	Initial loading lock held.
	..1.		FRT_USE_FCDT	Call FCDT if a CMT
	...1		FRT_BACKOUT	Backing out
	.... 1...		FRT_CONTINUATION	This request continues a previous one
	.... .1..		*	
	.... ..1.		FRT_UMT_ LOCK_HELD	
				UMT record lock held for frt_key_copy
	1		FRT_GENERIC_ BROWSE	
				Generic browse
(1E)	UNSIGNED	2	FRT_REQID	Browse request ident.
(20)	ADDRESS	4	FRT_DATA_BUFFER	Temporary area to read record into
(24)	UNSIGNED	4	FRT_DATA_ BUFFER_LENGTH	
				Length of temporary area
(28)	ADDRESS	4	FRT_UPDATE_ TOKEN	TOKEN for read update
This section of the FRTE describes the work area (VSWA or FIOA)				

Table 235. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	ADDRESS	4	FRT_WORK_ AREA_ADDRESS	
				Address of work area i.e. VSWA or FIOA
(30)	UNSIGNED	4	FRT_WORK_ AREA_LENGTH	
				Work area length
(34)	CHARACTER	8	FRT_WORK_ AREA_SUBPOOL	
				Work area subpool
This section of the FRTE describes SET storage				
(3C)	CHARACTER	8	FRT_SET_CONTROL	Set storage control area.
This section of the FRTE is used by data tables				
(44)	ADDRESS	4	FRT_KEY_COPY	Key copy area
(48)	CHARACTER	12	FRT_DT_ RECORD_TOKEN	
				Table record token
(48)	ADDRESS	4	FRT_FBWA_ ADDRESS	Table browse area
(54)	ADDRESS	4	FRT_CF_ CONNECTION_TOKEN	
				CFDT pool connect token
(58)	FULLWORD	4	FRT_CF_ INSTANCE_NUMBER	
				CFDT server instance number
This section of the FRTE is temporary and will be removed later				
(5C)	ADDRESS	4	FRT_BCB_ADDRESS	Base Cluster Block addr
This section of the FRTE is used by the log and journal program				
(60)	ADDRESS	4	FRT_FORCE_TOKEN	Token returned from RMRE APPEND & supplied to RMRE FORCE
This section of the FRTE is used by RLS.				
(64)	FULLWORD	4	FRT_WRMI_COUNT	no. of massinsert requests to recoverable ESDS.
(68)	CHARACTER	8	FRT_WRMI_ START_TIME	
				Time of first massinsert to recoverable ESDS.
This section of the FRTE is flags for general use				

Table 235. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(70)	BIT(8)	1	*	Reserved
(70)	CHARACTER	1	*	
(70)	BIT(8)	1	FRT_PRIVILEGED_ FLAG	
	1...		FRT_PRIVILEGED	Privileged req
(71)	BIT(8)	1	*	Reserved
(71)	CHARACTER	1	*	
(71)	BIT(8)	1	FRT_ACCMETH_ MODULE_ ACTIVE_FLAG	
	1...		FRT_ACCMETH_ MODULE_ACTIVE	
				access method dependent module is active
(72)	BIT(8)	1	*	Reserved
(73)	BIT(8)	1	*	Reserved

Constants

Table 236.

Len	Type	value	Name	Description
Constants for FRT_FUNCTION				
1	DECIMAL	1	FRT_READ	Read
1	DECIMAL	3	FRT_READ_UPDATE	Read_Update
1	DECIMAL	5	FRT_WRITE	Write
1	DECIMAL	8	FRT_DELETE	Delete
1	DECIMAL	10	FRT_START_BROWSE	Start Browse

ICE Interval Control Element

```
CONTROL BLOCK NAME = DFHICEDS
DESCRIPTIVE NAME  = CICS Interval Control Element (ICE)
   @BANNER_START 02
                      DFHICEPS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
     An ICE is created for each time-dependent request
     received by the interval control program. These ICEs are
     logically chained from CSAICEBA in the CSA in expiration
     time-of-day sequence.
LIFETIME =
     Expiration of a time-ordered request is detected by the
     expired request logic of the interval control program
     running as a CICS system task. The type of service
     represented by the expired ICE is initiated, if all
     resources required for the service are available, and the
```

```
                    ICE is removed from the chain. If the resources are not
                    available, the ICE remains on the chain and another
                    attempt to initiate the request service is made the next
                    time the expiry logic runs.
           STORAGE CLASS =
           LOCATION =
           INNER CONTROL BLOCKS =
           NOTES :
               DEPENDENCIES = S/370
               MODULE TYPE = Control block definition
           EXTERNAL REFERENCES =
               DATA AREAS =
               CONTROL BLOCKS =
               GLOBAL VARIABLES (Macro pass) =
           The following fields form part of the product sensitive
           programming interface:
           ICECHNAD ICERQID ICETRMID ICETRNID ICEXTOD (Marked #)
```

Table 237.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	164	DFHICEDS	ICE control block
(0)	CHARACTER	16	ICEPRFX	ICE prefix
(0)	UNSIGNED	2	ICELEN	ICE length
(2)	CHARACTER	6	ICEBLKID	Eye-catcher ('>DFHAP')
(8)	CHARACTER	8	ICEBLKNM	Control block name ('ICE')
(10)	CHARACTER	8	ICEBODY	ICE body
(10)	ADDRESS	4	ICECHNAD	#ICE chain address
(14)	ADDRESS	4	ICETECAA	Timer event area address
(18)	ADDRESS	4	ICETCAAD	TCA address
(18)	CHARACTER	4	ICETRMID	#Symbolic terminal id
(1C)	CHARACTER	4	ICETRNID	#Transaction identification
(20)	ADDRESS	4	ICE_ICUS_PTR	ICE Security Extension
(24)	CHARACTER	9	*	Reserved
(2D)	CHARACTER	1	ICETYPE	Type of ICE
(2E)	BIT(8)	1	ICESTATI	ICE status indicator
	1...		ICESTNRL	Expired normally
	.1..		ICE_BEING_ PROCESSED	
				Being processed
	..1.		ICESTXTE	Expired on entry
	...1		ICESTCNL	Cancelled by other task
	.... 1...		ICESTXTM	Expiration time
	.... .1..		ICESTRES	Awaiting DS resume
	.... ..1.		*	Reserved
	1		ICESTCHN	On chain

Table 237. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2F)	CHARACTER	1	ICERQCLS	Request identification
(30)	UNSIGNED	4	ICE_UNIQUE_ID	Number used to construct unique request id.
(30)	CHARACTER	4	ICEXTOD	#Exp'n time of day
(34)	CHARACTER	8	ICERQID	#Request identification
(3C)	CHARACTER	8	ICENETSY	Netname/sysid from XICTENF exit
(44)	CHARACTER	8	ICEMODEN	Mode name
(4C)	CHARACTER	1	ICETR	Transaction routing indicator
(4D)	CHARACTER	1	ICEFS	Function shipping indicator
(4E)	BIT(8)	1	ICEFLAGS	Flags
	1...		ICESZ	Startcode SZ for FEPI
	.1..		*	Reserved
	..1.		*	Reserved
	...1		ICEDYNTR	Transaction dynamic
	.... 1...		*	Reserved
	.... .1..		ICE_DATA_ RECOVERABLE	
				ICE is associated with a recoverable TS queue
	.... ..1.		ICE_ZERO_ INTERVAL	Originating request specified an INTERVAL of zero
	1		ICE_PROTECTED	START was protected
(4F)	BIT(8)	1	ICEFLAG2	Flags
	1...		ICERTST	Routable START
	.1..		ICE_TRACK_ OVERRIDE_NO	
				Tracking data for user task not required
	..1.		ICE_TRACK_ OVERRIDE_YES	
				Tracking data for system task is required
	...1 1111		*	Reserved
(50)	CHARACTER	4	ICECURTR	Current terminal id
(54)	CHARACTER	12	ICE_QUALIFIED_ EXPIRY_TIME	

Table 237. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Expiry time and expiry time qualifier
(54)	CHARACTER	8	ICE_EXPIRY_ TIMES	Absolute expiry times
(54)	CHARACTER	8	ICE_EXPIRY_ STCK	STCK expiry time for an interval ICE
(54)	CHARACTER	8	ICE_EXPIRY_DT	Date and time of expiry for time ICE
(54)	CHARACTER	4	ICE_EXPIRY_ DATE	ccyyddd+ expiry date for time ICE
(58)	CHARACTER	4	ICE_EXPIRY_ TIME	Timer unit (1/300sec) expiry TOD for time ICE
(5C)	CHARACTER	4	ICETIMST	Expiry time qualifier
(60)	HALFWORD	2	ICE_START_ DATA_LEN	Length of data
(62)	CHARACTER	2	*	Reserved
(64)	CHARACTER	8	ICE_CREATION_ TIME	Creation time STCK value
(6C)	CHARACTER	8	ICE_TERMINAL_ NETNAME	
				Netname of terminal
(74)	CHARACTER	4	ICESHSYS	Shipped via sysid
(78)	CHARACTER	8	ICE_TOR_NETNAME	Netname of TOR
(80)	ADDRESS	4	ICE_ROUTER_ COMM_ADDR	
				Address of commarea for dynamic routing program
(84)	HALFWORD	2	ICE_ROUTER_ COMM_LEN	
				Length of DYP commarea
(86)	CHARACTER	4	ICEDFTRN	Transaction id for deferred dynamic start request
(8A)	CHARACTER	8	ICEDSRP	Router program name - stored here for ICXM processing to reduce SHRTM calls
(92)	CHARACTER	2	*	RESERVED
(94)	UNSIGNED	4	ICE_CHANNEL_ TOKEN	Channel token for started task
(98)	ADDRESS	4	ICE_CORRELATOR_ ADDR	
				Address of EWLM correlator
(9C)	ADDRESS	4	ICE_TG_ODR_ADDR	A(TGRPID & ODR)

Table 237. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	ADDRESS	4	ICE_ADAPTER_ADDR	Addr adapter fields
(A4)	CHARACTER	0	*	end of I C E

Constants

Table 238.

Len	Type	value	Name	Description
Length of the ICE control block				
4	DECIMAL	164	ICEAD	ICE length
Possible values of ICETYPE				
1	HEX	20	ICEWTM	
1	HEX	30	ICEPST	
1	HEX	40	ICEINT	
1	HEX	50	ICEPUT	
Values used in DFHIC get wait requests				
1	DECIMAL	0	ICE_GW_DATA	Resumed due to new data
1	DECIMAL	4	ICE_GW_SHUTDOWN	Resumed due to shutdown

ICUE Interval Control EXEC Parameter List *L6A

```
CONTROL BLOCK NAME = DFHICUEC
DESCRIPTIVE NAME  = CICS EXEC argument list for Interval
                        Control user exits.
@BANNER_START 02
                      DFHICUEC
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
    Although provided in a general library, DFHICUED is not
    to be used as a general programming interface. Refer to
    product documentation to determine intended usage.
    The following fields are part of the Product-sensitive
    Programming Interface.
            IC_ADDR0
            IC_ADDR1
            IC_ADDR2
            IC_ADDR3
            IC_ADDR4
            IC_ADDR5
            IC_ADDR6
            IC_ADDR7
            IC_ADDR8
            IC_ADDR9
            IC_ADDRA
            IC_ADDRB
            IC_ADDRC
            IC_ADDRD
            IC_ADDRE
            IC_ADDRF
            IC_ADDR10
```

```
IC_ADDR11
IC_ADDR12
IC_ADDR13
IC_ADDR14
IC_ADDR15
IC_ADDR16
IC_ADDR17
IC_ADDR1D
IC_ADDR1E
IC_ADDR1F
IC_GROUP
IC_FUNCT
IC_BITS1
IC_BITS2
IC_BITS3
IC_EIDOPT5
IC_EIDOPT6
IC_EIDOPT7
IC_EIDOPT8
IC_INTERVAL
IC_START_INTERVAL
IC_DELAY_INTERVAL
IC_POST_INTERVAL
IC_TIME
IC_START_TIME
IC_DELAY_TIME
IC_POST_TIME
IC_CANCEL_REQID
IC_RETRIEVE_INTO
IC_RETRIEVE_SET
IC_REQID
IC_DELAY_REQID
IC_POST_REQID
IC_START_REQID
IC_RETRIEVE_LENGTH
IC_POST_SET
IC_TRANSID
IC_CANCEL_TRANSID
IC_START_TRANSID
IC_START_FROM
IC_START_LENGTH
IC_START_TERMID
IC_SYSID
IC_START_SYSID
IC_CANCEL_SYSID
IC_RTRANSID
IC_START_RTRANSID
IC_RETRIEVE_RTRANSID
IC_RTERMID
IC_START_RTERMID
IC_RETRIEVE_RTERMID
IC_QUEUE
IC_START_QUEUE
IC_RETRIEVE_QUEUE
IC_HOURS
IC_DELAY_HOURS
IC_POST_HOURS
IC_START_HOURS
IC_MINUTES
IC_DELAY_MINUTES
IC_POST_MINUTES
IC_START_MINUTES
IC_SECONDS
IC_DELAY_SECONDS
IC_POST_SECONDS
IC_START_SECONDS
IC_START_USERID
```

```
                    IC_START_SYSNET
                    IC_ASKTIME_ABSTIME
                    IC_FORMATTIME_ABSTIME
                    IC_FORMATTIME_YYDDD
                    IC_FORMATTIME_YYMMDD
                    IC_FORMATTIME_YYDDMM
                    IC_FORMATTIME_DDMMYY
                    IC_FORMATTIME_MMDDYY
                    IC_FORMATTIME_DATE
                    IC_FORMATTIME_DATEFORM
                    IC_FORMATTIME_DATESEP
                    IC_FORMATTIME_DAYCOUNT
                    IC_FORMATTIME_DAYOFWEEK
                    IC_FORMATTIME_DAYOFMONTH
                    IC_FORMATTIME_MONTHOFYEAR
                    IC_FORMATTIME_YEAR
                    IC_FORMATTIME_TIME
                    IC_FORMATTIME_TIMESEP
                    IC_FORMATTIME_YYYYDDD
                    IC_FORMATTIME_YYYYMMDD
                    IC_FORMATTIME_YYYYDDMM
                    IC_FORMATTIME_DDMMYYYY
                    IC_FORMATTIME_MMDDYYYY
                    IC_FORMATTIME_FULLDATE
          All equates for values of EIBRCODE, EIBRESP and EIBRESP2
          form part of the General-purpose Programming Interface.
          All remaining fields used in defining the Exec Parameter
          List are product sensitive and may vary between CICS
          releases.
     FUNCTION =
          To define the EXEC parameter list for Interval Control
          requests, for use by global user exit programs at exit
          points XICEREQ and XICEREQC.
          On entry to the XICEREQ and XICEREQC User Exits, the EXEC
          parameter list is pointed to by UEPCLPS.
          The EXEC parameter list for Interval Control consists of
          thirty one addresses.
          The thirty two addresses are defined by
          IC_ADDR0 to IC_ADDR1F.
          This DSECT defines IC_ADDR0 to IC_ADDR1F and the
          areas that they point to.
          On entry to the XICEREQ and XICEREQC User Exits, the copy
          of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP
          is pointed to by UEPRESP and the copy of EIBRESP2 is
          pointed to by UEPRESP2.
          This DSECT also contains equates for values of EIBRCODE,
          EIBRESP and EIBRESP2 used by Interval Control.
     LIFETIME = Lifetime of the IC command request
     STORAGE CLASS = As the storage being mapped is the translated
                     source in the user's application program, the
                     storage may be either above or below the line.
     LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.
                (2) Fields copied from the EIB are addressed by
                    UEPRCODE, UEPRESP and UEPRESP2.
                (3) The token for use in communicating between
                    XICEREQ and XICEREQC is addressed by UEPICTOK.
     INNER CONTROL BLOCKS =
          IC_ADDR_LIST declares the EXEC addresses.
          IC_EID defines the EID pointed to by IC_ADDR0.
     NOTES :
      DEPENDENCIES = S/370 ESA
      RESTRICTIONS = None
      MODULE TYPE = Control Block definition
     ----------------------------------------------------------------
     EXTERNAL REFERENCES =
           None.
        DATA AREAS =
```

```
        None.
    CONTROL BLOCKS =
        None.
    GLOBAL VARIABLES (Macro pass) =
        None.
    ---------------------------------------------------------------
    The command parameter list is a list of addresses which
    reference the various elements of the EXEC CICS command.
    The addresses are only valid if the element is applicable to
    this command. The existence bits in the EID component
    (IC_BITS1) specify those addresses that are valid, and the
    flagword bits (IC_EIDOPT5 - IC_EIDOPT8) specify the keywords
    that were given in the EXEC CICS command.
```

Table 239.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	128	IC_ADDR_LIST	Addresses of...
(0)	ADDRESS	4	IC_ADDR0	the EID
(4)	ADDRESS	4	IC_ADDR1	TIME or INTERVAL value
	`(DELAY, POST or START)` `SET address (RETRIEVE)` `REQID value (CANCEL)` `ABSTIME value` `(FORMATTIME,` `ASKTIME)`			
(8)	ADDRESS	4	IC_ADDR2	REQID value
	`(DELAY, POST or START)` `LENGTH value (RETRIEVE)` `YYDDD value` `(FORMATTIME)`			
(C)	ADDRESS	4	IC_ADDR3	TRANSID value (START,CANCEL)
	`SET address (POST)` `YYMMDD value` `(FORMATTIME)`			
(10)	ADDRESS	4	IC_ADDR4	FROM address (START)
	`YYDDMM value` `(FORMATTIME)`			
(14)	ADDRESS	4	IC_ADDR5	LENGTH value (START)
	`DDMMYY value` `(FORMATTIME)`			
(18)	ADDRESS	4	IC_ADDR6	TERMID value (START)
	`MMDDYY value` `(FORMATTIME)`			
(1C)	ADDRESS	4	IC_ADDR7	SYSID value (START,CANCEL)
	`DATE value` `(FORMATTIME)`			
(20)	ADDRESS	4	IC_ADDR8	RTRANSID value

Table 239. (continued)

Offset Hex	Type	Len	Name (dim)	Description
		(START or RETRIEVE) DATEFORM value (FORMATTIME)		
(24)	ADDRESS	4	IC_ADDR9	RTERMID value
		(START or RETRIEVE) DATESEP value (FORMATTIME)		
(28)	ADDRESS	4	IC_ADDRA	QUEUE value
		(START or RETRIEVE) DAYCOUNT value (FORMATTIME)		
(2C)	ADDRESS	4	IC_ADDRB	HOURS value
		(DELAY, POST or START) DAYOFWEEK value (FORMATTIME)		
(30)	ADDRESS	4	IC_ADDRC	MINUTES value
		(DELAY, POST or START) DAYOFMONTH value (FORMATTIME)		
(34)	ADDRESS	4	IC_ADDRD	SECONDS value
		(DELAY, POST or START) MONTHOFYEAR value (FORMATTIME)		
(38)	ADDRESS	4	IC_ADDRE	USERID value (START)
		YEAR value (FORMATTIME)		
(3C)	ADDRESS	4	IC_ADDRF	System netname
		TIME value (FORMATTIME)		
(40)	ADDRESS	4	IC_ADDR10	BREXIT value (START)
		TIMESEP value (FORMATTIME)		
(44)	ADDRESS	4	IC_ADDR11	YYYYDDD value
		(FORMATTIME)		
(48)	ADDRESS	4	IC_ADDR12	YYYYMMDD value
		(FORMATTIME)		
(4C)	ADDRESS	4	IC_ADDR13	YYYYDDMM value
		(FORMATTIME)		
(50)	ADDRESS	4	IC_ADDR14	DDMMYYYY value
		(FORMATTIME)		
(54)	ADDRESS	4	IC_ADDR15	MMDDYYYY value
		(FORMATTIME)		
(58)	ADDRESS	4	IC_ADDR16	FULLDATE value
		(FORMATTIME)		

Table 239. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5C)	ADDRESS	4	IC_ADDR17	EWLM correaltor
(START - internal only)				
(60)	ADDRESS	4	* (4294967301:130363640)	Addresses 24-28
(74)	ADDRESS	4	IC_ADDR1D	BRDATA address (START)
(78)	ADDRESS	4	IC_ADDR1E	BRDATALENGTH value (START)
(7C)	ADDRESS	4	IC_ADDR1F	CHANNEL name (START)

```
IC_EID (addressed by IC_ADDR0) gives the request type, and uses
bits to identify those keywords that are valid and/or have
been explicitly stated in the EXEC CICS command being processed.
Note: Equates for IC_GROUP, IC_FUNCT, EIBRCODE, EIBRESP and
EIBRESP2 values are defined at the end of this data structure.
```

Table 240.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	9	IC_EID	
(0)	CHARACTER	1	IC_GROUP	X'10' = Interval Control
X'4A' = ASKTIME or FORMATTIME				
(1)	CHARACTER	1	IC_FUNCT	If IC_GROUP = X'10'
X'02' = Asktime X'04' = Delay X'06' = Post X'08' = Start X'0A' = Retrieve X'0C' = Cancel If IC_GROUP = X'4A' X'02' = ASKTIME X'04' = FORMATTIME				
--- The existence bits specify the parameters that are valid for this command. For example, IC_EXIST7 set on indicates that IC_ADDR7 is valid, meaning that it addresses a SYSID value. IC_ADDR0 is always valid and has no existence bit. ---				
(2)	BIT(8)	1	IC_BITS1	
--- IC_EXIST1 is set if IC_ADDR1 is valid. IC_EXIST1 is always set on DELAY, POST, RETRIEVE and CANCEL commands, or on a CANCEL command which specifies REQID. IC_EXIST1 may only be modified by a user exit program invoked for a CANCEL command. ---				
	1...		IC_EXIST1	
	1...		IC_TIME_ INTERVAL_V	

Table 240. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		IC_DELAY_ TIME_INTERVAL_V	
	1...		IC_POST_ TIME_INTERVAL_V	
	1...		IC_START_ TIME_INTERVAL_V	
	1...		IC_RETRIEVE_ SET_INTO_V	
	1...		IC_CANCEL_ REQID_V	

--- 	
  IC_EXIST2 is set if IC_ADDR2 is valid.
  IC_EXIST2 is always set on RETRIEVE commands, or if REQID is
          specified on a DELAY, POST or START command.
  IC_EXIST2 may only be modified by a user exit program invoked
          for a DELAY, POST or START command.
  --- 					

	.1..		IC_EXIST2	
	.1..		IC_REQID_V	
	.1..		IC_DELAY_ REQID_V	
	.1..		IC_POST_ REQID_V	
	.1..		IC_START_ REQID_V	
	.1..		IC_RETRIEVE_ LENGTH_V	

--- 	
  IC_EXIST3 is set if IC_ADDR3 is valid.
  IC_EXIST3 is always set on START and POST commands, or if
          TRANSID is specified on a CANCEL command.
  IC_EXIST3 may only be modified by a user exit program invoked
          for a CANCEL command.
  --- 					

	..1.		IC_EXIST3	
	..1.		IC_TRANSID_V	
	..1.		IC_CANCEL_ TRANSID_V	
	..1.		IC_START_ TRANSID_V	
	..1.		IC_POST_ SET_V	

--- 	
  IC_EXIST4 is set if IC_ADDR4 is valid.
  IC_EXIST4 is set if a START command specifies FROM.
  IC_EXIST4 may only be modified by a user exit program invoked
          for a START command.
  --- 					

	...1		IC_EXIST4	
	...1		IC_START_ FROM_V	

Table 240. (continued)

Offset Hex	Type	Len	Name (dim)	Description
``--
IC_EXIST5 is set if IC_ADDR5 is valid.
IC_EXIST5 is set if a START command specifies LENGTH
IC_EXIST5 may only be modified by a user exit program invoked
for a START command.
--```				
	.... 1...		IC_EXIST5	
	.... 1...		IC_START_ LENGTH_V	
``--
IC_EXIST6 is set if IC_ADDR6 is valid.
IC_EXIST6 is set if a START command specifies TERMID
IC_EXIST6 may only be modified by a user exit program invoked
for a START command.
--```				
	.... .1..		IC_EXIST6	
	.... .1..		IC_START_ TERMID_V	
``--
IC_EXIST7 is set if IC_ADDR7 is valid.
IC_EXIST7 is set if a START or CANCEL command specifies SYSID.
IC_EXIST7 may only be modified by a user exit program invoked
for a START or CANCEL command.
--```				
	.... ..1.		IC_EXIST7	
	.... ..1.		IC_SYSID_V	
	.... ..1.		IC_CANCEL_ SYSID_V	
	.... ..1.		IC_START_ SYSID_V	
``--
IC_EXIST8 is set if IC_ADDR8 is valid.
IC_EXIST8 is set if a START or RETRIEVE command specifies
RTRANSID.
IC_EXIST8 may only be modified by a user exit program invoked
for a START or RETRIEVE command.
--```				
	1		IC_EXIST8	
	1		IC_RTRANSID_V	
	1		IC_START_ RTRANSID_V	
	1		IC_RETRIEVE_ RTRANSID_V	
`   IC_BITS2 defines existence bits for keywords containing values.`				
(3)	BIT(8)	1	IC_BITS2	

Table 240. (continued)

Offset Hex	Type	Len	Name (dim)	Description

	``--
	   IC_EXIST9 is set if IC_ADDR9 is valid.
	   IC_EXIST9 is set if a START or RETRIEVE command specifies
	          RTERMID.
	   IC_EXIST9 is set if a FORMATTIME command specifies
	          DATESEP.
	   IC_EXIST9 may only be modified by a user exit program invoked
	          for a START or RETRIEVE command.
	--```			

	1...		IC_EXIST9	
	1...		IC_RTERMID_V	
	1...		IC_START_ RTERMID_V	
	1...		IC_RETRIEVE_ RTERMID_V	
	1...		IC_FORMATTIME_ DATESEP_V	

	``--
	   IC_EXISTA is set if IC_ADDRA is valid.
	   IC_EXISTA is set if a START or RETRIEVE command specifies
	          QUEUE.
	   IC_EXISTA may only be modified by a user exit program invoked
	          for a START or RETRIEVE command.
	--```			

	.1..		IC_EXISTA	
	.1..		IC_QUEUE_V	
	.1..		IC_START_ QUEUE_V	
	.1..		IC_RETRIEVE_ QUEUE_V	

	``--
	   IC_EXISTB is set if IC_ADDRB is valid.
	   IC_EXISTB is set if a DELAY, POST or START command specifies
	          HOURS.
	   IC_EXISTB may only be modified by a user exit program invoked
	          for a DELAY, POST or START command.
	--```			

	..1.		IC_EXISTB	
	..1.		IC_HOURS_V	
	..1.		IC_DELAY_ HOURS_V	
	..1.		IC_POST_ HOURS_V	
	..1.		IC_START_ HOURS_V	

	``--
	   IC_EXISTC is set if IC_ADDRC is valid.
	   IC_EXISTC is set if a DELAY, POST or START command specifies
	          MINUTES.
	   IC_EXISTC may only be modified by a user exit program invoked
	          for a DELAY, POST or START command.
	--```			

Table 240. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		IC_EXISTC	
	...1		IC_MINUTES_V	
	...1		IC_DELAY_ MINUTES_V	
	...1		IC_POST_ MINUTES_V	
	...1		IC_START_ MINUTES_V	

-- 	
  IC_EXISTD is set if IC_ADDRD is valid.
  IC_EXISTD is set if a DELAY, POST or START command specifies
          SECONDS.
  IC_EXISTD may only be modified by a user exit program invoked
          for a DELAY, POST or START command.
-- 	

	.... 1...		IC_EXISTD	
	.... 1...		IC_SECONDS_V	
	.... 1...		IC_DELAY_ SECONDS_V	
	.... 1...		IC_POST_ SECONDS_V	
	.... 1...		IC_START_ SECONDS_V	

-- 	
  IC_EXISTE is set if IC_ADDRE is valid.
  IC_EXISTE is set if a START command specifies a USERID
-- 	

	.... .1..		IC_EXISTE	
	.... .1..		IC_START_ USERID_V	

-- 	
  IC_EXISTF is set if IC_ADDRF is valid
  IC_EXISTF is set if a start is for it's PF
-- 	

	.... ..1.		IC_EXISTF	PF starts
	.... ..1.		IC_START_ SYSNET_V	

-- 	
  IC_EXIST10 is set if IC_ADDR10 is valid
  IC_EXIST10 is set if START specifies BREXIT with an argument
  IC_EXIST10 is set if a FORMATTIME command specifies
          TIMESEP.
-- 	

	1		IC_EXIST10	BREXIT(value)
	1		IC_START_ BREXIT_V	
	1		IC_FORMATTIME_ TIMESEP_V	

Table 240. (continued)

Offset Hex	Type	Len	Name (dim)	Description
--- EIDOPT4 Any changes made by the exit are ignored ---				
(4)	BIT(8)	1	IC_EIDOPT4	
	1...		IC_SYSEIB	Program uses SYSEIB
	.1..		IC_NOEDF	NOEDF specified
	..1.		IC_NOHANDLE	NOHANDLE specified
	...1 111.		*	Language identifying bits
	1		*	Reserved
--- EIDOPT5 - EIDOPT8 The next 4 bytes are the flagword bits that identify the keywords that were specified on the EXEC CICS command. Some bits have more than one meaning, depending on the command function being processed, and thus have multiple definitions. Do not test these bits unless you know that the keywords are valid for the specific command being processed. --- --- EIDOPT5 ---				
(5)	BIT(8)	1	IC_EIDOPT5	
	1...		IC_FORMATTIME_ ABSTIME_X	
				ABSTIME specified on a FORMATTIME command.
	1...		IC_ASKTIME_ ABSTIME_X	
				ABSTIME specified on an ASKTIME command.
	.1..		IC_FORMATTIME_ YYDDD_X	
				YYDDD specified on a FORMATTIME command.
	..1.		IC_FORMATTIME_ YYMMDD_X	
				YYMMDD specified on a FORMATTIME command.
	...1		IC_FORMATTIME_ YYDDMM_X	
				YYDDMM specified on a FORMATTIME command.

Table 240. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		IC_FORMATTIME_ DDMMYY_X	
				DDMMYY specified on a FORMATTIME command.
	.... .1..		IC_FORMATTIME_ MMDDYY_X	
				MMDDYY specified on a FORMATTIME command.
	.... ..1.		IC_FORMATTIME_ DATE_X	
				DATE specified on a FORMATTIME command.
	1		IC_RETRIEVE_ SET_X	SET (not INTO) specified on a RETRIEVE command. This bit may NOT be modified by a user exit.
	1		IC_START_ ATTACH_X	
				ATTACH specified on a START command. This bit may NOT be modified by a user exit.
	1		IC_FORMATTIME_ DATEFORM_X	
				DATEFORM specified on a FORMATTIME command.

```
--------------------------------------------------------------------
          EIDOPT6
--------------------------------------------------------------------
```

Offset Hex	Type	Len	Name (dim)	Description
(6)	BIT(8)	1	IC_EIDOPT6	
	1...		IC_START_ ROUTABLE	
	1...		IC_FORMATTIME_ DATESEP_X	
				DATESEP specified on a FORMATTIME command.
	.1..		IC_FORMATTIME_ DAYCOUNT_X	
				DAYCOUNT specified on a FORMATTIME command.

Table 240. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		IC_FORMATTIME_ DAYOFWEEK_X	
				DAYOFWEEK specified on a FORMATTIME command.
	...1		IC_START_FMH_X	FMH specified on a START cmd.
	...1		IC_FORMATTIME_ DAYOFMONTH_X	
				DAYOFMONTH specified on a FORMATTIME command.
	.... 1...		IC_FORMATTIME_ MONTHOFYEAR_X	
				MONTHOFYEAR specified on a FORMATTIME command.
	.... .1..		IC_FORMATTIME_ YEAR_X	
				YEAR specified on a FORMATTIME command.
	.... ..1.		IC_START_ PROTECT_X	
				PROTECT specified on a START command.
	.... ..1.		IC_FORMATTIME_ TIME_X	
				TIME specified on a FORMATTIME command.
	1		IC_START_ NOCHECK_X	
				NOCHECK specified on a START command.
	1		IC_FORMATTIME_ TIMESEP_X	
				TIMESEP specified on a FORMATTIME command.
--- EIDOPT7 ---				
(7)	BIT(8)	1	IC_EIDOPT7	

Table 240. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		IC_FORMATTIME_ YYYYDDD_X	
				YYYYDDD specified on a FORMATTIME command.
	.1..		IC_FORMATTIME_ YYYYMMDD_X	
				YYYYMMDD specified on a FORMATTIME command.
	..1.		IC_START_ HEADER_X	RTRANSID, RTERMID, FMH and/or QUEUE specified on a START command.
	..1.		IC_FORMATTIME_ YYYYDDMM_X	
				YYYYDDMM specified on a FORMATTIME command.
	...1		IC_START_DATA_X	FROM, RTRANSID, RTERMID, FMH and/or QUEUE specified on a START command.
	...1		IC_FORMATTIME_ DDMMYYYY_X	
				DDMMYYYY specified on a FORMATTIME command.
	.... 1...		IC_DELAY_TIME_X	TIME (not INTERVAL) specified on a DELAY command.
	.... 1...		IC_POST_TIME_X	TIME (not INTERVAL) specified on a POST command.
	.... 1...		IC_START_ TIME_X	TIME (not INTERVAL) specified on a START command.
	.... 1...		IC_RETRIEVE_ WAIT_X	
				WAIT specified on a RETRIEVE command.
	.... 1...		IC_FORMATTIME_ MMDDYYYY_X	

Table 240. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				MMDDYYYY specified on a FORMATTIME command.
	.... .1..		IC_CANCEL_ REQID_X	REQID specified on a CANCEL command.
	.... .1..		IC_DELAY_ REQID_X	REQID specified on a DELAY command.
	.... .1..		IC_POST_ REQID_X	REQID specified on a POST command.
	.... .1..		IC_START_ REQID_X	
				REQID specified on a START command.
	.... .1..		IC_FORMATTIME_ FULLDATE_X	
				FULLDATE specified on a FORMATTIME command.
	.... ..1.		*	Reserved
	1		IC_START_ TERMID_X	TERMID specified on a START command.
-- EIDOPT8 --				
(8)	BIT(8)	1	IC_EIDOPT8	
	1...		IC_FORAFTER_X	Command specifies FOR or AFTER
	1...		IC_DELAY_FOR_X	FOR (not UNTIL) specified on a DELAY command.
	1...		IC_POST_ AFTER_X	AFTER (not AT) specified on a DELAY command.
	1...		IC_START_ AFTER_X	
				AFTER (not AT) specified on a START command.
	.1..		IC_ATUNTIL_X	Command specifies AT or UNTIL
	.1..		IC_DELAY_ UNTIL_X	UNTIL (not FOR) specified on a DELAY command.
	.1..		IC_POST_AT_X	AT (not AFTER) specified on a POST command.
	.1..		IC_START_ AT_X	AT (not AFTER) specified on a START command.

Table 240. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		*	Reserved
	...1		IC_START_ BREXIT_X	START BREXIT
	.... 1...		IC_START_ BRDATA_X	
	.... .1..		IC_START_ BRDATALENGTH_X	
				BRDATALENGTH *
	.... ..1.		IC_START_ CHANNEL_X	
	1		IC_START_ CORREL_X	

```
      The following definitions are for the rest of the arguments in
      the EXEC parameter list, addressed by IC_ ADDR1 -
      IC_ ADDR1E in IC_ ADDR_LIST.
      ----------------------------------------------------------------
                    IC_ DATA1 - Addressed by IC_ ADDR1
      ----------------------------------------------------------------
```

Table 241.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	IC_DATA1	
(0)	CHARACTER	8	*	

Table 242.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_INTERVAL	Value of INTERVAL
(0)	CHARACTER	4	IC_START_ INTERVAL	
(0)	CHARACTER	4	IC_DELAY_ INTERVAL	
(0)	CHARACTER	4	IC_POST_ INTERVAL	
(0)	CHARACTER	4	IC_TIME	Value of TIME
(0)	CHARACTER	4	IC_START_ TIME	
(0)	CHARACTER	4	IC_DELAY_ TIME	
(0)	CHARACTER	4	IC_POST_ TIME	

Table 243.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	IC_CANCEL_REQID	Value of REQID on
(0)	CHARACTER	8	*	a CANCEL command.

Table 244.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_RETRIEVE_INTO	Value of DATA on a
(0)	CHARACTER	*	*	RETRIEVE INTO cmd

Table 245.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_RETRIEVE_SET	Pointer for SET on
(0)	ADDRESS	4	*	a RETRIEVE command

Table 246.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	IC_FORMATTIME_ ABSTIME	
(0)	CHARACTER	8	*	

Table 247.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	IC_ASKTIME_ ABSTIME	
(0)	CHARACTER	8	*	

```
----------------------------------------------------------------
                  IC_ DATA2 - Addressed by IC_ ADDR2
----------------------------------------------------------------
```

Table 248.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	IC_DATA2	
(0)	CHARACTER	8	*	

Table 249.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	IC_REQID	Value of REQID
(0)	CHARACTER	8	IC_DELAY_REQID	Value of REQID on a DELAY cmd
(0)	CHARACTER	8	IC_POST_REQID	Value of REQID on a POST cmd
(0)	CHARACTER	8	IC_START_REQID	Value of REQID on a START cmd

Table 250.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2	IC_RETRIEVE_ LENGTH	Value of LENGTH on a RETRIEVE cmd

Table 250. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	*	

Table 251.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_ YYDDD	
(0)	CHARACTER	*	*	

```
--------------------------------------------------------------------
                  IC_ DATA3 - Addressed by IC_ ADDR3
--------------------------------------------------------------------
```

Table 252.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_DATA3	
(0)	ADDRESS	4	IC_POST_SET	SET address on a POST command
(0)	CHARACTER	4	IC_TRANSID	Value of TRANSID
(0)	CHARACTER	4	IC_CANCEL_ TRANSID	
				Value of TRANSID on a CANCEL cmd
(0)	CHARACTER	4	IC_START_ TRANSID	
				Value of TRANSID on a START cmd

Table 253.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_ YYMMDD	
(0)	CHARACTER	*	*	

```
--------------------------------------------------------------------
                  IC_ DATA4 - Addressed by IC_ ADDR4
--------------------------------------------------------------------
```

Table 254.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_DATA4	
(0)	CHARACTER	*	IC_START_FROM	Data on a START command

Table 255.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_ YYDDMM	

Table 255. (continued)

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

```
------------------------------------------------------------------
                  IC_ DATA5 - Addressed by IC_ ADDR5
------------------------------------------------------------------
```

Table 256.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2	IC_DATA5	
(0)	HALFWORD	2	IC_START_LENGTH	Length of data on a START cmd

Table 257.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_ DDMMYY	
(0)	CHARACTER	*	*	

```
------------------------------------------------------------------
                  IC_ DATA6 - Addressed by IC_ ADDR6
------------------------------------------------------------------
```

Table 258.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_DATA6	
(0)	CHARACTER	4	IC_START_TERMID	Value of TERMID on a START cmd

Table 259.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_ MMDDYY	
(0)	CHARACTER	*	*	

```
------------------------------------------------------------------
                  IC_ DATA7 - Addressed by IC_ ADDR7
------------------------------------------------------------------
```

Table 260.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_DATA7	
(0)	CHARACTER	4	IC_SYSID	Value of SYSID
(0)	CHARACTER	4	IC_START_SYSID	Value of SYSID on a START cmd
(0)	CHARACTER	4	IC_CANCEL_ SYSID	Value of SYSID on a CANCEL cmd

Table 261.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_ DATE	
(0)	CHARACTER	*	*	

```
--------------------------------------------------------------------
                 IC_ DATA8 - Addressed by IC_ ADDR8
--------------------------------------------------------------------
```

Table 262.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_DATA8	
(0)	CHARACTER	4	IC_RTRANSID	Value of RTRANSID
(0)	CHARACTER	4	IC_START_ RTRANSID	Value of RTRANSID on a START cmd
(0)	CHARACTER	4	IC_RETRIEVE_ RTRANSID	
				Value of RTRANSID on a RETRIEVE cmd

Table 263.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	6	IC_FORMATTIME_ DATEFORM	
(0)	CHARACTER	6	*	

```
--------------------------------------------------------------------
                 IC_ DATA9 - Addressed by IC_ ADDR9
--------------------------------------------------------------------
```

Table 264.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_DATA9	
(0)	CHARACTER	4	IC_RTERMID	Value of RTERMID
(0)	CHARACTER	4	IC_START_ RTERMID	Value of RTERMID on a START cmd
(0)	CHARACTER	4	IC_RETRIEVE_ RTERMID	
				Value of RTERMID on a RETRIEVE cmd

Table 265.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	IC_FORMATTIME_ DATESEP	
(0)	CHARACTER	1	*	

```
                ----------------------------------------------------------------
                      IC_ DATA10 - Addressed by IC_ ADDRA
                ----------------------------------------------------------------
```

Table 266.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	IC_DATA10	
(0)	CHARACTER	8	IC_QUEUE	Value of QUEUE
(0)	CHARACTER	8	IC_START_QUEUE	Value of QUEUE on a START cmd
(0)	CHARACTER	8	IC_RETRIEVE_ QUEUE	
				Value of QUEUE on a RETRIEVE cmd

Table 267.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_ DAYCOUNT	
(0)	FULLWORD	4	*	

```
                ----------------------------------------------------------------
                      IC_ DATA11 - Addressed by IC_ ADDRB
                ----------------------------------------------------------------
```

Table 268.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_DATA11	
(0)	CHARACTER	4	IC_HOURS	Value of HOURS
(0)	CHARACTER	4	IC_DELAY_HOURS	Value of HOURS on a DELAY cmd
(0)	CHARACTER	4	IC_POST_HOURS	Value of HOURS on a POST cmd
(0)	CHARACTER	4	IC_START_ HOURS	Value of HOURS on a START cmd

Table 269.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_ DAYOFWEEK	
(0)	FULLWORD	4	*	

```
                ----------------------------------------------------------------
                      IC_ DATA12 - Addressed by IC_ ADDRC
                ----------------------------------------------------------------
```

Table 270.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_DATA12	
(0)	CHARACTER	4	IC_MINUTES	Value of MINUTES

Table 270. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	4	IC_DELAY_ MINUTES	Value of MINUTES on a DELAY cmd
(0)	CHARACTER	4	IC_POST_ MINUTES	Value of MINUTES on a POST cmd
(0)	CHARACTER	4	IC_START_ MINUTES	
				Value of MINUTES on a START cmd

Table 271.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_ DAYOFMONTH	
(0)	FULLWORD	4	*	

```
-------------------------------------------------------------------
                  IC_ DATA13 - Addressed by IC_ ADDRD
-------------------------------------------------------------------
```

Table 272.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_DATA13	
(0)	CHARACTER	4	IC_SECONDS	Value of SECONDS
(0)	CHARACTER	4	IC_DELAY_ SECONDS	Value of SECONDS on a DELAY cmd
(0)	CHARACTER	4	IC_POST_ SECONDS	Value of SECONDS on a POST cmd
(0)	CHARACTER	4	IC_START_ SECONDS	
				Value of SECONDS on a START cmd

Table 273.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_ MONTHOFYEAR	
(0)	FULLWORD	4	*	

```
-------------------------------------------------------------------
                  IC_ DATA14 - Addressed by IC_ ADDRE
-------------------------------------------------------------------
```

Table 274.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	IC_DATA14	
(0)	CHARACTER	8	IC_START_USERID	Value of USERID on START command

Table 275.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_ YEAR	
(0)	FULLWORD	4	*	

```
   ------------------------------------------------------------------
                 IC_ DATA15 - Addressed by IC_ ADDRF
   ------------------------------------------------------------------
```

Table 276.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	IC_DATA15	
(0)	CHARACTER	8	IC_START_SYSNET	Value of SYSNET

Table 277.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_ TIME	
(0)	CHARACTER	*	*	

```
   ------------------------------------------------------------------
                IC_ DATA16 - Addressed by IC_ ADDR10
   ------------------------------------------------------------------
```

Table 278.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	IC_DATA16	
(0)	CHARACTER	8	IC_START_BREXIT	Value BREXIT

Table 279.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	IC_FORMATTIME_ TIMESEP	
(0)	CHARACTER	1	*	

```
   --------------------------------------------------------------
                IC_ DATA17 - Addressed by IC_ ADDR11
   --------------------------------------------------------------
```

Table 280.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_DATA17	
(0)	CHARACTER	*	IC_FORMATTIME_ YYYYDDD	

```
   --------------------------------------------------------------
                IC_ DATA18 - Addressed by IC_ ADDR12
   --------------------------------------------------------------
```

Table 281.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_DATA18	
(0)	CHARACTER	*	IC_FORMATTIME_ YYYYMMDD	

```
           --------------------------------------------------------
                  IC_ DATA19 - Addressed by IC_ ADDR13
           --------------------------------------------------------
```

Table 282.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_DATA19	
(0)	CHARACTER	*	IC_FORMATTIME_ YYYYDDMM	

```
           --------------------------------------------------------
                  IC_ DATA20 - Addressed by IC_ ADDR14
           --------------------------------------------------------
```

Table 283.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_DATA20	
(0)	CHARACTER	*	IC_FORMATTIME_ DDMMYYYY	

```
           --------------------------------------------------------
                  IC_ DATA21 - Addressed by IC_ ADDR15
           --------------------------------------------------------
```

Table 284.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_DATA21	
(0)	CHARACTER	*	IC_FORMATTIME_ MMDDYYYY	

```
           --------------------------------------------------------
                  IC_ DATA22 - Addressed by IC_ ADDR16
           --------------------------------------------------------
```

Table 285.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_DATA22	
(0)	CHARACTER	*	IC_FORMATTIME_ FULLDATE	

```
           --------------------------------------------------------
                  IC_ DATA23 - Addressed by IC_ ADDR17
           --------------------------------------------------------
```

Table 286.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_DATA23	

Table 286. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	*	IC_EWLM_ CORRELATOR	

```
----------------------------------------------------------------
                 IC_ DATA29 - Addressed by IC_ ADDR1D
----------------------------------------------------------------
```

Table 287.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	IC_DATA29	
(0)	CHARACTER	*	IC_START_BRDATA	Address BRDATA

```
----------------------------------------------------------------
                 IC_DATA30 - Addressed by IC_ADDR1E
----------------------------------------------------------------
```

Table 288.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IC_DATA30	
(0)	FULLWORD	4	IC_START_ BRDATALENGTH	
				Value BRDATALENGTH

```
----------------------------------------------------------------
                 IC_DATA31 - Addressed by IC_ADDR1F
----------------------------------------------------------------
```

Table 289.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	IC_DATA31	
(0)	CHARACTER	16	IC_START_CHANNEL	Name of channel

Constants

Table 290.

Len	Type	value	Name	Description
Equate for IC_GROUP. All Interval Control requests have group code '10' except ASKTIME and FORMATTIME which have group code '4A'				
1	HEX	10	IC_INTERVAL_GROUP	
1	HEX	4A	IC_ABSTIME_GROUP	
Equates for IC_FUNCT values.				
1	HEX	02	IC_ASKTIME	Asktime
1	HEX	04	IC_FORMATTIME	Formattime
1	HEX	04	IC_DELAY	Delay
1	HEX	06	IC_POST	Post
1	HEX	08	IC_START	Start

Table 290. (continued)

Len	Type	value	Name	Description
1	HEX	0A	IC_RETRIEVE	Retrieve
1	HEX	0C	IC_CANCEL	Cancel
Start of General Use Programming Interface. Equates for EIBRCODE values used by Interval Control.				
1	HEX	00	IC_OK_EIBRCODE	OK
1	HEX	01	IC_ENDDATA_ EIBRCODE	ENDDATA
1	HEX	04	IC_IOERR_EIBRCODE	IOERR
1	HEX	11	IC_TRANSIDERR_ EIBRCODE	
				TRANSIDERR
1	HEX	1B	IC_PGMIDERR_ EIBRCODE	PGMIDERR
1	HEX	20	IC_EXPIRED_ EIBRCODE	EXPIRED
1	HEX	81	IC_NOTFND_EIBRCODE	NOTFND
1	HEX	7A	IC_CHANNELERR_ EIBRCODE	
				CHANELERR
1	HEX	D0	IC_SYSIDERR_ EIBRCODE	SYSIDERR
1	HEX	D1	IC_ISCINVREQ_ EIBRCODE	
				ISCINVREQ
1	HEX	D6	IC_NOTAUTH_ EIBRCODE	NOTAUTH
1	HEX	E1	IC_LENGERR_ EIBRCODE	LENGERR
1	HEX	E9	IC_ENVDEFERR_ EIBRCODE	
				ENVDEFERR
1	HEX	D8	IC_USERIDERR_ EIBRCODE	
				USERIDERR
1	HEX	D9	IC_RESUNAVAIL_ EIBRCODE	
				RESUNAVAIL
1	HEX	FF	IC_INVREQ_EIBRCODE	INVREQ
Equates for EIBRESP values used by Interval Control.				
1	DECIMAL	0	IC_OK_EIBRESP	OK
1	DECIMAL	13	IC_NOTFND_EIBRESP	NOTFND
1	DECIMAL	16	IC_INVREQ_EIBRESP	INVREQ
1	DECIMAL	17	IC_IOERR_EIBRESP	IOERR
1	DECIMAL	22	IC_LENGERR_EIBRESP	LENGERR

Table 290. (continued)

Len	Type	value	Name	Description
1	DECIMAL	27	IC_PGMIDERR_EIBRESP	PGMIDERR
1	DECIMAL	28	IC_TRANSIDERR_ EIBRESP	
				TRANSIDERR
1	DECIMAL	29	IC_ENDDATA_EIBRESP	ENDDATA
1	DECIMAL	31	IC_EXPIRED_EIBRESP	EXPIRED
1	DECIMAL	53	IC_SYSIDERR_EIBRESP	SYSIDERR
1	DECIMAL	54	IC_ISCINVREQ_EIBRESP	ISCINVREQ
1	DECIMAL	56	IC_ENVDEFERR_EIBRESP	ENVDEFERR
1	DECIMAL	69	IC_USERIDERR_EIBRESP	USERIDERR
1	DECIMAL	70	IC_NOTAUTH_EIBRESP	NOTAUTH
1	DECIMAL	121	IC_RESUNAVAIL_ EIBRESP	
				RESUNAVAIL
1	DECIMAL	122	IC_CHANNELERR_ EIBRESP	
				CHANNELERR
	Equates for EIBRESP2 values used by Interval Control.			
1	DECIMAL	0	IC_OK_EIBRESP2	OK
1	DECIMAL	1	IC_CHANNEL_ INVCHARS_EIBRESP2	
				Invalid chars in channel name
1	DECIMAL	1	IC_ROUTER_ REJECTED_EIBRESP2	
				Router rejected start request
1	DECIMAL	4	IC_INVHRS_EIBRESP2	Hours out of range
1	DECIMAL	5	IC_INVMINS_EIBRESP2	Minutes out of range
1	DECIMAL	6	IC_INVSECS_EIBRESP2	Seconds out of range
1	DECIMAL	7	IC_NOTAUTH_EIBRESP2	Request not authorised
1	DECIMAL	8	IC_USERID_ NOT_DEFINED_EIBRESP2	
				Userid not known
1	DECIMAL	9	IC_SURROGATE_ FAILURE_EIBRESP2	
				Surrogate check failed
1	DECIMAL	10	IC_USERID_ NOT_DETERMINED_ EIBRESP2	
				CICS is unable to determine whether the userid exists

Table 290. (continued)

Len	Type	value	Name	Description
1	DECIMAL	18	IC_SECURITY_ INACTIVE_EIBRESP2	
				SEC=NO specified on SIT
1	DECIMAL	19	IC_USERID_ REVOKED_EIBRESP2	
				Userid is revoked
1	DECIMAL	11	IC_REMOTE_ ATTACH_EIBRESP2	
				tried to ship ATTACH
1	DECIMAL	12	IC_ATTACH_ FAILED_EIBRESP2	
				ATTACH failed
1	DECIMAL	13	IC_NO_BREXIT_ EIBRESP2	
				No brexit specified
1	DECIMAL	14	IC_NOT_AUTH_ BREXIT_EIBRESP2	
				Not auth for brexit
1	DECIMAL	15	IC_TRANSID_ NOT_FOUND_EIBRESP2	
				Transid not found
1	DECIMAL	16	IC_TRANSID_ DISABLED_EIBRESP2	
				Transid disabled
1	DECIMAL	17	IC_TRANSID_ SHUTDOWN_EIBRESP2	
				Not enabled for shutdown
1	DECIMAL	18	IC_TRANSID_ SYSTEM_EIBRESP2	
				System transid Function shipping of CHANNEL requires LU6.2 or MRO. LU6.1 is not supported
1	DECIMAL	20	IC_SYSIDERR_ LU61_UNSUP_EIBRESP2	
				Attempt to function ship CHANNEL to a system that does not support CHANNEL
1	DECIMAL	21	IC_SYSIDERR_ CHNL_UNSUP_EIBRESP2	

Table 290. (continued)

Len	Type	value	Name	Description
				Attempt to issue START TERMID(eibtrmid) from DPL server program. (Command not in DPL subset)
1	DECIMAL	200	IC_NOT_IN_ DPL_SUBSET_EIBRESP2	
				--*-*-*-*-**-**-**-**-*-*- *-* *-*-* End of General Use **-* *-* Programming Interface *-* *-*-*-**-**-**-**-**-*- *-*

IIA domain anchor block

```
================================================================
   IIA - II Anchor block
   This block contains the global storage for the II domain.
================================================================
```

Table 291.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	656	IIA	II domain anchor block
(0)	CHARACTER	16	IIA_PREFIX	
(0)	HALFWORD	2	IIA_LENGTH	
(2)	CHARACTER	1	IIA_ARROW	'>'
(3)	CHARACTER	3	IIA_DFH	'DFH'
(6)	CHARACTER	2	IIA_DOMID	'II'
(8)	CHARACTER	8	IIA_BLOCK_NAME	'ANCHOR'
(10)	ADDRESS	4	IIA_CONN_ DATA_CHAIN	
				sock data chain anchor
(14)	ADDRESS	4	IIA_CONN_ DATA_END	sock data chain end
(18)	ADDRESS	4	IIA_IIRP_ DATA_CHAIN	
				iirp data chain anchor
(1C)	ADDRESS	4	IIA_IIRP_ DATA_END	iirp data chain end
(20)	ADDRESS	4	IIA_RQMDANCH	Request model anchor ptr
(24)	ADDRESS	4	*	Reserved
(28)	CHARACTER	4	*	Reserved

Table 291. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	ADDRESS	4	IIA_STATS_ BUFFER_PTR	
				Statistics buffer
(30)	CHARACTER	8	IIA_LAST_ RQM_RESET_TIME	
				Reqmodel stats last reset
(38)	CHARACTER	8	IIA_GENERAL_ TOKEN	General subpool token
(40)	CHARACTER	8	IIA_BUFFER_TOKEN	Buffer subpool token
(48)	BIT(8)	1	IIA_FLAG_BYTES	
	1...		*	
	.1..		IIA_COLD_START	On if CICS cold started
(49)	CHARACTER	3	*	
(4C)	CHARACTER	8	IIA_RR_ RZ_NOTIFY_TOKEN	
				rr registration token
(54)	CHARACTER	8	IIA_RP_ RZ_NOTIFY_TOKEN	
				rp registration token
(5C)	ADDRESS	4	IIA_IIRP_ LOCK_TOKEN	
				for add/remove of iirp_data chn

```
     -----------------------------------------------------------------
     ASCII 00819 (8859-1) to EBCDIC 01047
     Table generated from 03330417 S-R2-D on 18 Dec 1997
     -----------------------------------------------------------------
```

Offset Hex	Type	Len	Name (dim)	Description
(60)	CHARACTER	256	IIA_8859_1_TABLE	
(160)	CHARACTER	256	IIA_1047_1_TABLE	
(260)	OBJECT	40	IIA_CTTC_CHAIN	Base address for CTTC objs
(268)	OBJECT	16	ITER0	Base address for CTTC objs
(270)	CHARACTER	8	*	Base address for CTTC objs
(270)	ADDRESS	4	PREV	Base address for CTTC objs
(274)	ADDRESS	4	NEXT	Base address for CTTC objs
(278)	OBJECT	16	NODE0	Base address for CTTC objs
(280)	CHARACTER	8	*	Base address for CTTC objs

Table 291. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(280)	ADDRESS	4	PREV	Base address for CTTC objs
(284)	ADDRESS	4	NEXT	Base address for CTTC objs
(288)	CHARACTER	8	IIA_THIS_APPLID	This systems applid
(290)	CHARACTER	0	*	

```
      ===================================================================
          Request Receiver Connection Data
      WARNING - The conn_  data DSECT also appears in module
                DFHZIS2. Any changes to the DSECT made in
                DFHIIDCD need to also be copied to DFHZIS2.
                After modifying DFHIIDCC, rebuild DFHIIDCD
                and copy the changes into DFHZIS2.
        This block contains data relevant to the socket connection life-
        time and is used both by the dump formatters and to keep data
        across transactions until the socket is closed.
        It is obtained from the IIGENRAL subpool by DFHIIRR and freed
        when the RR task terminates when the socket is closed or after
      an error.
        A 2nd use of this block is to hold data needed by the so notify
        gate when a request receiver task has been suspended.
      ===================================================================
```

Table 292.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	105	CONN_DATA	
(0)	CHARACTER	4	CONN_EYECATCHER	>CON
(4)	ADDRESS	4	CONN_NEXT	next in conn_data chain
(8)	ADDRESS	4	CONN_PREV	previous in conn_data chain
(C)	UNSIGNED	4	REPLY_CONTROL	RZ & SO Notify fields
(C)	BIT(8)	1	REPLY_FLAGS	
	1...		SUSPEND_ISSUED	On if suspend issued
	.1..		RECEIVE_ COMPLETE	On if sock_receive_complete
	..1.		TASK_ALIVE	On if task re-usable
(D)	CHARACTER	1	*	
(E)	UNSIGNED	2	LISTENS_ NOT_NOTIFIED	
				notified
(10)	ADDRESS	4	TXN_PTR	ptr to txn storage
(14)	UNSIGNED	4	SUSPEND_TOKEN	For so notify gate
(18)	UNSIGNED	4	SOCKET_TOKEN	needed on SOCK calls
(1C)	ADDRESS	4	CTT_PTR	CICS task tracking sc ptr

Table 292. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	ADDRESS	4	CCC_PTR	CICS connection sc ptr
(24)	ADDRESS	4	COMMAREA_PTR	URM commarea
(28)	ADDRESS	4	SAVED_SERVICE_ CONTEXT_PTR	
				from 1st request
(2C)	UNSIGNED	4	SAVED_SERVICE_ CONTEXT_LEN	
(30)	ADDRESS	4	VAULT_PTR	Basic or Kerberos
(34)	UNSIGNED	4	SAVED_CODESET_ LEN	
(38)	UNSIGNED	4	SAVED_SENDING_ LEN	
(3C)	CHARACTER	8	TCPIPSERVICE_ NAME	needed for monitoring
(44)	CHARACTER	8	DEFAULT_USERID	needed for IIRH.
(4C)	CHARACTER	8	URMNAME	created in notify gate
(54)	CHARACTER	4	RR_TRANID	This tranid for dump
(58)	UNSIGNED	4	RR_TRANNUM	This trannum in bin for dump
(5C)	UNSIGNED	1	ACTION	Set from sock_action in the sock notify gate
(5D)	UNSIGNED	1	SOCK_FLAGS	
	1...		FIRST_RECEIVE	On if 1st receive not done
	.1..		FIRST_REQUEST	On if 1st request being done
	..11 1111		*	
(5E)	UNSIGNED	1	MAX_GIOP_ VERSION_MAJOR	
				Highest version so far
(5F)	UNSIGNED	1	MAX_GIOP_ VERSION_MINOR	
				Highest version so fa
(60)	CHARACTER	8	XOPUS_USERID	
(68)	UNSIGNED	1	XOPUS_USERID_LEN	

```
==================================================================
TXN - Request Receiver
This block contains pointers to the storage which is
relevant to a request and lasts for the lifetime of the
transaction instance.
==================================================================
```

Table 293.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	26	TXN_DATA	CIRR transaction storage
(0)	CHARACTER	4	TXN_EYECATCHER	>TXN
(4)	ADDRESS	4	FIRST_RUEI_PTR	addr message buffers for RZSO
(8)	ADDRESS	4	LISTEN_DATA_CHAIN	chain of replies outstanding
(C)	ADDRESS	4	LISTEN_DATA_END	end of reply data chain
(10)	ADDRESS	4	FRAG_CHAIN	Chain of started fragmnts
(14)	ADDRESS	4	FRAG_CHAIN_END	end of fragment chain
(18)	UNSIGNED	2	LISTENS_OUTSTANDING	
				still to be notified

```
====================================================================
  Listen Data - Request Receiver and Request Processor
  This control block contains all the information relevant to an
  outstanding reply. It is created when an LSTN LISTEN
  is issued for a request or locate request. It is deleted when
  the reply has been processed. The LISTEN passes a pointer
  to this data to the notify gate.
  This same mechanism is also used for request processor
  LSTN LISTEN.
====================================================================
```

Table 294.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	LISTEN_DATA	
(0)	CHARACTER	4	LD_EYECATCHER	>LD
(4)	ADDRESS	4	LD_NEXT	
(8)	ADDRESS	4	LD_PREV	
(C)	CHARACTER	8	LD_REQUEST_STREAM_TOKEN	
(14)	UNSIGNED	4	LD_REPLY_REQID	
(18)	BIT(8)	1	LD_FLAGS	
	1...		LD_READY	Notify driven for this reply
	.1..		LD_TYPE	on if request (used by IIRP)
	..1.		LD_ERROR	early notification.
(19)	CHARACTER	2	*	
(1B)	UNSIGNED	1	LD_STATUS	notify | close | abend | timeout Set from noti_notify_status
(1C)	UNSIGNED	4	LD_SUSPEND_TOKEN	

Table 294. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	ADDRESS	4	LD_REPLY_ CONTROL_PTR	
(24)	ADDRESS	4	LD_SAVED_ REQUEST_PTR	
				Saved when JOINed BounceBack
(28)	UNSIGNED	4	LD_SAVED_ REQUEST_LENGTH	
(2C)	BIT(64)	8	LD_STCK	

```
  ===================================================================
  FRAG_BLOCK
    This block represents a fragment which has been sent to the
    request receiver. It is created when a request is received
    with the fragment bit on in the GIOPHeader. It is deleted
    when the last fragment (^fragment) has been received.
  The block is chained from txn_ data storage from frag_ chain
  and ends in frag_ chain_end.
  ===================================================================
```

Table 295.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	44	FRAG_BLOCK	
(0)	CHARACTER	4	FRAG_EYECATCHER	>FRG
(4)	ADDRESS	4	FRAG_NEXT	
(8)	ADDRESS	4	FRAG_PREV	
(C)	UNSIGNED	4	FRAG_REQUESTID	
(10)	ADDRESS	4	FRAG_FIRST_ RUEI_PTR	
(14)	ADDRESS	4	FRAG_CURRENT_ RUEI_PTR	
(18)	UNSIGNED	4	FRAG_INDEX	
(1C)	UNSIGNED	4	FRAG_LENGTH_FREE	
(20)	UNSIGNED	4	FRAG_NEXT_FREE	
(24)	ADDRESS	4	FRAG_FIRST_ BUFFER_PTR	
(28)	UNSIGNED	4	FRAG_FIRST_ BUFFER_LEN	

```
  ===================================================================
  Server data - Request Receiver
  This block contains information about an incoming request.
  It is held in LIFO and extracted by the request hander (DFHIIRH)
  from the object key and used as input to Request Stream CREATE.
  ===================================================================
```

Table 296.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	SERVER_DATA	

Table 296. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	8	SD_EYECATCHER	>>IISRVR
(8)	HALFWORD	2	SD_LENGTH	
(A)	UNSIGNED	1	SD_VERSION_MAJOR	
(B)	UNSIGNED	1	SD_VERSION_MINOR	
(C)	CHARACTER	4	LOGICAL_SERVER	Container RDO name

```
===================================================================
  Debug data - Request Handler
  This block contains information extracted from an incoming
  request to be used if DEBUG=YES is specified in the request
  processor SIT.
  It is held in LIFO and extracted by the request hander (DFHIIRH)
  from the object key and used as input to Request Stream CREATE
  and JOIN.
===================================================================
```

Table 297.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DEBUG_DATA	
(0)	CHARACTER	8	DD_EYECATCHER	>>IIDBUG
(8)	UNSIGNED	4	DD_LENGTH	
(C)	UNSIGNED	1	DD_VERSION_MAJOR	
(D)	UNSIGNED	1	DD_VERSION_MINOR	
(E)	UNSIGNED	1	DD_PARM_NUMBER	
(F)	UNSIGNED	1	DD_PARM_TYPE	
(10)	UNSIGNED	4	DD_METHOD_LENGTH	method/operation
(14)	CHARACTER	*	DD_METHOD	truncated to 255

Table 298.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DD_BEAN_NAME	bean name or fully qual
(0)	UNSIGNED	4	DD_BEAN_LENGTH	class name consisting of module and interface name
(4)	CHARACTER	*	DD_BEAN	truncated to 255

```
===================================================================
  Security vault entry
===================================================================
-------------------------------------------------------------------
  The security vault is a linklist of entries held off vault_ptr
  in conn_data. Each vault entry represents a connection from a
  single client, and is used to map the session id in the
  incoming service context to a userid and/or kerberos principal.
-------------------------------------------------------------------
```

Table 299.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	VAULTENTRY	
(0)	CHARACTER	8	VAULTENTRYEYECATCHER	
				>>IIVLTE
(8)	ADDRESS	4	VAULTENTRYNEXT	link to next entry
(C)	FULLWORD	4	VAULTENTRYLENGTH	length of entire block!
(10)	CHARACTER	8	VAULTENTRYUSERID	
(18)	UNSIGNED	4	VAULTENTRYSESSIONIDLENGTH	
(1C)	CHARACTER	*	VAULTENTRYSESSIONID	

Table 300.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	VAULTENTRYPART2	
(0)	UNSIGNED	4	VAULTENTRYPRINCIPALNAMELENGTH	
(4)	CHARACTER	*	VAULTENTRYPRINCIPALNAME	

```
    =================================================================
     Request Processor data.
    =================================================================
    -----------------------------------------------------------------
     rp_data represents all the data needed for the lifetime of an
    ORB task. It is obtained by IIRP GET_ INITIAL_ DATA or INITIALISE
     and freed by IIRP TERMINATE or after an error.
     Any data that needs to be kept across calls should be kept in here.
    It is chained off IIA_ IIRP_DATA_ CHAIN to enable the dump formatter
     to find the request processor blocks.
    -----------------------------------------------------------------
```

Table 301.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	80	RP_DATA	
(0)	CHARACTER	4	RP_EYECATCHER	>RPD
(4)	ADDRESS	4	RP_NEXT	next in rp_data chain
(8)	ADDRESS	4	RP_PREV	previous in rp_data chain
(C)	UNSIGNED	4	RP_SUSPEND_TOKEN	
(10)	CHARACTER	8	RP_REQUEST_ STREAM_TOKEN	
(18)	ADDRESS	4	RP_LISTEN_ DATA_CHAIN	
				chain of replies
(1C)	ADDRESS	4	RP_LISTEN_ DATA_END	end of chain
(20)	UNSIGNED	4	RP_REPLY_CONTROL	LSTN notify fields
(20)	BIT(8)	1	RP_REPLY_FLAGS	
	1...		RP_SUSPEND_ ISSUED	

Table 301. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				On if suspend issued
(21)	CHARACTER	1	*	
(22)	UNSIGNED	2	RP_LISTENS_ NOT_NOTIFIED	
(24)	UNSIGNED	2	RP_LISTENS_ OUTSTANDING	
(26)	BIT(8)	1	RP_FLAGS	
	1...		RP_FRAG_ IN_PROGRESS	
(27)	CHARACTER	1	*	
(28)	ADDRESS	4	RP_FRAG_RUEI_PTR	
(2C)	ADDRESS	4	RP_CTT_CHAIN	
(30)	ADDRESS	4	RP_CTT_END	
(34)	UNSIGNED	4	RP_TRANNUM	held in binary
(38)	CHARACTER	4	RP_TRANID	
(3C)	CHARACTER	12	RP_GIOPHEADER	
(48)	CHARACTER	4	RP_SERVER_NAME	
(4C)	UNSIGNED	4	RP_WORK_COUNT	

Constants

Table 302.

Len	Type	value	Name	Description
4	DECIMAL	10	RUEI_SIZE	
1	DECIMAL	1	DD_PARM_TYPE_BEAN	
1	DECIMAL	2	DD_PARM_TYPE_CLASS	
== Miscellaneous constants. ==				
4	NUMB HEX	4942C000	CORBAMINORCICSRRIB.. 1229111296	
1	DECIMAL	1	SSL_YES	
1	DECIMAL	2	SSL_NO	
1	DECIMAL	3	SSL_CLIENTCERT	
4	DECIMAL	4096	II_STATS_BUFFER_SIZE	
-- Define data_type and direction for trace points 0132 and 0714 --				
1	DECIMAL	213	NEITHER	
1	DECIMAL	226	SEND	about to send data
1	DECIMAL	217	RECEIVED	data already received
1	DECIMAL	1	GH	GIOP Header
1	DECIMAL	2	BODY	

Table 302. (continued)

Len	Type	value	Name	Description
1	DECIMAL	3	REP	GIOP Reply
1	DECIMAL	4	ME	Message Error
1	DECIMAL	5	SER	System Exception Reply
1	DECIMAL	6	SD	Server data
1	DECIMAL	7	REPH	Reply Header
1	DECIMAL	8	REPB	Reply Body
1	DECIMAL	9	REQ	Request
1	DECIMAL	10	FB	Fragment Body
1	DECIMAL	11	FH	Fragment Header
1	DECIMAL	12	RR	Redirected request
1	DECIMAL	13	FRID	Fragment request id
| ```
====================================================================
  II Domain trace point ids
====================================================================
--------------------------------------------------------------------
 DFHIIDM trace point ids 0000-00FF
--------------------------------------------------------------------
``` | | | | |
2	NUMB HEX	0000	TID_IIDM_ENTRY	
2	NUMB HEX	0001	TID_IIDM_EXIT	
2	NUMB HEX	0002	TID_IIDM_ INVALID_FORMAT	
2	NUMB HEX	0003	TID_IIDM_ INVALID_FUNCTION	
2	NUMB HEX	0004	TID_IIDM_ RECOVERY_ENTERED	
| ```
--------------------------------------------------------------------
 DFHIIRR trace point ids 0100-01FF
--------------------------------------------------------------------
``` | | | | |
2	NUMB HEX	0100	TID_IIRR_ENTRY	
2	NUMB HEX	0101	TID_IIRR_EXIT	
2	NUMB HEX	0102	TID_IIRR_ INVALID_FORMAT	
2	NUMB HEX	0103	TID_IIRR_ INVALID_FUNCTION	
2	NUMB HEX	0104	TID_IIRR_ RECOVERY_ENTERED	
2	NUMB HEX	0106	TID_IIRR_ GIOP_INVALID_HEADER	
2	NUMB HEX	0107	TID_IIRR_ GIOP_INVALID_HEADER_ LEN	
2	NUMB HEX	0108	TID_IIRR_ GIOP_INVALID_VERSION	
2	NUMB HEX	010A	TID_IIRR_ SOCK_RECEIVE_EXCEPTION	

Table 302. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	010B	TID_IIRR_ SOCK_RECEIVE_ASY_ TIMEOUT	
2	NUMB HEX	010D	TID_IIRR_ SOCK_RECEIVE_SYN_ TIMEOUT	
2	NUMB HEX	010E	TID_IIRR_ SOCK_SEND_EXCEPTION	
2	NUMB HEX	010F	TID_IIRR_ GIOP_FRAGMENT_ NOT_EXPECTED	
2	NUMB HEX	0120	TID_IIRR_ GIOP_MESSAGE_ERROR_ RCVD	
2	NUMB HEX	0121	TID_IIRR_ GIOP_REPLY_RECEIVED	
2	NUMB HEX	0122	TID_IIRR_ GIOP_CLOSE_CONN_ RECEIVED	
2	NUMB HEX	0123	TID_IIRR_ GIOP_INVALID_MESSAGE_ TYPE	
2	NUMB HEX	0124	TID_IIRR_ URM_DENIED_PERMISSION	
2	NUMB HEX	0125	TID_IIRR_ NO_PERMISSION_SSL	
2	NUMB HEX	0126	TID_IIRR_ URM_USERID_NOTAUTH	
2	NUMB HEX	0127	TID_IIRR_ INVALID_OBJECT_ KEY	
2	NUMB HEX	0128	TID_IIRR_ REQUEST_ERROR	
2	NUMB HEX	0129	TID_IIRR_ CANCEL_REQUEST	
2	NUMB HEX	012A	TID_IIRR_ RZSO_SEND_REQUEST_ EXC	
2	NUMB HEX	012B	TID_IIRR_ RZ_LISTEN_EXCEPTION	
2	NUMB HEX	012C	TID_IIRR_ RZSO_LEAVE_EXCEPTION	
2	NUMB HEX	012D	TID_IIRR_ RZSO_RECEIVE_REPLY_ EXC	
2	NUMB HEX	012E	TID_IIRR_ XMAT_ATTACH_FAILURE	
2	NUMB HEX	012F	TID_IIRR_ NOTIFY_FAILURE	

Table 302. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	0130	TID_IIRR_ INSUFFICIENT_STORAGE	
2	NUMB HEX	0131	TID_IIRR_ GETMAIN_EXCEPTION	
2	NUMB HEX	0132	TID_IIRR_DATA_BUFFER	
2	NUMB HEX	0133	TID_IIRR_ CICSTASKTRACKING	
2	NUMB HEX	0135	TID_IIRR_ GIOP_FRAG_MISALIGN	
2	NUMB HEX	0136	TID_IIRR_ CICSTASKTRACKING_ REPLY	
2	NUMB HEX	0137	TID_IIRR_ SO_NOTIFY_RESUME_ FAILED	
2	NUMB HEX	0138	TID_IIRR_ RZ_NOTIFY_RESUME_ FAILED	
2	NUMB HEX	0139	TID_IIRR_ RZ_NOTIFY_NO_TASK	
2	NUMB HEX	013A	TID_IIRR_ REPLY_NOT_RECEIVABLE	
2	NUMB HEX	013B	TID_IIRR_ SO_NOTIFY_ERROR	
2	NUMB HEX	013C	TID_IIRR_ INVALID_ADDRDISP	
2	NUMB HEX	013D	TID_IIRR_ NO_TAGGED_PROFILE	
2	NUMB HEX	013E	TID_IIRR_ NO_OBJECT_KEY	
2	NUMB HEX	0140	TID_IIRR_ SO_NOTIFY_ENTRY	
2	NUMB HEX	0141	TID_IIRR_ SO_NOTIFY_EXIT	
2	NUMB HEX	0142	TID_IIRR_ RZ_NOTIFY_ENTRY	
2	NUMB HEX	0143	TID_IIRR_ RZ_NOTIFY_EXIT	
2	NUMB HEX	0144	TID_IIRR_ SOCK_RECEIVE1_ SYN_TIMEOUT	
2	NUMB HEX	0145	TID_IIRR_ IIRH_FIND_FAILED	
2	NUMB HEX	0146	TID_IIRR_CCSC_EXISTS	
2	NUMB HEX	0148	TID_IIRR_ OTTID_NULL_COORD	

Table 302. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	0149	TID_IIRR_ GIOP_FRAGS_NOT_ SUPPORTED	
2	NUMB HEX	014A	TID_IIRR_ SOCK_CLOSED_RECEIVED	
2	NUMB HEX	014B	TID_IIRR_ SO_NOTIFY_CLOSED	
2	NUMB HEX	0150	TID_IIRR_ SECURITY_CHECK_ FAILED	
2	NUMB HEX	0151	TID_IIRR_ NO_SECURITY_CONTEXT	
2	NUMB HEX	0152	TID_IIRR_ FRAGMENT_WITH_ NO_REQUEST	
-- DFHIIRH trace point ids 0200-02FF --				
2	NUMB HEX	0200	TID_IIRH_ENTRY	
2	NUMB HEX	0201	TID_IIRH_EXIT	
2	NUMB HEX	0202	TID_IIRH_ INVALID_FORMAT	
2	NUMB HEX	0203	TID_IIRH_ INVALID_FUNCTION	
2	NUMB HEX	0204	TID_IIRH_ RECOVERY_ENTERED	
2	NUMB HEX	0205	TID_IIRH_ URM_COMMAREA	
2	NUMB HEX	0206	TID_IIRH_EJ_VARS	
2	NUMB HEX	0207	TID_IIRH_II_VARS	
2	NUMB HEX	0208	TID_IIRH_ GETMAIN_EXCEPTION	
2	NUMB HEX	0209	TID_IIRH_ CALL_URM_EXCEPTION	
2	NUMB HEX	020A	TID_IIRH_ RZSO_JOIN_EXCEPTION	
2	NUMB HEX	020B	TID_IIRH_ RZSO_CREATE_EXCEPTION	
2	NUMB HEX	020C	TID_IIRH_ EJDI_LOOKUP_EXCEPTION	
2	NUMB HEX	020D	TID_IIRH_ EXTRACT_OTS_TID_ FAILED	
2	NUMB HEX	020E	TID_IIRH_ INVALID_USER_KEY_ REASON	
2	NUMB HEX	020F	TID_IIRH_USER_KEY	

Table 302. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	0210	TID_IIRH_ RMUW_COMMIT_EXCEPTION	
2	NUMB HEX	0211	TID_IIRH_OT_VARS	
2	NUMB HEX	0212	TID_IIRH_ TRANSACTION_SEQUENCE	
2	NUMB HEX	0213	TID_IIRH_OTS_TID	
2	NUMB HEX	0214	TID_IIRH_ SERVICE_CONTEXT_ ERROR	
2	NUMB HEX	0215	TID_IIRH_ CONVERT_ENDIAN_ ERROR	
2	NUMB HEX	0216	TID_IIRH_ ACTIVITY_SERVICE	
2	NUMB HEX	0217	TID_IIRH_ ARM_CORRELATOR	
--- DFHIIMM trace point ids 0300-03FF ---				
2	HEX	0300	TID_IIMM_ENTRY	
2	HEX	0301	TID_IIMM_EXIT	
2	HEX	0302	TID_IIMM_ INVALID_FORMAT	
2	HEX	0303	TID_IIMM_ INVALID_FUNCTION	
2	HEX	0304	TID_IIMM_RECOVERY	
--- DFHIIRQ trace point ids 0400-04FF ---				
2	HEX	0400	TID_IIRQ_ENTRY	
2	HEX	0401	TID_IIRQ_EXIT	
2	HEX	0402	TID_IIRQ_ INVALID_FORMAT	
2	HEX	0403	TID_IIRQ_ INVALID_FUNCTION	
2	HEX	0404	TID_IIRQ_RECOVERY	
--- trace point ids 0500-05FF are available --- --- DFHIIST trace point ids 0600-06FF ---				
2	HEX	0600	TID_IIST_ENTRY	
2	HEX	0601	TID_IIST_EXIT	
2	HEX	0602	TID_IIST_ INVALID_FORMAT	

Table 302. (continued)

Len	Type	value	Name	Description
2	HEX	0603	TID_IIST_ INVALID_FUNCTION	
2	HEX	0604	TID_IIST_RECOVERY	
2	HEX	0605	TID_IIST_ INVALID_PARMS	

	```--```
	 ``` DFHIIRP trace point ids 0700-07FF```
	 ```--```			

2	NUMB HEX	0700	TID_IIRP_ENTRY	
2	NUMB HEX	0701	TID_IIRP_EXIT	
2	NUMB HEX	0702	TID_IIRP_ INVALID_FORMAT	
2	NUMB HEX	0703	TID_IIRP_ INVALID_FUNCTION	
2	NUMB HEX	0704	TID_IIRP_ RECOVERY_ENTERED	
2	NUMB HEX	0707	TID_IIRP_ RZTA_GET_CURRENT_ EXC	
2	NUMB HEX	0708	TID_IIRP_ RZTA_GET_SERVER_ EXC	
2	NUMB HEX	0709	TID_IIRP_ RZTA_RECEIVE_REQUEST_ EXC	
2	NUMB HEX	070A	TID_IIRP_ RZTA_SEND_REPLY_ EXC	
2	NUMB HEX	070B	TID_IIRP_ RZSO_RECEIVE_REPLY_ EXC	
2	NUMB HEX	070C	TID_IIRP_ RZSO_SEND_REQUEST_ EXC	
2	NUMB HEX	070D	TID_IIRP_ RZ_LISTEN_EXCEPTION	
2	NUMB HEX	070E	TID_IIRP_ MSG_NOT_RECEIVABLE	
2	NUMB HEX	070F	TID_IIRP_ RZ_NOTIFY_NO_TASK	
2	NUMB HEX	0710	TID_IIRP_ RZ_NOTIFY_RESUME_ FAILED	
2	NUMB HEX	0711	TID_IIRP_ GETMAIN_EXCEPTION	
2	NUMB HEX	0712	TID_IIRP_ RZ_NOTIFY_ENTRY	

Table 302. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	0713	TID_IIRP_ RZ_NOTIFY_EXIT	
2	NUMB HEX	0714	TID_IIRP_DATA_BUFFER	
2	NUMB HEX	0715	TID_IIRP_ CICSTASKTRACKING	
2	NUMB HEX	0716	TID_IIRP_ RZTA_GET_PUBLIC_ EXC	
2	NUMB HEX	0717	TID_IIRP_ CICSTASKTRACKING_ REPLY	
2	NUMB HEX	0718	TID_IIRP_ DSSR_SUSPEND_EXC	
2	NUMB HEX	0719	TID_IIRP_ GIOP_REQ_HEADER_ INVALID	
2	NUMB HEX	071A	TID_IIRP_ REQUEST_INVALID	
2	NUMB HEX	071B	TID_IIRP_ GIOP_REP_HEADER_ INVALID	
2	NUMB HEX	071C	TID_IIRP_ GIOP_INVALID_FRAG_ HEADER	
2	NUMB HEX	071D	TID_IIRP_ GIOP_FRAGMENT_ EXPECTED	
2	NUMB HEX	071E	TID_IIRP_ GIOP_FRAG_MISALIGN	
2	NUMB HEX	071F	TID_IIRP_ GIOP_CLOSE_CONN_ RECEIVED	
2	NUMB HEX	0720	TID_IIRP_ GIOP_MESSAGE_ERROR_ RCVD	
2	NUMB HEX	0721	TID_IIRP_ GIOP_INVALID_MESSAGE_ TYPE	
2	NUMB HEX	0722	TID_IIRP_ GIOP_UNKNOWN_MESSAGE_ TYPE	
2	NUMB HEX	0723	TID_IIRP_ GIOP_FRAGMENT_ NOT_EXPECTED	
2	NUMB HEX	0724	TID_IIRP_ INVALID_RP_TOKEN	
2	NUMB HEX	0725	TID_IIRP_CTT_MISSING	

Table 302. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	0726	TID_IIRP_ REPLY_RS_TOKEN_ INVALID	
2	NUMB HEX	0727	TID_IIRP_ GIOP_FRAGS_NOT_ SUPPORTED	
2	NUMB HEX	0728	TID_IIRP_ GIOP_FRAGMENT_ INVALID	
2	NUMB HEX	0729	TID_IIRP_ WORKREQUEST_ENTRY	
2	NUMB HEX	0730	TID_IIRP_ WORKREQUEST_EXIT	

```
--------------------------------------------------------------------
 DFHIICP trace point ids 0800-08FF
--------------------------------------------------------------------
```

2	NUMB HEX	0800	TID_IICP_ENTRY	
2	NUMB HEX	0801	TID_IICP_EXIT	
2	NUMB HEX	0802	TID_IICP_ INVALID_FORMAT	
2	NUMB HEX	0803	TID_IICP_ INVALID_FUNCTION	
2	NUMB HEX	0804	TID_IICP_ RECOVERY_ENTERED	
2	NUMB HEX	0805	TID_IICP_ INVALID_PLIST	
2	NUMB HEX	0807	TID_IICP_ DFJIIRQ_LINK_FAILED	
2	NUMB HEX	0808	TID_IICP_ DFJIIRQ_ABEND	

```
--------------------------------------------------------------------
 DFHIIRS trace point ids 0100-01FF
--------------------------------------------------------------------
```

2	NUMB HEX	0900	TID_IIRS_ENTRY	
2	NUMB HEX	0901	TID_IIRS_EXIT	
2	NUMB HEX	0902	TID_IIRS_ INVALID_FORMAT	
2	NUMB HEX	0903	TID_IIRS_ INVALID_FUNCTION	
2	NUMB HEX	0904	TID_IIRS_ RECOVERY_ENTERED	
2	NUMB HEX	0905	TID_IIRS_ USERID_TOO_LONG	
2	NUMB HEX	0906	TID_IIRS_ PASSWORD_TOO_LONG	
2	NUMB HEX	0907	TID_IIRS_ INVALID_MSGTYPE	

Table 302. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	0908	TID_IIRS_ DUPLICATE_SESSID	
2	NUMB HEX	0909	TID_IIRS_ SESSID_NOT_FOUND	
2	NUMB HEX	090A	TID_IIRS_ LENGTH_TOO_LONG	
2	NUMB HEX	090B	TID_IIRS_ XSPW_EXCEPTION	
2	NUMB HEX	090C	TID_IIRS_ SECURITY_CONTEXT	
2	NUMB HEX	090D	TID_IIRS_ AI_USERID_TOO_ LONG	
2	NUMB HEX	090E	TID_IIRS_ INVALID_CREDTYPE	
2	NUMB HEX	090F	TID_IIRS_ INVALID_AIMSGTYPE	
2	NUMB HEX	0910	TID_IIRS_ XSRC_EXCEPTION	
2	NUMB HEX	0911	TID_IIRS_ USAD_EXCEPTION	
2	NUMB HEX	0912	TID_IIRS_ ADD_VAULTENTRY	
2	NUMB HEX	0913	TID_IIRS_ FIND_VAULT_USERID	
2	NUMB HEX	0914	TID_IIRS_ DESTROY_VAULT	
2	NUMB HEX	0915	TID_IIRS_ XSKR_EXCEPTION	
2	NUMB HEX	0916	TID_IIRS_KP_TOO_LONG	
2	NUMB HEX	0917	TID_IIRS_ INVALID_VERSION	
-- JRAS trace point ids for II 1000-100F --				
2	NUMB HEX	1000	TID_II_JRAS_API	
2	NUMB HEX	1001	TID_II_JRAS_CALLBACK	
2	NUMB HEX	1002	TID_II_JRAS_ENTRY	
2	NUMB HEX	1003	TID_II_JRAS_ ERROR_EXC	
2	NUMB HEX	1004	TID_II_JRAS_ MISC_DATA	
2	NUMB HEX	1005	TID_II_JRAS_ OBJ_CREATE	
2	NUMB HEX	1006	TID_II_JRAS_ OBJ_DELETE	

Table 302. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	1007	TID_II_JRAS_PRIVATE	
2	NUMB HEX	1008	TID_II_JRAS_PUBLIC	
2	NUMB HEX	1009	TID_II_JRAS_STATIC	
2	NUMB HEX	100A	TID_II_JRAS_SVC	
2	NUMB HEX	100B	TID_II_JRAS_LEVEL1	
2	NUMB HEX	100C	TID_II_JRAS_LEVEL2	
2	NUMB HEX	100D	TID_II_JRAS_LEVEL3	
2	NUMB HEX	100E	TID_II_JRAS_PERF	
2	NUMB HEX	100F	TID_II_JRAS_EXIT	

GIOP GIOP Header and Message declarations *NQA

```
======================================================================
@BANNER_START 02
                       DFHIIGIC
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
This copy book includes the following GIOP control blocks:
 GIOP Header
 Request Header 1.0/1.1 and 1.2
 Locate Request Header 1.0/1.1 and 1.2
 Reply 1.0/1.1 and 1.2
 Service Context
 cicsTaskTrackingContext - data flowed to trace the origin and
      previous task of a request - known as the ctt.
 cicsConnectionContext - contains TCPIPSERVICE information.
----------------------------------------------------------------------
======================================================================
======================================================================
The following shows the layout of a GIOP 1.0/1 message:-
  -----------------------------------------------------
 | 'G' | 'I' | 'O' | 'P' |
 |---------------------------------------------------|
 | '1' version| 0/1 version | flag byte | message type|
 |---------------------------------------------------|
 | message size - unsigned long |
 |---------------------------------------------------|
 | Number of service contexts to follow. |
 |---------------------------------------------------|
 | context data - sequence |
 |---------------------------------------------------|
 | request Id - unsigned long |
 |---------------------------------------------------|
 | response | object key | name of | requesting |
 | expected | - sequence | requested | principal |
 | - boolean | JMBI | operation | - sequence |
 | | | - string | |
 |---------------------------------------------------|
 | Request Body - in & out parameters from IDL. .. |
  ---------------------------------------------------
The following shows the layout of a GIOP 1.2 messsage:
  -----------------------------------------------------
 | 'G' | 'I' | 'O' | 'P' |
 |---------------------------------------------------|
```

```
             |  '1' version| '2' version | flag byte | message type|
             |----------------------------------------------------|
             | message size - unsigned long |
             |----------------------------------------------------|
             | request Id - unsigned long |
             |----------------------------------------------------|
             | response | |
             | expected | |
             | - boolean | |
             |----------------------------------------------------|
             | TargetAddr - 3 types - contains objectKey KMBI |
             | or LMBI |
             |----------------------------------------------------|
             | Name of requested operation - string |
             |----------------------------------------------------|
             | Number of service contexts to follow. |
             |----------------------------------------------------|
             | context data - sequence |
             |----------------------------------------------------|
             | Double word aligned wrt GIOP header. |
             | Request Body - in & out parameters from IDL. .. |
              ----------------------------------------------------

       ================================================================
       ================================================================
        GIOP message header
       ================================================================
```

Table 303.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	GIOPHEADER	
(0)	CHARACTER	4	MAGIC	
(4)	UNSIGNED	1	IIOPVERSIONMAJOR	
(5)	UNSIGNED	1	IIOPVERSIONMINOR	
(6)	BIT(8)	1	FLAGS	
	1111 11..		*	
	.... ..1.		FRAGMENT	On if fragment expected
	1		ENDIAN	On if little endian
(7)	UNSIGNED	1	MESSAGETYPE	
(8)	UNSIGNED	4	MESSAGESIZE	
(8)	CHARACTER	4	MS	

```
      ==================================================================
      Request Header
        The Request Header is made up of the following service contexts
        and the request ID etc. It follows the GIOP request header
        The fields following 'rh' determine their positions at run
        time after the lengths have been 'endian' converted and any
        alignment has been forced.
       ==================================================================
       ------------------------------------------------------------------
       Service Contexts
       Service contexts exist at the beginning of a request header.
       Their general form is as follows:
       ------------------------------------------------------------------
```

Table 304.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	SERVICECONTEXT	
(0)	UNSIGNED	4	CONTEXTNUMBER	0 if no contexts present.

Table 305.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	SERVICECONTEXT_ INSTANCE	
(0)	UNSIGNED	4	CONTEXTID	
(4)	UNSIGNED	4	CONTEXTLENGTH	
(8)	CHARACTER	*	CONTEXTDATA	

```
----------------------------------------------------------------
Request Header .... continued.
----------------------------------------------------------------
```

Table 306.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	RH	
(0)	UNSIGNED	4	REQUESTID	
(4)	UNSIGNED	1	RESPONSEFLAG	
	1111 111.		*	
	1		RESPONSEEXPECTED	
(5)	CHARACTER	3	*	

```
--------------------------------------------------------------!
Request Header .... continued Object Key - including Userkey !
                                                             !
Note, there are three valid formats of Object Key: !
                                                             !
1) JMBI !
                                                             !
  Magic | SCID | ServerID | ServerUUID | UserKeyOffset | !
  JMBI  |  4   |   4      |    16      |      4        | !
                                                             !
  UserKeyLength | UserKey !
       4        |   ?    !
                                                             !
2) KMBI !
                                                             !
  Magic | SCID | ServerID | UserKeyOffset | UserKeyLength | !
  KMBI  |  4   |   4      |      2        |      2        | !
                                                             !
UserKey !
   ?   !
                                                             !
3) LMBI !
                                                             !
Magic | SCID | ServerID | UserKeyOffset | FieldA_ Len | FieldA |!
  LMBI |  4   |   4      |      2        |      2      |   ?    |!
                                                             !
  .... | UserKeyLength | UserKey !
```

```
....  |  2  |  ?  !
                                                                   !
        ------------------------------------------------------------!
```

Table 307.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	OBJECTKEY	
(0)	UNSIGNED	4	OBJECTKEYLENGTH	
(4)	CHARACTER	4	OKMAGIC	
(8)	CHARACTER	33	*	
(8)	CHARACTER	33	JMBI	
(8)	UNSIGNED	4	SCIDJ	Must be x'00000014' !
(C)	CHARACTER	24	*	object key fields !
(24)	UNSIGNED	4	USERKEYLENGTHJ	bigendian !
(28)	CHARACTER	1	USERKEYJ	char(*) !
(8)	CHARACTER	13	KMBI	
(8)	UNSIGNED	4	SCIDK	Must be x'00000014' !
(C)	CHARACTER	6	*	object key fields !
(12)	UNSIGNED	2	USERKEYLENGTHK	bigendian !
(14)	CHARACTER	1	USERKEYK	char(*) !
(8)	CHARACTER	10	LMBI	
(8)	UNSIGNED	4	SCIDL	Must be x'00000014' !
(C)	CHARACTER	4	*	server ID !
(10)	UNSIGNED	2	USERKEYOFFSETL	

```
        ----------------------------------------------------------------
        GIOP 1.2 - Request Header continued - ObjectKey holder
        ----------------------------------------------------------------
```

Table 308.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TARGETADDRESS	
(0)	UNSIGNED	2	ADDRDISP	
(2)	UNSIGNED	2	*	
(4)	CHARACTER	*	TA_CONTENTS	
(4)	CHARACTER	5	OBJECT_KEY	addrDisp 0 = keyAddr
(4)	UNSIGNED	4	OBJKEYLEN	
(8)	CHARACTER	1	OBJKEYSTRING	
(4)	FULLWORD	4	TAGGEDPROFILE	addrDisp 1 = profileAddr
(4)	CHARACTER	*	IORADDRINFO	addrDisp 2 = Ref Addr
(4)	UNSIGNED	4	PROFILEINDEX	
(8)	UNSIGNED	4	TYPEIDLEN	

Table 308. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	CHARACTER	*	TYPEIDSTRING	

```
            Contents of taggedProfile (addrDisp 1) or !
                follows typeIdString (addrDisp 2) !
```

Table 309.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TAGGED_PROFILE	follows typeIdString
(0)	UNSIGNED	4	PROFILEID	
(4)	UNSIGNED	4	PROFILELEN	Len of rest of IOR
(8)	CHARACTER	1	PROFILEENDIAN	
(9)	CHARACTER	2	PROFILEVERSION	
(B)	CHARACTER	1	*	
(C)	UNSIGNED	4	HOSTLEN	
(10)	CHARACTER	*	HOSTSTRING	

Table 310.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	PROFILE_CONT	follows hostString !
(0)	UNSIGNED	2	IORPORT	
(2)	CHARACTER	*	OBJKEY	

```
    -----------------------------------------------------------------
    Request Header .... continued Operation
    -----------------------------------------------------------------
```

Table 311.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	OPERATION	
(0)	UNSIGNED	4	OPERATIONLENGTH	
(4)	CHARACTER	*	OPERATIONSTRING	May also have signature !

```
    -----------------------------------------------------------------
    The requestingPrincipal is full word aligned so the length of the
    operation is rounded up.
    -----------------------------------------------------------------
```

Table 312.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	REQUESTINGPRINCIPAL	
(0)	UNSIGNED	4	REQUESTINGPRINCIPALLENGTH	
(4)	CHARACTER	*	REQUESTINGPRINCIPALSTRING	

```
=================================================================
   Locate Request Header
   The Locate request header contains a requestId and objectKey.
   It follows the GIOP request header.
=================================================================
```

Table 313.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	LOCATEREQUESTHEADER	
(0)	UNSIGNED	4	LR_REQUESTID	
(4)	CHARACTER	4	LR_TARGETADDRESS	
(4)	FULLWORD	4	LR_OBJECTKEY	

```
=================================================================
   Locate Reply Header
   The Locate reply header contains a requestId and status.
=================================================================
```

Table 314.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	LOCATEREPLYHEADER	
(0)	UNSIGNED	4	LREP_REQUESTID	
(4)	UNSIGNED	4	LREPLY_STATUS	

Table 315.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	REPLY_RH	
(0)	UNSIGNED	4	REPLY_REQUESTID	
(4)	UNSIGNED	4	REPLY_STATUS	

Table 316.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	REPLYBODY	
(0)	UNSIGNED	4	REPLY_STRING_ LENGTH	
(4)	CHARACTER	18	REPLY_STRING_EX	
(16)	CHARACTER	*	REPLY_STRING	

Table 317.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	REPLYBODYEND	
(0)	UNSIGNED	4	MINOR_CODE_VALUE	
(4)	UNSIGNED	4	COMPLETION_ STATUS	

```
=================================================================
   Service contexts
   These occur in a request header and are optional.
```

```
    ================================================================
    ----------------------------------------------------------------
    Codesets context data
    ----------------------------------------------------------------
```

Table 318.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CODESETS	
(0)	UNSIGNED	4	CODESETID	
(4)	UNSIGNED	4	CODESETLENGTH	
(8)	CHARACTER	8	CODESETDATA	
(8)	UNSIGNED	4	CHARDATA	
(C)	UNSIGNED	4	WCHARDATA	

```
    ----------------------------------------------------------------
    CICS task tracking context (cttsc or ctt)
    Origin shows the first CICS system for each request.
    Current shows the previous CICS system for this request.
    Any changes to this structure must also be made to CMVC part
    CICSTaskTrackingContext.java.
    ----------------------------------------------------------------
```

Table 319.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	92	CICSTASKTRACKINGCONTEXT	
(0)	UNSIGNED	4	CTTID	
(4)	UNSIGNED	4	CTTLENGTH	
(8)	CHARACTER	84	CTTDATA	
(8)	UNSIGNED	1	CTTENDIAN	Big endian
(9)	CHARACTER	1	*	
(A)	UNSIGNED	2	CTTOLENGTH	
(C)	CHARACTER	80	ORIGIN	Connection and 1st request
(C)	UNSIGNED	1	CTTVERSION	
(D)	CHARACTER	15	CTTCLIENTIPADDR	
(1C)	CHARACTER	2	*	
(1E)	UNSIGNED	2	CTTLISTENERPORT	
(20)	CHARACTER	8	CTTAPPLID	specific applid
(28)	CHARACTER	4	CTTTRANID	
(2C)	UNSIGNED	4	CTTTRANNUM	in binary
(30)	UNSIGNED	4	CTTREQUESTID	
(34)	CHARACTER	1	*	
(35)	CHARACTER	39	CTTCLIENTIPADDR6	

```
    ----------------------------------------------------------------
    The current versions are named ctc... instead of ctt... to
    allow an assembler version to be generated.
```

```
                  Any changes to this structure must also be made to CMVC part
                  CICSTaskTrackingContext.java.
                  -----------------------------------------------------------------
```

Table 320.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	112	CURRENT	this request
(0)	UNSIGNED	1	CTCVERSION	
(1)	CHARACTER	1	*	Force alignment
(2)	UNSIGNED	2	CTCLISTENERPORT	
(4)	CHARACTER	8	CTCAPPLID	
(C)	CHARACTER	4	CTCTRANID	
(10)	UNSIGNED	4	CTCTRANNUM	in binary - word aligned
(14)	UNSIGNED	4	CTCREQUESTID	

	--- 	
	  Fields ctcTargetSystem, ctcLogicalServer and ctcStackCount,
	  though part of group current, are actually updated by
	  subsequent requests and really are control fields.
	  --- 				

(18)	FULLWORD	4	CTCSTACKCOUNT	Stack count
(1C)	CHARACTER	4	CTCLOGICALSERVER	Name of Logical server
(20)	CHARACTER	50	CTCTARGETSYSTEM	Target System
(52)	CHARACTER	2	*	spare bytes
(54)	CHARACTER	28	CTCTXNGROUPID	Transaction group id

```
                  -----------------------------------------------------------------
                  CICS connection context (ccc)
                  Added to each request before request stream CREATE or JOIN.
                  -----------------------------------------------------------------
```

Table 321.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CICSCONNECTIONCONTEXT	
(0)	UNSIGNED	4	CCCID	
(4)	UNSIGNED	4	CCCLENGTH	
(8)	CHARACTER	24	CCCDATA	
(8)	UNSIGNED	1	CCCENDIAN	Big endian
(9)	UNSIGNED	1	CCCVERSION	
(A)	UNSIGNED	1	CCCAUTHTYPE	NO = 00, CERTIFICATE = 05 ASSERTED = 03
(B)	BIT(8)	1	CCCCREATEJOIN	CREATE = 01, JOIN = 02
(C)	CHARACTER	12	CCCVALIDATIONHASH	hashed TCPIPSERVICE parms
(18)	CHARACTER	8	CERTIFICATE	

Table 321. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	FULLWORD	4	CCCCERTIFICATELENGTH	
				0 if no certificate
(1C)	CHARACTER	4	CCCCERTIFICATE	Actually v leng
(1C)	FULLWORD	4	CCCKPL	for JOIN when both 0

Table 322.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CCCKERBEROSPRINCIPAL	
(0)	FULLWORD	4	CCCKERBEROSPRINCIPALLENGTH	
				0 if no KP.
(4)	CHARACTER	*	CCCKERBEROSPRINC	

```
-------------------------------------------------------------------
Basic Authentication Security Context
-------------------------------------------------------------------
```

Table 323.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BASICAUTHSECURITYCONTEXT	
(0)	UNSIGNED	4	BASID	IBM0C
(4)	UNSIGNED	4	BASLENGTH	
(8)	CHARACTER	*	BASDATA	
(8)	UNSIGNED	1	BASENDIAN	
(9)	CHARACTER	3	*	
(C)	UNSIGNED	4	BASMECHANISMTYPELENGTH	
(10)	CHARACTER	4	BASMECHANISMTYPE	Must be SSLnull
(14)	UNSIGNED	1	BASMSGTYPE	assoc_mutual_auth etc
(15)	UNSIGNED	1	BASVERSIONMINOR	
(16)	UNSIGNED	1	BASVERSIONMAJOR	
(17)	CHARACTER	1	*	
(18)	UNSIGNED	4	BASSEQUENCENUMBER	
(1C)	UNSIGNED	4	BASSESSIONIDLENGTH	
(20)	CHARACTER	*	BASSESSIONIDSTRING	

Table 324.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BASHOSTNAME	
(0)	UNSIGNED	4	BASHOSTNAMELENGTH	
(4)	CHARACTER	*	BASHOSTNAMESTRING	

Table 325.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BASSECNAME	
(0)	CHARACTER	*	*	
(0)	CHARACTER	2	BASASSOCERROR	
(0)	UNSIGNED	2	BASERRORCODE	
(0)	CHARACTER	*	BASSECNAME_ FIELD	
(0)	UNSIGNED	4	BASSECURITYNAMELENGTH	
(4)	CHARACTER	*	BASSECURITYNAMESTRING	
				Userid in Ascii

Table 326.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BASPASSWORD	
(0)	UNSIGNED	4	BASPASSWORDLENGTH	
(4)	CHARACTER	*	BASPASSWORDSTRING	Password in Ascii

```
-------------------------------------------------------------------
    Asserted Identity Security Context
-------------------------------------------------------------------
```

Table 327.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	AISECURITYCONTEXT	
(0)	UNSIGNED	4	AIID	IBM16 !
(4)	UNSIGNED	4	AILENGTH	
(8)	CHARACTER	*	AIDATA	
(8)	UNSIGNED	1	AIENDIAN	
(9)	UNSIGNED	1	AIVERSIONMAJOR	
(A)	UNSIGNED	1	AIVERSIONMINOR	
(B)	UNSIGNED	1	AIMSGTYPE	assoc_asserted_identity ..
(C)	UNSIGNED	4	AICREDTYPE	SSL Client authType - 2
(10)	UNSIGNED	4	AIIDENTITYLENGTH	
(10)	UNSIGNED	4	AIERRORCODE	
(14)	CHARACTER	*	AIIDENTITYSTRING	userid

Table 328.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	AIOPTCRED	
(0)	UNSIGNED	4	AIOPTCREDLENGTH	
(4)	CHARACTER	*	AIOPTCREDSTRING	not used by CICS !

```
-------------------------------------------------------------------
Kerberos Security Context
-------------------------------------------------------------------
```

Table 329.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	KERBEROSSECURITYCONTEXT	
(0)	UNSIGNED	4	KERID	IBM18 !
(4)	UNSIGNED	4	KERLENGTH	
(8)	CHARACTER	*	KERDATA	
(8)	UNSIGNED	1	KERENDIAN	
(9)	UNSIGNED	1	KERVERSIONMAJOR	
(A)	UNSIGNED	1	KERVERSIONMINOR	
(B)	CHARACTER	1	*	
(C)	UNSIGNED	4	KERGSSAPIMAJORRC	
(10)	UNSIGNED	4	KERGSSAPIMINORRC	
(14)	UNSIGNED	4	KERIBMSTATUS	
(18)	UNSIGNED	4	KERSESSIONIDLENGTH	
(1C)	CHARACTER	*	KERSESSIONIDSTRING	

Table 330.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	KERGSSAPITOKEN	
(0)	UNSIGNED	4	KERGSSAPITLENGTH	
(4)	CHARACTER	*	KERGSSAPITSTRING	

```
-------------------------------------------------------------------
CSIv2 Security Context
-------------------------------------------------------------------
```

Table 331.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CSIV2SECURITYCONTEXT	
(0)	UNSIGNED	4	CSIV2ID	x'0000000F' !
(4)	UNSIGNED	4	CSIV2LENGTH	
(8)	CHARACTER	*	CSIV2DATA	
(8)	UNSIGNED	1	CSIV2ENDIAN	
(9)	UNSIGNED	1	*	
(A)	UNSIGNED	2	CSIV2CONTENTTYPE	x'00' = EstablishMessage !
(C)	CHARACTER	4	*	
(10)	UNSIGNED	4	CSIV2CONTEXTIDH	unused by CICS !
(14)	UNSIGNED	4	CSIV2CONTEXTIDL	unused by CICS !
(18)	UNSIGNED	4	CSIV2NUMAUTHTOKENS	

Table 331. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				not supported by CICS !
(1C)	CHARACTER	*	CSIV2AUTHTOKENSTRT	

Table 332.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CSIV2AUTHTOKEN	
(0)	UNSIGNED	4	CSIV2AUTHTOKENTYPE	
(4)	UNSIGNED	4	CSIV2AUTHTOKENLEN	If present, must be zero !
(8)	CHARACTER	*	CSIV2AUTHTOKENDATA	

Table 333.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CSIV2SECURITYCONTEXTPART2	
(0)	UNSIGNED	4	CSIV2IDTYPE	x'02' = ITTPrincipalName !
(4)	UNSIGNED	4	CSIV2IDTOKENLEN	
(8)	UNSIGNED	1	CSIV2ENDIAN2	
(9)	UNSIGNED	3	*	
(C)	UNSIGNED	4	CSIV2GSSLEN	
(10)	CHARACTER	2	CSIV2GSSHEADER	must be x'0401' !
(12)	UNSIGNED	2	CSIV2OIDLEN	
(14)	CHARACTER	*	CSIV2OID	

Table 334.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CSIV2SECURITYCONTEXTPART3	
(0)	UNSIGNED	4	CSIV2PRINCIPALLEN	
(4)	CHARACTER	*	CSIV2PRINCIPAL	

Constants

Table 335.

Len	Type	value	Name	Description
CSIv2 Constants				
2	DECIMAL	0 :c 4.CSIV2ESTABLISHMESSAGE		
4	DECIMAL	2 :c 4.CSIV2ITTPRINCIPALNAME		
2	CHAR HEX	0401	CSIV2GSSUP	

Table 335. (continued)

Len	Type	value	Name	Description
8	CHAR HEX	0606678102010101	CSIV2GSSUP_OID	
Inserts for the II1040 message !				
1	DECIMAL	1	II1040_NOTESTABLISH	
1	DECIMAL	2	II1040_AUTHTOKENS	
1	DECIMAL	3	II1040_BADIDTYPE	
1	DECIMAL	4	II1040_BADOID	
1	DECIMAL	5 :c 4.II1040_TOOMANYAUTHTOKENS		
1	DECIMAL	6 :c 4.II1040_AUTHTOKENLENTOOLONG		
== Constants == -- GIOP Header - messageType values. --				
1	DECIMAL	0	GIOPREQUEST	
1	DECIMAL	1	GIOPREPLY	
1	DECIMAL	2	GIOPCANCELREQUEST	
1	DECIMAL	3	GIOPLOCATEREQUEST	
1	DECIMAL	4	GIOPLOCATEREPLY	
1	DECIMAL	5	GIOPCLOSECONNECTION	
1	DECIMAL	6	GIOPMESSAGEERROR	
1	DECIMAL	7	GIOPFRAGMENT	
-- GIOP Header - values --				
4	DECIMAL	12	GIOPHEADER_LEN	
1	DECIMAL	1	MAJOR_VERSION_1	
1	DECIMAL	2	MINOR_VERSION_2	
-- Reply_status values --				
1	DECIMAL	0	NO_EXCEPTION	
1	DECIMAL	1	USER_EXCEPTION	
1	DECIMAL	2	SYSTEM_EXCEPTION	
1	DECIMAL	3	LOCATION_FORWARD	
1	DECIMAL	4	LOCATION_ FORWARD_PERM	
1	DECIMAL	5	NEEDS_ADDRESSING_ MODE	
-- Locate Reply status values ! --				

Table 335. (continued)

Len	Type	value	Name	Description
1	DECIMAL	0	UNKNOWN_OBJECT	
1	DECIMAL	1	OBJECT_HERE	
1	DECIMAL	2	OBJECT_FORWARD	
1	DECIMAL	3	OBJECT_FORWARD_PERM	
1	DECIMAL	4	LOC_SYSTEM_EXCEPTION	
1	DECIMAL	5	LOC_NEEDS_ ADDRESSING_MODE	
--- reply completion values ---				
1	DECIMAL	0	COMPLETED_YES	
1	DECIMAL	1	COMPLETED_NO	
1	DECIMAL	2	COMPLETED_MAYBE	
--- cccCreateJoin constants ---				
1	DECIMAL	1	CCC_CREATED	
1	DECIMAL	2	CCC_JOINED	
--- General constants for security contexts ---				
4	CHAR HEX	53534C00	MTYPE_SSL	ASCII SSLnull
1	DECIMAL	1	BASSUPPORTEDVERSION	
1	DECIMAL	1	AISUPPORTEDVERSION	
1	DECIMAL	1	KERSUPPORTEDVERSION	
1	DECIMAL	2	AIMVSCRED	MVS credential
--- Constants for Basic Auth and Asserted Identity msgType ---				
1	DECIMAL	0	ASSOC_TARGET_AUTHN	
1	DECIMAL	1	ASSOC_CLIENT_AUTHN	
1	DECIMAL	2	ASSOC_MUTUAL_AUTHN	
1	DECIMAL	3	ASSOC_CONTINUE_AUTHN	
1	DECIMAL	4	ASSOC_ACCEPT	
1	DECIMAL	5	ASSOC_REJECT	
1	DECIMAL	6	ASSOC_COMPLETE	
1	DECIMAL	7	ASSOC_SOURCE_ERROR	
1	DECIMAL	8	ASSOC_ASSERTED_ IDENTITY	
1	DECIMAL	9	ASSOC_AI_WITH_OT	

Table 335. (continued)

Len	Type	value	Name	Description
\- Constants for Basic Auth assoc_reject errorCode In JAVA they are prefixed with ASSOC_FAIL_REASON_ \-				
2	DECIMAL	1	PASSWORD_UNAUTH	
2	DECIMAL	2	USERID_UNDEFINED	
2	DECIMAL	3	PASSWORD_EXPIRED	
2	DECIMAL	4	ACCOUNT_LOCKED	
2	DECIMAL	5	USERID_FORMAT_ERROR	
2	DECIMAL	6	USERID_APPL_NOTAUTH	
2	DECIMAL	7	INVALID_LOGIN_INFO	
\- Constants for Asserted Identity assoc_reject errorCode \-				
2	DECIMAL	3	AI_CLIENT_NOTAUTH	
2	DECIMAL	4	AI_INVALID_VERSION	
2	DECIMAL	5	AI_USERID_NOT_VALID	
\- Constants for Basic Auth and Asserted Identity errorCodes In JAVA they are prefixed with ASSOC_FAIL_REASON_ \-				
2	NUMB HEX	2048	ESM_INACTIVE	
2	NUMB HEX	2049	ESM_UNKNOWN_RC	
2	NUMB HEX	2050	INTERNAL_ERROR	
2	NUMB HEX	2051	NOT_SUPPORTED	
2	NUMB HEX	2052	DUP_SESSIONID	
2	NUMB HEX	2053	INVALID_VERSION	
2	NUMB HEX	2054	INVALID_SESSIONID	
2	NUMB HEX	2055	INVALID_MSGTYPE	
2	NUMB HEX	2056	INVALID_CONTENT	
2	NUMB HEX	2057	KP_LEN_ERR	
\- Constants for Kerberos kerIBMStatus \-				
4	NUMB HEX	55550001	KER_ESM_INACTIVE	
4	NUMB HEX	55550002	KER_KDC_INACTIVE	
4	NUMB HEX	55550003	KER_KDC_BUSY	
4	NUMB HEX	55550004	KER_UNKNOWN_ ESM_ERROR	
4	NUMB HEX	55550005	KER_NOTAUTH	
4	NUMB HEX	55550006	KER_NON_KER_REGION	
4	NUMB HEX	55550007	KER_TICKET_EXPIRED	

Table 335. (continued)

Len	Type	value	Name	Description
4	NUMB HEX	55550008	KER_USERID_REVOKED	
4	NUMB HEX	55550009	KER_INV_PRINC_NAME	
4	NUMB HEX	5555000A	KER_INVALID_TOKEN	
4	NUMB HEX	5555000B	KER_UNK	
4	NUMB HEX	5555000C	KER_INV_CONTEXT	
4	NUMB HEX	5555000D	KER_DUP_SESS	
4	NUMB HEX	5555000E	KER_NF_SESS	
4	NUMB HEX	5555000F	KER_KP_LEN_ERR	
4	NUMB HEX	55550010	KER_INVALID_VERSION	
		--- Constant values for the object key ---		
4	HEX	00000010	FIRSTIBMSCID	
4	HEX	00000012	OBJECTRESOLVERSCID	Extended
4	HEX	00000014	CICSSCID	
4	HEX	00000024	USERKEYOFFSETVALUE	
		--- Constants for tagged profile ---		
4	DECIMAL	0	TAGGED_INTERNET_ PROFILE	
		--- ContextId constants Service contexts exist at the beginning of a request header. Their general form is as follows: ---		
4	NUMB HEX	00000000	TRANSACTIONSERVICE	
4	NUMB HEX	00000001	CODESETSERVICE	
4	NUMB HEX	00000002	CHAINBYPASSCHECK	
4	NUMB HEX	00000003	CHAINBYPASSINFO	
4	NUMB HEX	00000004	LOGICALTHREADID	
4	NUMB HEX	00000005	BI_DIR_IIOP	
4	NUMB HEX	00000006 :c 4.SENDINGCONTEXTRUNTIME		
4	NUMB HEX	00000007	INVOCATION_POLICIES	
4	NUMB HEX	00000008	FORWARDED_IDENTITY	
4	NUMB HEX	00000009	UNKNOWNEXCEPTIONINFO	
4	NUMB HEX	00000010	ACTIVITYSERVICE	
4	HEX	49424D14 :c 4.CICSTASKTRACKINGCONTEXTID		
				IBM20
4	HEX	49424D15 :c 4.CICSCONNECTIONCONTEXTID		

Table 335. (continued)

Len	Type	value	Name	Description
				IBM21
4	HEX	49424D17 :c 4.CICSREDIRECTIONCONTEXTID		
				IBM22
4	HEX	49424D1A :c 4.CICSREALIGNMENTCONTEXTID		
				IBM26
4	HEX	49424D0C	BASCONTEXTID	
4	HEX	49424D18	KERCONTEXTID	
4	HEX	49424D16	AICONTEXTID	
4	HEX	0000000F	CSIV2CONTEXTID	
-- Codeset constants --				
4	HEX	00010020	ASCII	
4	HEX	00010100	UNICODE	

IIRDS Requestmodel Statistics

```
        CONTROL BLOCK NAME = DFHIIRDS
        DESCRIPTIVE NAME  = CICS ....
           @BANNER_START 02

                             DFHIIRDS
           Licensed Materials - Property of IBM
           "Restricted Materials of IBM"
           5655-S97
           @BANNER_END
        FUNCTION =
             This data area contains the Requestmodel statistics
             provided by the II Domain.
             It is provided for use in users monitoring applications
             to map the statistics returned via the API or the
             statistics global user exit.
             There is a single instance of this data block.
        LIFETIME =
             This data block is created by the II Domain to store
             statistics to be passed to the user in response to a
             for Requestmodel statistics. The storage is released
             when the user task is detached.
             The DSECT also maps the contents of part of the SMF buffer
             created by the statistics domain and is used in the
             statistics exit.
        STORAGE CLASS =
        LOCATION =
             The user is passed a pointer to the head of the storage
             block.
        INNER CONTROL BLOCKS = None
        NOTES :
           DEPENDENCIES = S/370
           RESTRICTIONS = None
           MODULE TYPE = Control block definition
        ------------------------------------------------------------------
```

Table 336.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHIIRDS	Requestmodel Resid stats record
(0)	HALFWORD	2	IIRDS_LEN	Requestmodel stats record length
(2)	ADDRESS	2	IIRDS_ID	Requestmodel stats id
(4)	CHARACTER	1	IIRDS_VERS	Requestmodel stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	IIR_REQUESTMODEL_NAME	
				Requestmodel name
(10)	CHARACTER	4	IIR_CORBASERVER_NAME	
				CORBAServer name
(14)	CHARACTER	4	IIR_TRANSACTION_ID	Transaction id
(18)	BITSTRING	4		Reserved
(1C)	CHARACTER	255	IIR_RQMODEL_MODULE	Requestmodel Module
(11B)	CHARACTER	255	IIR_RQMODEL_INTERFACE	
				Requestmodel Interface
(21A)	CHARACTER	255	IIR_RQMODEL_OPERATION	
				Requestmodel Operation
(319)	BITSTRING	3		Reserved
(31C)	CHARACTER	240	IIR_RQMODEL_BEAN_NAME	
				Requestmodel Bean name
(40C)	BITSTRING	16		Reserved
(41C)	BITSTRING	1	IIR_RQMODEL_TYPE	Requestmodel type
(41D)	BITSTRING	1	IIR_RQMODEL_INTERFACE_TYPE	
				Interface type
(41E)	BITSTRING	2		Reserved
(420)	BITSTRING	4		Reserved
(424)	CHARACTER	8	IIR_DEFINE_SOURCE	Group installed from
(42C)	BITSTRING	8	IIR_CHANGE_TIME	Change/create time
(434)	CHARACTER	8	IIR_CHANGE_USERID	Change userid
(43C)	BITSTRING	2	IIR_CHANGE_AGENT	Change agent

Table 336. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(43E)	BITSTRING	2	IIR_INSTALL_AGENT	Install agent
(440)	BITSTRING	8	IIR_INSTALL_TIME	Install/Create time
(448)	CHARACTER	8	IIR_INSTALL_USERID	Install userid
(450)	CHARACTER	8		Reserved
(450)		0	IIRDS_END	"*"
(450)		0	IIRDS_LENGTH	"*-IIRDS_LEN" Requestmodel record length
Constants that denote a II Requestmodel stats record				
(450)	SIGNED	0	IIRIDR	"111" Requestmodel resid stats id
(450)	BITSTRING	0	IIR_VERS	"X'01'" Record version number
(450)	BITSTRING	0	IIR_RQM_TYPE_EJB	"X'01'" TYPE = EJB
(450)	BITSTRING	0	IIR_RQM_TYPE_CORBA	"X'02'" TYPE = CORBA
(450)	BITSTRING	0	IIR_RQM_TYPE_GENERIC	
				"X'03'" TYPE = GENERIC
	....		IIR_RQM_NOTAPPLIC	"X'00'" INTFACETYPE = NOT APPLICABLE
(450)	BITSTRING	0	IIR_RQM_HOME	"X'01'" INTFACETYPE = HOME
(450)	BITSTRING	0	IIR_RQM_REMOTE	"X'02'" INTFACETYPE = REMOTE
(450)	BITSTRING	0	IIR_RQM_BOTH	"X'03'" INTFACETYPE = BOTH
Equates to test change agent for RQmodel (IIR_CHANGE_AGENT).				
(450)	SIGNED	0	IIR_CSDAPI_CHANGE	"0001" CSD API
(450)	SIGNED	0	IIR_CSDBATCH_CHANGE	
				"0002" DFHCSDUP
(450)	SIGNED	0	IIR_DREPAPI_CHANGE	"0003" DREP API
(450)	SIGNED	0	IIR_CREATE_CHANGE	"0004" EXEC CREATE SPI
Equates to test install agent for RQmodel (IIR_INSTALL_AGENT).				
(450)	SIGNED	0	IIR_CSDAPI_INSTALL	"0001" CSD API
(450)	SIGNED	0	IIR_CREATE_INSTALL	"0004" EXEC CREATE SPI

Table 336. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(450)	SIGNED	0	IIR_GRPLIST_ INSTALL	
				"0005" GRPLIST

XOPUS commarea *NQA

```
====================================================================
    @BANNER_START 02
                        DFHIIURC
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
    This copy book includes the following areas.
      sXOPUS - security URM commarea
--------------------------------------------------------------------
====================================================================
====================================================================
    sXOPUS -
    This block is created by DFHIIRH and used as input (in the C
    version) to DFHXOPUS or the customer IIOP security URM.
    The C version is contained in DFHIIURH which must be kept in
    step with this version.
====================================================================
====================================================================
    sXOPUS - Request Receive Security URM - default DFHXOPUS
    This block contains the COMMAREA obtained by DFHIIRR,
    completed by DFHIIRH and used as input the security URM called
    by DFHIIRH. It is deleted by DFHIIRR before the transaction
    instance terminates.
    The block is obtained from the IIGENRAL subpool.
    Lengths of data contained in the message buffer such as lIIOPDATA
    and LRequestBody are the lengths available in the IIOP buffer.
    It is possibly, but very unlikely, that the fields are partially
    or wholly in the buffer extension pIIOPData_extension.
    If a field does not exist its pointer and length will be 0.
====================================================================
```

Table 337.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	84	SXOPUS	
(0)	CHARACTER	4	STANDARD_HEADER	
(0)	CHARACTER	1	FUNCTION	
(1)	CHARACTER	2	DOMAIN	II
(3)	CHARACTER	1	*	Reserved
(4)	ADDRESS	4	PIIOPDATA	IIOP buffer unconverted
(8)	UNSIGNED	4	LIIOPDATA	Length of IIOP data within this block.
(C)	ADDRESS	4	PREQUESTBODY	Addr of request body
(10)	UNSIGNED	4	LREQUESTBODY	Length of request body within this block .

Table 337. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	CHARACTER	4	CORBASERVER	Name of Corba Server Both
(18)	ADDRESS	4	PBEANNAME	Addr Bean Name in EBCDIC EJB
(1C)	UNSIGNED	4	LBEANNAME	
(20)	UNSIGNED	4	BEANINTERFACETYPE	Enumerated value EJB
(24)	ADDRESS	4	PMODULE	Addr Module in EBCDIC CORBA
(28)	UNSIGNED	4	LMODULE	
(2C)	ADDRESS	4	PINTERFACE	Addr Interface in EBCDIC CORBA
(30)	UNSIGNED	4	LINTERFACE	
(34)	ADDRESS	4	POPERATION	Addr Operation in EBCDIC Both
(38)	UNSIGNED	4	LOPERATION	
(3C)	CHARACTER	8	USERID	IN/OUT
(44)	CHARACTER	4	TRANSID	Input only
(48)	CHARACTER	4	FLAG_BYTES	Indicating byte-order etc.
(48)	UNSIGNED	1	LITTLEENDIAN	1-TRUE, 0-FALSE
(49)	UNSIGNED	1	SSLCLIENTUSERID	0 - USERID set from CICS DFLTUSER 1 - USERID set from ssl certificate
(4A)	UNSIGNED	2	RESERVED	reserved
(4C)	FULLWORD	4	RETURN_CODE	Return code
(50)	FULLWORD	4	REASON_CODE	Reason code

Constants

Table 338.

Len	Type	value	Name	Description
--- Constant values for sslClientUserid showing derivation of userid. ---				
1	DECIMAL	0	FROM_DEFAULT_USERID	
1	DECIMAL	1	FROM_SSL	
--- Constant values for return_code ---				
1	DECIMAL	0	NO_PERMISSION	
1	DECIMAL	0	RETCOD0	Name to match DFHXOPUS

Table 338. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	RCUSRID	name to match DFHXOPUS

IMSDS Function request shipping message

```
                         CONTROL BLOCK NAME = DFHIMSDS
                         DESCRIPTIVE NAME  = CICS Function Request Shipping Message
                                            Insert Area.
                         @BANNER_START 02

                                         DFHIMSDS
                         Licensed Materials - Property of IBM
                         "Restricted Materials of IBM"
                         5655-S97
                         @BANNER_END
                         FUNCTION =
                                 Description of message insert information chained off
                                 ISC TCTTE during session failure while in doubt.
                         LIFETIME =
                         STORAGE CLASS =
                         LOCATION =
                         INNER CONTROL BLOCKS =
                         NOTES :
                            DEPENDENCIES = S/370
                            RESTRICTIONS =
                            MODULE TYPE = Control block definition
                         -------------------------------------------------------------------
                         EXTERNAL REFERENCES =
                             DATA AREAS =
                             CONTROL BLOCKS =
                             GLOBAL VARIABLES (Macro pass) =
                         -------------------------------------------------------------------
```

Table 339.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHIMSDS	
(0)	FULLWORD	4		SAA (CLASS=CONTROL)
(4)	ADDRESS	4	(10)	Parm address list for MGP
(2C)	BITSTRING	6	ISMDESC	Message descriptor for MGP
(32)	ADDRESS	2		Reserved
(2E)	HALFWORD	2	ISMMSGNO	Message number
(34)	CHARACTER	6	ISMISTM	LL & ISC terminal
(3A)	CHARACTER	6	ISMRSYS	LL & remote system id
(40)	CHARACTER	6	ISMTRAN	LL & transaction id
(46)	CHARACTER	6	ISMOPTM	LL & operator's terminal
(4C)	CHARACTER	5	ISMOPID	LL & operator id
(51)	CHARACTER	7	ISMTKNO	LL & task number (packed)
(58)	CHARACTER	11	ISMTIME	LL & time hh:mm:sss

Table 339. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(63)	CHARACTER	4	ISMMODID	LL & module id
(67)	CHARACTER	41	ISMUOWID (0)	Full formatted UOW id def
(67)	HALFWORD	2	ISMUWLEN	UOW length excluding this field
(69)	CHARACTER	17	ISMUWLUN	LU name (NB variable length)
NB The offsets of the following fields will be different if the length of the variable length field ISMUWLUN is less than 17.				
(7A)	CHARACTER	3	ISMUWC1	A constant
(7D)	CHARACTER	0	ISMUWTKN	Token
(89)	CHARACTER	2	ISMUWC2	A constant
(8B)	CHARACTER	5	ISMUWSEQ	Sequence number
(8B)		0	ISMEND	"*"
(34)		0	ISMKPL	"ISMEND-*" Length to be keypointed
(34)	CHARACTER	1	ISMKP	Bytes to be keypointed
(34)		0	ISMLEN	"ISMEND-DFHIMSDS" Dsect length

IRRDS Interregion Session Recovery

```
CONTROL BLOCK NAME = DFHIRRDS
DESCRIPTIVE NAME  = CICS Interregion Session Recovery
                        Data Stream.
FUNCTION =
        This DSECT describes the datastream sent by both primary
        and secondary at the start of an IRC session. The datastream
        is used to perform session recovery immediately after a
        new IRC connection has been established between two
        systems.
```

Table 340.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHIRRDS	
(0)	BITSTRING	1	IRRSTRT (0)	START
(0)	BITSTRING	4	IRFLGS (0)	FLAGS
(0)	BITSTRING	1	IRFLG1	FLAG BYTE 1
(0)	BITSTRING	0	IRFLGFX	"X'80'" .. FAST PATH XFORMER SUPPORTED
(0)	BITSTRING	0	IRFLFACC	"X'40'" .. Revised State-after-Rollback rules are required

Table 340. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	BITSTRING	0	IRFLBSND	"X'20'" .. Sender is 'new batch'
(0)	BITSTRING	0	IRFLBREJ	"X'10'" .. Sender is non-batch connection reject
(0)	BITSTRING	0	IRFLCONT	"X'08'" .. More bind data after IRLEN (see IRCONT DSECT below)
(0)	BITSTRING	0	IRFLRSYN	"X'04'" .. Sender is capable of new (LU62-style) resync
(0)	BITSTRING	0	IRFLFCTK	"X'02'" .. Sender can handle FC Tokens
(0)	BITSTRING	0	IRFRRS	"X'01'" .. Sender supports transactional EXCI
(1)	BITSTRING	1	IRFLG2	
(1)	BITSTRING	0	IRFLRTST	"X'80'" .. Routable START support
(1)	BITSTRING	0	IRFLRQST	"X'40'" .. Requeststreams
(1)	BITSTRING	0	IRFLCHAN	"X'20'" .. Sender can handle Channels
(1)	BITSTRING	0	IRFLEWLM	"X'10'" .. Sender can handle EWLM correlators
(1)	BITSTRING	0	IRFLTXBK	"X'08'" .. TEXCI BACKOUT AFTER ABEND
EQU X'04' Reserved – Do not use				
(1)	BITSTRING	0	IRFLICRX	"X'02'" .. Sender can handle ICRX's
(1)	BITSTRING	0	IRFLODRP	"X'01'" .. Sender can handle Origin Data
(2)	BITSTRING	2		RESERVED
(4)	BITSTRING	4	IRRELNO	SENDER'S RELEASE LEVEL (SAME FORMAT AS ISC RLSE NO IN USER AREA IN BIND)
(8)	CHARACTER	4	IRSNAM	SENDER'S NAME
(C)	CHARACTER	4	IRRNAM	NAME TO WHICH SENDER WAS CONNECTED IN PREV. SESSION (BLANKS IF NONE OR UNKNWN)

Table 340. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	BITSTRING	2	IRLONO	LOGICAL OUTBOUND SEQUENCE NO. AT END OF LAST SESSION (ZEROS IF COLD-STARTED)
(12)	BITSTRING	2	IRLINO	LOGICAL OUTBOUND SEQUENCE NO. AT END OF LAST SESSION (ZEROS IF COLD-STARTED)
(12)		0	IRLEN	"*-IRRSTRT" LENGTH OF DATASTREAM

```
The IRCONT DSECT describes a bind continuation element.
The presence of such an element is signalled by the
setting of the IRFLCONT flag in IRFLGS (see the DFHIRRDS
DSECT above). The element appears immediately after
the bind data (ie at offset IRLEN from DFHIRRDS).
```

Table 341.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	IRCONT	
(0)	HALFWORD	2	IRCONT_LTH	lth of data item (including lth field itself)
(2)	HALFWORD	2	IRCONT_TYPE	type of data item
(2)	BITSTRING	0	IRCONT_JOBID	"X'01'" type value for jobid data item
(2)	BITSTRING	0	IRCONT_XLN	"X'02'" type value for bind XLN data
(4)	BITSTRING	1	IRCONT_DATA (0)	start of data proper
(2)	BITSTRING	1	IRCONT_FLAG	flag at start of type field
(2)	BITSTRING	0	IRCONT_MORE	"X'80'" IRCONT_FLAG value indicating presence of another data item

IRC Interregion control blocks

```
CONTROL BLOCK NAME = DFHIRSPS
DESCRIPTIVE NAME  = CICS Interregion Control Blocks
 @BANNER_START 02
                     DFHIRSPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
    Descriptions of all inter-region communication control
```

```
            blocks which are visible to the subsystem level of
            inter-region communication.
                  The control blocks defined are:
            SLCB Subsystem Logon Control Block
            SCCB Subsystem Connection Control Block
            SCACB(E) Subsystem Connection Address Control Block
      NOTES :
       DEPENDENCIES = S/370
       RESTRICTIONS = N/A
       MODULE TYPE = Control block definition
                  Subsystem Logon Control Block
            This DSECT describes the format of the SLCB which is the
            control block that contains the information relevant to
            the logon session which is of interest to the sybsystem
            level of inter-region communication.
            First define the format of the fields in the SLCB.
```

Table 342.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	SLCB	
(0)	FULLWORD	4	SLCBLECB	Logon (Master) ECB
(4)	FULLWORD	4	SLCBSCAC	SCACB Address
(8)	CHARACTER	4	SLCBSTTS	Status bytes
(8)	CHARACTER	1	SLCBSTS1	Status byte 1
FLAGS IN STATUS BYTE 1: LCBSTTS1 OR SLCBSTS1				
	1...		LCBFAM31	'80'X User of LCB is AMODE(31)
	.1..		LCBFQUIP	'40'X Normal quiesce in progress
	..1.		LCBFQUIM	'20'X Immediate quiesce
	...1		LCBFSPST	'10'X System Post
	.... 1...		LCBFBTCH	'08'X Batching of opsys
	.... .1..		LCBFBTCP	'04'X Batch=Postexit
	.... ..1.		LCBFBEXL	'02'X Exit Loaded
	1		LCBFUNIQ	'01'X LCB corresponds to a UNIQUE user
(9)	CHARACTER	1	SLCBSTS2	Status byte 2
FLAGS IN STATUS BYTE 2: LCBSTTS2 OR SLCBSTS2				
	1...		LCBFNWCN	'80'X New connector: scan ECBs
	.1..		LCBFQUCM	'40'X Quiesce complete
	..1.		LCBFSWFS	'20'X Switch First received
	...1		LCBFDSCR	'10'X Disconnect received
	.... 1...		LCBFJOIN	'08'X IXCJOIN may have been done

Table 342. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		LCBFLVIP	'04'X IXCLEAVE in flight
	11		*	Reserved
(A)	BIT(8)	1	SLCBSTS3	Status byte 3
(B)	CHARACTER	1	SLCBSTS4	Status byte 4
FLAGS IN STATUS BYTE 4: LCBSTTS4 OR SLCBSTS2				
	1...		LCBSRBSE	'80'X Serialization with work queue processor
	.111 1111		*	Reserved
(C)	ADDRESS	4	SLCBLCB	Address of LCB

```
              Subsystem Connection Control Block
         This DSECT defines the SCCB, the control block which
         contains the information about a particular connection
         which can be accessed by the subsystem level of inter-
         region communication function.
         First define the format of the fields in the SCCB.
```

Table 343.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	96	SCCB	
(0)	FULLWORD	4	SCCBDECB	Dependent ECB
(4)	FULLWORD	4	SCCBTHNM	Thread number
(8)	FULLWORD	4	SCCBTHID	Thread identification
(C)	CHARACTER	4	SCCBSTAT	Status bytes
(C)	CHARACTER	1	SCCBSTS1	Status byte 1
	1...		CCBFNWCN	'80'X New connecter
	.1..		*	'40'X Was CCBFCNTR - now reserved
	..1.		CCBFSWDT	'20'X Data passed with switch
	...1		CCBFSWFS	'10'X Switch First received
	.... 1...		CCBFDTNF	'08'X Data doesn't fit
	.... .1..		CCBFDWP	'04'X Disconnect when possible
	.... ..1.		CCBFSWIT	'02'X Invalid target for switch
	.... ..1.		CCBFUNEX	'02'X Unexpected failure in SRB/subtask
	1		CCBIRCWT	'01'X This side is waiting for a session recovery response from the other side.
(D)	CHARACTER	1	SCCBSTS2	Status byte 2

Table 343. (continued)

Offset Hex	Type	Len	Name (dim)	Description
FLAGS IN STATUS BYTE 2:				
	1...		CCBFTERM	'80'X Other side terminated normally
	.1..		CCBFABTM	'40'X Other side terminated abnormally
	..1.		CCBFABTQ	'20'X Abnormal termination due to Quiesce
	...1		CCBFCNCT	'10'X The connection is currently connected
	.... 1...		CCBFFTRM	'08'X Other side's normal disc. requests FORGET
	.... .1..		CCBNOTFY	'04'X Notify request
(E)	BIT(8)	1	SCCBSTS3	Status byte 3
	1...		CCBFPRIM	'80'X This is a primary SCCB
(F)	BIT(8)	1	SCCBSTS4	Status byte 4
(10)	FULLWORD	4	SCCBDLTH	Total length of data passed
(14)	FULLWORD	4	SCCBSLTH	Target area length
(18)	ADDRESS	4	SCCBAREA	Target area address
(1C)	CHARACTER	8	SCCBCNAM	Connector LOGON name
(24)	FULLWORD	4	SCCBUSER	User field
(28)	CHARACTER	8	SCCBSEC	Security user field
(30)	ADDRESS	4	SCCBELA	SCCB associated work element
(38)	CHARACTER	8	SCCBCTIM	STCK time at which connection connected
(40)	CHARACTER	8	SCCBSTOD	STCK time by when the secondary TCB had chosen a specific instance of the target primary
(48)	CHARACTER	24	SCCBEL	SCCB internal work element

Subsystem Connection Address Control Block
These DSECTs define the format of the SCACB and its
entries. The SCACB is used by the subsystem level
of interregion communication function to obtain the
addresses of the SCCBs representing its connections.

Table 344.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	SCACB	

Table 344. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	FULLWORD	4	SCACBNUM	Number of entries in SCACB
(4)	FULLWORD	4	SCACBENT	Start of entries
(4)	FULLWORD	4	SCACBEND	End marker = X'FFFFFFFF'

Table 345.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	SCACBE	
(0)	FULLWORD	4	SCACBEAD	Address of SCCB

```
                 Logon Connections List
      This list is passed to logon by the requester, and
      it describes the systems to which this logger-on
      can be connected.
```

Table 346.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	22	LCL	
(0)	CHARACTER	8	LCLNAME	Name of connected system
(8)	CHARACTER	8	LCLUSRID	Was security userid (ignored)
(10)	UNSIGNED	2	LCLSECNO	Number of secondaries for connections to given system
(12)	UNSIGNED	2	LCLPRMNO	Number of primaries for connections to given system
(14)	BIT(8)	1	LCLFLG	Flag byte
	1...		LCLFLGLS	'80'X Last element in list
	.1..		LCLFLGCN	'40'X Connections to this system are initially 'IN SERVICE'
	..1.		LCLFLGSK	'20'X Partner must be a system key user
	...1		LCLFLGXM	'10'X Cross-Memory acceptable
(15)	BIT(8)	1	*	Reserved

```
      The SVC argument list comprises a list of addresses,
      each of which is the address of a function argument list.
```

Table 347.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	IRSVCADS	

Table 347. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	FULLWORD	4	IRVCAARG	Address of function argument list

```
The function argument list, addressed from the SVC
argument list, contains different arguments according to
the function being requested. The first six arguments
identify the function required, the function modifier
(for SWITCH, DISCONNECT or QUIESCE), the user number
and identification, and the thread number and
identification (where required). The remaining three
arguments depend on the function requested and identify
a system name (for LOGON, INSERV or QUIESCE), a
subsystem control block address (for LOGON or CONNECT)
and a parameter list (for LOGON or SWITCH).
```

Table 348.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	IRSVCFDS	
(0)	UNSIGNED	1	IRVCLEN	Length of parameter list
(1)	UNSIGNED	1	IRVCTYP	Function type
(2)	HALFWORD	2	IRVCSTYP	Function modifier
(4)	FULLWORD	4	IRVCUSID	Address of userid argument (except LOGON) OR userid return slot (LOGON only)
(8)	FULLWORD	4	IRVCTHID	Address of thread ID argument (SWITCH, PULL or DISCONNECT only) or thread number return slot (CONNECT only)
(C)	CHARACTER	12	IRVCALST	Start of function specific argument list
(18)	CHARACTER	0	IRVCEND	

Table 349.

Offset Hex	Type	Len	Name (dim)	Description
(8)	STRUCTURE	4	IRVCLGFL	Logon flags
(8)	UNSIGNED	1	IRVCLGF1	First flag byte
	1...		IRVCLGSP	SYS POST req'd on links
	.1..		IRVCLGBT	Batching of operating system POSTs
	..1.		IRVCLGBX	BATCH=POSTEXIT
	...1		IRVCLEXM	Exit module name given

Table 349. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		IRVCLELT	Latent parameter supplied on logon
	.... .1..		IRVCLDOK	Allow duplicate names for this logon
	11		*	Reserved
(9)	UNSIGNED	1	IRVCLGF2	Second flag byte
(A)	UNSIGNED	1	IRVCLGBV	Batching value (IRVCLGBT set)
(B)	UNSIGNED	1	IRVCLGGM	GETMAIN above if SVCLOC=ANY
	1...		IRVCLSVC	1 SVCLOC=ANY, 0 SVCLOC=BELOW
	.111 1111		*	Reserved

Table 350.

Offset Hex	Type	Len	Name (dim)	Description
(C)	STRUCTURE	24	*	Argument list for LOGON
(C)	FULLWORD	4	IRVCLGIM	Address of MYNAME argument
(10)	FULLWORD	4	IRVCLGSL	Address of SLCB addr return slot
(14)	FULLWORD	4	IRVCLGMU	Address of max users argument
(18)	FULLWORD	4	IRVCLGEX	Addr of exit module name
(1C)	FULLWORD	4	IRVCLGLT	Addr of latent parameter
(20)	ADDRESS	4	IRCVLNEW_ PARM_PTR	Addrs of ext. PLIST

Table 351.

Offset Hex	Type	Len	Name (dim)	Description
(C)	STRUCTURE	12	*	Argument list for LOGOFF
(C)	FULLWORD	4	IRVCLODS	Address of dynamic storage operand
(10)	CHARACTER	8	*	

Table 352.

Offset Hex	Type	Len	Name (dim)	Description
(C)	STRUCTURE	12	*	Argument list for CONNECT
(C)	FULLWORD	4	IRVCCNTO	Address of TO argument

Table 352. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	FULLWORD	4	IRVCCNSC	Address of SCCB addr return slot
(14)	CHARACTER	4	*	

Table 353.

Offset Hex	Type	Len	Name (dim)	Description
(C)	STRUCTURE	12	*	Argument list for SWITCH
(C)	FULLWORD	4	*	Reserved
(10)	FULLWORD	4	*	Reserved
(14)	FULLWORD	4	IRVCSWPM	Address of parameter to pass

Table 354.

Offset Hex	Type	Len	Name (dim)	Description
(C)	STRUCTURE	12	*	Argument list for QUIESCE
(C)	FULLWORD	4	IRVCQUTO	Address of TO argument
(10)	CHARACTER	8	*	

Table 355.

Offset Hex	Type	Len	Name (dim)	Description
(C)	STRUCTURE	12	*	Argument list for INSERV
(C)	FULLWORD	4	IRVCINTO	Address of TO argument
(10)	CHARACTER	8	*	

Table 356.

Offset Hex	Type	Len	Name (dim)	Description
(C)	STRUCTURE	12	*	Argument list for RECOVER
(C)	FULLWORD	4	*	Reserved
(10)	FULLWORD	4	IRVCRCRS	Register 13 save area
(14)	FULLWORD	4	IRVCRCSA	Address of save area argument

Table 357.

Offset Hex	Type	Len	Name (dim)	Description
(C)	STRUCTURE	12	*	Argument list for EOT/M CLEAR

Table 357. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	HALFWORD	2	IRVCEOAS	ASID of failing memory or ASID of memory containing failing task
(E)	HALFWORD	2	*	Reserved
(10)	FULLWORD	4	IRVCEOTA	TCB address of failing task
(14)	FULLWORD	4	IRVCEOSC	Address of SSCT

Table 358.

Offset Hex	Type	Len	Name (dim)	Description
(C)	STRUCTURE	12	*	Argument list for ADD
(C)	FULLWORD	4	IRVCANM	Pointer to netname (=IRVCLGIM)
(10)	FULLWORD	4	IRVCATOK	ADD token pointer
(14)	FULLWORD	4	IRVCALCL	A(LCL) - same offset as LOGON

Table 359.

Offset Hex	Type	Len	Name (dim)	Description
(C)	STRUCTURE	4	*	Argument list for CHCKLEVL
(C)	FULLWORD	4	IRVCALVL	Caller's level identifier

Table 360.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	IRVCLNEW_PARM	logon extention plist
(0)	FULLWORD	4	IRVCLNEW_VERSION	version id
(4)	FULLWORD	4	IRVCLNEW_ GRP_NAME	addr of XCF GROUP Name

Constants

Table 361.

Len	Type	value	Name	Description
4	DECIMAL	16	SLCBLENG	Length of SLCB
4	DECIMAL	96	SCCBLENG	Length of SCCB
1	HEX	80	IRXMTHRD	If not XCF, X-Memory thread
1	HEX	40	IRNXTHRD	Non-XCF thread ID
4	DECIMAL	8	SCACBLEN	Basic SCACB length
4	DECIMAL	4	SCACBELN	Length of SCACB entry

Table 361. (continued)

Len	Type	value	Name	Description
4	DECIMAL	22	LCLLENG	Connection list element length
4	DECIMAL	24	IRVCMAXM	Maximum parameter length
4	DECIMAL	1	IRVCLVL1	Function lvl 1 - basic XCF
4	DECIMAL	2	IRVCLVL2	Function lvl 2 - FORGET
	The following equates define the function request codes for the Interregion Communication Program. There are two levels of function request defined here: The SVC function code addressed from the SVC argument list and the function type qualification code addressed from the function argument list for particular functions.			
	SVC FUNCTION CODES			
1	DECIMAL	0	IRVCEQLG	LOGON
1	DECIMAL	4	IRVCEQLF	LOGOFF
1	DECIMAL	8	IRVCEQCN	CONNECT
1	DECIMAL	12	IRVCEQDC	DISCONNECT
1	DECIMAL	16	IRVCEQSW	SWITCH
1	DECIMAL	20	IRVCEQQU	QUIESCE
1	DECIMAL	24	IRVCEQPL	PULL
1	DECIMAL	28	IRVCEQIN	INSERV
1	DECIMAL	32	IRVCEQCL	CLEAR
1	DECIMAL	36	IRVCEQRC	RECOVER
1	DECIMAL	40	IRVCEQEO	EOT/M CLEAR
1	DECIMAL	44	IRVCEQMX	Immediate Quiesce
1	DECIMAL	48	IRVCEQAD	Connection ADD
1	DECIMAL	52	IRVCEQCK	Check DFHIRP level
	FUNCTION QUALIFICATION CODES			
1	DECIMAL	0	IRVCEQDN	Normal DISCONNECT
1	DECIMAL	4	IRVCEQDA	Abnormal DISCONNECT
1	DECIMAL	8	IRVCEQDF	FORGET disc (normal quies
1	DECIMAL	0	IRVCEQQN	Normal QUIESCE
1	DECIMAL	4	IRVCEQQI	Immediate QUIESCE
1	DECIMAL	0	IRVCEQSS	SWITCH SUBSEQUENT
1	DECIMAL	4	IRVCEQSF	SWITCH FIRST
1	DECIMAL	0	IRVCEQRP	Recover from program check
1	DECIMAL	4	IRVCEQRA	Recover from ABEND

Table 361. (continued)

Len	Type	value	Name	Description
1	DECIMAL	0	IRVCEQET	End of Task
1	DECIMAL	4	IRVCEQEC	End of Cross Memory Resource Owner Task
1	DECIMAL	8	IRVCEQEM	End of Memory
1	DECIMAL	0	IRVCEQPR	ADD_PREPARE
1	DECIMAL	4	IRVCEQCM	ADD_COMMIT
1	DECIMAL	8	IRVCEQRL	ADD_ROLLBACK
	Error Return Codes The following equates define the return codes passed back by the interregion communication SVC when it detects an error. These error codes are loaded into R15.			
2	NUMB HEX	0004	IRERRINF	Invalid function requested
2	NUMB HEX	0008	IRERRAUT	User not authorized to use SVC (MVS only)
2	NUMB HEX	000C	IRERRINE	Environment incorrect
2	NUMB HEX	0010	IRERRUNM	Invalid user number
2	NUMB HEX	0014	IRERRUID	Invalid user identification
2	NUMB HEX	0018	IRERRKEY	PSW key not same as at LOGON
2	NUMB HEX	001C	IRERRTHN	Invalid thread number
2	NUMB HEX	0020	IRERRTHD	Invalid thread ID
2	NUMB HEX	0024	IRERRCFT	Set footprint failed
2	NUMB HEX	0028	IRERRLVE	* DFHIRP services are down-level
2	NUMB HEX	002C	IRERRLGN	Valid userno & ID but LCB not fully logged on
2	NUMB HEX	0034	IRERRNOS	No SCTE in the SVA
2	NUMB HEX	0038	IRERRNFL	No free LACBE for LOGON
2	NUMB HEX	003C	IRERRDPL	Duplicate LOGON
2	NUMB HEX	0040	IRERRMXL	Maximum LOGONs already reached
2	NUMB HEX	0044	IRERRGMD	GETMAIN failed XCF busy retry TQE storage
2	NUMB HEX	0048	IRERRGM1	GETMAIN failed LACB storage
2	NUMB HEX	004C	IRERRGM4	GETMAIN failed SUDB storage

Table 361. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	0050	IRERRGM2	GETMAIN failed LCB/CCB storage
2	NUMB HEX	0054	IRERRGM3	GETMAIN failed - private area storage
Qualifiers for Getmain and size exceeded errors				
1	NUMB HEX	01	IRERQSCW	IRERRGM3 qualifier security work area
1	NUMB HEX	02	IRERQLCC	IRERRGM3 qualifier LCL copy area
1	NUMB HEX	03	IRERQVFW	IRERRGM3 qualifier SSI VERIFY work area
1	NUMB HEX	04	IRERQSDW	SUDB work area security work area
1	NUMB HEX	05	IRERQJSB	IRERRGM3 qualifier JSB storage
1	NUMB HEX	06	IRERQSCA	IRERRGM3/ IRERRSIZ qualifier SCACB storage
1	NUMB HEX	07	IRERQLCV	IRERRGM3/ IRERRSIZ qualifier LCBE vector storage
1	NUMB HEX	08	IRERQLCD	IRERRGM2/ IRERRSIZ qualifier LCBD, LCBE & CCB storage
1	NUMB HEX	09	IRERQSCC	IRERRGM3/ IRERRSIZ qualifier SCCB storage
1	NUMB HEX	0A	IRERQLCX	IRERRGM3/ IRERRSIZ qualifier LCBEX & CCBX storage
1	NUMB HEX	0B	IRERQPHB	IRERRGM3/ IRERRSIZ qualifier PHB storage
1	NUMB HEX	0C	IRERQSLC	IRERRGM3/ IRERRSIZ qualifier SLCB storage
1	NUMB HEX	0D	IRERQSRW	IRERRGM3/ IRERRSIZ qualifier SRB work area
1	NUMB HEX	0E	IRERQXTT	IRERRGM3/ IRERRSIZ qualifier XCF Trace Table
1	NUMB HEX	0F	IRERQQSW	IRERRGM3/ IRERRSIZ qualifier QUERY SYSPLEX work area

Table 361. (continued)

Len	Type	value	Name	Description
1	NUMB HEX	10	IRERQGXW	IRERRGM3/ IRERRSIZ qualifier XCF Group Exit work area
1	NUMB HEX	11	IRERQRXW	IRERRGM3/ IRERRSIZ qualifier XCF busy retry SRB work area
1	NUMB HEX	12	IRERQRTT	IRERRGM3/ IRERRSIZ qualifier XCF busy retry SRB Trace Table
	Error return codes continued			
2	NUMB HEX	0058	IRERRNSK	Potential partner is not a system key user but LCBE insists on system key partners
2	NUMB HEX	005C	IRERRNLG	System not logged on
2	NUMB HEX	0060	IRERRNCT	Primary & secondary DFHIRP levels have incompatible XCF User State Data formats
2	NUMB HEX	0064	IRERRGM5	GETMAIN failed CSB/CND storage
2	NUMB HEX	0068	IRERRNSS	Secondary system not in primary LCB
2	NUMB HEX	006C	IRERRCCS	No secondary CCB found for primary system
2	NUMB HEX	0070	IRERRIQS	Secondary is in QUIESCE
2	NUMB HEX	0074	IRERRNSP	Primary system not in secondary LCB
2	NUMB HEX	0078	IRERRCCP	No primary CCB found for secondary
2	NUMB HEX	007C	IRERRIQP	Primary is in QUIESCE
2	NUMB HEX	0080	IRERRCCR	No primary CCB/retry req
2	NUMB HEX	0084	IRERRDSC	Link is already disconnected
2	NUMB HEX	0088	IRERRSWI	Other side cannot receive data
2	NUMB HEX	008C	IRERRNSW	This side cannot send data
2	NUMB HEX	0090	IRERRPL1	Other side cannot be pulled from

Table 361. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	0094	IRERRPL2	This side cannot pull data
2	NUMB HEX	0098	IRERRNPP	There is no pull pending
2	NUMB HEX	009C	IRERRNDP	No data to be pulled (Internal error)
2	NUMB HEX	00A0	IRERRLIQ	LCB is in QUIESCE
2	NUMB HEX	00A4	IRERRUKS	Target system not found in LCB
2	NUMB HEX	00A8	IRERRCSB	CSB cannot be found
2	NUMB HEX	00AC	IRERRLNC	Link is not connected
2	NUMB HEX	00B0	IRERRSCF	Security check failed
Qualifiers for security check failure				
1	NUMB HEX	01	IRERQAUT	IRERRSCF qualifier AUTH denied access
1	NUMB HEX	02	IRERQFAU	IRERRSCF qualifier FASTAUTH denied access
Error codes continued				
2	NUMB HEX	00B4	IRERRSCH	Attempt to schedule an SRB/subtask failed
2	NUMB HEX	00B8	IRERRGM7	GETMAIN failed for SRB storage (MVS)
2	NUMB HEX	00BC	IRERRPST	'Special' ABEND (Bad ECB etc.)
2	NUMB HEX	00C0	IRERRIA0	Invalid argument or Parameter addr
2	NUMB HEX	00C4	IRERRIA1	Invalid address in parameter list
2	NUMB HEX	00C8	IRERRIA2	Invalid address in data list
2	NUMB HEX	00CC	IRERRABN	An MVS ABEND occurred
2	NUMB HEX	00D0	IRERRGM8	GETMAIN failed for Transfer Buffer
2	NUMB HEX	00D4	IRERRGM9	GETMAIN failed for EOM wk area
2	NUMB HEX	00D8	IRERRENV	Subsystem notification error (MVS only)
2	NUMB HEX	00DC	IRERRIA3	Invalid target for data movement
2	NUMB HEX	00E0	IRERRILE	Internal logic error
2	NUMB HEX	00E4	IRERRGMX	GETMAIN failed for use count array

Table 361. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	00E8	IRERRAX	Non-zero AX value currently set
2	NUMB HEX	00EC	IRERRGMA	GETMAIN failed for XCF part table or XCF retry storage
2	NUMB HEX	00F0	IRERRCAT	Connect SRB ATSET failed
2	NUMB HEX	00F4	IRERRXME	Cross memory environment error
2	NUMB HEX	00F8	IRERRIDL	Total data length invalid For SWITCH or PULL
2	NUMB HEX	00FC	IRERRMPD	M/C check paging I/O or DAT error
2	NUMB HEX	0100	IRERRWEN	Bad name for EXITS=
2	NUMB HEX	0104	IRERRWEL	LOAD failed for IR work exit
2	NUMB HEX	0108	IRERRWEF	IR work exit is bad format
2	NUMB HEX	010C	IRERRLCL	Error in LOGON/ADD connections list
Qualifiers for logon/add connection list error				
1	NUMB HEX	01	IRERQDNM	Duplicate connection name in LCL or LCBEs
1	NUMB HEX	02	IRERQEXC	Restricted options requested by an EXCI user
1	NUMB HEX	03	IRERQ#SN	Number of sessions is invalid
1	NUMB HEX	04	IRERQPNU	Primary sessions requested by a non-unique user or LCL end flag cleared asynchronously
Error codes continued				
2	NUMB HEX	0114	IRERRXCQ	IXCQUERY failure, reason in R0
2	NUMB HEX	0118	IRERRTKN	Token not found - dynamic ADD
2	NUMB HEX	011C	IRERRSCV	SCTE already built by an incompatible version of DFHIRP
2	NUMB HEX	0120	IRERRRSM	MVS RESMGR failed - 1st 2 bytes of RF is RESMGR return code

Len	Type	value	Name	Description
2	NUMB HEX	0124	IRERRSIZ	Max. size exceeded for SCACB, LCBE vector, LCBD block, SCCB block or LCBEX block
2	NUMB HEX	0128	IRERRTSW	Non-zero POST code from TRANSWAP
2	NUMB HEX	012C	IRERRSN#	No unused session numbers left for an XCF CONNECT request
2	NUMB HEX	0130	IRERRMTM	LCBFJOIN set at start of IRCJOIN but XCF member token not present in LCB - probably caused by a previous ABEND during IXCJOIN
2	NUMB HEX	0134	IRERRSCM	The LACB that currently exists was built by an incompatible version of DFHIRP
2	NUMB HEX	0138	IRERRXCF	Co-located systems, or systems in the same MVS image cannot connect if they belong to different XCF GROUPS
2	NUMB HEX	013C	IRERRXCF_INV_NAME	Specified XCF Group Name does not conform to XCF naming conventions
2	NUMB HEX	0FFF	IRERRINVHW	DFHIRP is being run on non z/Architecture hardware

ISMF ISC IP Message Formats

```
!:erefstep.dfhismf_is_http_header_names -----------------------------
!:refstep.dfhismf_is_http_header --------------------- DFHISMF 175 -
!
! The name of this header is defined in constant ISHH_NAME. It is
! the main HTTP header present on all protocol(IPIC) HTTP requests
! and responses.
!
! The IS HTTP header is added by the ISSR send_request and
! send_response functions and inspected by the ISRR
! process_input_queue function to determine what action to take on
! receipt of incoming IPIC data.
!
! It has a prefix and a data component.
!
! The conversation ID, ishh_conv_id, relates the message to its
```

```
! session. If a new conversation is to be started on a particular
! previous session, for example to implement the CICS RM Implicit
! Forget protocol, the ishh_prev_conv_id field must be set to the
! conversation ID that used that session previously. Otherwise it
! should be left blank.
!
! The ishh_msg_seqno is incremented for each new request within a
! conversation. This number is allowed to wrap back to 1 after
! 999999. The reply carries the same ishh_msg_seqno as the request
! to which it relates.
!
! There may be multiple chain elements within an IS request or
! response. Each IS chain element is an HTTP request or response
! message.
!
! The first or only chain element within a request should have
! ishh_chain_seqno = 1.
!
! A sender must wait for a pacing response after every four
! messages. A pacing message carries no body data.
!
! IS HTTP msgs are:
!
! ISHH_DATA
! half duplex flip-flop, conversation level messages. Change
! direction is implied at the end of every message, or chain of
! messages.
! ISHH_EXPD
! expedited conversation level command messages that carry no body
! data; may be sent with or against the conversation level flow.
! ishh_conv_state should be set to ishh_end, indicating that no
! reply to the conversation level command is expected.
! ISHH_CMD
! connection level command messages are at the IPCONN level and
! carry no body data; the ishh_conv_id and ishh_conv_state are
! ignored.
!
!------------------------------------------------------------------
```

Table 362.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	50	ISHH_PREFIX	
(0)	CHARACTER	10	ISHH_PREFIX_V1	fixed part of ishh at v1
(0)	CHARACTER	1	ISHH_MAJOR_ VERSION	
(1)	CHARACTER	1	ISHH_MINOR_ VERSION	
(2)	CHARACTER	1	ISHH_MSG_TYPE	message type: D,C,X
(3)	CHARACTER	1	ISHH_CONV_STATE	conversation state: B,I,E
(4)	CHARACTER	6	ISHH_CONV_ID	conversation id correlator
(A)	CHARACTER	0	ISHH_PREFIX_ END_V1	
				end of fixed part of ishh at v1
(A)	CHARACTER	8	ISHH_PREFIX_V2	fixed part of ishh at v2

Table 362. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A)	CHARACTER	6	ISHH_PREV_CONV_ID	previous conv id correlator
(10)	CHARACTER	2	ISHH_REQUEST_TYPE	type if request flowed
(12)	CHARACTER	0	ISHH_PREFIX_END_V2	
				end of fixed part of ishh at v2
(12)	CHARACTER	32	ISHH_PREFIX_V3	fixed part of ishh at v3
(12)	CHARACTER	16	ISHH_CONV_ID8	previous conv id correlator
(22)	CHARACTER	16	ISHH_PREV_CONV_ID8	
				conv id correlator
(32)	CHARACTER	0	ISHH_PREFIX_END_V3	
				end of fixed part of ishh at v2

Table 363.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	31	ISHH_TYPE_DEP	msg type dependent part of ishh
(0)	CHARACTER	31	ISHH_CONV_DATA	data (msg_type=D)
(0)	CHARACTER	13	ISHH_CONV_DATA_PREFIX	
				fixed part of conv_data
(0)	CHARACTER	6	ISHH_MSG_SEQNO	message no. w/n conversation
(6)	CHARACTER	1	ISHH_CHAIN	chain indicator: F,M,L,P
(7)	CHARACTER	6	ISHH_CHAIN_SEQNO	chain element sequence no.
(D)	CHARACTER	18	*	
(D)	CHARACTER	18	ISHH_CONV_ATTACH_DATA	
				reqd if conv_state=B
(D)	CHARACTER	4	ISHH_ATTACH_TRAN_ID	
				mirror tran id
(11)	CHARACTER	8	ISHH_SRC_ TOKEN	WLM SRC token
(19)	CHARACTER	5	ISHH_CCSID	client ccsid:' ' for no conv, '-1 ' for default conv

Table 363. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1E)	CHARACTER	1	ISHH_ENDIAN	client endian:0=little,1=big
(0)	CHARACTER	4	ISHH_CMD_DATA	command (msg_type=C|X)
(0)	CHARACTER	2	ISHH_CMD_ID	command
(2)	CHARACTER	2	*	reserved

```
!:erefstep.dfhismf_is_http_header ------------------------------------
!:refstep.dfhismf_is_uow_header ---------------------- DFHISMF 320 -
!
! 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 364.

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

```
!:erefstep.dfhismf_is_uow_header ------------------------------------
!:refstep.dfhismf_is_adapter_header ------------------- DFHISMF 337 -
!
! This name of this header is defined in constant ISAH_NAME.
!
! It should only be present when a START has been issued where a
! TRUE set adapter data and that START was found to be remote. If
! this header is present there will not be an ODR header.
!
! The IS HTTP adapter header is added by the ISSR send_request
! function when a new transaction is to be attached in the partner
! system.
!
! The data it contains is binary data, unpacked and converted to
! ASCII for transmission over HTTP.
!
!--------------------------------------------------------------------
```

Table 365.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	512	ISAH	
(0)	CHARACTER	512	ISAH_ADAPTER_ DATA	Flattened adapter data

```
!:erefstep.dfhismf_is_field_types ------------------------------------
!:refstep.dfhismf_is_field_header -------------------- DFHISMF 434 -
!
```

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

Table 366.

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 447 -
                    !
                    ! The Capability Exchange request message (Type 1).
                    !
                    ! When an IPIC connection is established between two CICS systems,
                    ! or between CICS and a JCA client, an instance of the capability
                    ! exchange message is sent by the initiator, immediately after the
                    ! first socket (WB session) is opened, before the connection can be
                    ! used for any other work.
                    !
                    ! The Capability Exchange both identifies the partner and defines
                    ! any functional constraints it may have.
                    !
                    ! The IS HTTP headers (ISHH) associated with the capability exchange
                    ! messages have a convid of 0.
                    !
                    ! When the initiator of a connection is a CICS system, this message
                    ! is triggered by SET IPCONN ACQUIRED. This SPI command attaches
                    ! transaction CISC which issue DFHISCO acquire_connection to create
                    ! a socket and send a Capability Exchange to the partner.
                    !
                    ! The partner CICS attaches the IPIC TCPIPSERVICE protocol
                    ! transaction, CISS by default, to issue DFHISCO
                    ! initialize_connection. The initialize_connection function calls
                    ! the acquire_connection routine to create a similar connection back
                    ! to the initiator, to allow work to be started from the partner
                    ! back to the connection initiator.
                    !
                    ! If the connection initiator has no requirement for a return
                    ! connection e.g because it doesn't support inbound requests, the
                    ! isce_callback_port should be set to ISCE_NO_PORT. (This is
                    ! currently only supported for recovery protocol XA).
                    !
                    ! If the partner supports multiple sockets per IPCONN, a capability
                    ! exchange request is sent for each socket opened. Second and
                    ! subsequent capex requests use the isce_reqd_sessions field to
                    ! indicate how many IS sessions are to be allocated to the new
                    ! socket. Data following the comment isce_primary_data is ignored in
                    ! secondary capex requests.
                    !
                    !------------------------------------------------------------------
```

Table 367.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	84	ISCE	
(0)	CHARACTER	68	ISCE_V11	length at v1.1
(0)	CHARACTER	2	ISCE_PREFIX	

Table 367. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	UNSIGNED	1	ISCE_MAJOR_ VERSION	
(1)	UNSIGNED	1	ISCE_MINOR_ VERSION	
(2)	UNSIGNED	2	ISCE_LEN_FIXED	length of fixed part
(4)	CHARACTER	16	ISCE_FULL_ CLIENT_APPLID	
				isce sender's applid
(4)	CHARACTER	8	ISCE_CLIENT_ NETWORKID	
				to match target IPCONN
(C)	CHARACTER	8	ISCE_CLIENT_ APPLID	
				to match target IPCONN
(14)	CHARACTER	16	ISCE_FULL_ SERVER_APPLID	
				client's view of partner
(14)	CHARACTER	8	ISCE_SERVER_ NETWORKID	
				validated in server
(1C)	CHARACTER	8	ISCE_SERVER_ APPLID	
				validated in server
(24)	UNSIGNED	4	ISCE_REQD_ SESSIONS	
				no. sessions requested
(28)	BIT(8)	1	ISCE_FLAGS	
	1...		ISCE_INITIATOR	1=capex initiator
	.1..		ISCE_SECONDARY_ SOCKET	
				1=capex on secondary socket
	..1.		ISCE_IPV6_ ADDRESS	
				1=ipv6 addr used
	...1		ISCE_XA_ ROLLBACK	1=rollback mirror if appl- -ication abend occurs
	 1111		*	spare
isce_primary_data. Data after this point in the isce is ignored for secondary capex requests.				
(29)	CHARACTER	15	ISCE_CALLBACK_ IPADDR	

Offset Hex	Type	Len	Name (dim)	Description
(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
	1...		ISCE_RECOV_ CICS	
	.1..		ISCE_RECOV_XA	
	..11 1111		*	spare
(3E)	CHARACTER	6	ISCE_CONV_ID	copy of conv_id
(44)	CHARACTER	16	ISCE_V31	v3.1 fixed extensions
(44)	CHARACTER	16	ISCE_CONV_ID8	copy of ishh_conv_id8
(54)	CHARACTER	0	ISCE_SUBFIELDS	start of variable data

Table 368.

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 555 -
!
! 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
! REASON(ISCER_SEC_SOCK_ERROR)
! An error occured while attempting to obtain a secondary socket.
! REASON(ISCER_CLIENT_CONNECTION_CLOSED)
! The client connection has been closed.
!
!------------------------------------------------------------------
```

Table 369.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	ISCER	

Table 369. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	50	ISCER_V11	length at v1.1
(0)	CHARACTER	2	ISCER_PREFIX	
(0)	UNSIGNED	1	ISCER_MAJOR_ VERSION	
(1)	UNSIGNED	1	ISCER_MINOR_ VERSION	
(2)	UNSIGNED	1	ISCER_RESPONSE	isco_response
(3)	UNSIGNED	1	ISCER_REASON	isco_reason
(4)	UNSIGNED	4	ISCER_MAX_ SESSIONS	
				max sessions allowed
(8)	BIT(64)	8	ISCER_CAPABILITIES	
				system capabilities
(8)	BIT(8)	1	IS_PROTOCOLS	protocols supported
	1...		IS_RECOV_CICS	
	.1..		IS_RECOV_XA	
	..1.		IS_ISHH_V2	
	...1		IS_IMPLICITFORGET	
	.... 1...		IS_IPV6_ ADDRESSING	
	.... .1..		IS_IDPROP	
	.... ..1.		IS_ISHH_V3	
	1		IS_ODR_GT_384	
(9)	BIT(8)	1	IS_FUNCTIONS	functions supported
	1...		IS_SYNCLEVEL2	
	.1..		IS_DPL	
	..1.		IS_CONTAINER	
	...1		IS_START_ CANCEL	
	.... 1...		IS_TRANSACTION_ ROUTING	
				routing
	.... .1..		IS_REMOTE_ SCHEDULES	
	.... ..1.		IS_ENHANCED_ ROUTING	
	1		IS_FILE_ CONTROL	
(A)	BIT(8)	1	IS_FUNCTIONS2	more functions supported

Table 369. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		IS_MIRRORLIFE	
	.1..		IS_TRANSIENT_ DATA	
	..1.		IS_TEMPORARY_ STORAGE	
	...1		IS_TIMEOUT	
	.... 1...		IS_ESI	
	.... .111		*	spare
(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
(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

Offset Hex	Type	Len	Name (dim)	Description
(32)	CHARACTER	2	ISCER_V21	v2.1 fixed extensions
(32)	UNSIGNED	2	ISCER_LEN_FIXED	length of fixed part
(34)	CHARACTER	0	ISCER_SUBFIELDS	start of variable data

Table 370.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	ISCER_SUB	Argument subfield
(0)	CHARACTER	4	ISCER_SUB_PREFIX	Length of subfield
(0)	UNSIGNED	2	ISCER_SUB_LEN	Length of subfield
(2)	UNSIGNED	1	ISCER_SUB_TYPE	Subfield type
(3)	UNSIGNED	1	*	spare
(4)	CHARACTER	4	ISCER_SUB_DATA	sub_type dependent arg data
(4)	UNSIGNED	4	ISCER_SUB_ NUM_SOCKETS	
				Max sockets allowed
(4)	UNSIGNED	4	ISCER_SUB_ MIRRORLIFE_DATA	
				Mirrorlife field
(4)	UNSIGNED	1	ISCER_SUB_ MIRRORLIFE_VALUE	
				Mirrorlife value
(5)	UNSIGNED	3	*	Spare

```
!:erefstep.dfhismf_is_capex_resp ------------------------------------
!:refstep.dfhismf_is_bis ----------------------------- DFHISMF 746 -
!
! The Bracket Initiation Stopped (BIS) request message (Type 3)
! and the Bracket Initiation Stopped (BISR) response message
! (Type 4) have the same format.
!
! When an IPIC connection between two CICS systems is released, a
! drain command is sent by the initiator causing both sides to
! quiesce: current and queued work is processed, no new work is
! accepted. Once all activity on the ipserver connection has
! terminated, a BIS message and response is exchanged prior to
! closing the web session (socket) IF any send session is flagged
! send or receive forget pending i.e if any conversation on that
! session has terminated leaving an RM link pending.
!
! The BIS message carries a list of conversations for which forget
! is pending.
!
!-------------------------------------------------------------------
```

Table 371.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	6	ISBIS	
(0)	CHARACTER	6	ISBIS_FIXED	minimum fixed part

Table 371. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	UNSIGNED	2	ISBIS_LEN_FIXED	length of fixed part
(2)	UNSIGNED	2	ISBIS_LEN_ CONV_ENTRY	
				length of a conv entry
(4)	UNSIGNED	2	ISBIS_NUM_CONVS	Number of conversations
(6)	CHARACTER	0	ISBIS_CONV_LIST	List of conversations

Table 372.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	6	ISBIS_CONV	Conversation to complete
(0)	UNSIGNED	4	ISBIS_CONV_ID	Conversation id
(4)	UNSIGNED	2	ISBIS_CONV_RESP	BIS response

Table 373.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	18	ISBIS_CONV2	Conversation to complete
(0)	CHARACTER	16	ISBIS_CONV2_ID8	Conversation id8
(10)	UNSIGNED	2	ISBIS_CONV2_RESP	BIS response

```
!:erefstep.dfhismf_is_bis -----------------------------------------
!:refstep.dfhismf_is_syncpoint_command ---------------- DFHISMF 791 -
!
! The Syncpoint Command field (Type 6).
!
! The normal syncpoint exchange is as follows:-
! Initiator -----------Prepare----------> Agent 1
! <------Request Commit--------
!
! Initiator -------Request Commit-------> Agent 2 (=last agent)
! <----------Committed---------
! ------------Forget---------->
!
! Initiator -----------Committed--------> Agent 1
! <-----------Forget-----------
!
! Alternate flows - When the decision is to roll back the UOW, then
! the coordinator sends an FMH7 as the data portion of the Type 6
! field.
!
! Resync Flows - Type 6 fields are also used in resync messages,
! exchanged between CICS regions. The are 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 374.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	PS_HEADER	
(0)	UNSIGNED	2	PS_LL	
(2)	CHARACTER	6	PS_TP_DATA	
(2)	UNSIGNED	1	PS_LEN	
(3)	UNSIGNED	1	PS_TYPE	
(4)	UNSIGNED	1	PS_FLAGS	
(5)	UNSIGNED	1	PS_CMD	
(6)	CHARACTER	2	PS_SPC_MOD	
(6)	UNSIGNED	1	PS_SPC_MOD0	
(7)	UNSIGNED	1	PS_SPC_MOD1	

```
        !:erefstep.dfhismf_ is_syncpoint_ command -----------------------------
        !:refstep.dfhismf_ is_conversation_ error --------------- DFHISMF 874 -
        !
          ! 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. Those beginning 0000 are IPIC specific.
        !
        ! - 00000001 ROUTED_ TRANS_ABENDED
        !
          ! transaction routed task abended
        !
        ! - 080F0983 ACCESS_ DENIED
        !
          ! security error.
        !
        ! - 080F6051 SECURITY_ NOT_VALID
        !
          ! security error.
        !
        ! - 08240000 TASK_ BACKED_OUT
        !
          ! conversation id no longer valid; task was backed out.
        !
        ! - 08390000 IPCONN_ QUIESCING
        !
          ! transaction attach rejected; the partner system is quiescing.
        !
        ! - 084C0000 NOT_ AVAIL_NO_RETRY
        !
          ! transaction attach rejected; trans id known but disabled.
```

```
      !
      ! - 08640001 DEALLOCATE_ ABEND_SVC
      !
        ! mirror has abended.
      !
      ! - 1008600B RESOURCE_ FAILURE
      !
      ! system error.
      !
      ! - 10086021 TPN_ NOT_RECOGNIZED
      !
        ! transaction attach rejected; unknown transid.
      !
      ! Subfields
      !
        ! - Type 1 - the text of an associated error message.
      !
        !-----------------------------------------------------------------
```

Table 375.

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
	.1..		IS7_SYSTEM_ SESSION	
				IS7 sent from system session !
	..11 1111		*	Reserved

Table 376.

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_security ----------------------- DFHISMF 1046 -
      !
      ! The Security field (Type 8).
      !
      ! Subfields
      !
      ! - Type 1 - Userid
      !
      ! - Type 2 - Password
      !
        !-----------------------------------------------------------------
```

Table 377.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	3	IS8_DATA	Type 8 subfield data

Table 377. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(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 378.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	100	IS8_STRING_FIELDS	
(0)	CHARACTER	10	IS8_STRING_ USERID	
(0)	CHARACTER	100	IS8_STRING_ PASSWORD	
(0)	UNSIGNED	1	IS8_STRING_ PASSWORD_TYPE	
(0)	CHARACTER	10	IS8_STRING_ GROUPID	

```
!:erefstep.dfhismf_  is_security --------------------------------------
!:refstep.dfhismf_  is_esi ---------------------------- DFHISMF 1082 -
!
  ! The External Security Interface field (Type 9).
!
! Subfields
!
  ! - Type 1 - Userid
!
  ! - Type 2 - Password (1-8 chars) or Password Phrase (9-100 chars)
!
  !------------------------------------------------------------------
```

Table 379.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	IS9_DATA	Type 9 subfield data
(0)	CHARACTER	0	IS9_GDS_DATA	GDS data

```
            -----------------------------------------------------------------!
                    Input_TP_LLID !
       The Input_TP_LLID consists of a second LLID pair and data !
         TP_LL is the total length of the TP record. !
         TP_ID is the indicator for SIGN-ON or SIGN-ON/CHANGE_PASSWORD. !
         TP_Data contains the data for this LLID. It is a series of !
              variable length subfields. !
                                                                    !
       The Input_TP_LLID has the following format: !
                  --------------------------------------------- !
                  │ L │ I │ Input_Data │ Input_Data │ Input_Data │ !
                  │ L │ D │ SF(1)  │ SF(2) │ SF(3) │ !
                  --------------------------------------------- !
            -----------------------------------------------------------------!
```

Table 380.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	INPUT_TP_LLID	
(0)	UNSIGNED	2	INPUT_TP_LL	
(2)	UNSIGNED	2	INPUT_TP_ID	
(4)	CHARACTER	*	INPUT_TP_DATA	

```
  ------------------------------------------------------------------!
            Input_  SF_LID !
  Each Input_   SF_LID consists of a one byte length, an Id field !
            and a variable length data field. !
    SF_   L is the total length of the SF record. !
    SF_   Id indicates which subfield type it is. !
    SF_   Data contains the data for this subfield. !
                                                                  !
    The subfields have the following format: !
                       ------------ !
                      |L|I| SF_ Data| !
                      | |d| |  !
                       ------------ !
  ------------------------------------------------------------------!
```

Table 381.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	INPUT_SF_LID	
(0)	UNSIGNED	1	INPUT_SF_L	
(1)	UNSIGNED	1	INPUT_SF_ID	
(2)	CHARACTER	*	INPUT_SF_DATA	

```
  ------------------------------------------------------------------!
            Output_  GDS_LLID !
    The Output Data consists of an initial LLID pair and data !
    GDS_  LL is the total length of Output Data. !
    GSD_  ID is the indicator for SIGN-ON data. !
    GDS_  Data contains the data to be passed to the partner. !
                                                                  !
    The Output_  GDS_LLID has the following format: !
       ------------------------------------------------------ !
      | L | I | Output_ GDS_Data | !
       | L | D | |  !
       ------------------------------------------------------ !
                                                                  !
    Within the Output_  GDS_Data exists a second LLID pair called the !
    TP record !
      TP_   LL is the total length of the TP record. !
      TP_   ID is the indicator for SIGN-ON reply data. !
      TP_   Data contains the data for this LLID. It is a series of !
              variable length subfields. !
                                                                  !
    The Output_   TP_LLID has the following format: !
              ------------------------------------------------ !
             | L | I | Output_ Data | Output_ Data | Output_Data | !
             | L | D | SF(1) | SF(2) | SF(3) | !
              ------------------------------------------------ !
                                                                  !
    Each subfield has the following format: !
                       ------------- !
                      |L|I| SF_ Data | !
                      | |d| |  !
```

```
                    ------------ !
                                                                       !
                   -------------------------------------------------------------!
```

Table 382.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	229	OUTPUT_GDS_LLID	
(0)	UNSIGNED	2	OUTPUT_GDS_LL	
(2)	UNSIGNED	2	OUTPUT_GDS_ID	
(4)	CHARACTER	225	OUTPUT_GDS_DATA	
(4)	UNSIGNED	2	OUTPUT_TP_LL	
(6)	UNSIGNED	2	OUTPUT_TP_ID	
(8)	CHARACTER	221	OUTPUT_TP_DATA	

```
        !:erefstep.dfhismf_  is_esi -------------------------------------
        !:refstep.dfhismf_  is_icrx -------------------------- DFHISMF 1234 -
        !
          ! The ICRX Security field (Type 19).
        !
          ! This field may appear together with or without an IS-8 field in a
        ! message.
        !
          ! The format of the ICRX data is not known to the IS domain, and can
          ! be found in the IRRPICRX macro.
        !
          !-----------------------------------------------------------------
```

Table 383.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2000	IS19_DATA	Type 19 subfield data
(0)	CHARACTER	2000	IS19_ICRX_DATA	ICRX data ! @BAIDPROC @BAIDPROA

```
        Need to pull in the GDS structure from ISXS at some point
        !:erefstep.dfhismf_is_icrx ---------------------------------------
        !:refstep.dfhismf_is_uowid_recovery_data -------------- DFHISMF 945 -
        !
        ! 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 384.

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 968 -
                    !
                    ! 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 385.

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 992 -
                    !
                      ! 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 386.

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 387.

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

```
!:erefstep.dfhismf_ is_xid_ recovery_list ----------------------------
!:refstep.dfhismf_ is_resync_ outcome ------------------ DFHISMF 1023 -
!
   ! 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 388.

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 1251 -
!
! 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 389.

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

Table 389. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	CHARACTER	1	IS43_FMHXMOD	Old-style fmh field (not used)
(5)	CHARACTER	1	IS43_FMHXFXCT	Old-style fmh field (not used)
(6)	UNSIGNED	1	IS43_OPTION_LEN	Command options length
(7)	CHARACTER	7	IS43_OPTIONS	Option bytes from ARG0
(7)	CHARACTER	2	IS43_ARG_ EXISTENCE	
				Argument existence bits
(9)	CHARACTER	1	IS43_COMMAND_ FLAGS	
				Command modifier flags
(A)	CHARACTER	4	IS43_KEYW_ EXISTENCE	
				Keyword existence bits
(E)	UNSIGNED	1	IS43_INVPROG_LEN	Invoking program name length
(F)	CHARACTER	8	IS43_INVPROG	Invoking program name
(17)	CHARACTER	0	IS43_SUBFIELDS	Start of subfields

Table 390.

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 1302 -
!
! 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 391.

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

Table 391. (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 codepage (as CCSID)
(24)	UNSIGNED	4	CHAN_CNUM	Total number of containers

```
      !:erefstep.dfhismf_is_channel ----------------------------------------
      !:refstep.dfhismf_is_container ---------------------- DFHISMF 1327 -
      !
      ! 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 392.

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_tr_attach_request -------------- DFHISMF 1367 -
      !
      ! The Transaction Routing Attach field (Type 50).
      !
      ! This IS field is used to identify a request by a routing region
```

```
! for a transaction routed transaction to be attached.
!
! It carries transaction identification and terminal identification
! parameters together with other parameter information for the
! transaction that is to be attached in an AOR.
!
! It is also followed by argument fields that are created and
! interpreted by the IPIC Transaction Routing Transformer DFHAPRX.
!
!-------------------------------------------------------------------
```

Table 393.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	IS50_DATA	Type 50 field data
(0)	UNSIGNED	2	IS50_LEN	Length of field
(2)	CHARACTER	28	*	Terminal identification
(2)	CHARACTER	8	IS50_TERMINAL_ OWNER_NETWORK	
				Network name of TOR
(A)	CHARACTER	8	IS50_TERMINAL_ OWNER_NETNAME	
				Netname name of TOR
(12)	CHARACTER	4	IS50_TERMID	Terminal id in owning region
(16)	CHARACTER	8	IS50_TERMINAL_ TOKEN	
				Terminal definition token
(1E)	UNSIGNED	1	IS50_PRIORITY	Priority value to pass to AOR
(1F)	BIT(8)	1	*	
	1...		IS50_TERMINAL_ SHIPPABLE	
				Terminal shippable(yes)
	.1..		IS50_TERMINAL_ APPC	
				Terminal is APPC device
	..1.		IS50_CHANNEL_ SEND	Channel data is being sent
	...1		IS50_SET_ PRIORITY	Pass priority value to AOR
	 1111		*	
(20)	CHARACTER	0	IS50_ARGUMENTS	Start of arguments

```
!:erefstep.dfhismf_is_tr_attach_request -----------------------------
!:refstep.dfhismf_is_tr_inquire_request ------------- DFHISMF 1403 -
!
```

```
!  The Transaction Routing Inquire Request field (Type 51).
!
!  This IS field is used to identify a request issued by an
!  application owning region to a routing region for terminal
!  definition parameters. It also identifies a response.
!
!  For a response, this IS field carries AP domain parameter
!  information in argument fields. This parameter information is a
!  Builder Parameter Set that is supplied by ZC Builder modules
!  (DFHBSxxx modules) from a DFHZCQ function INQUIRE and used as
!  input to ZC Builder modules with a DFHZCQ function INSTALL to
!  install a terminal definition in the AP domain of an application
!  owning region.
!
!-----------------------------------------------------------------------
```

Table 394.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2	IS51_DATA	Type 51 field data !
(0)	UNSIGNED	2	IS51_LEN	Length of field !
(2)	CHARACTER	0	IS51_ARGUMENTS	Start of arguments !

```
!:erefstep.dfhismf_is_tr_inquire_request ----------------------------
!:refstep.dfhismf_is_tr_relay_request ---------------- DFHISMF 1429 -
!
!  The Transaction Routing Relay Request field (Type 55).
!
!  This IS field is used to identify a terminal request issued in an
!  application owning region that is to be relayed to a routing
!  region. It also identifies a response.
!
!  It carries AP domain parameter information in argument fields that
!  identify the terminal request or response. The argument fields are
!  created and interpreted by the IPIC Transaction Routing
!  Transformer DFHAPRX.
!
!-----------------------------------------------------------------------
```

Table 395.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2	IS55_DATA	Type 55 field data !
(0)	UNSIGNED	2	IS55_LEN	Length of field !
(2)	CHARACTER	0	IS55_ARGUMENTS	Start of arguments !

```
!:erefstep.dfhismf_is_tr_relay_request ------------------------------
!:refstep.dfhismf_is_tr_schedule_request ------------- DFHISMF 1451 -
!
!  The Transaction Routing Schedule Request field (Type 60).
!
!  This IS field is used to identify a remote schedule request. This
!  could be a remote terminal request issued in response to a
!  terminal START and flowing from the AOR to the TOR, or a remote
!  delete request for a badly-disconected terminal that had been
!  running CRTE flowing from the TOR to the AOR.
!
!  The flow is sent by and receieved by DFHCRS.
!
!-----------------------------------------------------------------------
```

Table 396.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	30	IS60_DATA	Remote schedule request
(0)	UNSIGNED	2	IS60_LEN	Length of field
(2)	UNSIGNED	2	*	
(4)	CHARACTER	2	IS60_CRSSTAT	Request status (CRSSTAT)
(6)	CHARACTER	4	IS60_TRANSID	Name of transaction to be started
(CRSTRNID)				
(A)	CHARACTER	4	IS60_TERMID	Terminal id in owning region
(CRSFQTID)				
(E)	CHARACTER	8	IS60_TERMNAME	Netname of terminal (CRSFQTID)
(16)	CHARACTER	8	IS60_NETNAME	Network name of TOR (CRSNNAM)

```
!:erefstep.dfhismf_is_tr_schedule_request --------------------------
!:refstep.dfhismf_is_tr_schedule_response ------------ DFHISMF 1479 -
!
! The Transaction Routing Schedule Response field (Type 61).
!
! This IS field is used to identify a remote schedule response. This
! is the response to the IS60 remote schedule request described
! above.
!
! The flow is sent by and receieved by DFHCRS.
!
!-----------------------------------------------------------------
```

Table 397.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	IS61_DATA	Remote schedule response
(0)	UNSIGNED	2	IS61_LEN	Length of field
(2)	UNSIGNED	2	*	
(4)	UNSIGNED	4	IS61_RESPONSE	Response code (CRSRESPC)
(8)	CHARACTER	8	IS61_TARGET_ APPLID	Name of new TOR to try (CRSR_TARGET_APPL)
(10)	CHARACTER	4	IS61_TOR_TERMID	Termid on TOR (CRSR_TOR_TERMID)

Constants

Table 398.

Len	Type	value	Name	Description
!:refstep.dfhismf_is_http_header_names ---------------- DFHISMF 159 - ! ! ! Constants for the IS HTTP header names. ! ! The HTTP header names and character data will be converted to ! ASCII for transmission. ! !---				
13	CHARACTER	X-ibm-cics-is	ISHH_NAME	
14	CHARACTER	ARM_CORRELATOR	ISAC_NAME	
17	CHARACTER	X-ibm-cics-is-uo w	ISUH_NAME	
17	CHARACTER	X-ibm-cics-is-od r	ISOH_NAME	
21	CHARACTER	X-ibm-cics-is-ad apter	ISAH_NAME	
Values of major_version				
1	CHARACTER	1	ISHH_MAJOR_V1	
1	CHARACTER	2	ISHH_MAJOR_V2	
1	CHARACTER	3	ISHH_MAJOR_V3	
1	CHARACTER	3	ISHH_MAJOR_CURRENT	
Values of minor_version				
1	CHARACTER	1	ISHH_MINOR_V1	
1	CHARACTER	1	ISHH_MINOR_CURRENT	
Values of ishh_chain				
1	CHARACTER	F	ISHH_FIRST	first in chain
1	CHARACTER	M	ISHH_MIDDLE	middle in chain
1	CHARACTER	L	ISHH_LAST	last or only in chain
1	CHARACTER	P	ISHH_PACING	pacing response(no data)
Values of ishh_conv_state				
1	CHARACTER	B	ISHH_BEGIN	first request in conv
1	CHARACTER	I	ISHH_IN	in conversation
1	CHARACTER	E	ISHH_END	final or only req/resp
Values of ishh_msg_type				
1	CHARACTER	D	ISHH_DATA	conversation data
1	CHARACTER	X	ISHH_EXPD	conversation level cmd
1	CHARACTER	C	ISHH_CMD	connection level command
Values of ishh_request_type				
2	CHARACTER	FC	ISHH_FC	FC request
2	CHARACTER	IC	ISHH_IC	IC request
2	CHARACTER	LN	ISHH_DPL	DPL request
2	CHARACTER	TD	ISHH_TD	TD request

Table 398. (continued)

Len	Type	value	Name	Description
2	CHARACTER	TR	ISHH_TR	TR request
2	CHARACTER	TS	ISHH_TS	TS request
2	CHARACTER		ISHH_OTHER	Non-EXEC request
ishh_ccsid, required for msg_type=D & conv_state=B, has value: - a 5 digit decimal IBM CCSID supported by dfhcnv or - blanks for no data conversion for e.g DPL commareas or - minus one for the default client code page (CLINTCP) to be used e.g. for when the input CCSID can not be determined				
5	CHARACTER		ISHH_NO_CONV	no data conversion
5	CHARACTER	-1	ISHH_DEFAULT_CONV	use default code page
Values of ishh_endian for msg_type=D if conv_state=B				
1	CHARACTER	0	ISHH_LITTLE_ENDIAN	little endian
1	CHARACTER	1	ISHH_BIG_ENDIAN	big endian
Values of ishh_cmd_id for ishh_msg_type=ISHH_CMD				
2	CHARACTER	01	ISHH_DRAIN	drain
2	CHARACTER	98	ISHH_PING	ping
2	CHARACTER	99	ISHH_PONG	ping response
Both the connection level ping flows consist of an IS Header and a zero length message body. Values of ishh_cmd_id for ishh_msg_type=ISHH_EXPD				
1	CHARACTER	5	ISHH_PURGE	Any version of purge
2	CHARACTER	50	ISHH_TIMEOUT	timeout
2	CHARACTER	51	ISHH_PURGE_NORMAL	purge
2	CHARACTER	52	ISHH_PURGE_FORCE	forcepurge
2	CHARACTER	53	ISHH_PURGE_KILL	kill
!:erefstep.dfhismf_is_adapter_header -------------------------------- !:refstep.dfhismf_is_field_types --------------------- DFHISMF 356 - ! ! 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 3 - BRACKET INITIATION STOPPED (BIS) REQUEST !				
2	DECIMAL	3	ISFLD_TYPE_BIS	
TYPE 4 - BRACKET INITIATION STOPPED (BIS) RESPONSE				
2	DECIMAL	4	ISFLD_TYPE_BISR	@L4AA
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	

Table 398. (continued)

Len	Type	value	Name	Description
TYPE 8 - SECURITY				
2	DECIMAL	8	ISFLD_TYPE_SEC	
TYPE 9 - ESI				
2	DECIMAL	9	ISFLD_TYPE_ESI	
TYPE 10 - UNIT OR WORK ID RECOVERY DATA				
2	DECIMAL	10	ISFLD_TYPE_UOWID	
TYPE 11 - XID RECOVERY DATA				
2	DECIMAL	11	ISFLD_TYPE_XID	
TYPE 12 - XID RECOVERY LIST				
2	DECIMAL	12	ISFLD_TYPE_XIDRL	
TYPE 13 - RESYNC OUTCOME				
2	DECIMAL	13	ISFLD_TYPE_RSO	
TYPE 19 - ICRX = ID-propagation				
2	DECIMAL	25	ISFLD_TYPE_ICRX	
TYPE 43 - API REQUEST/RESPONSE (= SNA FMH43)				
2	DECIMAL	67	ISFLD_TYPE_API	
TYPE 44 - CHANNEL HEADER				
2	DECIMAL	68	ISFLD_TYPE_CHANNEL	
TYPE 45 - CONTAINER				
2	DECIMAL	69	ISFLD_TYPE_CONTAINER	
TYPE 46 - FREE REQUEST				
2	DECIMAL	70	ISFLD_TYPE_FREE	
TYPE 50 - TRANSACTION ROUTING ATTACH REQUEST				
2	DECIMAL	80	ISFLD_TYPE_TR_ATTACH	
TYPE 51 - TRANSACTION ROUTING INQUIRE REQUEST/RESPONSE				
2	DECIMAL	81	ISFLD_TYPE_ TR_INQUIRE	
TYPE 55 - TRANSACTION ROUTING RELAY REQUEST/RESPONSE				
2	DECIMAL	85	ISFLD_TYPE_TR_RELAY	
TYPE 60 - TRANSACTION ROUTING SCHEDULE REQUEST				
2	DECIMAL	96	ISFLD_TYPE_ TR_SCHEDULE_REQUEST	
TYPE 61 - TRANSACTION ROUTING SCHEDULE RESPONSE				
2	DECIMAL	97	ISFLD_TYPE_ TR_SCHEDULE_RESPONSE	
Values of isce_sub_type				
1	DECIMAL	1	ISCE_SUB_LOGNAME	Local logname
1	DECIMAL	2	ISCE_SUB_IPV6_ADDR	IPv6 callback addr
Values of major_version				
1	DECIMAL	1	ISCE_MAJOR_V1	

Table 398. (continued)

Len	Type	value	Name	Description
1	DECIMAL	2	ISCE_MAJOR_V2	
1	DECIMAL	3	ISCE_MAJOR_V3	
1	DECIMAL	3	ISCE_MAJOR_CURRENT	
Values of minor_version				
1	DECIMAL	1	ISCE_MINOR_V1	
1	DECIMAL	1	ISCE_MINOR_CURRENT	
Values of isce_callback_port (1-65535 or IS_NO_PORT)				
4	DECIMAL	-1	IS_NO_PORT	
Values of isce_recovery				
1	DECIMAL	1	IS_CICS	
1	DECIMAL	2	IS_XA	
Values of iscer_sub_type				
1	DECIMAL	1	ISCER_SUB_ MAX_SOCKETS	
				Number of sockets
1	DECIMAL	2	ISCER_SUB_MIRRORLIFE	Mirrorlife
Values of iscer_response				
1	DECIMAL	1	ISCER_OK	
1	DECIMAL	2	ISCER_EXCEPTION	
1	DECIMAL	3	ISCER_DISASTER	
1	DECIMAL	4	ISCER_INVALID	
1	DECIMAL	5	ISCER_KERNERROR	
1	DECIMAL	6	ISCER_PURGED	
Values of iscer_reason				
1	DECIMAL	1	ISCER_AUTOINSTALL_ FAILED	
1	DECIMAL	2	ISCER_INVALID_ IPCONN_STATE	
1	DECIMAL	3	ISCER_INVALID_ PARTNER_STATE	
1	DECIMAL	4	ISCER_IPCONN_ NOT_FOUND	
1	DECIMAL	5	ISCER_ISCE_ERROR	
1	DECIMAL	6	ISCER_ISCE_ INVALID_APPLID	
1	DECIMAL	7	ISCER_ISCE_TIMED_OUT	
1	DECIMAL	8	ISCER_ISCE_BAD_RECOV	
1	DECIMAL	9	ISCER_ISCER_ BAD_RESPONSE	
1	DECIMAL	10	ISCER_ISCER_ERROR	

Table 398. (continued)

Len	Type	value	Name	Description
1	DECIMAL	11	ISCER_ISCER_ HTTP_ERROR	
1	DECIMAL	12	ISCER_ISCER_ TIMED_OUT	
1	DECIMAL	13	ISCER_SESSION_ OPEN_FAILED	
1	DECIMAL	14	ISCER_SHUTDOWN	
1	DECIMAL	15	ISCER_TCPIP_CLOSED	
1	DECIMAL	16	ISCER_TCPIPSERVICE_ MISMATCH	
1	DECIMAL	17	ISCER_TCPIPSERVICE_ NOT_FOUND	
1	DECIMAL	18	ISCER_TCPIPSERVICE_ NOT_OPEN	
1	DECIMAL	19	ISCER_NO_IPCONN	
1	DECIMAL	20	ISCER_ONE_WAY_IPCONN	
1	DECIMAL	21	ISCER_CAPEX_RACE	
1	DECIMAL	22	ISCER_SECURITY_ VIOLATION	
1	DECIMAL	23	ISCER_SEC_SOCK_ERROR	
1	DECIMAL	24	ISCER_CLIENT_ SOCKET_ERROR	
	NOTE - remember to change the logic in dfhisco_check_iscer_reason when any new reason codes are added here.			
1	DECIMAL	99	ISCER_UNKNOWN	
	Values of isbis_conv_resp			
2	DECIMAL	0	ISBIS_FORGET_PENDING	
2	DECIMAL	1	ISBIS_OK_TO_FORGET	
2	DECIMAL	2	ISBIS_FORGET_ RESOLVED	
2	DECIMAL	3	ISBIS_TASK_ACTIVE	
2	DECIMAL	4	ISBIS_FORGET_ NOT_PENDING	
2	DECIMAL	5	ISBIS_CONV_NOT_FOUND	
	PS LL value is fixed for all messages			
2	DECIMAL	1	PS_LL_VALUE	
	Header Length constants for SP messages			
1	DECIMAL	6	PS_HLEN_PREP	Prepare
1	DECIMAL	6	PS_HLEN_RCOM	Request Commit
1	DECIMAL	4	PS_HLEN_CMTD	Committed
1	DECIMAL	4	PS_HLEN_FGET	Forget
1	DECIMAL	4	PS_HLEN_HMIX	Heuristic Mix

Table 398. (continued)

Len	Type	value	Name	Description
1	DECIMAL	4	PS_HLEN_NLUW	New LUWID
Default syncpoint control type - always 0001010b				
1	DECIMAL	10	PS_TYPE_SPC	Syncpoint Control
Flag byte values				
1	DECIMAL	64	PS_FLAG_PFLD	Prep + new LU
1	DECIMAL	96	PS_FLAG_CFLD	RCom Reserved
1	DECIMAL	64	PS_FLAG_CFLB	RCom Reliable
1	DECIMAL	32	PS_FLAG_CFLV	Vote reliable
1	DECIMAL	8	PS_FLAG_FGET	Implied Forget
1	DECIMAL	0	PS_FLAG_NFGT	No Implied Forget
1	DECIMAL	0	PS_FLAG_ZERO	Cleared
Command byte values				
1	DECIMAL	5	PS_CMD_PREP	Prepare
1	DECIMAL	6	PS_CMD_RCOM	Request Commit
1	DECIMAL	7	PS_CMD_CMTD	Committed
1	DECIMAL	8	PS_CMD_FGET	Forget
1	DECIMAL	9	PS_CMD_HMIX	Heuristic Mix
SyncPoint Control Modifications				
2	DECIMAL	0	PS_SPCM_REQR	Request Received
2	DECIMAL	1	PS_SPCM_REQL	Request Last
2	DECIMAL	2	PS_SPCM_REQS	Request Sent
1	DECIMAL	1	IS7_SUB_MESSAGE	
FMH7 Sense Codes used by IS domain in IS7 fields.				
4	DECIMAL	1	ISSNS_ROUTED_ TRANS_ABENDED	
4	DECIMAL	135203203	ISSNS_ACCESS_DENIED	
4	DECIMAL	135225425	ISSNS_SECURITY_ NOT_VALID	
4	DECIMAL	135593984	ISSNS_DUPLICATE_ PREPARE	
4	DECIMAL	136577024	ISSNS_TASK_ BACKED_OUT	
4	DECIMAL	136577025	ISSNS_TASK_ BACKED_OUT_1	
4	DECIMAL	137953280	ISSNS_IPCONN_ QUIESCING	
4	DECIMAL	139198464	ISSNS_NOT_ AVAIL_NO_RETRY	
4	DECIMAL	140771329	ISSNS_DEALLOCATE_ ABEND_SVC	
4	DECIMAL	268984331	ISSNS_RESOURCE_ FAILURE	

Table 398. (continued)

Len	Type	value	Name	Description
4	DECIMAL	268984353	ISSNS_TPN_ NOT_RECOGNIZED	
Values for is8_type				
1	DECIMAL	1	IS8_USERID	
1	DECIMAL	2	IS8_PASSWORD	
1	DECIMAL	3	IS8_PASSWORD_TYPE	
1	DECIMAL	4	IS8_GROUPID	
Values for is8_string_password_type				
1	DECIMAL	1	IS8_PASSWORD_MASKED	Default
1	DECIMAL	2	IS8_PASSWORD_CLEAR	
Various GDS field length constants				
1	DECIMAL	8	MAX_USERID_LENGTH	
1	DECIMAL	100	MAX_PASSWORD_LENGTH	
1	DECIMAL	221	MAX_TOTAL_SF_LENGTH	
Identifiers used for describing GDS input and output data				
2	HEX	1221	VERIFY_TP_ID	
2	HEX	FF00	VERIFY_ID	
2	HEX	FF01	CHANGE_PASSWORD_ID	
2	HEX	FF02	VERIFY_REPLY_ID	
Valid Subfield identifiers				
1	HEX	00	PROFILE_SF_ID	
1	HEX	01	USERID_SF_ID	
1	HEX	02	PASSWORD_SF_ID	
1	HEX	03	THREE_PART_ UID_SF_ID1	
1	HEX	04	THREE_PART_ UID_SF_ID2	
1	HEX	05	THREE_PART_ UID_SF_ID3	
1	HEX	06	NEW_PASSWORD_SF_ID	
Reasons used for Unsuccessful Reply				
1	HEX	01	USERID_NOT_KNOWN	
1	HEX	02	INCORRECT_PASSWORD	
1	HEX	03	EXPIRED_PASSWORD	
1	HEX	04	NEW_PASSWORD_ NOT_ACCEPTABLE	
1	HEX	05	SECURITY_ FUNCTION_FAILURE	
Invalid Data Format format errors				
2	HEX	0001	REQUIRED_ STRUCTURE_ABSENT	

Table 398. (continued)

Len	Type	value	Name	Description
2	HEX	0002	PRECLUDED_ STRUCTURE_PRESENT	
2	HEX	0003	MULTIPLE_ NON_REPEATABLE_ STRUCT	
2	HEX	0005	UNRECOGNIZED_ STRUCTURE	
2	HEX	0006	LENGTH_OUTSIDE_ RANGE	
2	HEX	0007	LENGTH_EXCEPTION	
2	HEX	000F	DATA_VALUE_ OUT_OF_RANGE	
4	DECIMAL	2000	MAX_ICRX_SIZE	@BAIDPROA
1	CHARACTER	S	RSO_SUCCESS	
1	CHARACTER	F	RSO_FAILURE	
1	DECIMAL	2	IS43_SUB_PROGRAM	LINK program name
1	DECIMAL	4	IS43_SUB_CLENGTH	LINK commarea length
1	DECIMAL	6	IS43_SUB_COMMAREA	LINK commarea
1	DECIMAL	8	IS43_SUB_TRANSID	LINK mirror transid
1	DECIMAL	10	IS43_SUB_HEXTRANS	LINK mirror hex transid
Constant for chan_version				
1	DECIMAL	1	CHAN_CURRENT_VERSION	
Constant for chan_eye				
8	CHARACTER	>DFHCHAN	CHAN_EYECATCHER	
Constant for chdr_eye				
8	CHARACTER	>DFHCHDR	CHDR_EYECATCHER	
Values for chdr_datatype				
1	CHAR HEX	01	CHDR_BIT	
1	CHAR HEX	02	CHDR_CHAR	
1	CHAR HEX	03	CHDR_STRUCTURE	Reserved for release 2

ISRDS ISC IP Connection Statistics

```
CONTROL BLOCK NAME = DFHISRDS
DESCRIPTIVE NAME  = CICS IPCONN statistics record
   @BANNER_START 02
                     DFHISRDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = This data area contains the IPCONN statistics
           provided by the IS Domain.
           It is provided for use in users monitoring applications
           to map the statistics returned via the API or the
```

```
                          statistics global user exit.
                          There is a single instance of this data block.
              LIFETIME =
                     This data block is created by the IS Domain to store
                     statistics to be passed to the user in response to a
                     for IPCONN statistics. The storage is released when the
                     user task is detached.
                     The DSECT also maps the contents of part of the SMF buffer
                     created by the statistics domain and is used in the
                     statistics exit.
              STORAGE CLASS =
              LOCATION =
                     The user is passed a pointer to the head of the storage
                     block.
              INNER CONTROL BLOCKS = None
              NOTES :
                  DEPENDENCIES = S/370
                  RESTRICTIONS = None
                  MODULE TYPE = Control block definition
              ----------------------------------------------------------------
```

Table 399.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHISRDS	IPCONN Resid stats record
(0)	HALFWORD	2	ISRDS_LEN	IPCONN stats record length
(2)	ADDRESS	2	ISRDS_ID	IPCONN stats id
(4)	CHARACTER	1	ISRDS_VERS	IPCONN stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	ISR_IPCONN_NAME	IPCONN name
(10)	CHARACTER	8	ISR_APPLID	IPCONN applid
(18)	CHARACTER	8	ISR_NETWORK_ID	IPCONN network id
(20)	CHARACTER	116	ISR_HOST_NAME	IPCONN Host name
(94)	CHARACTER	4		Reserved
(98)	FULLWORD	4	ISR_PORT_NUMBER	IPCONN port number
(9C)	BITSTRING	1	ISR_SSL_SUPPORT	IPCONN SSL Support
(9D)	BITSTRING	1	ISR_USERAUTH	IPCONN Userauth
(9E)	BITSTRING	1	ISR_LINKAUTH	IPCONN Linkauth
(9F)	BITSTRING	1	ISR_MIRRORLIFE	IPCONN Mirrorlife
(A0)	CHARACTER	8	ISR_TCPIP_ SERVICE	IPCONN Tcpip service
(A8)	CHARACTER	28		Reserved
(C4)	FULLWORD	4	ISR_FS_ TS_REQUESTS	FS Temporary Storage (TS) reqs
(C8)	BITSTRING	8	ISR_FS_ TS_BYTES_SENT	
				FS TS reqs bytes sent
(D0)	BITSTRING	8	ISR_FS_ TS_BYTES_RECEIVED	

Table 399. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				FS TS reqs bytes received
(D8)	CHARACTER	8	ISR_IPCONN_ GMT_CREATE_TIME	
				AI IPCONN create time - GMT
(E0)	CHARACTER	8	ISR_IPCONN_ CREATE_TIME	
				AI IPCONN create time - Local
(E8)	CHARACTER	8	ISR_IPCONN_ GMT_DELETE_TIME	
				AI IPCONN delete time - GMT
(F0)	CHARACTER	8	ISR_IPCONN_ DELETE_TIME	
				AI IPCONN delete time - Local
(F8)	CHARACTER	8		Reserved
(100)	FULLWORD	4	ISR_SEND_ SESSIONS	Send sessions
(104)	FULLWORD	4	ISR_CURRENT_ SEND_SESSIONS	
				Current send sessions
(108)	FULLWORD	4	ISR_PEAK_ SEND_SESSIONS	
				Peak send sessions
(10C)	FULLWORD	4		Reserved
(110)	FULLWORD	4		Reserved
(114)	FULLWORD	4	ISR_RECEIVE_ SESSIONS	
				Receive sessions
(118)	FULLWORD	4	ISR_CURRENT_ RECEIVE_SESSIONS	
				Current receive sessions
(11C)	FULLWORD	4	ISR_PEAK_ RECEIVE_SESSIONS	
				Peak receive sessions
(120)	FULLWORD	4		Reserved
(124)	FULLWORD	4	ISR_TR_REQUESTS	Transaction Routing (TR) reqs
(128)	BITSTRING	8	ISR_TR_ BYTES_SENT	TR reqs bytes sent
(130)	BITSTRING	8	ISR_TR_ BYTES_RECEIVED	

Table 399. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				TR reqs bytes received
(138)	FULLWORD	4	ISR_TOTAL_ ALLOCATES	
				IPCONN total allocates
(13C)	FULLWORD	4	ISR_CURRENT_ QUEUED_ALLOCATES	
				Current queueed allocates
(140)	FULLWORD	4	ISR_PEAK_ QUEUED_ALLOCATES	
				Peak queued allocates
(144)	FULLWORD	4	ISR_ALLOCATES_ FAILED_LINK	
				Failed allocates - Link
(148)	FULLWORD	4	ISR_ALLOCATES_ FAILED_OTHER	
				Failed allocates - Other
(14C)	FULLWORD	4	ISR_FS_ TD_REQUESTS	FS Transient Data (TD) reqs
(150)	BITSTRING	8	ISR_FS_ TD_BYTES_SENT	
				FS TD reqs bytes sent
(158)	BITSTRING	8	ISR_FS_ TD_BYTES_RECEIVED	
				FS TD reqs bytes received
(160)	FULLWORD	4	ISR_ALLOCATE_ QUEUE_LIMIT	
				Allocate queuelimit
(164)	FULLWORD	4	ISR_QLIMIT_ ALLOC_REJECTS	
				Queuelimit allocate rejects
(168)	FULLWORD	4	ISR_MAX_ QUEUE_TIME	Max queue time
(16C)	FULLWORD	4	ISR_MAXQTIME_ ALLOC_QPURGES	
				Maxqtime allocate qpurges
(170)	FULLWORD	4	ISR_MAXQTIME_ ALLOCS_PURGED	
				Maxqtime allocates purged

Table 399. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(174)	FULLWORD	4		Reserved
(178)	FULLWORD	4		Reserved
(17C)	FULLWORD	4	ISR_XISQUE_ ALLOC_REJECTS	
				Xisque allocate rejects
(180)	FULLWORD	4	ISR_XISQUE_ ALLOC_QPURGES	
				Xisque allocate qpurges
(184)	FULLWORD	4	ISR_XISQUE_ ALLOCS_PURGED	
				Xisque allocates purged
(188)	FULLWORD	4		Reserved
(18C)	FULLWORD	4	ISR_TRANS_ ATTACHED	No. transactions attached
(190)	FULLWORD	4	ISR_REMOTE_ TERM_STARTS	
				Remote terminal starts
(194)	FULLWORD	4	ISR_UNSUPPORTED_ REQUESTS	
				Unsupported requests
(198)	FULLWORD	4		Reserved
(19C)	FULLWORD	4	ISR_FS_ PG_REQUESTS	Function Shipped Program reqs
(1A0)	BITSTRING	8	ISR_FS_ PG_BYTES_SENT	
				FS Program reqs bytes sent
(1A8)	BITSTRING	8	ISR_FS_ PG_BYTES_RECEIVED	
				FS Program reqs bytes received
(1B0)	FULLWORD	4		Reserved
(1B4)	FULLWORD	4	ISR_FS_ IC_REQUESTS	FS Interval Control (IC) reqs
(1B8)	BITSTRING	8	ISR_FS_ IC_BYTES_SENT	
				FS IC reqs bytes sent
(1C0)	BITSTRING	8	ISR_FS_ IC_BYTES_RECEIVED	
				FS IC reqs bytes received
(1C8)	CHARACTER	39	ISR_IPCONN_ IP_ADDRESS	

Table 399. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				IP Resolved Address
(1EF)	BITSTRING	1	ISR_IPCONN_ IP_FAMILY	
				IP Family
(1F0)	BITSTRING	8		Reserved
(1F8)	CHARACTER	8	ISR_IPCONN_ DEFINE_SOURCE	
				Group installed from
(200)	BITSTRING	8	ISR_IPCONN_ CHANGE_TIME	
				Change/create time
(208)	CHARACTER	8	ISR_IPCONN_ CHANGE_USERID	
				Change userid
(210)	BITSTRING	2	ISR_IPCONN_ CHANGE_AGENT	
				Change agent
(212)	BITSTRING	2	ISR_IPCONN_ INSTALL_AGENT	
				Install agent
(214)	BITSTRING	8	ISR_IPCONN_ INSTALL_TIME	
				Install/Create time
(21C)	CHARACTER	8	ISR_IPCONN_ INSTALL_USERID	
				Install userid
(224)	FULLWORD	4	ISR_FS_ FC_REQUESTS	FS File Control (FC) reqs
(228)	BITSTRING	8	ISR_FS_ FC_BYTES_SENT	
				FS FC reqs bytes sent
(230)	BITSTRING	8	ISR_FS_ FC_BYTES_RECEIVED	
				FS FC reqs bytes received
(238)	CHARACTER	12		Reserved
(238)		0	ISRDS_END	"*"
(238)		0	ISRDS_LENGTH	"*-ISRDS_LEN" IPCONN record length
Constants that denote an IS IPCONN stats record				
(238)	SIGNED	0	ISRIDR	"109" IPCONN resid stats id
(238)	BITSTRING	0	ISR_VERS	"X'01'" Record version number

Table 399. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(238)	BITSTRING	0	ISR_SSL_YES	"X'01'" SSL = Yes
(238)	BITSTRING	0	ISR_SSL_NO	"X'02'" SSL = No
(238)	BITSTRING	0	ISR_USERAUTH_ DEFAULTUSER	
				"X'01'" Userauth = Defaultuser
(238)	BITSTRING	0	ISR_USERAUTH_ IDENTIFY	
				"X'02'" Userauth = Identify
(238)	BITSTRING	0	ISR_USERAUTH_ LOCAL	"X'03'" Userauth = Local
(238)	BITSTRING	0	ISR_USERAUTH_ VERIFY	
				"X'04'" Userauth = Verify
(238)	BITSTRING	0	ISR_LINKAUTH_ CERTUSER	
				"X'01'" Linkauth = Certuser
(238)	BITSTRING	0	ISR_LINKAUTH_ SECUSER	
				"X'02'" Linkauth = Secuser
	....		ISR_IP_ FAMILY_UNKNOWN	
				"X'00'" IP family = Unknown
(238)	BITSTRING	0	ISR_IP_ FAMILY_IPV4	"X'01'" IP family = IPv4
(238)	BITSTRING	0	ISR_IP_ FAMILY_IPV6	"X'02'" IP family = IPv6 Change Agents
(238)	SIGNED	0	ISR_CSDAPI_ CHANGE	"0001" CSD API
(238)	SIGNED	0	ISR_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(238)	SIGNED	0	ISR_DREPAPI_ CHANGE	"0003" DREP API
(238)	SIGNED	0	ISR_CREATE_ CHANGE	"0004" EXEC CREATE SPI
(238)	SIGNED	0	ISR_AUTOINSTALL_ CHANGE	
				"0006" AUTOINSTALL Install Agents

Table 399. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(238)	SIGNED	0	ISR_CSDAPI_ INSTALL	"0001" CSD API
(238)	SIGNED	0	ISR_CREATE_ INSTALL	"0004" EXEC CREATE SPI
(238)	SIGNED	0	ISR_GRPLIST_ INSTALL	
				"0005" GRPLIST
(238)	SIGNED	0	ISR_AUTOINSTALL_ INSTALL	
				"0006" AUTOINSTALL
(238)	BITSTRING	0	ISR_MIRRORLIFE_ REQUEST	
				"X'01'" Mirrorlife = Request
(238)	BITSTRING	0	ISR_MIRRORLIFE_ TASK	
				"X'02'" Mirrorlife = Task
(238)	BITSTRING	0	ISR_MIRRORLIFE_ UOW	"X'03'" Mirrorlife = UOW

JCA Journal Control area

```
CONTROL BLOCK NAME = DFHJCAPS
DESCRIPTIVE NAME  = CICS Journal Control Area
 @BANNER_START 02
                        DFHJCAPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     The JCA contains the parameter lists that communicate
  between a task requiring journalling services, and other
  fields used internally by journalling.
LIFETIME =
     A JCA is normally created on the first occasion that a
  task requests a service of journalling, and persists until
  the task terminates. ( Journalling also creates some JCAs
  for internal purposes.) Creation involves DFHJCP; deletion
  is incidental to deletion of the TCA.
STORAGE CLASS =
     JCA ('9B'X)
LOCATION =
     Addressed by TCAJCAAD in the user TCA.
INNER CONTROL BLOCKS =
     None
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
```

Table 400.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	54	DFHJCADS	JCA
(0)	HALFWORD	2	JCALEN	Length of the JCA
(2)	CHARACTER	6	JCAEYE	JCA eyecatcher
(8)	BIT(8)	1	JCATR3	- type of request, byte 3
(9)	BIT(8)	1	JCATR2	- type of request, byte 2
(A)	BIT(8)	1	JCATR1	- type of request, byte 1
(B)	BIT(8)	1	JCAJCRC	- return code
(C)	ADDRESS	4	JCAADATA	- A(user data)
(10)	ADDRESS	4	JCAAPRFX	- A(user prefix)
(14)	FULLWORD	4	JCAFTOK	force token
(18)	FULLWORD	4	JCAFLEN	- fullword L(user data)
(18)	HALFWORD	2	*	- section to allow 64K
(1A)	HALFWORD	2	JCALDATA	- used with LENGTH
(1C)	HALFWORD	2	JCALPRFX	- L(user prefix)
(1E)	HALFWORD	2	JCAJNUM	journal number as halfword
(20)	UNSIGNED	1	JCAJFID	- journal identifier
(21)	CHARACTER	8	JCAJNAME	journal name identifier
(29)	CHARACTER	2	JCADOMID	calling domain identifier
	JCA user prefix: terminal control segment			
(2C)	CHARACTER	10	JCAUPTC	origin of user prefix
(2C)	CHARACTER	2	JCAJRTID	- JC rec type (DFHFMIPS)
(2C)	BIT(8)	1	JCAMODFN	- module function
(2D)	BIT(8)	1	JCASVMID	- module id
(2E)	HALFWORD	2	JCAVSPIN	LU6.1 inbound sequence number
(30)	HALFWORD	2	JCAVSPON	LU6.1 outbound sequence number
(32)	CHARACTER	4	JCAUPTID	Terminal ID

Constants

Table 401.

Len	Type	value	Name	Description
	JCATR3 – CICS system request symbolic settings			

Table 401. (continued)

Len	Type	value	Name	Description
1	HEX	10	JCATRANY	Concerning addressing mode -- user data may be 'anywhere'
JCATR2 - Request-modifying symbolic settings				
1	HEX	01	JCATROUT	TYPE=OUTPUT (with OPEN)
1	HEX	01	JCATRL	LEAVE=YES (with CLOSE request)
1	HEX	01	JCATRCR	Conditional (WRITE) request
1	HEX	02	JCATRIN	TYPE=INPUT (with OPEN)
1	HEX	02	JCATRSIO	STARTIO=YES (with WRITE)
1	HEX	04	JCATRPFX	User prefix specified (WRITE)
JCATR1 - Request-type symbolic settings				
1	HEX	01	JCATRWR	TYPE=WRITE
1	HEX	02	JCATRW	TYPE=WAIT
1	HEX	03	JCATRPUT	TYPE=PUT (=WRITE,WAIT)
JCAJCRC - return code symbolic settings				
1	HEX	00	JCARCNR	normal response
1	HEX	01	JCARCIDE	journal id error
1	HEX	02	JCARCIRE	invalid request
1	HEX	03	JCARCSE	status error
1	HEX	04	@NM00002	reserved
1	HEX	05	JCARCNOE	journal not open
1	HEX	06	JCARCLE	length error
1	HEX	07	JCARCIOE	I/O error
1	HEX	08	JCARCEOF	end of file (for input req)
1	HEX	09	JCARCCR	COND=YES, buffer full
MISCELLANEOUS VALUES				
1	HEX	63	JCAJNMAX	Max journalname = 99

KCS Transaction manager static storage

```
               CONTROL BLOCK NAME = DFHKCSPS
               DESCRIPTIVE NAME  = CICS TRANSACTION MANAGER STATIC STORAGE
                @BANNER_START 02
                               DFHKCSPS
               Licensed Materials - Property of IBM
```

```
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     Static storage used by task control component for
     ECBs and working storage.
     There is a single instance of this control block in a CICS
     system.
LIFETIME =
     It is allocated and initialized to hex zeroes in DFHSIB1.
     It has the lifetime of the CICS system.
STORAGE CLASS =
     CICS static storage.
LOCATION =
     Addresses from static storage address list.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-----------------------------------------------------------------
EXTERNAL REFERENCES = None
  DATA AREAS = None
  CONTROL BLOCKS = PCT
  GLOBAL VARIABLES (Macro pass) = None
-----------------------------------------------------------------
```

Table 402.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	DFHKCSPS	
(0)	CHARACTER	4	KCSOBECB	open-for-business ECB
(0)	BIT(8)	1	*	
	1...		*	Reserved
	.1..		KCSOBPST	open-for-business post bit *
(4)	CHARACTER	4	KCSCPECB	KC restart complete ECB *
(4)	BIT(8)	1	*	
	1...		*	Reserved
	.1..		KCSCPPST	restart complete post bit *
(8)	BIT(8)	1	KCSFLAGS	restart flags
	1...		KCSRSTIN	restart initiated
(9)	UNSIGNED	1	KCSRSTRC	restart return code
(A)	CHARACTER	2	KCSREASN	MSG DFH0302 REASON CODE *
(C)	ADDRESS	4	KCSNQPCH	DFHKC ENQ string enqueue pool
(10)	ADDRESS	4	KCSNQPAD	DFHKC ENQ address enqueue pool
(14)	CHARACTER	0	KCSTLEN	LENGTH INDICATOR

KERRD Kernel error data

```
                        CONTROL BLOCK NAME = DFHKERRD
                        DESCRIPTIVE NAME  = CICS Kernel Error Data
                         @BANNER_START 02
                                         DFHKERRD
                         Licensed Materials - Property of IBM
                         "Restricted Materials of IBM"
                         5655-S97
                         @BANNER_END
                        FUNCTION = Kernel Error Data.
                        After an MVS Abend, Program Check or Domain Requested Recovery,
                        The following data is available to the task in recovery state.
                        Once the recovery state is cleared or percolated, this data is
                        no longer available.
                        The data splits into three parts:
                        1. Error Code and Interrupt information.
                           The Error Code is supplied on a CICS Request Recovery Call
                           and is a CICS Abend Code (as documented in CICS Messages
                           and Codes).
                           If the Error Code is AKEA then there has been a program
                           check and the System Interrupt data will be the program
                           check code ( 00CX ).
                           If the Error Code is AKEB then there has been an MVS Abend
                           and then System and User Interrupt data will contain the
                           MVS Abend Code split up into the System and User parts.
                           The Kernel will calculate the offset within your program
                           that the CICS error occurred. If not in your program, this
                           field is set negative.
                        2. SYSTEM Error Data - PSW and Registers taken from the SDWA.
                           SDWA: "PSW and Registers at time of error."
                           There are two sets of PSW and Registers, which are different
                           when CICS has called an SVC (say) which then issues an
                           Abend. In this case the phrase 'at time of error' indicates
                           that this set of PSW and Registers will be those of the
                           SVC: the PSW will be the address (in the SVC routine)
                           of an Abend SVC (13).
                        3. CICS Error Data - PSW and Registers taken from the SDWA.
                           SDWA: "PSW and Registers of last interrupt of the RB that
                                   issued this STAE/ESTAE."
                           This is a rather cryptic phrase. Remember, however, that
                           the RB that issued the ESTAE is actually CICS and that,
                           since CICS does not issue LINK, CICS only ever has the one
                           RB EXCEPT when we issue an SVC.
                           S370 hardware implements SVC's and Program Checks as
                           interrupts. Thus, if CICS issues an SVC that then abends,
                           the last interrupt we received WAS the SVC. So, this
                           save area describes the last thing CICS did before the
                           Abend.
                        Notes
                        1. If CICS issues an Abend (or program checks) from its
                           own code, these two save areas are identical and identify
                           the place where the Abend or program check happenned.
                        2. In the case of requested recovery, both sets of PSW and
                           Registers will identify the state at the time the request
                           recovery was issued.
                        3. When the Abend is issued from 'the System', the two save
                           areas are used for different purposes.
                           If the problem is to diagnose what VTAM/VSAM/MVS/etc. was
                           doing for us at the time, the approriate Error Data is the
                           SYSTEM's, since that tells us what the state was on that
                           side of the SVC.
                           If the problem is to diagnose an invalid request made by
                           CICS, then the last thing CICS did is relevant and so the
                           CICS Error Data is relevant.
                        NOTES :
```

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

Table 403.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	712	KERNEL_ERROR_DATA	
(0)	CHARACTER	8	KERNEL_ ERROR_CODE	XXX/NNNN System & User Code
(8)	UNSIGNED	1	KERNEL_ ERROR_TYPE	Error type, see below
(9)	BIT(8)	1	KERNEL_ ERROR_FLAGS	MVS FLAGS
	1...		KERNEL_ ERROR_DUMP_ REQUESTED	
				A dump was requested
	.111		KERNEL_ ERROR_EXECUTING_ RB	
				Flags determining error RB.
	.1..		KERNEL_ ERROR_SRB_MODE	
				Error in SRB mode
	..1.		KERNEL_ ERROR_IRB	IRB on RB stack
	...1		KERNEL_ ERROR_CICS_ RB_NOT_ACTIVE	
				CICS RB not in control
	.... 1...		*	Reserved
	.... .1..		KERNEL_ ERROR_REASON_ PRESENT	
				Abend reason code is present
	.... ..1.		KERNEL_ ERROR_BFPR_SAVED	
				all fp regs
	1		KERNEL_ERROR_RA	Reduced authority
(A)	BIT(16)	2	KERNEL_ ERROR_SYSTEM_INT	
				XXX in binary format
(C)	BIT(16)	2	KERNEL_ ERROR_USER_INT	
				NNNN in binary format

Table 403. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E)	HALFWORD	2	*	Reserved
(10)	CHARACTER	8	KERNEL_ ERROR_PROGRAM	
				Name of program in error
(18)	ADDRESS	8	KERNEL_ ERROR_ADDRESS	
				Address of program in error
(20)	ADDRESS	4	*	Reserved - 64 bit
(24)	FULLWORD	4	KERNEL_ ERROR_TASTRTOK	
				Transaction token
(28)	ADDRESS	8	KERNEL_ ERROR_TAS_ADDRESS	
				Address of task in error
(30)	FULLWORD	4	KERNEL_ ERROR_TASRQTOK	
				Attach token of task
(34)	FULLWORD	4	KERNEL_ ERROR_NUMBER	
				Error number
(38)	CHARACTER	4	KERNEL_ ERROR_REASON	
				Abend reason code
(3C)	FULLWORD	4	KERNEL_ ERROR_OFFSET_F	
				Offset of program in
(3C)	UNSIGNED	2	*	error
(3E)	UNSIGNED	2	KERNEL_ ERROR_OFFSET	
For some unknown reason the compile does not like the statement below. DFHPGRE has about a hundred compile errors with it but all the other modules in mpu UAPV are happy with it To overcome the problem I've put KERNEL_ERROR_REASON in a structure 2 PTR, Reserved - 64 bit				
(40)	CHARACTER	232	CICS_ERROR_DATA	CICS error data
(40)	BIT(128)	16	CICS_ERROR_ 16_PSW	PSW EC Mode
(40)	BIT(16)	2	*	Padding
(42)	BIT(8)	1	CICS_ERROR_ 16_BYTE3	
	1...		CICS_ERROR_ AR_MODE	

Table 403. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				CICS AR mode flag
(43)	BIT(40)	5	*	Padding
(48)	ADDRESS	8	CICS_ERROR_ INSTRUCTION_ADDR	
				PSW address
(50)	CHARACTER	8	CICS_ERROR_ EC_ADD	Int Code,ILC from SDWAAEC2
(58)	ADDRESS	4	*	Reserved - 64 bit
(5C)	ADDRESS	4	*	Reserved - 64 bit PSW address
(60)	UNSIGNED	1	CICS_ERROR_KEY	PSW key in form X'n0'
(61)	BIT(8)	1	CICS_ERROR_FLAG	various flags
	1...		CICS_ERROR_ BIT64_GPR	
				64_bit GPR
	.111 1111		*	
(62)	UNSIGNED	2	*	Padding
(64)	ADDRESS	4	*	Reserved - 64 bit
(68)	CHARACTER	128	CICS_ERROR_ REGST	
(68)	CHARACTER	128	CICS_ERROR_ R32_STORAGE	
(68)	ADDRESS	4	CICS_ERROR_ REGISTERS32 (4294967312:263555504)	
(A8)	ADDRESS	4	CICS_ERROR_ G64H (4294967312:263555288)	
(68)	ADDRESS	8	CICS_ERROR_ REGISTERS64 (4294967312:263551872)	
				64bit GPR
(E8)	CHARACTER	64	CICS_ERROR_ ACCESS_REGST	
(E8)	ADDRESS	4	CICS_ERROR_ ACCESS_REGISTERS (4294967312:263545888)	
				CICS Access Regs
(128)	CHARACTER	232	SYSTEM_ ERROR_DATA	System error data
(128)	BIT(128)	16	SYSTEM_ ERROR_16_PSW	
				PSW EC Mode
(128)	BIT(16)	2	*	Padding

Table 403. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(12A)	BIT(8)	1	SYSTEM_ ERROR_16_BYTE3	
	1...		SYSTEM_ ERROR_AR_MODE	
				SYSTEM AR mode flag
(12B)	BIT(40)	5	*	Padding
(130)	ADDRESS	8	SYSTEM_ ERROR_INSTRUCTION_ ADDR	
				PSW address
(138)	CHARACTER	8	SYSTEM_ ERROR_EC_ADD	
				Int Code,ILC from SDWAAEC1
(140)	ADDRESS	4	*	Reserved - 64 bit
(144)	ADDRESS	4	*	Reserved - 64 bit
(148)	UNSIGNED	1	SYSTEM_ ERROR_KEY	PSW key in form X'n0'
(149)	BIT(8)	1	SYSTEM_ ERROR_FLAG	
	1...		SYSTEM_ ERROR_BIT64_GPR	
				64bit gpr
	.111 1111		*	
(14A)	UNSIGNED	2	*	Padding
(14C)	ADDRESS	4	*	Reserved - 64 bit
(150)	CHARACTER	128	SYSTEM_ ERROR_REGST	
(150)	CHARACTER	128	SYSTEM_ ERROR_R32_STORAGE	
(150)	ADDRESS	4	SYSTEM_ ERROR_REGISTERS32 (4294967312:263560656)	
(190)	ADDRESS	4	SYSTEM_ ERROR_G64H (4294967312:263560440)	
(150)	ADDRESS	8	SYSTEM_ ERROR_REGISTERS64 (4294967312:263557000)	
				64bit GPR
(1D0)	CHARACTER	64	SYSTEM_ ERROR_ACCESS_ REGST	

Table 403. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1D0)	ADDRESS	4	SYSTEM_ ERROR_ACCESS_ REGISTERS (4294967312:263545888)	
				System access registers
(210)	BIT(64)	8	KERNEL_ ERROR_TIMESTAMP	
				Timestamp of error
(218)	CHARACTER	132	KERNEL_ ERROR_FP_REGS	
				FP register values:
(218)	CHARACTER	8	KERNEL_ ERROR_FP_REG_0	
				FP register 0
(220)	CHARACTER	8	*	FP register 1
(228)	CHARACTER	8	KERNEL_ ERROR_FP_REG_2	
				FP register 2
(230)	CHARACTER	8	*	FP register 3
(238)	CHARACTER	8	KERNEL_ ERROR_FP_REG_4	
				FP register 4
(240)	CHARACTER	8	*	FP register 5
(248)	CHARACTER	8	KERNEL_ ERROR_FP_REG_6	
				FP register 6
(250)	CHARACTER	8	*	FP register 7
(258)	CHARACTER	8	*	FP register 8
(260)	CHARACTER	8	*	FP register 9
(268)	CHARACTER	8	*	FP register 10
(270)	CHARACTER	8	*	FP register 11
(278)	CHARACTER	8	*	FP register 12
(280)	CHARACTER	8	*	FP register 13
(288)	CHARACTER	8	*	FP register 14
(290)	CHARACTER	8	*	FP register 15
(298)	CHARACTER	4	KERNEL_ ERROR_FPC_ REGISTER	
				FPC register
(29C)	CHARACTER	4	*	Reserved
The following 2 fields are only valid if KERNEL_ERROR_IN_SUBSPACE is set				

Table 403. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2A0)	CHARACTER	8	KERNEL_ ERROR_STOKEN	
				Stoken for subspace
(2A8)	CHARACTER	4	KERNEL_ ERROR_ALET	ALET for subspace
(2AC)	BIT(8)	1	KERNEL_ ERROR_SUBSPACE_ FLAGS	
	1...		KERNEL_ ERROR_IN_SUBSPACE	
				error while in ss
	.1..		KERNEL_ ACTIVE_ IN_SUBSPACE	
				in subspace
	..11 1111		*	Reserved
(2AD)	CHARACTER	3	*	Reserved
(2B0)	CHARACTER	8	KERNEL_ ERROR_BEAR	BEAR
(2B8)	ADDRESS	4	KERNEL_ ERROR_KTCB_ POINTER	
(2BC)	CHARACTER	4	KERNEL_ ERROR_TRAN_ TRANNUM	
(2C0)	CHARACTER	8	*	
(2C8)	CHARACTER	0	*	

Constants

Table 404.

Len	Type	value	Name	Description
Kernel Error Type: Value Definitions.				
1	DECIMAL	1	KERNEL_ERROR_ PROGRAM_CHECK	
1	DECIMAL	2	KERNEL_ERROR_ABEND	
1	DECIMAL	3	KERNEL_ERROR_RUNAWAY	
1	DECIMAL	4	KERNEL_ERROR_ REQUESTED	
1	DECIMAL	5	KERNEL_ERROR_ PERCOLATE	
1	DECIMAL	6	KERNEL_ERROR_ KERNERROR	
1	DECIMAL	7	KERNEL_ERROR_ DEFERRED_ABEND	
1	DECIMAL	8	KERNEL_ERROR_LINKAGE	

Table 404. (continued)

Len	Type	value	Name	Description
1	DECIMAL	9	KERNEL_ERROR_ ABEND_PERCOLATE	
1	DECIMAL	10	KERNEL_ERROR_ ABEND_REQUESTED	
1	DECIMAL	11	KERNEL_ERROR_ RUNNING_CANCEL	
1	DECIMAL	12	KERNEL_ERROR_KILL	

Kernel Error Executing RB : Test value
  - Error occurred in CICS RB if:
        not in SRB mode,
        no IRB in RB stack,
    and CICS RB was in control.				

0	BIT	000	KERNEL_ERROR_ CICS_RB	

KPLEC Keypoint list element

```
CONTROL BLOCK NAME = DFHKPLEC
DESCRIPTIVE NAME  = CICS (FILE) Keypoint List Element DSECT
 @BANNER_START 02
                        DFHKPLEC
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     Declare a structure for the keypoint list element (KPLE).
     The keypoint list forms part of file control's
     implementation of fuzzy image copy, also known as backup
     while open. One KPLE exists for each keypoint and records
     the start and end times at which tie up records are written.
LIFETIME =
     The keypoint list elements are created, processed and
     deleted (when they become redundant) by DFHFCBWO. DFHFCBWO
     is called from the file control revovery program DFHFCRC
     following RMKP take keypoint calls from recovery manager.
LOCATION =
     The KPLE chain is anchored off fc_kple_chain in file
     control static storage.
STORAGE CLASS =
     KPLEs are getmained from the variable length file control
     subpool above the line.
INNER CONTROL BLOCKS =
     None.
NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition.
 -------------------------------------------------------------------
 EXTERNAL REFERENCES =
       None.
   DATA AREAS =
       None.
   CONTROL BLOCKS =
       None.
   GLOBAL VARIABLES (Macro pass) =
       None.
 -------------------------------------------------------------------
```

Table 405.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	KPLE	keypoint list element
(0)	ADDRESS	4	KPLE_NEXT	pointer to next element, or null pointer if the last
(4)	CHARACTER	8	KPLE_START_ WRITE_PACKED	
				when starting to write TURs
(4)	CHARACTER	4	KPLE_START_ WRITE_DAY	
				0CYYDDDC
(8)	CHARACTER	4	KPLE_START_ WRITE_TIME	
				HHMMSSTC
(C)	CHARACTER	8	KPLE_END_ WRITE_PACKED	
				when ending write of TURs
(C)	CHARACTER	4	KPLE_END_ WRITE_DAY	
				0CYYDDDC
(10)	CHARACTER	4	KPLE_END_ WRITE_TIME	
				HHMMSSTC

LDBDS Loader statistics for LIBRARYs

```
CONTROL BLOCK NAME = DFHLDBDS
DESCRIPTIVE NAME  = CICS Loader Statistics for LIBRARYs
   @BANNER_START 02
                        DFHLDBDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This block described the statistics collected by the Loader
      Domain.
      There is an instance of this block for each library for
      which statistics have been requested.
LIFETIME = This block exists until the statistics request has been
      satisfied.
STORAGE CLASS =
LOCATION = The user is passed a pointer to the head of the block
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 -----------------------------------------------------------------
 EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = None
```

Table 406.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHLDBDS	Loader Library Resid stats record
(0)	HALFWORD	2	LDBDS_LEN	Loader Library stats record length
(2)	ADDRESS	2	LDBDS_ID	Loader Library stats id
(4)	CHARACTER	1	LDBDS_VERS	Loader Library stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	LDB_LIBRARY_NAME	Library name
(10)	FULLWORD	4	LDB_LIBRARY_ SEARCH_POS	
				Library search position
(14)	FULLWORD	4	LDB_LIBRARY_ RANKING	
				Library ranking
(18)	BITSTRING	1	LDB_LIBRARY_ CRITICAL	
				Library critical
(19)	BITSTRING	1	LDB_LIBRARY_ ENABLE_STATUS	
				Library enable status
(1A)	BITSTRING	2		Reserved
(1C)	FULLWORD	4	LDB_LIBRARY_ PROG_LOADS	
				Library program loads
(20)	BITSTRING	4		Reserved
(24)	BITSTRING	4		Reserved
(28)	BITSTRING	4		Reserved
(2C)	BITSTRING	4		Reserved
(30)	CHARACTER	8	LDB_LIBRARY_ DEFINE_SOURCE	
				Group installed from
(38)	BITSTRING	8	LDB_LIBRARY_ CHANGE_TIME	
				Change/create time
(40)	CHARACTER	8	LDB_LIBRARY_ CHANGE_USERID	
				Change userid

Table 406. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	BITSTRING	2	LDB_LIBRARY_ CHANGE_AGENT	
				Change agent
(4A)	BITSTRING	2	LDB_LIBRARY_ INSTALL_AGENT	
				Install agent
(4C)	BITSTRING	8	LDB_LIBRARY_ INSTALL_TIME	
				Install/Create time
(54)	CHARACTER	8	LDB_LIBRARY_ INSTALL_USERID	
				Install userid
(5C)	BITSTRING	4		Reserved
(60)	BITSTRING	4		Reserved
(64)	FULLWORD	4	LDB_LIBRARY_ NUMDSNAMES	
				Library number dsnames
(64)		0	LDBDS_END	"*"
(64)		0	LDBDS_LENGTH	"*-LDBDS_LEN" Loader Library record length

Table 407.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	LDB_DSNAMES	Library Dsnames
(0)	CHARACTER	44	LDB_DSNAME	Library Dsname
Constants that denote a LD Library stats record				
(0)	SIGNED	0	LDBIDR	"31" Loader Library resid stats id
(0)	BITSTRING	0	LDB_VERS	"X'01'" Record version number
(0)	BITSTRING	0	LDB_CRITICAL_NO	"X'01'" Library Critical - No
(0)	BITSTRING	0	LDB_CRITICAL_YES	"X'02'" Library Critical - Yes
(0)	BITSTRING	0	LDB_LIBRARY_ ENABLED	
				"X'01'" Library Enable Status - Enabled
(0)	BITSTRING	0	LDB_LIBRARY_ DISABLED	
				"X'02'" Library Enable Statis - Disabled

Table 407. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	SIGNED	0	LDB_LIBRARY_ CSDAPI_CHANGE	
				"0001" Change Agent - CSD API
(0)	SIGNED	0	LDB_LIBRARY_ CSDBATCH_CHANGE	
				"0002" Change Agent - DFHCSDUP
(0)	SIGNED	0	LDB_LIBRARY_ DREPAPI_CHANGE	
				"0003" Change Agent - DREP API
(0)	SIGNED	0	LDB_LIBRARY_ CREATE_CHANGE	
				"0004" Change Agent - CREATE SPI
(0)	SIGNED	0	LDB_LIBRARY_ SYSTEM_CHANGE	
				"0007" Change Agent - SYSTEM
(0)	SIGNED	0	LDB_LIBRARY_ CSDAPI_INSTALL	
				"0001" Install Agent - CSD API
(0)	SIGNED	0	LDB_LIBRARY_ CREATE_INSTALL	
				"0004" Install Agent - CREATE SPI
(0)	SIGNED	0	LDB_LIBRARY_ GRPLIST_INSTALL	
				"0005" Install Agent - GRPLIST
(0)	SIGNED	0	LDB_LIBRARY_ SYSTEM_INSTALL	
				"0007" Install Agent - SYSTEM

LDGDS Loader statistics

```
CONTROL BLOCK NAME = DFHLDGDS
DESCRIPTIVE NAME  = CICS Loader Statistics
   @BANNER_START 02
                        DFHLDGDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This block described the statistics maintained by the
      Loader.
```

```
                The loader maintains a single instance of this block
                representing its global statistics
        LIFETIME = This block is created by the Loader to satisfy a
                request for statistics
        STORAGE CLASS =
        LOCATION = The user is passed a pointer to the head of the block
        INNER CONTROL BLOCKS = none
        NOTES :
            DEPENDENCIES = S/370
            RESTRICTIONS = none
            MODULE TYPE = Control block definition
        ----------------------------------------------------------------
        EXTERNAL REFERENCES = none
            DATA AREAS = none
            CONTROL BLOCKS = Data from Loader domain
            GLOBAL VARIABLES (Macro pass) = none
        ----------------------------------------------------------------
```

Table 408.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHLDGDS	Loader statistics (GLOBAL)
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	LDGLEN	Length of data area
(0)	SIGNED	0	LDGIDE	"30" Global loader stats id mask
(2)	ADDRESS	2	LDGID	Loader domain global stats id
(2)	BITSTRING	0	LDGVERS	"X'01'" DSECT version number
(4)	CHARACTER	1	LDGDVERS	Domain data format version number
(5)	CHARACTER	3		Reserved
(5)		0	LDGHEND	"*" End of header
(5)		0	LDGHLEN	"*-LDGLEN" Length of header

Table 409.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	LDGGLOBAL	Global statistics DSECT
(0)	FULLWORD	4	LDGLLR	Number of LIBRARY load requests
(4)	FULLWORD	4	LDGLLT	Total time for all loads
(8)	FULLWORD	4	LDGPUSES	Number of program uses
(C)	FULLWORD	4	LDGWLR	Number of loader reqs waiting
(10)	FULLWORD	4	LDGWLRHW	HWM waiting loader reqs
(14)	FULLWORD	4	LDGHWMT	Times at HWM
(18)	FULLWORD	4	LDGTTW	Total time waiting

Table 409. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	FULLWORD	4	LDGDREBS	Number of LIBRARY DEB rebuilds
(20)	FULLWORD	4	LDGWTDLR	Number of loader reqs that waited
(24)	FULLWORD	4		Reserved
(28)	FULLWORD	4		Reserved
(2C)	FULLWORD	4	LDGLWSOU	Load waits due to search order update
(30)	BITSTRING	8	LDGLSORT	LIBRARY search order update time
(38)	FULLWORD	4	LDGLBSOU	LIBRARY search order updates
(38)		0	LDGGEND	"*" End of global statistics
(38)		0	LDGGLEN	"*-LDGGLOBAL" Length of global statistics

Table 410.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	LDGDSASTAT	Program stats on a DSA basis
(0)	FULLWORD	4	LDGSTGNIU	Amount of storage occupied by NIU programs
(4)	FULLWORD	4	LDGPROGNIU	Number of programs on NIU queue
(8)	FULLWORD	4	LDGRECNIU	Number of programs reclaimed from NIU queue
(C)	FULLWORD	4	LDGDPSCR	Number of programs removed by DPSC
(10)	BITSTRING	8	LDGDPSCT	Total time on NIU queue
(18)	BITSTRING	1	LDGDSAINDEX	DSA index
(19)	BITSTRING	3		Reserved
(1C)	FULLWORD	4		Reserved
(20)	FULLWORD	4		Reserved
(24)	FULLWORD	4		Reserved
(28)	FULLWORD	4		Reserved
(2C)	FULLWORD	4		Reserved
(2C)		0	LDGDSAEND	"*" End of DSA program stats
(2C)		0	LDGDSALEN	"*-LDGDSASTAT" Length of DSA program stats

Table 410. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Equates for LDGDSASTAT array				
(2C)	SIGNED	0	LDGMAXDSA	"6" Number of elements
(2C)	SIGNED	0	LDGCDSA	"1" CDSA
(2C)	SIGNED	0	LDGECDSA	"2" ECDSA
(2C)	SIGNED	0	LDGSDSA	"3" SDSA
(2C)	SIGNED	0	LDGESDSA	"4" ESDSA
(2C)	SIGNED	0	LDGRDSA	"5" RDSA
(2C)	SIGNED	0	LDGERDSA	"6" ERDSA

LDRDS Loader statistics for programs

```
CONTROL BLOCK NAME = DFHLDRDS
DESCRIPTIVE NAME  = CICS Loader Statistics for programs
   @BANNER_START 02

                        DFHLDRDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This block described the statistics collected by the Loader
      Domain.
      There is an instance of this block for each program for
      which statistics have been requested.
LIFETIME = This block exists until the statistics request has been
      satisfied.
STORAGE CLASS =
LOCATION = The user is passed a pointer to the head of the block
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
 ------------------------------------------------------------------
 EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = Data from Loader Domain
    GLOBAL VARIABLES (Macro pass) = none
 ------------------------------------------------------------------
```

Table 411.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHLDRDS	Loader statistics (RESID)
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	LDRLEN	Length of data area
(0)	SIGNED	0	LDRIDR	"25" Loader stats Resid mask
(2)	ADDRESS	2	LDRID	Loader domain stats id

Table 411. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	BITSTRING	0	LDRVERS	"X'01'" DSECT version number
(4)	CHARACTER	1	LDRDVERS	Domain data format version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	LDRPNAME	Program name
(10)	FULLWORD	4	LDRTU	Times used since last reset
(14)	FULLWORD	4	LDRFC	Fetch count
(18)	FULLWORD	4	LDRFT	Total time taken for all fetchs
(1C)	FULLWORD	4	LDRRPLO	Offset into LIBRARY DD ...
(20)	FULLWORD	4	LDRTN	Times NEWCOPYed
(24)	FULLWORD	4	LDRPSIZE	Program size
(28)	FULLWORD	4	LDRRPC	Times removed by program compression
(2C)	ADDRESS	1	LDRLOCN	Location of current copy
	....		LDRNOCO	"X'00'" No current copy
(2C)	BITSTRING	0	LDRCDCO	"X'01'" Current copy in the CDSA
(2C)	BITSTRING	0	LDRLPACO	"X'03'" Current copy in the LPA
(2C)	BITSTRING	0	LDRECDCO	"X'04'" Current copy in the ECDSA
(2C)	BITSTRING	0	LDRERDCO	"X'06'" Current copy in the ERDSA
(2C)	BITSTRING	0	LDRELPCO	"X'07'" Current copy in the ELPA
(2C)	BITSTRING	0	LDRSDCO	"X'08'" Current copy in the SDSA
(2C)	BITSTRING	0	LDRESDCO	"X'09'" Current copy in the ESDSA
(2C)	BITSTRING	0	LDRRDCO	"X'0A'" Current copy in the RDSA
(2D)	ADDRESS	3		Reserved
(30)	CHARACTER	8	LDRLBNM	Program library name
(38)	CHARACTER	44	LDRLBDNM	Program library dsname
(64)	CHARACTER	20		Reserved
(64)		0	LDREND	"*"
(64)		0	LDRCLEN	"*-LDRLEN" Length of DSECT

LESRV Service routine vector

```
MODULE NAME = DFHLESRV
DESCRIPTIVE NAME  = CICS Service routine vector
                  @BANNER_START 02

                              DFHLESRV
            Licensed Materials - Property of IBM
            "Restricted Materials of IBM"
            5655-S97
            @BANNER_END
FUNCTION = Bilingual copybook to map the service routine vector

   Vector of routines provided to Language Environment
```

Table 412.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	136	DFH_SERVICE_VECTOR	
(0)	FULLWORD	4	DFH_SERVICE_VECTOR_LENGTH	
				vector length
(4)	BIT(32)	4	DFH_SERVICE_FLAGS	availability
(4)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE1	
	1...		DFHGCAA_AVAIL	
	.1..		DFHSCAA_AVAIL	
	..1.		DFHLEGM_AVAIL	
	...1		DFHLEFM_AVAIL	
	.... 1...		DFHLEAS_AVAIL	
	.... .1..		DFHLEDS_AVAIL	
	.... ..1.		DFHLEGQ_AVAIL	
	1		DFHLEFQ_AVAIL	
(5)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE2	
	1...		DFHLETR_AVAIL	
	.1..		DFHLEDT_AVAIL	
	..1.		DFHLERO_AVAIL	
	...1 1111		*	reserved
(6)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE3	
				reserved
(7)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE4	
				reserved
(8)	CHARACTER	128	DFH_SERVICE_ROUTINES	
(8)	ADDRESS	4	DFHGCAA_ADDRESS	get anchor
(C)	ADDRESS	4	DFHSCAA_ADDRESS	set anchor

Table 412. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	ADDRESS	4	DFHLEGM_ADDRESS	getmain
(14)	ADDRESS	4	DFHLEFM_ADDRESS	freemain
(18)	ADDRESS	4	DFHLEAS_ADDRESS	add subpool
(1C)	ADDRESS	4	DFHLEDS_ADDRESS	delete subpool
(20)	ADDRESS	4	DFHLEGQ_ADDRESS	get quickcell
(24)	ADDRESS	4	DFHLEFQ_ADDRESS	free quickcell
(28)	ADDRESS	4	DFHLETR_ADDRESS	trace
(2C)	ADDRESS	4	DFHLEDT_ADDRESS	transaction dump
(30)	ADDRESS	4	DFHLERO_ADDRESS	runtime options
(34)	ADDRESS	4	* (4294967317:0)	reserved

LFM LIFO parameter list and standard DSA

```
CONTROL BLOCK NAME = DFHLPLST, DFHLFS
DESCRIPTIVE NAME  = CICS LIFO Parameter List and Standard DSA
   @BANNER_START 02
                     DFHLFM
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      Maps the parameter list passed to DFHLFA.
      The values of the field DFHLPMOD are given in the module
      identifiers in DFHFMIDS.
      Maps the standard DSA.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
```

Table 413.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHLPLST	DSECT FOR PLIST
(0)	DBL WORD	8	(0)	Double word alignment
	....		OFF0	"00" OFFSET OF FLAGS
(0)	SIGNED	0	OFF1	"01" OFFSET OF STATUS FLAGS
(0)	SIGNED	0	OFLN	"02" LENGTH OFFSET
(0)	SIGNED	0	OFGR	"128" CHAIN BACK OFFSET (64 bit)
(0)	SIGNED	0	OFDR	"132" CHAIN BACK OFFSET (32 bit)
(0)	SIGNED	0	OFGRE	"8" OFFSET OF REG 14 (64 bit)
(0)	SIGNED	0	OFLR	"12" OFFSET OF REG 14 (32 bit)

Table 413. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	SIGNED	0	OFGR1	"32" OFFSET OF REG 1 (64 bit)
(0)	SIGNED	0	OFR1	"36" OFFSET OF REG 1 (32 bit)
(0)	SIGNED	0	OFGRD	"144" OFFSET OF REG 13 (64 bit)
(0)	SIGNED	0	OFRD	"148" OFFSET OF REG 13 (32 bit)
(0)	SIGNED	0	OFNB	"208" NAB OFFSET (64 bit)
(0)	SIGNED	0	NAB	"208" NAB OFFSET (64 bit)
(0)	SIGNED	0	OFTASN	"176" OFFSET OF TASN (64 bit)
(0)	SIGNED	0	OFPOWN	"184" Offset of POWN
(0)	BITSTRING	0	CINTISA	"X'FE'" INITIAL SEGMENT NO *
PLIST PASSED BETWEEN MODULE AND FIRST GET LIFO MODULE				
(0)	HALFWORD	2	DFHLPLEN	LENGTH OF PLIST
(2)	HALFWORD	2	DFHLPDFG	DSA ID
(4)	HALFWORD	2	DFHLPDLN	DSA LENGTH
(6)	HALFWORD	2	DFHLPMDS	OFFSET OF MODULE START FROM PLIST START
(8)	FULLWORD	4	DFHLPTRC	TRACE FLAGS
(C)	HALFWORD	2	DFHLPMOD	MOD ID
(E)	HALFWORD	2	DFHLPMDC	MOD ID IN CHARACTER FORM
(10)	BITSTRING	1	DFHLPTRF	OPTION SETTING
(10)	BITSTRING	0	LFLPTRRC	"X'40'" RECOVERY ROUTINE PRESENT
(10)	BITSTRING	0	LFLPTRCN	"X'08'" CONDITIONAL REQUEST
(10)	BITSTRING	0	LFLPTRRN	"X'04'" COND RETURN REQUEST
(10)	BITSTRING	0	LFLPTRIC	"X'02'" IC LOGIC IS REQUESTED.
(10)	BITSTRING	0	LFLPTRTR	"X'01'" TRACE IS REQUESTED.
(11)	BITSTRING	1	DFHLPTR2	PERFORM,ACCOUNT,EXCEPT
(12)	BITSTRING	1	DFHLPRS3	RESERVED
(13)	BITSTRING	1	DFHLPRS4	RESERVED
(14)	FULLWORD	4	DFHLPSMD	Smode index
	....		DFHLPS31	"0" Smode 31

Table 413. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	SIGNED	0	DFHLPS24	"8" Smode 24
(18)	ADDRESS	8	DFHLPREC	Recovery routine address *

STANDARD DSA

Table 414.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHLFS	
(0)	BITSTRING	1	LFDSOFF0	FLAG BYTE 0
(1)	BITSTRING	1	LFDSOFF1	FLAG BYTE 1
(1)	BITSTRING	0	LFDSTRST	"X'80'" Trusted stack
(1)	BITSTRING	0	LFDSERRD	"X'40'" DFHKERRD exists, i.e. stack in error state
(1)	BITSTRING	0	LFDSACR	"X'20'" CICS Recovery added
(1)	BITSTRING	0	LFDSSAVE	"X'10'" Save area exists and is pointed to by KERNSAVP
(1)	BITSTRING	0	LFDSLCON	"X'08'" Loop controller
(1)	BITSTRING	0	LFDSDFAB	"X'04'" Deferred abend scheduled
(1)	BITSTRING	0	LFDSF4SA	"X'01'" Format 4 save area against this stack
(2)	HALFWORD	2	LFDSOFLN	LENGTH OF DSA
(4)	CHARACTER	4	LFDSOSID	Savearea Id
(8)	ADDRESS	8	LFDSOGLR (0)	Register 14 (64 bit)
(8)	ADDRESS	4		
(C)	ADDRESS	4	LFDSOFLR	Register 14 (32 bit)
(10)	ADDRESS	8	LFDSOGBR (0)	Register 15 (64 bit)
(10)	ADDRESS	4		
(14)	ADDRESS	4	LFDSOFBR	Register 15 (32 bit)
(18)	ADDRESS	8	LFDSOGR0 (0)	Register 0 (64 bit)
(18)	ADDRESS	4		
(1C)	ADDRESS	4	LFDSOFR0	Register 0 (32 bit)
(20)	ADDRESS	8	LFDSOGR1 (0)	Register 1 (64 bit)
(20)	ADDRESS	4		
(24)	ADDRESS	4	LFDSOFR1	Register 1 (32 bit)
(28)	ADDRESS	8	LFDSOGR2 (0)	Register 2 (64 bit)
(28)	ADDRESS	4		
(2C)	ADDRESS	4	LFDSOFR2	Register 2 (32 bit)

Table 414. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	ADDRESS	8	LFDSOGAR (0)	Register 3 (64 bit)
(30)	ADDRESS	4		
(34)	ADDRESS	4	LFDSOFAR	Register 3 (32 bit)
(38)	ADDRESS	8	LFDSOGR4 (0)	Register 4 (64 bit)
(38)	ADDRESS	4		
(3C)	ADDRESS	4	LFDSOFR4	Register 4 (32 bit)
(40)	ADDRESS	8	LFDSOGR5 (0)	Register 5 (64 bit)
(40)	ADDRESS	4		
(44)	ADDRESS	4	LFDSOFR5	Register 5 (32 bit)
(48)	ADDRESS	8	LFDSOGR6 (0)	Register 6 (64 bit)
(48)	ADDRESS	4		
(4C)	ADDRESS	4	LFDSOFR6	Register 6 (32 bit)
(50)	ADDRESS	8	LFDSOGR7 (0)	Register 7 (64 bit)
(50)	ADDRESS	4		
(54)	ADDRESS	4	LFDSOFR7	Register 7 (32 bit)
(58)	ADDRESS	8	LFDSOGR8 (0)	Register 8 (64 bit)
(58)	ADDRESS	4		
(5C)	ADDRESS	4	LFDSOFR8	Register 8 (32 bit)
(60)	ADDRESS	8	LFDSOGR9 (0)	Register 9 (64 bit)
(60)	ADDRESS	4		
(64)	ADDRESS	4	LFDSOFR9	Register 9 (32 bit)
(68)	ADDRESS	8	LFDSOGRX (0)	Register 10 (64 bit)
(68)	ADDRESS	4		
(6C)	ADDRESS	4	LFDSOFRX	Register 10 (32 bit)
(70)	ADDRESS	8	LFDSOGRY (0)	Register 11 (64 bit)
(70)	ADDRESS	4		
(74)	ADDRESS	4	LFDSOFRY	Register 11 (32 bit)
(78)	ADDRESS	8	LFDSOGCR (0)	Register 12 (64 bit)
(78)	ADDRESS	4		
(7C)	ADDRESS	4	LFDSOFCR	Register 12 (32 bit)
(80)	ADDRESS	8	LFDSOGDR (0)	Backward chain (64 bit)
(80)	ADDRESS	4		
(84)	ADDRESS	4	LFDSOFDR	Backward chain (32 bit)
(88)	ADDRESS	8		Reserved (Forward chain) End of F4SA
(90)	ADDRESS	8	LFDSOGRD (0)	Register 13 (64 bit)
(90)	ADDRESS	4		
(94)	ADDRESS	4	LFDSOFRD	Register 13 (32 bit)

Table 414. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(98)	ADDRESS	4		Reserved - 64 bit
(9C)	BITSTRING	1	LFDSFLG2	Flag byte 2
(9C)	BITSTRING	0	LFDSABTM	"X'80'" Abterm allowed switch
(9C)	BITSTRING	0	LFDSPCPY	"X'02'" Plist was copied
(9C)	BITSTRING	0	LFDSLOOP	"X'10'" DSA may be looping
(9D)	SIGNED	1	LFDSSMX	Stack mode index used by kernel
(9E)	SIGNED	1	LFDSSKEY	Stack key
(9F)	SIGNED	1	LFDSPLLN	Plist qword length (if copied)
(A0)	ADDRESS	8		Reserved - 64 bit
(A8)	ADDRESS	8		Used by Kernel
(B0)	ADDRESS	8	LFDSTASN	Address of task entry
(B8)	ADDRESS	8	LFDSPOWN	Address of process own
(C0)	ADDRESS	8	LFDSDTAB	Callers domain entry
(C8)	SIGNED	8	LFDSTRFL	Trace flags
(D0)	ADDRESS	8	LFDSOFNB	NAB
(D8)	ADDRESS	8	LFDSAPLT	Module PLIST pointer
(E0)	ADDRESS	8		Used by Kernel.
(E8)	SIGNED	8	LFDSSMOD	SMODE index 0=31-bit 8=24-bit
(F0)	BITSTRING	1	LFDSMOD1	MODULE ID
(F1)	BITSTRING	1	LFDSMOD2	SUB MODULE ID
(F2)	HALFWORD	2	LFDSMODN	MOD NAME 2 CHAR
(F4)	ADDRESS	4		Reserved
(F8)	ADDRESS	4		Used by Kernel
(FC)	ADDRESS	4		Used by Kernel
(100)	DBL WORD	8	LFDSUSS1 (0)	USER AREA START
(100)	DBL WORD	8	LFDSUSS2 (0)	START USER AREA AFTER COPY *

```
                     END OF STANDARD SECTION
          Kernel Domain Table Entry Overlay. Pointed to by LFDSDTAB.
```

Table 415.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	LFDSDTE	,
(0)	CHARACTER	8		Used by Kernel

Table 415. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	FULLWORD	4	LFDSDTEI	Domain index
(C)	CHARACTER	4		USED BY KERNEL
(10)	ADDRESS	8	LFDSDTEA	Domain anchor
(18)	CHARACTER	32		Used by Kernel
(38)	CHARACTER	1	(0)	Used by Kernel

Table 416.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHLFS	Continue stack dsect

LGGF General Log Format *M6C

```
!:refstep.lg_general_log_format ----------------------- DFHLGLF 79 -
!
!
! A General Log is any CICS log other that the CICS System Log. It
! may reside upon the MVS Logger or upon MVS SMF. Such a log
! comprises a sequence of contiguous blocks. A block is the unit of
! output when flushing the internal log buffer.
!
! Each block comprises a block header followed by a variable number
! of CICS records. The format of the block header is defined by the
! dsect "lgbh_block_header".
!
! Each CICS record comprises a record header followed by the caller
! data part. The record header is defined by the dsect
! "glrh_record_header".
!
! The format of the caller data part is unknown at the Log Manager
! functional level. It usually comprises one or several other CICS
! component record headers followed by yet another embedded caller
! data part. The record header fields "glrh_rec_type" and
! "glrh_rec_compid" indicates which CICS component is to be used to
! define this part of the record.
!
! If this is 'UJ', which means the record originated form an
! application program, then this record header is followed by a user
! header as defined by "cl_user_header".
!
! The following diagram shows the physical layout of a General Log
! block.
!
! general log
! __ first general log block
! __ __ block header (lgbh_block_header)
! __ __ __ first cics record
! __ __ __ __ record header (glrh_record_header)
! __ __ __ __ caller data
! __ __ __ next cics record
! __ __ __ ...
! __ __ __ last cics record
! __ __ __ ...
! __ next general log block
! __ ...
! __ last general log block
! __ ...
!
! This copybook defines the block header, record header, general
```

```
! user header, and 'start of run' record body for General Logs.
!
!-----------------------------------------------------------------
!:refstep.lg_general_log_block_header ----------------- DFHLGLF 141 -
!
! Each block starts with a block header as defined here.
!
!-----------------------------------------------------------------
```

Table 417.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	LGBH_BLOCK_HEADER	
(0)	STRUCTURE IsA(MVSLOGBLOCKHEADER)	40	*	
(0)	CHARACTER	8	LGBH_GLOBAL_ INFO	
(0)	CHARACTER	4	LGBH_BLOCK_ TYPE	set to '>DFH' to
(0)	CHARACTER	1	LGBH_BT_ARROW	identify a CICS
(1)	CHARACTER	3	LGBH_BT_DFH	block
(4)	CHARACTER	4	*	
(4)	UNSIGNED	1	LGBH_LOG_TYPE	general or system log
(5)	CHARACTER	1	LGBH_FLAGS	reserved
(6)	UNSIGNED	2	LGBH_BLOCK_ VER	block format version number
(8)	CHARACTER	24	LGBH_CICS_INFO	
(8)	CHARACTER	8	LGBH_GENERIC_ APPLID	
				CICS generic applid
(10)	CHARACTER	8	LGBH_START_GMT	record time (GMT)
(18)	CHARACTER	8	LGBH_START_ LOCAL	record time (LOCAL)
(20)	CHARACTER	8	LGBH_BLOCK_INFO	
(20)	CHARACTER	8	LGBH_BLOCK_ NUMBER	
				block sequence number
(28)	CHARACTER	0	LGBH_DATA	records follow

```
!:erefstep.lg_general_log_block_header ------------------------------
!:refstep.lg_general_log_record_header ---------------- DFHLGLF 150 -
!
! Each record starts with a record header as defined here.
!
!-----------------------------------------------------------------
```

Table 418.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	GLRH_RECORD_ HEADER	

Table 418. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE IsA(GENLOGRECORD)	56	*	
(0)	CHARACTER	12	*	
(0)	UNSIGNED	4	GLRH_RECORD_ LENGTH	
				inclusive length of this record
(4)	UNSIGNED	4	GLRH_HEADER_ LENGTH	
				inclusive length of this header
(8)	UNSIGNED	4	GLRH_REC_ DATA_LEN	
				length of data following this header
(C)	CHARACTER	16	GLRH_TIMESTAMPS	timestamps
(C)	CHARACTER	8	GLRH_GMT	record time (GMT)
(14)	CHARACTER	8	GLRH_LOCAL	record time (LOCAL)
(1C)	CHARACTER	12	GLRH_TASK_INFO	logging task information
(1C)	CHARACTER	4	GLRH_TRAN_ID	transaction id
(20)	CHARACTER	4	GLRH_TASK_ID	task number
(24)	CHARACTER	4	GLRH_TERM_ID	terminal id
(28)	CHARACTER	12	GLRH_RECORD_ID	record identification
(28)	UNSIGNED	2	GLRH_REC_TYPE	start_of_run (sor) or user
(2A)	CHARACTER	2	GLRH_REC_ COMPID	logging component id
(2C)	CHARACTER	8	GLRH_REC_ JOURNAL	logging journal name
(34)	CHARACTER	4	GLRH_LGSSI	for DFHLGSSI conversion rtn
(34)	CHARACTER	1	GLRH_LGSSI_ FLAGS	not set for system log
	1...		GLRH_START_ OF_TASK	
				equivalent to JCSPSOTK
	.1..		GLRH_START_ OF_UOW	
				equivalent to JCSPLSTK
(35)	CHARACTER	3	GLRH_LGSSI_ RSVD	reserved
(38)	CHARACTER	0	GLRH_REC_DATA	

```
        !:erefstep.lg_ general_ log_record_header -----------------------------
        !:refstep.lg_ general_ log_start_of_run_record_body ----- DFHLGLF 159 -
        !
          ! When CICS connects to a MVS Logger General Log it writes a
          ! 'start-of-run' record to the log as the first record written
          ! during this run of CICS. This record is made up of a record header
        ! as defined above followed by the dsect "gl_ sor_body".
        !
        ! NOTE: "gl_   sor_body" is a particular case of 'caller data' referred
        ! to above.
        !
          ! The following diagram shows how a 'start-of-run' record appears
          ! within a General Log block.
        !
        ! general log
        !  __ ...
          ! __ a general log block
        ! __ _ _ block header (lgbh_ block_header)
        ! __ _  _ __ first cics record
        ! __ _ _ __ __   record header (glrh_record_header)
        ! __ _ _ __ __   start of run record body (gl_sor_body)
        ! __ _  _ __ next cics record
        ! __ __ _ __ ...
        ! __ _  _ __ last cics record
        ! __ __ __ ...
        !
          !---------------------------------------------------------------------
```

Table 419.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	GL_SOR_BODY	
(0)	STRUCTURE IsA(STARTOFRUNDATA)	20	*	
(0)	CHARACTER	20	SOR_CICS_INFO	start-of-run information
(0)	CHARACTER	4	SOR_CICS_ RELEASE	CICS version and release
(4)	CHARACTER	8	SOR_SPECIFIC_ APPLID	
				CICS specific applid
(C)	CHARACTER	8	SOR_CICS_ USERNAME	
				CICS userid

```
        !:erefstep.lg_general_log_start_of_run_record_body ------------------
        !: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 420.

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 421.

Len	Type	value	Name	Description
!:erefstep.lg_general_log_user_header ------------------------------				
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	

Table 421. (continued)

Len	Type	value	Name	Description
2	DECIMAL	2	USER_REC_TYPE	

LGGDS Log Manager Global Statistics

```
CONTROL BLOCK NAME = DFHLGGDS
DESCRIPTIVE NAME  = CICS Log Manager Logstream Global
Statistics
    @BANNER_START 02
                        DFHLGGDS
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION =
        This data area contains logstream global statistics
        provided by the Log Manager Domain.
        It is provided for use in users monitoring applications
        to map the statistics returned via the API or the statistics
        exit.
        There is a single instance of this data block.
LIFETIME =
        This data block is created by the Log Manager
        Domain to store statistics to be passed to the user in
        response to a request for statistics. The storage is
        released when the user task is detached.
        The DSECT also maps the contents of part of the SMF buffer
        created by the statistics domain and is used in the
        statistics exit.
STORAGE CLASS =
LOCATION =
        The user is passed a pointer to the head of the storage
        block.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Domain call buffer
 -------------------------------------------------------------------
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = from logger domain
    GLOBAL VARIABLES (Macro pass) = none
 -------------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGGDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 422.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHLGGDS	Log Mgr Global stats record
(0)	HALFWORD	2	LGGLEN	Record length
(2)	ADDRESS	2	LGGID	Log Manager logstream stats id
(4)	CHARACTER	1	LGGDVERS	Log Manager stats version
(5)	CHARACTER	3		Reserved

Table 422. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(8)	FULLWORD	4	LGGAKPFREQ	Keypoint Frequency
(C)	FULLWORD	4	LGGLGDEFER	Logdefer Interval
(10)	FULLWORD	4	LGGAKPSTKN	Number of Keypoints Taken
(14)	CHARACTER	4		Reserved
(18)	CHARACTER	4		Reserved
(18)		0	LGGEND	"*"
(18)		0	LGGDSLEN	"*-LGGLEN" Record length
Constants that denote a LG logstream global stats record				
(18)	SIGNED	0	LGGIDE	"92" Log Manager global stats id
(18)	BITSTRING	0	LGGVERS	"X'01'" Record version number

LGMS SMF Log Format *M6C

```
!:refstep.lg_mvssmf_log ------------------------------ DFHLGLF 364 -
!
!
! A CICS user journal (not the System Log) can be defined to reside
! upon SMF (a special log that MVS SMF manages). This log comprises
! a sequence of contiguous blocks, some of which are built and
! written by CICS.
!
! Each block built and written by CICS comprises a SMF block header,
! CICS SMF product section, followed by a CICS data section. The
! latter comprises of a variable number of CICS records. The format
! of the block header is defined by the dsect "smf_block_header".
!
! The SMF CICS data section, which only shows its start address, has
! been included for completeness. In reality this section includes a
! variable number of CICS records.
!
! Each CICS record comprise a record header followed by the caller
! data part. The format of the record header is defined by the dsect
! "glrh_record_header". The format of the caller data part is
! unknown at the Log Manager functional level. It usually comprises
! one or several other CICS component record headers. The record
! header fields "glrh_rec_type" and "glrh_rec_compid" indicates
! which CICS component is to be used to define this part of the
! record.
!
! The following diagram shows the physical layout of an SMF log
! block
!
! MVS SMF log
! __ first log block
! __ __ smf block header (smf_header)
! __ __ smf cics product section (smf_product_section)
! __ __ smf cics data section (smf_data_section)
! __ __ __ first cics record
! __ __ __ __ record header (lgrh_record_header)
! __ __ __ __ caller data
! __ __ __ next cics record
! __ __ __ ...
```

```
               !  __ __ __  last cics record
               !  __ __ __  ...
               !  __  next general log block
               !  __  ...
               !  __  last general log block
               !  __  ...
               !
               ! This copybook defines the SMF block header. It should be used in
               ! conjunction with the General Log copybook DFHLGGFD which defines
               ! the record header and user header.
               !
               !----------------------------------------------------------------
               !:refstep.lg_smf_log_block --------------------------- DFHLGLF 415 -
               !
               ! Each block starts with a block header as defined here.
               !
               !----------------------------------------------------------------
```

Table 423.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	158	SMF_BLOCK_HEADER	
(0)	STRUCTURE IsA(SMFLOGBLOCKHEADER)	158	*	
(0)	CHARACTER	44	SMF_HEADER	
(0)	UNSIGNED	2	SMFH_LEN	record length
(2)	UNSIGNED	2	SMFH_SEG	segment descriptor
(4)	CHARACTER	1	SMFH_FLG	operating system indicator (see constant prefixed smfh_flg below)
(5)	CHARACTER	1	SMFH_RTY	record type (see constant prefixed smfh_rty below)
(6)	CHARACTER	4	SMFH_TME	time record moved (HHMMSST+)
(A)	CHARACTER	4	SMFH_DTE	date record moved (0CYYDDD+)
(E)	CHARACTER	4	SMFH_SID	system identification
(12)	CHARACTER	4	SMFH_SSI	sub-system identification (see constant prefixed smfh_ssi below)
(16)	UNSIGNED	2	SMFH_STY	record subtype (see constant prefixed smfh_sty below)
(18)	UNSIGNED	2	SMFH_TRN	number of triplets in record
(1A)	UNSIGNED	2	SMFH_RSVD1	reserved
(1C)	UNSIGNED	4	SMFH_APS	offset to CICS product section
(20)	UNSIGNED	2	SMFH_LPS	length of CICS product section
(22)	UNSIGNED	2	SMFH_NPS	number of CICS product sections

Table 423. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	UNSIGNED	4	SMFH_ASS	offset to CICS data section
(28)	UNSIGNED	2	SMFH_ASL	length of CICS data section
(2A)	UNSIGNED	2	SMFH_ASN	number of CICS data sections
(2C)	CHARACTER	0	*	
(2C)	CHARACTER	114	SMF_PRODUCT_ SECTION	
(2C)	CHARACTER	2	SMFPS_VRM	record version format x'0vrm' v = version r = release m = modification (set to &SMF in DFHSYS)
(2E)	CHARACTER	8	SMFPS_PRN	product name (generic APPLID)
(36)	CHARACTER	8	SMFPS_SPN	specific APPLID
(3E)	CHARACTER	2	SMFPS_MFL	record maintenance indicator
(40)	CHARACTER	2	SMFPS_RSVD2	reserved
(42)	CHARACTER	52	SMFPS_RSVD3	reserved
(76)	CHARACTER	8	SMFPS_JNM	journal name
(7E)	CHARACTER	8	SMFPS_JBN	jobname
(86)	CHARACTER	4	SMFPS_RSD	job date
(8A)	CHARACTER	4	SMFPS_RST	job time
(8E)	CHARACTER	8	SMFPS_UIF	user identification
(96)	CHARACTER	8	SMFPS_PDN	operating system product level
(9E)	CHARACTER	0	*	
(9E)	CHARACTER	0	SMF_DATA_ SECTION	CICS records
(9E)	CHARACTER	0	SMFDS_DATA	records follow

Constants

Table 424.

Len	Type	value	Name	Description
!:erefstep.lg_smf_log_block ---				
4	CHARACTER	CICS	SMFH_SSI_CICS	sub-system identification
1	CHAR HEX	DE	SMFH_FLG_ESA4	MVS/ESA V4
1	CHAR HEX	6E	SMFH_RTY_110	record type 110 for CICS
2	DECIMAL	0	SMFH_STY_LG	for journaling
2	DECIMAL	1	SMFH_STY_MN	for monitoring

Table 424. (continued)

Len	Type	value	Name	Description
2	DECIMAL	2	SMFH_STY_ST	for statistics
4	DECIMAL	2	SMFH_NUMBER_TRIPLETS	
4	DECIMAL	0	SMFH_MFL_ID	
2	DECIMAL	0	SMFPS_MFL_0	
4	DECIMAL	44	SMFH_PRD_SECT_OFFSET	
4	DECIMAL	114	SMFH_PRD_SECT_LENGTH	
4	DECIMAL	1	SMFH_PRD_SECT_NUMBER	
4	DECIMAL	158	SMFH_DATA_SECT_OFFSET	
4	DECIMAL	0	SMFH_DATA_SECT_LENGTH	
4	DECIMAL	1	SMFH_DATA_SECT_NUMBER	
4	DECIMAL	32756	SMF_MAX_BLOCK_LEN	
4	DECIMAL	32598	SMF_MAX_DATA_SECTION_LEN	

LGRDS Log Manager Journal Statistics *M6C

```
CONTROL BLOCK NAME = DFHLGRDS
DESCRIPTIVE NAME  = CICS Log Manager Journal Statistics
   @BANNER_START 02

                      DFHLGRDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
      CICS level at which this module was last updated
FUNCTION =
      This data area contains journal statistics provided by
      the Log Manager Domain.
      It is provided for use in users monitoring applications
      to map the statistics returned via the API or the statistics
      exit.
      There is a single instance of this data block.
LIFETIME =
      This data block is created by the Log Manager
      Domain to store statistics to be passed to the user in
      response to a request for statistics. The storage is
      released when the user task is detached.
      The DSECT also maps the contents of part of the SMF buffer
      created by the statistics domain and is used in the
      statistics exit.
STORAGE CLASS =
LOCATION =
      The user is passed a pointer to the head of the storage
      block.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Domain call buffer
 ----------------------------------------------------------------
EXTERNAL REFERENCES = none
```

```
      DATA AREAS = none
      CONTROL BLOCKS = from logger domain
      GLOBAL VARIABLES (Macro pass) = none
   -----------------------------------------------------------------
      ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGRDS IS
      NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
      PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 425.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHLGRDS	Log Mgr Resid stats record
(0)	HALFWORD	2	LGRLEN	Record length
(2)	ADDRESS	2	LGRID	Log Manager stats id
(4)	CHARACTER	1	LGRDVERS	Log Manager stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	LGRJNLNAME	Journal name
(10)	BITSTRING	1	LGRJTYPE	Journal type (MVS,SMF,Dummy)
(11)	CHARACTER	1		Reserved
(12)	CHARACTER	26	LGRSTREAM	Log stream name
(2C)	FULLWORD	4	LGRWRITES	No of journal writes
(30)	BITSTRING	8	LGRBYTES	Total No of bytes written
(38)	FULLWORD	4	LGRBUFLSH	No of buffer flush requests
(3C)	CHARACTER	8		Reserved
(3C)		0	LGREND	"*"
(3C)		0	LGRDSLEN	"*-LGRLEN" Record length
Constants that denote a LG stats record				
(3C)	SIGNED	0	LGRIDR	"93" Log Manager resid stats id
(3C)	BITSTRING	0	LGRVERS	"X'01'" Record version number
LGRJTYPE enumeration				
(3C)	SIGNED	0	LGRJTYPEMVS	"1" MVS log stream
(3C)	SIGNED	0	LGRJTYPESMF	"2" SMF log
(3C)	SIGNED	0	LGRJTYPEDMY	"3" Dummy log

LGSDS Log Manager Logstream Statistics *M6C

```
      CONTROL BLOCK NAME = DFHLGSDS
      DESCRIPTIVE NAME  = CICS Log Manager Logstream Statistics
        @BANNER_START 02
                         DFHLGSDS
        Licensed Materials - Property of IBM
        "Restricted Materials of IBM"
        5655-S97
        @BANNER_END
```

```
                   FUNCTION =
                         This data area contains logstream statistics provided by
                         the Log Manager Domain.
                         It is provided for use in users monitoring applications
                         to map the statistics returned via the API or the statistics
                         exit.
                         There is a single instance of this data block.
                   LIFETIME =
                         This data block is created by the Log Manager
                         Domain to store statistics to be passed to the user in
                         response to a request for statistics. The storage is
                         released when the user task is detached.
                         The DSECT also maps the contents of part of the SMF buffer
                         created by the statistics domain and is used in the
                         statistics exit.
                   STORAGE CLASS =
                   LOCATION =
                         The user is passed a pointer to the head of the storage
                         block.
                   INNER CONTROL BLOCKS = none
                   NOTES :
                      DEPENDENCIES = S/370
                      RESTRICTIONS = none
                      MODULE TYPE = Domain call buffer
                 ----------------------------------------------------------------
                   EXTERNAL REFERENCES = none
                       DATA AREAS = none
                       CONTROL BLOCKS = from logger domain
                       GLOBAL VARIABLES (Macro pass) = none
                 ----------------------------------------------------------------
                   ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGSDS IS
                   NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
                   PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 426.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHLGSDS	Log Mgr Resid stats record
(0)	HALFWORD	2	LGSLEN	Record length
(2)	ADDRESS	2	LGSID	Log Manager logstream stats id
(4)	CHARACTER	1	LGSDVERS	Log Manager stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	26	LGSSTRNAM	Log stream name
(22)	CHARACTER	2		Reserved
(24)	FULLWORD	4	LGSWRITES	No of log writes
(28)	BITSTRING	8	LGSBYTES	Total No of bytes written
(30)	FULLWORD	4	LGSCUFWTRS	Current number of force waiters
(34)	FULLWORD	4	LGSPKFWTRS	Peak number of force waiters
(38)	FULLWORD	4	LGSTFCWAIT	Total number of force waits
(3C)	FULLWORD	4	LGSBUFWAIT	No of waits due to buffer full

Table 426. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	FULLWORD	4	LGSBRWSTRT	No of log browse starts
(44)	FULLWORD	4	LGSBRWREAD	No of log browse reads
(48)	FULLWORD	4	LGSDELETES	No of log deletes
(4C)	FULLWORD	4	LGSRTYERRS	No of retryable errors
(50)	FULLWORD	4	LGSBUFAPP	No of buffer append reqs
(54)	CHARACTER	1	LGSSYSLG	System log flag
(55)	CHARACTER	1	LGSDONLY	DASD only flag
(56)	CHARACTER	2		Reserved
(58)	CHARACTER	16	LGSSTRUC	CF structure name
(68)	FULLWORD	4	LGSMAXBL	Max block length
(6C)	FULLWORD	4	LGSRETPD	Data retention period
(70)	CHARACTER	1	LGSAUTOD	Data auto delete flag
(71)	CHARACTER	3		Reserved
(74)	FULLWORD	4	LGSQUERIES	No of log queries
(78)	CHARACTER	4		Reserved
(78)		0	LGSEND	"*"
(78)		0	LGSDSLEN	"*-LGSLEN" Record length
Constants that denote a LG logstream stats record				
(78)	SIGNED	0	LGSIDR	"94" Log Manager resid stats id
(78)	BITSTRING	0	LGSVERS	"X'01'" Record version number
(78)	BITSTRING	0	LGSSLYES	"X'01'" System log flag - yes
(78)	BITSTRING	0	LGSSLNO	"X'02'" System log flag - no
(78)	BITSTRING	0	LGSDOYES	"X'01'" DASD only log stream - yes
(78)	BITSTRING	0	LGSDONO	"X'02'" DASD only log stream - no
(78)	BITSTRING	0	LGSADYES	"X'01'" Auto delete log stream - yes
(78)	BITSTRING	0	LGSADNO	"X'02'" Auto delete log stream - no

APLI Program Language Block

```
!:refstep.plb --------------------------------------- DFHLIDC 101 -
!
!
! This copybook contains the declarations for the Program Language
! Block.
```

```
            !
            !------------------------------------------------------------
              CONTROL BLOCK Name = DFHLILBC
              DESCRIPTIVE NAME  = CICS Program Language Block
                       This Copy Book describes the Program Language Block
               @BANNER_START 04
               OCO Source Materials DFHLIDC
               5655-S97
               The source code for the program is not published
               or otherwise divested of its trade secrets,
               irrespective of what has been deposited with the
               @BANNER_END
              FUNCTION = Holds Language details needed during the running of
                       an application program.
              LIFETIME = Task
              Storage CLASS = CICS.
              Notes :
               Dependencies = S/370
               Restrictions =
               Module Type = Control block definition
             ------------------------------------------------------------
```

Table 427.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	76	PLB	
(0)	CHARACTER	8	PLB_PROGRAM_NAME	
(8)	FULLWORD	4	PLB_USE_COUNT	
(C)	CHARACTER	1	PLB_SUNDRY_FLAGS	
(C)	BIT(8)	1	*	
	1...		PLB_DYING	
	.1..		PLB_DATALOC_ ANY	datalocation any applies
	..1.		PLB_EXECKEY_ CICS	execution key = cics
	...1		PLB_OPENAPI	API(OPENAPI)
	.... 1...		PLB_ENQ_LOCK	ENQ lock is active
	.... .1..		PLB_JVM	program runs under Java Virtual Machine
	.... ..1.		PLB_JVM_DEBUG	JVM debug
	1		PLB_XPLINK	xplink program
(D)	CHARACTER	1	PLB_USERS_ LANGUAGE	lang as defined by user
(E)	CHARACTER	2	PLB_PROGRAM_MODE	TCB mode for program
(10)	ADDRESS	4	PLB_LOAD_POINT	
(10)	ADDRESS	4	PLB_JVM_ CLASS_PTR	address of class data for JVM programs
(14)	ADDRESS	4	PLB_ENTRY_POINT	
(18)	FULLWORD	4	PLB_PROGRAM_ LENGTH	
(1C)	ADDRESS	4	PLB_LOCK_TOKEN	for automatic storage tuning

Table 427. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	CHARACTER	36	PLB_PGMINFO2	ERTLI program extension
(20)	FULLWORD	4	PLB_PRGINLEN	ERTLI extension length
(24)	CHARACTER	4	PLB_RWA31	31bit run-unit w/a length
(24)	BIT(8)	1	*	
	1...		PLB_RWA31_ ABOVE	ON=31-bit stg reqd (C/370)
(25)	UNSIGNED	3	PLB_RWA31_LEN	
(28)	FULLWORD	4	PLB_RWA24	24bit run-unit w/a length
(2C)	CHARACTER	4	PLB_LANGUAGE	language flags
(2C)	BIT(8)	1	PLB_LANG1	
	1...		PLB_CEE_ ENABLED	
	.1..		PLB_LANGUAGE_ KNOWN	
	..1.		PLB_MIXED_ LANGUAGE	
	...1		PLB_COMPATIBILITY	
	.... 1...		PLB_CEE_ EXECUTABLE	
	.... .1..		PLB_ASSEMBLER	
	.... ..1.		PLB_C370	
	1		PLB_COBOL2	
(2D)	BIT(8)	1	PLB_LANG2	
	1...		PLB_OSCOBOL	
	.1..		PLB_PLI	
	..11 1111		*	reserved
(2E)	BIT(8)	1	*	reserved
(2F)	BIT(8)	1	*	
	1111 111.		*	reserved
	1		PLB_UPDATE_ PGMINFO2	
				update tune info
(30)	FULLWORD	4	PLB_MEMID	language member id
(34)	ADDRESS	4	PLB_GLOBAL_ OPTIONS	
				addr of CEECOPT
(38)	ADDRESS	4	PLB_USER_ OPTIONS	addr of CEEUOPT
(3C)	ADDRESS	4	PLB_STG_ TUNE_ADDR	stg tune area

Table 427. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	ADDRESS	4	PLB_REAL_ ENTRY_POINT	
				true entry point
(44)	CHARACTER	8	PLB_JVMSERVER	jvmserver name

Table 428.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	257	PLB_JVM_CLASS	
(0)	HALFWORD	2	PLB_JVM_ CLASS_LENGTH	
(2)	CHARACTER	255	PLB_JVM_ CLASS_DATA	

LLDC TC local logical device code table

```
CONTROL BLOCK NAME = DFHLLDC
DESCRIPTIVE NAME  = CICS (TC) Local Logical Device Code Table
   @BANNER_START 02
                         DFHLLDC
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
                 LOCAL LOGICAL DEVICE CODE
                    AVAILABILITY LIST
The Local Logical Device Code (LLDC) is an optional table that is
used to override values specified in the System Logical Device Code
(SLDC) table. The LLDC table is generated by the
DFHTCT TYPE=TERMINAL or DFHTCT TYPE=LDCLIST macro instructions.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 ------------------------------------------------------------------
```

Table 429.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHLLDC	
(0)	BITSTRING	1	LLDCFLGS	FLAGS
(0)	BITSTRING	0	LLDCEXT	"X'80'" EXTENDED LOCAL LIST
(0)	CHARACTER	2	LLDCMN	LOGICAL DEVICE CODE MNEMONIC
(2)	BITSTRING	1	LLDCCD	LOGICAL DEVICE CODE
(2)		0	LLDCEND	"*" END OF LOCAL LOGICAL DEVICE CODE ENTRY

Table 429. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)		0	LLDCLEN	"*-DFHLLDC" LENGTH OF LOCAL LDC ENTRY

LESRV Service routine vector

```
MODULE NAME = DFHLESRV
DESCRIPTIVE NAME  = CICS Service routine vector
                @BANNER_START 02
                                  DFHLESRV
                Licensed Materials - Property of IBM
                "Restricted Materials of IBM"
                5655-S97
                @BANNER_END
FUNCTION = Bilingual copybook to map the service routine vector

    Vector of routines provided to Language Environment
```

Table 430.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	136	DFH_SERVICE_ VECTOR	
(0)	FULLWORD	4	DFH_SERVICE_ VECTOR_LENGTH	
				vector length
(4)	BIT(32)	4	DFH_SERVICE_ FLAGS	availability
(4)	BIT(8)	1	DFH_SERVICE_ FLAG_BYTE1	
	1...		DFHGCAA_AVAIL	
	.1..		DFHSCAA_AVAIL	
	..1.		DFHLEGM_AVAIL	
	...1		DFHLEFM_AVAIL	
	.... 1...		DFHLEAS_AVAIL	
	.... .1..		DFHLEDS_AVAIL	
	.... ..1.		DFHLEGQ_AVAIL	
	1		DFHLEFQ_AVAIL	
(5)	BIT(8)	1	DFH_SERVICE_ FLAG_BYTE2	
	1...		DFHLETR_AVAIL	
	.1..		DFHLEDT_AVAIL	
	..1.		DFHLERO_AVAIL	
	...1 1111		*	reserved
(6)	BIT(8)	1	DFH_SERVICE_ FLAG_BYTE3	
				reserved

Table 430. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE4	
				reserved
(8)	CHARACTER	128	DFH_SERVICE_ROUTINES	
(8)	ADDRESS	4	DFHGCAA_ADDRESS	get anchor
(C)	ADDRESS	4	DFHSCAA_ADDRESS	set anchor
(10)	ADDRESS	4	DFHLEGM_ADDRESS	getmain
(14)	ADDRESS	4	DFHLEFM_ADDRESS	freemain
(18)	ADDRESS	4	DFHLEAS_ADDRESS	add subpool
(1C)	ADDRESS	4	DFHLEDS_ADDRESS	delete subpool
(20)	ADDRESS	4	DFHLEGQ_ADDRESS	get quickcell
(24)	ADDRESS	4	DFHLEFQ_ADDRESS	free quickcell
(28)	ADDRESS	4	DFHLETR_ADDRESS	trace
(2C)	ADDRESS	4	DFHLEDT_ADDRESS	transaction dump
(30)	ADDRESS	4	DFHLERO_ADDRESS	runtime options
(34)	ADDRESS	4	* (4294967317:0)	reserved

LUC Parameter list

```
CONTROL BLOCK NAME = DFHLUCPS
DESCRIPTIVE NAME  = CICS DFHLUC Parameter List
 @BANNER_START 02

                      DFHLUCPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
    Contains the request and response for modules called by
    the DFHLUC macro.
    When the DFHLUC macro is used to invoke a LU6.2 request
    appropriate fields in the parameter list are set, and
    module DFHZARL is invoked. All information passed to
    and from DFHZARL is passed in this parameter list.
    It is also used to pass information from DFHZARL to
    DFHZERH and DFHZARR for certain requests, and to DFHZXR3
    for LU6.2 transaction routing.
LIFETIME =
STORAGE CLASS =
LOCATION =
    The control block is located in the LIFO storage of the
    module which issues the DFHLUC macro; it may also
    be copied into the LIFO of the called module.
INNER CONTROL BLOCKS = None
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-----------------------------------------------------------------
 EXTERNAL REFERENCES = None
   DATA AREAS = None
```

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

Table 431.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	DFHLUCDS	
The first part of the parameter list is common to all requests				
(0)	CHARACTER	1	LUCOPN0	MAJOR REQUEST BYTE
(1)	CHARACTER	1	LUCOPN1	MINOR REQUEST BYTE 1
(1)	CHARACTER	0	*	ALLOCATE / ALLOCATE PRIV
	1...		LUCNOQ	NOQUEUE specified
	.1..		LUCASYSV	LUCASYS is valid
	..1.		*	
	...1		*	
	.... 1...		LUCAPRFV	APROFILE specified
	.... .1..		LUCNPRFV	NPROFILE specified
	.... ..1.		*	
	1		*	
(1)	CHARACTER	0	*	INITIAL CALL, SEND, SEND-FMH
	1...		LUCFROM	Initial data provided or application data provided
	.1..		LUCLISTV	LLID data specified
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	
(1)	CHARACTER	0	*	ISSUE ABEND / ISSUE ERROR
	1...		LUCABUSE	User invocation
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	

Table 431. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	CHARACTER	0	*	ISSUE ATTACH request
	1...		LUCNOCHK	TPN check not required
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	
(1)	CHARACTER	0	*	RECEIVE / RECEIVE FMH request
	1...		LUCSET	SET option specified
	.1..		LUCBELOW	DATALOC option
	..1.		LUCNOLA	Look Ahead option
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	
(1)	CHARACTER	0	*	SYNC-COMMITTED request
	1...		LUCEXPF	Explicit FORGET specified
	.1..		LUCIMPF	Implicit FORGET specified
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	
(1)	CHARACTER	0	*	FREE request
	1...		LUCFRIMP	IMPLICIT free
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	

Table 431. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		*	
	1		*	
(2)	CHARACTER	1	LUCOPN2	MINOR REQUEST BYTE 2
(2)	CHARACTER	0	*	ALLOCATE / ALLOCATE-PRIV
	1...		LUCMODNV	LUCMODNM is valid
	.1..		LUCATI	'ATI' Allocate
	..1.		LUCPRIV	ALLOCATE PRIV request
	...1		LUCNETV	NETNAME= specified
	.... 1...		LUCMNPRF	Modename set to use profile modename
	.... .1..		*	
	.... ..1.		*	
	1		*	
(2)	CHARACTER	0	*	ISSUE ERROR / ISSUE ABEND
	1...		LUCAMSGV	LUCAMSG, LUCLMSG valid
	.1..		LUCSENSV	LUCSENSE is valid
	..1.		LUCMSGNV	LUCMSGNO is valid
	...1		*	
	.... 1...		LUCSSEND	STATE=SEND was specified
	.... .1..		LUCSRECV	STATE=RECEIVE specified
	.... ..1.		*	
	1		*	
(2)	CHARACTER	0	*	RECEIVE request
	1...		LUCLLID	receive LLID
	.1..		LUCBUFR	receive BUFFER
	..1.		LUCIMMED	SUBTYPE=IMMEDIATE specified
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	
(2)	CHARACTER	0	*	SEND / SEND-FMH request

Table 431. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		LUCNVIT	INVITE option
	.1..		LUCLAST	LAST option (also used for SYNC-PREPARE and SYNC-REQ-COMMIT
	..1.		LUCCONF	CONFIRM option
	...1		LUCFLSH	WAIT (or FLUSH!) option
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	
(3)	CHARACTER	1	LUCOPN3	MINOR REQUEST BYTE 3
(3)	CHARACTER	0	*	
	1...		LUCSYSCL	System call
	.1..		LUCNOSIG	Do not return SIGNAL (Rec)
	..1.		LUCNOSF	Do not return sess fails
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	
(4)	CHARACTER	6	LUCRCODE	FEEDBACK FOR REQUEST RELATED ERRORS
(4)	CHARACTER	1	LUCRCOD1	MAJOR ERROR BYTE
(5)	CHARACTER	1	LUCRCOD2	MINOR ERROR BYTE
(6)	CHARACTER	1	LUCRCOD3	MINOR ERROR BYTE
(7)	CHARACTER	1	LUCRCOD4	Reserved
(8)	CHARACTER	1	LUCRCOD5	Reserved
(9)	CHARACTER	1	LUCRCOD6	Reserved
(A)	CHARACTER	6	LUCSDBLK	FEEDBACK FOR Conversation Related Errors
(A)	CHARACTER	1	LUCFDBK1	STORAGE DEFINITION
	1...		LUCCIDCM	1 - DATA COMPLETE

Table 431. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		LUCCISYN	1 - SYNCPOINT REQ'D
	..1.		LUCCIFRE	1 - FREE REQUESTED
	...1		LUCCIREC	1 - RECEIVE REQUIRED
	.... 1...		LUCCISIG	1 - SIGNAL RECEIVED
	.... .1..		LUCCICON	1 - CONFIRMATION REQ'D
	.... ..1.		LUCCIERR	1 - ERROR RECEIVED
	1		LUCCIRBK	1 - ROLLBACK REQUESTED
(B)	CHARACTER	1	LUCFDBK2	
	1...		LUCCINEG	Negative response received
	.1..		LUCCINSU	RECEIVE IMMEDIATE was unsuccesful
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	
(C)	CHARACTER	4	LUCCDRCD	ERROR CODE RECEIVED
(10)	ADDRESS	4	LUCTTERQ	ADDRESS OF TCTTE FOR THE CURRENT REQUEST
The second part of the parameter list is used by some requests only, and in different ways by each request:				
(14)	CHARACTER	0	LUCORG	ADDITIONAL PARAMETERS ARE OVERLAID ON LUCORG

Overlay for ALLOCATE and ALLOCATE-PRIV requests

Table 432.

Offset Hex	Type	Len	Name (dim)	Description
(14)	STRUCTURE	52	*	
inputs				
(14)	ADDRESS	4	LUCASYS	SYSID (TCTSE) ADDRESS

Table 432. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER	4	LUCNSYS	SYSID (TCTSE) NAME
(1C)	CHARACTER	8	LUCMODNM	MODENAME
outputs				
(24)	ADDRESS	4	LUCTTEAL	ADDRESS OF ALLOCATED TCTTE
further inputs				
(28)	ADDRESS	4	LUCAPROF	Address of PROFILE
(2C)	CHARACTER	8	LUCNPROF	Name of PROFILE
(34)	FULLWORD	4	LUCNETNL	Netname length
(38)	CHARACTER	8	LUCNETNM	Netname
(40)	CHARACTER	8	LUCMGAL	Mode group allocated

```
Overlay for EXTRACT PROCESS requests
```

Table 433.

Offset Hex	Type	Len	Name (dim)	Description
(14)	STRUCTURE	92	*	
outputs				
(14)	CHARACTER	1	LUCEPCON	CONVTYPE SPECIFIED IN LU6.2 ATTACH FMH RECEIVED
(15)	CHARACTER	1	LUCEPSYN	SYNCLEVEL SPECIFIED IN LU6.2 ATTACH FMH RECEIVED
(16)	CHARACTER	1	LUCTTPNL	ACTUAL LENGTH OF TPN IN LU6.2 ATTACH FMH RECEIVED
(17)	CHARACTER	64	LUCTTPN	TPN IN LU6.2 ATTACH FMH RECEIVED
(57)	CHARACTER	1	*	alignment
(58)	ADDRESS	4	LUCPIPDA	address of PIP list
(5C)	HALFWORD	2	LUCPIPDL	LENGTH OF PIPLIST
(5E)	CHARACTER	8	LUCMODEN	Mode name
(66)	HALFWORD	2	LUCLUNML	Length of fully qualified LU name
(68)	CHARACTER	8	LUCLUNAM	Qualified LU name

```
Overlay for FREE STORAGE request
```

Table 434.

Offset Hex	Type	Len	Name (dim)	Description
(14)	STRUCTURE	4	*	

Table 434. (continued)

Offset Hex	Type	Len	Name (dim)	Description
inputs				
(14)	ADDRESS	4	LUCASTG	ADDR STORAGE TO BE FREED

Overlay for GET-MY-LUNAME request

Table 435.

Offset Hex	Type	Len	Name (dim)	Description
(14)	STRUCTURE	4	*	
outputs				
(14)	ADDRESS	4	LUCALUNM	ADDRESS OF QUALIFIED LUNAME - ONE BYTE LENGTH FOLLOWED BY QUALIFIED LUNAME

Overlay for ISSUE-ABEND and ISSUE-ERROR requests

Table 436.

Offset Hex	Type	Len	Name (dim)	Description
(14)	STRUCTURE	12	*	
inputs				
(14)	ADDRESS	4	LUCAMSG	MESSAGE TEXT ADDRESS
(18)	HALFWORD	2	LUCLMSG	MESSAGE TEXT LENGTH
(1A)	CHARACTER	2	LUCMSGNO	MESSAGE NUMBER
(1C)	CHARACTER	4	LUCSENSE	SENSE CODE

Overlay for ISSUE-ATTACH request

Table 437.

Offset Hex	Type	Len	Name (dim)	Description
(14)	STRUCTURE	68	*	
inputs				
(14)	CHARACTER	1	LUCRQCON	CONVTYPE REQUIRED IN LU6.2 ATTACH FMH SENT
(15)	CHARACTER	1	LUCRQSYN	SYNCLEVEL REQUIRED IN LU6.2 ATTACH FMH SENT
(16)	CHARACTER	1	LUCFTPNL	LENGTH OF TPN FOR LU6.2 ATTACH FMH SENT
(17)	CHARACTER	64	LUCFTPN	TPN FOR LU6.2 ATTACH FMH SENT

Table 437. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(57)	CHARACTER	1	LUCPIP	PIP DATA TO BE SENT
	1...		*	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		LUCPIPI	1 - PIP DATA PRESENT

Overlay for RECEIVE (R) and RECEIVE-FMH (RF) requests

Table 438.

Offset Hex	Type	Len	Name (dim)	Description
(14)	STRUCTURE	16	*	
inputs				
(14)	ADDRESS	4	LUCTAREA	INTO AREA ADDR (R, RF)
(18)	FULLWORD	4	LUCTAREL	MAX. APPL LENG (R, RF)
outputs				
(1C)	ADDRESS	4	LUCBFPTR	SET DATA ADDR (R, RF)
(20)	FULLWORD	4	LUCTDATL	ACT. DATA LENG (R, RF)

Overlay for SEND (S), SEND-FMH (SF) and INITIAL-CALL requests

Table 439.

Offset Hex	Type	Len	Name (dim)	Description
(14)	STRUCTURE	16	*	
inputs				
(14)	ADDRESS	4	LUCFDATA	DATA ADDRESS (S, SF)
(18)	FULLWORD	4	LUCFDATL	DATA LENGTH (S, SF)
(1C)	ADDRESS	4	LUCLISTA	LIST address (Send)
(20)	FULLWORD	4	LUCLISTS	LIST size

Overlay for SYNC-PREPARE request

Table 440.

Offset Hex	Type	Len	Name (dim)	Description
(14)	STRUCTURE	1	*	
outputs				
(14)	CHARACTER	1	LUCSPRET	RESULT OF PREPARE
	1...		LUCSPRQD	RQD2 received
	.1..		LUCSPFGT	FORGET received
	..1.		LUCSPHM	HM Received
	...1		LUCSPVUR	Vote unreliable received
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	

Overlay for SYNC-REQ-COMMIT request

Table 441.

Offset Hex	Type	Len	Name (dim)	Description
(14)	STRUCTURE	1	*	
outputs				
(14)	CHARACTER	1	LUCSRRET	RESULT OF REQUEST COMMIT
	1...		LUCSRDR2	DR2 received
	.1..		LUCSRNVL	Invalid response received
	..1.		LUCSRHM	HM received
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	

Overlay for SYNC-COMMITTED request

Table 442.

Offset Hex	Type	Len	Name (dim)	Description
(14)	STRUCTURE	1	*	
outputs				
(14)	CHARACTER	1	LUCSCRET	RESULT OF COMMITTED
	1...		LUCSCFGT	FORGET received
	.1..		LUCSCNVL	Invalid response received

Table 442. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		LUCSCHM	HM Received
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	

Constants

Table 443.

Len	Type	value	Name	Description

The following constants define the values of LUCOPN0, the Major Request byte, allocated as follows:
    X'01' - X'0F' - APPLICATION LEVEL CALLS TO DFHZARL
    X'10' - X'1F' - SYSTEM LEVEL CALLS TO DFHZARL
    X'20' - X'??' - FOR CALLS FROM DFHZARL				

1	HEX	01	LUCALLOC	ALLOCATE REQUEST
1	HEX	02	LUCTSIG	TEST-SIGNAL request
1	HEX	03	LUCEXTP	EXTRACT PROCESS REQUEST
1	HEX	05	LUCFREE	FREE REQUEST
1	HEX	06	LUCIABN	ISSUE ABEND REQUEST
1	HEX	07	LUCIATT	ISSUE ATTACH REQUEST
1	HEX	08	LUCICON	ISSUE CONFIRMATION REQ
1	HEX	09	LUCIERR	ISSUE ERROR REQUEST
1	HEX	0A	LUCISIG	ISSUE SIGNAL REQUEST
1	HEX	0B	LUCRECV	RECEIVE REQUEST
1	HEX	0C	LUCSEND	SEND REQUEST
1	HEX	0D	LUCWAIT	WAIT REQUEST
1	HEX	10	LUCFRST	FREE STORAGE REQUEST
1	HEX	11	LUCICAL	INITIAL CALL REQUEST
1	HEX	12	LUCPRVAL	ALLOCATE-PRIV REQUEST
1	HEX	13	LUCPREP	SYNC PREPARE REQUEST

Table 443. (continued)

Len	Type	value	Name	Description
1	HEX	14	LUCRQCM	SYNC REQUEST COMMIT REQ
1	HEX	15	LUCCMTD	SYNC COMMITTED REQUEST
1	HEX	16	LUCFGET	SYNC FORGET REQUEST
1	HEX	18	LUCGLUN	Get LUNAME request
1	HEX	19	LUCRBCK	SYNC ROLLBACK REQUEST
1	HEX	1A	LUCSFMH	SEND FMH request
1	HEX	1B	LUCRFMH	RECEIVE-FMH REQUEST
1	HEX	1C	LUCUNBDC	UNBIND-CLEANUP request
1	HEX	1D	LUCISPRE	ISSUE-PREPARE request
1	HEX	20	LUCRERP	ERP FMH RECEIVED
1	HEX	21	LUCRNEG	NEG RESP RECEIVED
1	HEX	22	LUCLSDST	CLSDST call
1	HEX	23	LUCPRGSD	PURGE-SEND call
The following constants define the values of the Major Error byte LUCRCOD1:				
1	HEX	01	LUCESYSI	SYSID error
The following values of LUCRCOD2 qualify this value of LUCRCOD1: '08'X SYSID is out of service This is further qualified by the following values of LUCRCOD3: '00'X Local queueing was not attempted '04'X Local queueing did not succeed '0C'X SYSID is not known in TCT This is further qualified by the following values of LUCRCOD3: '00'X SYSID name is not known '04'X SYSID name is not that of a TCTSE '08'X SYSID.MODENAME is not known '0C'X SYSID.PROFILE is not known				
1	HEX	02	LUCESYSB	SYSBUSY error
1	HEX	03	LUCEINVR	INVREQ ERROR
The following values of LUCRCOD2 qualify this value of LUCRCOD1: '00'X Session is not defined as LU6.2 '04'X Converation level is wrong '08'X State error '0C'X Synclevel cannot be supported '0D'X Negative receive length (LUCTAREL) '10'X LL count error '11'X LL is invalid '12'X LL is incomplete '14'X Invalid request '18'X TPN send check failed '24'X Invalid request to ISSUE PREPARE				
Equates for LUCRCOD2 qualifiers documented above				
1	HEX	00	LUCERC00	
1	HEX	01	LUCERC01	
1	HEX	02	LUCERC02	
1	HEX	03	LUCERC03	

Table 443. (continued)

Len	Type	value	Name	Description
1	HEX	04	LUCERC04	
1	HEX	05	LUCERC05	
1	HEX	06	LUCERC06	
1	HEX	08	LUCERC08	
1	HEX	0C	LUCERC0C	
1	HEX	0D	LUCERC0D	Negative receive length
1	HEX	10	LUCERC10	
1	HEX	14	LUCERC14	
1	HEX	18	LUCERC18	
1	HEX	1C	LUCERC1C	
1	HEX	20	LUCERC20	
1	HEX	24	LUCERC24	
1	HEX	04	LUCENTAL	NOTALLOC error
1	HEX	05	LUCELENG	LENGERR ERROR
1	HEX	06	LUCEPROF	PROFILE not found
1	HEX	11	LUCERLLE	Invalid LL
1	HEX	12	LUCERLLI	Incomplete LL
Constant values for LUCRQCON (also used for LUCEPCON)				
1	HEX	00	LUCUNMP	CONVTYPE IS UNMAPPED (GDS)
1	HEX	01	LUCMAPD	CONVTYPE IS MAPPED (ELM)
Constant values for LUCRQSYN (also used for LUCEPSYN)				
1	HEX	00	LUCSYNC0	SYNCLEVEL 0 (NOSYNC)
1	HEX	01	LUCSYNC1	SYNCLEVEL 1 (CONFIRM)
1	HEX	02	LUCSYNC2	SYNCLEVEL 2 (SYNCPT)
Define the length of the control block				
4	DECIMAL	112	LUCLSTG	

LUM Parameter list

```
CONTROL BLOCK NAME = DFHLUMPS
DESCRIPTIVE NAME  = CICS DFHLUCM Parameter List
 @BANNER_START 02
                         DFHLUMPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
 FUNCTION =
     Contains the request and response for modules called by
```

```
           the DFHLUCM macro.
           When the DFHLUCM macro is used to invoke a LU6.2 migration
           request, appropriate fields in the parameter list are set,
           and module DFHZARM is invoked.
     LIFETIME =
     STORAGE CLASS =
     LOCATION =
           The control block is located in the LIFO storage of the
           module which issues the DFHLUCM macro.
     INNER CONTROL BLOCKS = None
     NOTES :
      DEPENDENCIES = S/370
      RESTRICTIONS =
      MODULE TYPE = Control block definition
    ----------------------------------------------------------------
     EXTERNAL REFERENCES = None
       DATA AREAS = None
       CONTROL BLOCKS = None
       GLOBAL VARIABLES (Macro pass) =
    ----------------------------------------------------------------
```

Table 444.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	DFHLUMDS	
MAJOR AND MINOR REQUEST BYTES				
(0)	BIT(8)	1	LUMOPN0	MAJOR REQUEST BYTE
(1)	BIT(8)	1	LUMOPN1	MINOR REQUEST BYTE 1
(2)	BIT(8)	1	LUMOPN2	MINOR REQUEST BYTE 2
(3)	BIT(8)	1	LUMOPN3	MINOR REQUEST BYTE 3
OTHER DEFINITIONS				
(4)	ADDRESS	4	LUMTTERQ	ADDRESS OF TCTTE FOR THE CURRENT REQUEST
(8)	CHARACTER	4	LUMCDRCD	ERROR CODE, IF ANY, THAT HAS OCCURRED
(C)	CHARACTER	4	LUMPARMS	OVERLAY FOR ADDITIONAL PARAMETERS WHERE NEEDED
(C)	CHARACTER	2	LUMGDSID	GDS ID THAT IS EITHER UNKNOWN OR UNSUPPORTED
(E)	CHARACTER	2	*	Reserved

Constants

Table 445.

Len	Type	value	Name	Description
The following constants define the values of byte LUMOPN0				

Table 445. (continued)

Len	Type	value	Name	Description
1	HEX	01	LUMSEND	SEND REQUEST
1	HEX	02	LUMWAIT	WAIT REQUEST
1	HEX	03	LUMRECV	RECEIVE REQUEST
1	HEX	04	LUMSIGN	SIGNAL REQUEST
1	HEX	06	LUMFREE	FREE REQUEST
1	HEX	07	LUMBDID	INVALID ID REQUEST
1	HEX	08	LUMRSET	RESET REQUEST

LUSDS ZCP LU sevices manager parameter

```
CONTROL BLOCK NAME = DFHLUSPS
DESCRIPTIVE NAME  = CICS (ZCP) LU services manager parameter
                    list.
 @BANNER_START 02
                    DFHLUSPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     This control block is used to pass parameter information
     to the LU services manager.
     Note that the PLX version of this control block differs
     somewhat from the assembler version:
     1. The assembler version is prefixed by two halfwords
        which are used by DFHIC GET/PUT. Users of the PLX
        version are expected to manage define that extra
        storage themselves. This apparent snag is balanced by
        the fact that the PLX version is more useful for
        command level usage, where the length is logically
        separated from the data
     2. The assembler version does not define the DCE signoff
        structure, since no assembler code uses it
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 ----------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
   CONTROL BLOCKS =
   GLOBAL VARIABLES (Macro pass) =
 ----------------------------------------------------------------
```

Table 446.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHLUSPS	
(0)	CHARACTER	20	LUS_PV_PARM_LIST	2
(0)	BIT(8)	1	LUSTYPE	CALL TYPE
(1)	BIT(8)	1	*	Reserved

Table 446. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	HALFWORD	2	LUSUSERL	USERID ll(SIGNOFF)
(4)	CHARACTER	4	LUSNSYS	SYSID NAME
(8)	CHARACTER	8	LUSUSER	USERID (SIGNOFF)
(10)	ADDRESS	4	LUSURDA	A(URD)
(0)	CHARACTER	*	LUS_DCE_ PARM_LIST	
(0)	CHARACTER	4	LUS_IDENTIFIER	identifies the data
(4)	UNSIGNED	1	LUS_ITEM_COUNT	number of UUIDs
(5)	CHARACTER	54	UUID_ENTRIES (*)	
(5)	UNSIGNED	1	LUS_TABLE_FLAG	LOFT or LOTT table
(6)	CHARACTER	4	LUS_CONNECTION	connection id
(A)	CHARACTER	16	LUS_CURRENT_ UUID	Current uuid
(1A)	CHARACTER	32	LUS_PARTNER_ UUIDS	
				Partners uuids
(3A)	UNSIGNED	1	LUS_MECHANISM_ ID	mechanism

Constants

Table 447.

Len	Type	value	Name	Description
The following constants define the values of byte LUSTYPE				
1	HEX	05	LUSRSYNC	RESYNC
1	HEX	06	LUSSOFF	SIGNOFF
1	HEX	07	LUSTOUT	TIMEOUT
The following constant defines the values of LUS_IDENTIFIER				
4	CHARACTER	*DCE	LUS_DCE	
The following constants define the values of LUS_TABLE_FLAG				
1	HEX	01	LUS_SIGNED_ON_TO	
1	HEX	02	LUS_SIGNED_ON_FROM	
The following constant defines the values of LUS_MECHANISM_ID0				
1	HEX	01	LUS_DCE_TICKET	

MAP BMS map object DSECT

```
MODULE NAME = DFHMAPDS
DESCRIPTIVE NAME  = CICS/ESA BMS MAP OBJECT DSECT
                  DUAL LANGUAGE DSECT
  @BANNER_START 02

                  DFHMAPDS
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
```

```
                    5655-S97
                    @BANNER_END
                    FUNCTION = DUAL LANGUAGE DSECT FOR THE BMS MAP OBJECT. CONTAINS
                               SEPARATE SECTIONS FOR THE MAPSET HEADER, THE TAB MAP,
                               THE MAP HEADER, THE MAPNAME ALIAS EXTENSION AREA, AND
                               THE FIELD SPECIFICATION.
                               THE MAP OBJECT IS BUILT BY THE MAP DEFINITION MACROS
                               ON ASSEMBLING A MAP SPECIFYING SYSPARM=-MAP. IT IS
                               STORED IN THE PROGRAM LIBRARY WITH A PPT ENTRY. IT IS
                               LOADED INTO MAIN MEMORY BY DFHMCP.
                               THE MAP OBJECT IS REFERENCED BY BMS MODULES.
                    NOTES :
                     DEPENDENCIES = S/370
                     RESTRICTIONS = NONE
                     MODULE TYPE = Control Block
                    EXTERNAL REFERENCES = NONE
                     MACROS = NONE
```

Table 448.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	DFHMAPDS	DUMMY SECTION - MAP DESCRIPTION
	MAP SET SPECIFICATIONS			
(0)	CHARACTER	8	BMSNAME	MAP SET NAME
(8)	UNSIGNED	1	BMSTRL	PAGE OVERFLOW TRAILER LENGTH
(9)	CHARACTER	1	*	RESERVED
(A)	CHARACTER	2	BMSDELDM	DEFAULT LDC MNEMONIC
(C)	CHARACTER	0	BMSMSHEA	MAP SET HEADER ENDING ADDRESS

```
                       TAB FORMAT MAP SPECIFICATIONS
```

Table 449.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	18	BMSTABM	
FIELDS ARE SEQUENCE SENSITIVE WITH NORMAL MAP				
(0)	CHARACTER	1	BMSMTI	MAP TYPE INDICATOR
(1)	CHARACTER	3	*	RESERVED
(4)	BIT(8)	1	BMSTFMI	TAB MAP INDICATOR
	1...		*	
	.1..		BMSTFMV	VERTICAL TAB MAP
	..1.		BMSTFMH	HORIZONTAL TAB MAP
(5)	CHARACTER	3	*	RESERVED
(8)	CHARACTER	8	BMSTFN	TAB MAP NAME
(10)	HALFWORD	2	BMSTFL	TAB MAP LENGTH
(12)	CHARACTER	0	BMSTFEA	ENDING ADDRESS

```
                             MAP SPECIFICATIONS
```

Table 450.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	79	BMSMAPH	
FIELDS ARE SEQUENCE SENSITIVE WITH TAB FORMAT MAP				
(0)	HALFWORD	2	BMSMHLL	MAP HEADER LENGTH 0 FOR PRE1.7 MAPS X'8100' FOR TAB MAPS
(0)	CHARACTER	1	BMSMT	MAP TYPE CODE
(1)	CHARACTER	1	*	RESERVED
(2)	CHARACTER	2	BMSIPR	NAME OF INPUT PARTITION
(4)	ADDRESS	4	BMSMDA	MAP DATA ADDRESS
(4)	CHARACTER	2	BMSOPR	NAME OF OUTPUT PARTITION
(6)	CHARACTER	2	BMSAPR	NAME OF ACTIVE PARTITION
(8)	CHARACTER	8	BMSMNAME	MAP NAME
(10)	HALFWORD	2	BMSMS	MAP LENGTH, INCLUDING ANY MAP HEADER EXTENSION AREA
(12)	HALFWORD	2	BMSMSSL	IF BMSMODE(BMSMHEXT) IS SET ON THEN THIS IS THE OFFSET OF THE MAP HEADER EXTENSION AREA FROM THE START OF THE MAP HEADER. ON ENTRY TO DFHML1 IT HOLDS (NUMBER OF FIELDS)*10 AND DFHML1 USES THIS FIGURE OTHERWISE IT IS IGNORED
(14)	HALFWORD	2	BMSMSI	INPUT WORK AREA LENGTH
(16)	HALFWORD	2	BMSMSO	OUTPUT WORK AREA LENGTH
(18)	CHARACTER	1	BMSMODE	MAP DESCRIPTOR FLAG BYTE
	1...		BMSMODO	MODE = OUT
	.1..		BMSMODI	MODE = IN
	..1.		BMSMHEXT	THIS MAP OR MAP COPY HAS A MAP HEADER EXTENSION AREA

Table 450. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		*	
	.... 1...		BMSMODOF	THIS MAP ELIGIBLE FOR OUTBOARD FORMATING, IF ON AT ASSEMBLY TIME. IF ON IN M32 - MAP IS USED FOR OUTBOARD FORMAT
	.... .1..		BMSMODOR	THIS MAP (COPY) WHICH IS USED WITH AN OUTBOARD FORMAT HAS BEEN RELOCATED BY PBP. SET BY PBP, TESTED BY M32
	.... ..1.		BMSMODTC	THIS MAP (COPY) ALSO CONTAINS A TIOA COPY
	1		BMSDATB	DATA = BLOCK
(19)	CHARACTER	1	BMSWCC	3270 WRITE CONTROL CHARACTER
(1A)	HALFWORD	2	BMSCURSR	3270 CURSOR POSITION
(1C)	CHARACTER	1	BMSMARG	MAP MARGIN
	1...		*	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		BMSMARBG	JUSTIFY = BOTTOM
	.... .1..		BMSMARGR	JUSTIFY = RIGHT
	.... ..1.		BMSMARGL	JUSTIFY = LAST
	1		BMSMARGF	JUSTIFY = FIRST
(1D)	UNSIGNED	1	BMSML	MAP LENGTH - NUMBER OF LINES
(1E)	UNSIGNED	1	BMSMW	MAP WIDTH - NUMBER OF COLUMNS
(1F)	UNSIGNED	1	BMSMSL	MAP STARTING LINE NUMBER
(20)	UNSIGNED	1	BMSMSC	MAP STARTING COLUMN NUMBER
(21)	CHARACTER	1	BMSMI	MAP INDICATORS
	1...		BMSMIXM	EXTENDED ATTRS IN MAP

Table 450. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		BMSMIXD	EXTENDED ATTRS IN APPLICATION STRUCTURE
	..1.		BMSMIAL	1 = ALIGNED MAP, 0 =UNALIGNED MAP
	...1		BMSMI16	MAP ASSEMBLED AT CICS/VS 1.6 OR LATER
	.... 1...		BMSMICL	CURSOR IN FIELD IND REQD *
	.... .1..		BMSMIH	HEADER MAP
	.... ..1.		BMSMIT	TRAILER MAP
	1		BMSMIS	FIELDS ARE NOT IN SEQUENCE
(22)	CHARACTER	1	BMSMSTR2	TYPE REQUEST BYTE TWO FROM TCA
(23)	CHARACTER	1	BMSMSTR3	TYPE REQUEST BYTE THREE FROM TCA
	1...		*	
	.1..		*	
	..1.		BMSMSHON	HONEOM REQD ON O/P MAPPING * (EXEC I/F ONLY)
	...1		*	
	.... 1...		BMSMSTC	CURSOR = NUMBER
	.... .1..		BMSMSTCW	CTRL = ANY 3270 WCC
(24)	CHARACTER	1	BMSMSTR4	TYPE REQUEST BYTE FOUR FROM TCA
	1...		*	
	.1..		BMSMSTDN	DATA = NO
	..1.		BMSMSTRS	TYPE = SAVE
	...1		*	
	.... 1...		*	
	.... .1..		BMSMSTRM	TYPE = MAP
	.... ..1.		BMSMSTRE	TYPE = ERASE
	1		BMSMSTRI	TYPE = IN
(25)	CHARACTER	1	BMSMSTR5	TYPE REQUEST BYTE FIVE FROM TCA
	1...		BMSMSTRB	TYPE = PAGEBLD

Table 450. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		BMSMSTRO	TYPE = OUT
(26)	HALFWORD	2	BMSMSCP	CURSOR POSITION FROM TCA
(26)	HALFWORD	2	BMSDESCO	offset of ADS descriptor in loaded mapset, if present
(28)	CHARACTER	1	BMSMSWCC	WRITE CONTROL CHARACTERS FROM TCA
(29)	UNSIGNED	1	BMSATNO	FOR EXTENDED FORMAT MAPS, THE NUMBER OF BYTES IN BMSMATTS AND BMSDATTS =12 FOR RELEASE 1.7
(29)	CHARACTER	1	BMSMI2	MAP INDICATOR EXTENSION
	1...		BMSMI2RM	KANJI EXTENDED ATTRS IN MAP *
	.1..		BMSMI2RD	KANJI EXTENDED ATTRS IN APPLICATION STRUCTURE
(2A)	CHARACTER	0	BMSMSEA	MAP SPECIFICATION ENDING ADDRESS FOR PRE1.7 MAPS
EXTENDED FORMAT MAPS FOLLOWING FIELDS ARE ADDED FOR CICS R1.7 MAPS ASSEMBLED IN R170 AND AFTER WILL CONTAINS THESE FIELDS IN THE MAP HEADER				
(2A)	ADDRESS	4	BMSMCA	MAP CHAIN ADDRESS
(2E)	HALFWORD	2	BMSMAL	LENGTH OF ATTRIBUTES IN FIELD IN MAP
(30)	HALFWORD	2	BMSDAL	LENGTH OF ATTRIBUTES IN FIELD IN DATA STRUCTURE *

Table 450. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(32)	CHARACTER	12	BMSMATTS	MASK FOR ATTRIBUTES IN MAP FIELD: 00 - ATTR NOT IN FIELD NN - INDEX OF ATTR IN FLD *
(3E)	CHARACTER	12	BMSDATTS	MASK FOR ATTRIBUTES IN DATA STRUCTURE FIELD 00 - ATTR NOT IN FIELD NN - INDEX OF ATTR IN FLD *
(4A)	UNSIGNED	1	BMSFLDSL	LENGTH OF FIELD SEPARATOR 0 IF NOT SPECIFIED
(4B)	CHARACTER	4	BMSFLDSP	FIELD SEPARATOR UP TO FOUR CHARACTERS
(4F)	CHARACTER	0	BMSXMSEA	MAP SPECIFICATION ENDING ADDRESS FOR EXTENDED FORMAT MAPS

FIELD SPECIFICATIONS

Table 451.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	BMSFLD	
(0)	CHARACTER	8	BMSFSL	FIELD SPEC NO EXTATT
(0)	HALFWORD	2	BMSFPP	FIELD PAGE POSITION
(0)	UNSIGNED	1	BMSFPP_BYTE1	FIELD PAGE BYTE1
(1)	UNSIGNED	1	BMSFPP_BYTE2	FIELD PAGE BYTE2
(2)	HALFWORD	2	BMSFL	FIELD LENGTH
(4)	CHARACTER	1	BMSFDFB	FIELD DESCRIPTOR FLAG BYTE
	1...		BMSFDCM	CASE = MIXED
	.1..		BMSFDGFE	GROUP FIELD ENTRY
	..1.		BMSFDGFD	GROUP FIELD DESCRIPTOR
	...1		BMSFDPDA	ATTRB = DET
	.... 1...		BMSFDJZ	JUSTIFY = ZERO
	.... .1..		BMSFDJR	JUSTIFY = RIGHT

Table 451. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		BMSFDDD	INITIAL = ANY USER INFORMATION
	1		BMSFDNF	DSECT ENTRY EXISTS
(5)	CHARACTER	1	BMSFA	FIELD ATTRIBUTE
(6)	HALFWORD	2	BMSFP	FIELD POSITION
(8)	CHARACTER	0	BMSFEA	FIELD ENDING ADDRESS
(8)	CHARACTER	4	BMSXATTR	EXTENDED ATTRIBUTES
(8)	CHARACTER	1	BMSFXC	FIELD COLOR ATTRIBUTE
(9)	CHARACTER	1	BMSFXP	FIELD PSS ATTRIBUTE
(A)	CHARACTER	1	BMSFXH	FIELD HIGHLIGHT ATTRIBUTE
(B)	CHARACTER	1	BMSFXV	FIELD VALIDATION ATTRIBUTE
(C)	CHARACTER	0	BMSFEAL	FIELD END ADDRESS IF EXTENDED ATTRIBUTES INCLUDED

```
            ALIAS EXTENSION AREA
   THIS IS THE FIRST USE OF A MAP HEADER EXTENSION AREA. THIS
   FOLLOWS THE LAST FIELD IN A MAP, AND IS POINTED TO BY BMSMSS
   THE FLAG BMSMODE(BMSMHEXT) IS SET ON IF THIS AREA IS PRESENT
   THIS AREA CONTAINS A NUMBER OF EXTENSION RECORDS, EACH HEADE
   BY ONE BYTE LENGTH AND TYPE FIELDS. IT IS THUS EXTENDABLE.
   NOTE HOWEVER THAT THE CICS/VS 1.5 OBF CODE DOES NOT TEST THE
   EXTENSION RECORD TYPE AND LENGTH. ANY FURTHER USE OF THIS
   MAY REQUIRE REWORK OF THE OBF SUPPORT IN PBP AND M32.
   THE MAP ALIAS EXTENSION RECORD IS USED FOR PASSING THE NAMES
   OF OUTBOARD MAP-GROUP AND OUTBOARD FORMAT TO M32
```

Table 452.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	19	BMSALIAS	
(0)	UNSIGNED	1	BMSALLNG	LENGTH OF ALIAS EXTENSION
(1)	CHARACTER	1	BMSALTYP	TYPE CODE FOR ALIAS EXTENSION
	1...		*	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	

Table 452. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		*	
	.... ..1.		*	
	1		BMSALTEQ	ALIAS EXTENSION TYPE CODE
(2)	CHARACTER	8	BMSOGNME	OUTBOARD MAP-GROUP NAME
(A)	CHARACTER	8	BMSOFNME	OUTBOARD FORMAT NAME
(12)	CHARACTER	1	BMSOFFLG	FLAG BYTE
	1...		*	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		BMSOFMGS	MAP-GROUP NAME SUFFIXED
(13)	CHARACTER	0	BMSALEND	END OF ALIAS EXTENSION AREA

Constants

Table 453.

Len	Type	value	Name	Description
1	HEX	81	BMSMTF	INDICATING TAB MAP
1	HEX	C0	BMSMODIO	MODE = INOUT
1	HEX	FF	BMSMSLN	LINE = NEXT
1	HEX	FE	BMSMSLS	LINE = SAME
1	HEX	FF	BMSMSCN	COLUMN = NEXT
1	HEX	FE	BMSMSCS	COLUMN = SAME
1	HEX	C0	BMSMSTDY	DATA = YES

MBCA Transient data buffer control

```
MODULE NAME = DFHMBCPS
DESCRIPTIVE NAME  = Transient Data Buffer Control
                  CICS/ESA AP Domain
@BANNER_START 02

                  DFHMBCPS
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
FUNCTION =
```

```
          Copybook DFHMBCPS provides structures, DFHMBCA and
          DFHMBCB and DFHMQCB.
          DFHMBCA describes the Buffer Common Area (MBCA),
          only one MBCA is allocated.
          DFHMBCB describes the Buffer Control Block (MBCB),
          one MBCB is allocated for each I/O buffer.
          DFHMQCB describes the Queue Control Block (MQCB),
          one MQCB is allocated for each I/O buffer. MQCBs
          are used to optimize the search for I/O buffers
          containing records for a given queue.
     LIFETIME =
          The lifetime of the control blocks and I/O buffers
          is essentially that of CICS.
     STORAGE CLASS =
          The control blocks are located in storage allocated
          from the DFHTDG31 subpool.
          The I/O buffers, if required, are located in storage
          allocated from the DFHTDIOB subpool.
          Note that the number of I/O buffers is defined as
          a SIT parameter / override.
          Note also that the number of I/O buffers allocated
          may exceed the number requests where this does not
          cause further pages to be allocated.
     LOCATION =
          The MBCA is located from the TDST.
          MBCBs are located on one of three bi-directional
          chains whose anchors are located in the MBCA
             1. unallocated, I/O buffer is (logically) empty
             2. unallocated, I/O buffer contains valid data
             3. allocated, I/O buffer is (logically) modified
          MQCBs are located on one of many bi-directional
          chains
             1. anchor located in the MBCA when the associated
                MBCB is on chain 1
             2. anchor located in the relevant DCTE when the
                associated MBCB is on chain 2 or chain 3.
          Each MQCB may be located from its associated MBCB
          and vice versa.
     INNER CONTROL BLOCKS =
          There are no inner control blocks.
     NOTES :
      DEPENDENCIES =
          S/370
      RESTRICTIONS =
          There are no restrictions.
      MODULE TYPE =
          Control block definition.
                MULTIPLE BUFFERS - BUFFER COMMON AREA (MBCA)
```

Table 454.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	112	DFHMBCA	
(0)	CHARACTER	16	MBCA_PREFIX	prefix
(0)	HALFWORD	2	MBCA_LENGTH	- length
(2)	CHARACTER	1	MBCA_ARROW	- value - '>'
(3)	CHARACTER	3	MBCA_DFH	- value - 'DFH'
(6)	CHARACTER	2	MBCA_DOMID	- value - 'TD'
(8)	CHARACTER	8	MBCA_BLOCK	- value - 'MBCA '
(10)	CHARACTER	4	*	MBCA STATUS
(10)	CHARACTER	1	MBCAFLG0	- I/O BUFFERS

Table 454. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		MBCABFAL	- ALLOCATED
	.1..		MBCABFRQ	- REQUIRED
	..11 1111		*	- Reserved
(11)	CHARACTER	1	MBCAFLG1	- Reserved
(11)	BIT(8)	1	*	- Reserved
(12)	CHARACTER	1	MBCAFLG2	- Reserved
(12)	BIT(8)	1	*	- Reserved
(13)	CHARACTER	1	MBCAFLG3	- Reserved
(13)	BIT(8)	1	*	- Reserved
(14)	CHARACTER	12	*	I/O BUFFERS
(14)	FULLWORD	4	MBCANBFR	- #(BUFFERS REQUESTED)
(18)	FULLWORD	4	MBCANBFA	- #(BUFFERS ALLOCATED)
(1C)	FULLWORD	4	MBCABFSZ	- L(EACH BUFFER)
(20)	CHARACTER	32	*	MBCB CHAIN ANCHORS
(20)	CHARACTER	8	MBCACHN1	- UNALLOC/EMPTY CHAIN
(20)	ADDRESS	4	MBCAFCN1	- A(FIRST MBCB)
(24)	ADDRESS	4	MBCABCN1	- A(LAST MBCB)
(28)	CHARACTER	8	MBCACHN2	- UNALLOC/VALID CHAIN
(28)	ADDRESS	4	MBCAFCN2	- A(FIRST MBCB)
(2C)	ADDRESS	4	MBCABCN2	- A(LAST MBCB)
(30)	CHARACTER	8	MBCACHN3	- ALLOCATED CHAIN
(30)	ADDRESS	4	MBCAFCN3	- A(FIRST MBCB)
(34)	ADDRESS	4	MBCABCN3	- A(LAST MBCB)
(38)	CHARACTER	8	MBCACHNS	- STATIC CHAIN
(38)	ADDRESS	4	MBCAFCNS	- A(FIRST MBCB)
(3C)	ADDRESS	4	*	- Reserved
(40)	CHARACTER	8	*	MQCB CHAIN ANCHORS
(40)	CHARACTER	8	MBCACHNQ	- QUEUE INDEPENDENT CHAIN
(40)	ADDRESS	4	MBCAFCNQ	- A(FIRST MQCB)
(44)	ADDRESS	4	MBCABCNQ	- A(LAST MQCB)
(48)	CHARACTER	8	MBCA_SRC	MBCB allocation chain
(48)	ADDRESS	4	MBCA_TCA_P	- A(owning TCA) or 0
(4C)	ADDRESS	4	MBCA_MWCB_P	- A(first MWCB) or 0

Table 454. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	CHARACTER	32	*	MBCB STATISTICS
(50)	CHARACTER	12	*	- ALLOCATION REQUESTS
(50)	FULLWORD	4	MBCATNAL	- TOTAL
(54)	FULLWORD	4	MBCACNAL	- CURRENT CONCURRENT
(58)	FULLWORD	4	MBCAMXAL	- MAXIMUM CONCURRENT
(5C)	CHARACTER	12	*	- QUEUED REQUESTS
(5C)	FULLWORD	4	MBCATNWT	- TOTAL
(60)	FULLWORD	4	MBCACNWT	- CURRENT CONCURRENT
(64)	FULLWORD	4	MBCAMXWT	- MAXIMUM CONCURRENT
(68)	CHARACTER	8	*	- # CONTAINING VALID DATA
(68)	FULLWORD	4	MBCACNIU	- CURRENT
(6C)	FULLWORD	4	MBCAMXIU	- MAXIMUM
(70)	CHARACTER	0	*	

MULTIPLE BUFFERS - BUFFER CONTROL BLOCK (MBCB)

Table 455.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	DFHMBCB	
(0)	CHARACTER	12	*	MBCB CHAINS
(0)	CHARACTER	8	*	- STATUS SPECIFIC CHAIN
(0)	ADDRESS	4	MBCBFCHN	- A(NEXT MBCB)
(4)	ADDRESS	4	MBCBBCHN	- A(PREVIOUS MBCB)
(8)	CHARACTER	4	*	- STATIC CHAIN
(8)	ADDRESS	4	MBCBSCHN	- A(NEXT MBCB) OR 0
(C)	CHARACTER	4	*	I/O BUFFER STATUS
(C)	CHARACTER	1	MBCBFLG0	- ALLOCATION
	1...		MBCBLCKD	- PREEMPTED
	.111 1111		*	- Reserved
(D)	CHARACTER	1	MBCBFLG1	- CONTENTS
	1...		MBCBVALD	- VALID
	.111 1111		*	- Reserved
(E)	CHARACTER	1	MBCBFLG2	- ACTIONS
	1...		MBCBPTRQ	- WRITE

Table 455. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		MBCBGTRQ	- READ
	..11 1111		*	- Reserved
(F)	CHARACTER	1	MBCBFLG3	- Reserved
(F)	BIT(8)	1	*	- Reserved
(10)	CHARACTER	24	*	I/O BUFFER PARAMETERS
(10)	CHARACTER	12	*	- LOCATION, DEFINED BY
(10)	ADDRESS	4	MBCBABFR	- A(I/O BUFFER)
(14)	FULLWORD	4	MBCBLBFR	- L(I/O BUFFER)
(18)	ADDRESS	4	MBCBACDF	- A(CIDF)
(1C)	CHARACTER	8	*	- CONTENTS, DEFINED BY
(1C)	FULLWORD	4	MBCBCRBA	- RBA(CI)
(20)	ADDRESS	4	MBCBMRCA	- A(MRCA)
(24)	ADDRESS	4	MBCB_DCTE_P	- A(DCTE) or 0
(28)	CHARACTER	8	*	associated control blocks
(28)	ADDRESS	4	MBCB_MQCB_P	- A(MQCB)
(2C)	ADDRESS	4	MBCB_MRCB_P	- A(MRCB) or 0
(30)	CHARACTER	8	MBCB_SRC	MBCB preemption chain
(30)	ADDRESS	4	MBCB_TCA_P	- A(owning TCA) or 0
(34)	ADDRESS	4	MBCB_MWCB_P	- A(first MWCB) or 0
(38)	CHARACTER	0	*	

MULTIPLE BUFFERS - QUEUE CONTROL BLOCK (MQCB)

Table 456.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	DFHMQCB	
(0)	CHARACTER	8	*	QUEUE SPECIFIC CHAIN
(0)	ADDRESS	4	MQCBFCHN	- A(NEXT MQCB)
(4)	ADDRESS	4	MQCBBCHN	- A(PREVIOUS MQCB)
(8)	CHARACTER	8	*	associated control blocks
(8)	ADDRESS	4	MQCB_MBCB_P	- A(MBCB)
(C)	CHARACTER	4	*	- Reserved
(10)	CHARACTER	0	*	

MCA Map control area description

```
MODULE NAME = DFHMCAD
DESCRIPTIVE NAME  = CICS MAP CONTROL AREA DESCRIPTION
  @BANNER_START 02

                        DFHMCAD
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = DESCRIBE MAP CONTROL AREA FOR SETTING UP BMS OUTPUT
           DATA STREAM FOR 3270 OR LU1 SCS PRINTER DEVICE
         This area contains information pertinent to one of the
         maps being used in a page build process for a 3270
         or LU1 SCS printer device.
         The Map Control Areas for one page of data are maintained
         on a chain which is anchored in field TTPMMFCP contained
         in the current TTP. The chain is maintained in order
         by the field position of the next field to be processed
         in each map. The last Map Control Area in the chain is
         always a dummy MCA containing only a zero chain address
         and a maximum possible field position. Each MCA contains
         copies of those fields of the map header which are
         required to build the data stream. All the Map Control
         Areas for one page of data are contained in one area of
         storage with the first one being the dummy MCA.
EXTERNAL REFERENCES :
   NONE
TABLES :
   NONE
MACROS :
   NONE
METHOD :
   USED BY DFHM32 AND DFHML1 TO HOLD INFORMATION
   ABOUT A SINGLE MAP AND ITS FIELDS.
```

Table 457.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHMCADS	
(0)	CHARACTER	4	MCACBID	MCA SELF IDENTIFICATION. SET TO 'MCAD' WHEN AN MCA IS CREATED
(4)	ADDRESS	4	MCACHAIN	ADDRESS OF NEXT MCA IN CHAIN
(8)	HALFWORD	2		RESERVED
(A)	HALFWORD	2	MCAFPP	PAGE ADDRESS OF CURRENT FIELD (COPY OF BMSFPP)
(A)		0	MCADEL	"*-DFHMCADS" DUMMY MCA LENGTH
(C)	ADDRESS	4	MCAMAP	ADDRESS OF MAP
(10)	ADDRESS	4	MCATIOA	ADDRESS OF TIOA
(14)	ADDRESS	4	MCADEA	ADDRESS OF END OF TIOA
THE FOLLOWING TWO WORDS ARE ACCESSED VIA LM AND STM INSTRUCTIONS				

Table 457. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	ADDRESS	4	MCADATA	CURRENT DATA ADDRESS IN TIOA
(1C)	ADDRESS	4	MCAFIELD	CURRENT FIELD ADDRESS IN MAP
(20)	CHARACTER	1	MCAMODE	MAP DESCRIPTOR FLAG BYTE (COPY OF BMSMODE)
(21)	CHARACTER	1	MCAMSTR4	TYPE REQUEST BYTE FOUR FROM TCA (COPY OF BMSMSTR4)
(21)	BITSTRING	0	MCAMSTDT	"X'80'" DATA CAN BE TAKEN FROM THE TIOA
(21)	BITSTRING	0	MCAMSTDM	"X'40'" DATA CAN BE TAKEN FROM THE MAP
(22)	CHARACTER	1	MCAMI	MAP INDICATORS (COPY OF BMSMI)
(23)	CHARACTER	1	MCAMI2	MAP INDICATORS (COPY OF BMSMI2)
(24)	CHARACTER	1		RESERVED
(25)	CHARACTER	1	MCAFLAG	FLAGS FOR INTERNAL USE
(25)	BITSTRING	0	MCAGMF	"X'80'" MF (MODIFY FIELD) TO BE GENERATED RATHER THAN SFE(START FIELD EXTENDED)
(25)	BITSTRING	0	MCANOSC	"X'40'" NO SHIFT OUT / SHIFT IN CHARACTERS ALLOWED IN DATA
(25)	BITSTRING	0	MCAMHSA	"X'20'" MAP CONTAINS SOSI FIELD ATTRIBUTE
(26)	HALFWORD	2	MCAMHLL	OFFSET TO FIRST MAP FIELD
(28)	HALFWORD	2	MCAMAL	NUMBER OF MAT ATTRIBUTES
(2A)	HALFWORD	2	MCADAL	NUMBER OF ADS ATTRIBUTES
(2C)	CHARACTER	12	MCATERMM	MAP/TERMINAL MASK
(31)	CHARACTER	1	MCATERSO	SOSI MASK BYTE
(38)	CHARACTER	12	MCATERMD	DSECT/TERMINAL MASK

Offset Hex	Type	Len	Name (dim)	Description
(44)	CHARACTER	13	MCAMXAT0 (0)	MAP FIELD ATTRIBUTE WORK AREA
(44)	CHARACTER	1		THIS BYTE MUST BE ZERO
(45)	CHARACTER	12	MCAMXAT	COPY OF MAP FIELD ATTRIBUTES
(51)	CHARACTER	13	MCADXAT0 (0)	ADS FIELD ATTRIBUTE WORK AREA
(51)	CHARACTER	1		THIS BYTE MUST BE ZERO
(52)	CHARACTER	12	MCADXAT	COPY OF ADS FIELD ATTRIBUTES
(5E)	HALFWORD	2		RESERVED
INFORMATION ABOUT MCA EXTENSION, FILLED IN IF THE MAP CONTAINS FIELDS NOT IN ORDER OF PAGE POSITION				
(60)	FULLWORD	4	MCANXF	NEXT FIELD TO BE PROCESSED IN EXT
(64)	HALFWORD	2	MCAEXF	NUMBER OF FIELDS IN EXTENSION
(66)	HALFWORD	2	MCAEXL	EXTENSION LENGTH
(68)	HALFWORD	2	MCAEXT (0)	EXTENSION START
(68)		0	MCAEL	"*-DFHMCADS" MCA ENTRY LENGTH
MCA EXTENSION: FORMAT OF FIELD INFORMATION				
(68)	HALFWORD	2	MCAPP	FIELD POSITION ON PAGE
(6A)	ADDRESS	4	MCADP	-> FIELD DATA IN TIOA USE ICM
(6E)	ADDRESS	4	MCAMP	-> FIELD DATA IN MAP DSECT USE ICM

MCB BMS message control block

```
MODULE NAME = DFHMCBDS
DESCRIPTIVE NAME  = CICS BMS MESSAGE CONTROL BLOCK
  @BANNER_START 02
                      DFHMCBDS
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = DEFINE THE STATE OF A BMS LOGICAL MESSAGE. THIS IS
           USED BY THE TERMINAL PAGE RETRIEVAL PROGRAM DFHTPR.
           THERE IS ONE MCB PER LEVEL OF PAGE CHAINING. THE
           MCBS ARE CHAINED TOGETHER, WITH AN ANCHOR IN THE BMS
           TCTTE EXTENSION. MCBS ARE ALLOCATED AND FREED BY
```

```
                      DFHTPR. THEY RESIDE IN SHARED STORAGE.
                      THE MCB HAS SEVERAL PARTS:-
                       A) A COMMON PART CONTAINING INFORMATION SUCH AS THE
                          TS QUEUE NAME.
                       B) A PART CONTAINING STATUS INFORMATION (E.G. CURRENT
                          PAGE NUMBER) FOR THE CURRENT LDC OR PARTITION.
                       C) AN ENTRY FOR EACH LDC OR PARTITION CONTAINING DTATUS
                          DATA (E.G. CURRENT PAGE NUMBER, TOTAL PAGE COUNT)
                          FOR THAT LDC OR PARTITION. THIS IS COPIED INTO B)
                          WHEN THE LDC OR PARTITION BECOMES CURRENT.
                       D) THE PAGE/LDC TABLE WITH ONE ENTRY PER PAGE OF THE
                          MESSAGE, INDICATING THE LDC OR PARTITION FOR THIS
                          PAGE
                      THE MCB IS PARTIALLY BUILT FROM THE MESSAGE CONTROL
                      RECORD (MCR) WHEN THIS IS RETRIEVED FROM TS. OTHER
                      PARTS ARE MAINTAINED BY DFHTPR.
                 NOTES :
                  DEPENDENCIES = S/370
                  RESTRICTIONS = NONE
                  REGISTER CONVENTIONS = SEE COMMENTS IN CODE
                  PATCH LABEL = NOT APPLICABLE
                  MODULE TYPE = DSECT
                  MODULE SIZE = NOT APPLICABLE
                  ATTRIBUTES = NOT APPLICABLE
                 ENTRY POINT = NOT APPLICABLE
                  PURPOSE = SEE FUNCTION
                  LINKAGE = NOT APPLICABLE
                 INPUT = NOT APPLICABLE
                 OUTPUT = NOT APPLICABLE
                 EXIT-NORMAL = NOT APPLICABLE
                 EXIT-ERROR = NOT APPLICABLE
                 EXTERNAL REFERENCES = NONE
                  CONTROL BLOCKS = NOT APPLICABLE
                  TABLES = NOT APPLICABLE
                  MACROS = NONE
```

Table 458.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHMCB	
(0)	FULLWORD	4	MCBSAA	SHARED STORAGE ACCOUNTING
(4)	FULLWORD	4	MCBCOMN (0)	START MCB COMMON CONTROL AREA
MCB COMMON CONTROL AREA				
(4)	ADDRESS	4	MCBNEXT	POINTER TO CHAINED MCB @
FIELDS ABOVE OVERLAP THE BMS TCTTE EXTENSION FOR FINDING THE MCB CHAIN HEADER				
(8)	CHARACTER	8	MCBCBID	MCB SELF IDENTIFICATION. SET TO 'DFHMCBDS' WHEN MCB CREATED
(10)	ADDRESS	4	MCBCUREP	A(CURENTLY ACTIVE REPEATED)
(14)	ADDRESS	4	MCBCURPG	A(CURRENT PAGING ENTRY)

Table 458. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	ADDRESS	4	MCBPGLDC	POINTER TO PAGE/LDC TABLE
(1C)	ADDRESS	4	MCBAPSET	POINTER TO INCORE APPLICATION PARTITION SET
(20)	CHARACTER	12	MCBMSGID (0)	MESSAGE ID OF LOGICAL MESSAGE
(20)	CHARACTER	8	MCBTSID (0)	TEMPORARY STORAGE KEY
(20)	CHARACTER	2	MCBTSPFX	TEMPORARY STORAGE RECOVERY PREFIX
(22)	ADDRESS	1	MCBTSPKY	BMS IDENTIFIER -X'FD'
(23)	BITSTRING	3	MCBUNQID	MESSAGE ID OF THIS MSG
(26)	CHARACTER	1	MCBTTS	TERMINAL TYPE SUFFIX OF RECEIVING TERMINAL
(27)	BITSTRING	1	MCBTSQUL	TEMP. STORAGE QULAIFICATION
(28)	BITSTRING	1	MCBCHN	CHAIN NUMBER OF THIS MESSAGE
(29)	BITSTRING	1	MCBFLAGS	FLAGS
	NOTE -- DSECTS FOR THE MCR AND MCB SHOULD HAVE EQUIVALENT BIT PATTERNS FOR THE FOLLOWING FLAGS -- XXXTITLE - MESSAGE HAS A TITLE XXXWBCUR WTBRK=CURR (2741) XXXWBALL WTBRK=ALL (2741) XXXEODOP EODPURG=OPER WHERE XXX IS ONE OF MCR OR MCB				
(29)	BITSTRING	0	MCBTITLE	"X'80'" ...MESSAGE HAS A TITLE
(29)	BITSTRING	0	MCBWBCUR	"X'40'" ...WTBRK=CURRENT (2741 ONLY)
(29)	BITSTRING	0	MCBWBALL	"X'20'" ...WTBRK=ALL (2741 ONLY)
(29)	BITSTRING	0	MCBEODOP	"X'10'" ...EODPURG=OPER FOR THIS MESSAGE
(29)	BITSTRING	0	MCBOPCHK	"X'08'" ...OPERATOR CHECKING WITH MESSAGE
(29)	BITSTRING	0	MCBMCRCK	"X'04'" ...MCR HAS BEEN CHECKED

Table 458. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(29)	BITSTRING	0	MCBCURR	"X'02'" ...THIS IS CURRENT CHAIN LEVEL
(29)	BITSTRING	0	MCBACT	"X'01'" ...THIS MCB IS ACTIVE
THESE FIELDS POSITIONALLY DEPENDENT ON 'MCBMSGID' & 'MCBLDCL				
(2A)	HALFWORD	2	(0)	
(2A)	CHARACTER	18	MCBCLDCI (0)	DESTINATION INFORMATION
(2A)	HALFWORD	2	MCBPAG	PAGE NUMBER CURRENTLY BEING DISPLAYED
(2C)	CHARACTER	2	MCBCLDCM	CURRENTLY ACTIVE LDC MNEMONIC
(2E)	BITSTRING	1	MCBCLDCD	CURRENTLY ACTIVE LDC DEVICE CODE
(2F)	BITSTRING	1	MCBLDCF	CURRENTLY ACTIVE DESTINATION CODE
REFER TO 'MCBRLDCF' FOR VALUES				
(30)	HALFWORD	2	MCBPGCNT	TOTAL NUMBER OF PAGES PER DESTINATION
(32)	CHARACTER	8	MCBCDSN	CURRENTLY ACTIVE DESTINATION NAME
(3A)	BITSTRING	1	MCBCDSP	DATA STREAM PROFILE
(3C)	HALFWORD	2	MCBCHCNT	NUMBER OF CHAIN LEVELS 01 CONNECTED TO TERMINAL 01 (FIRST MCB ONLY)
(40)	FULLWORD	4	(0)	ALIGNMENT
(40)	CHARACTER	2	MCBCPRTN	NAME OF CURRENT PARTITION
(42)	CHARACTER	1	MCBCPID	PID OF CURRENT PARTITION
(43)	BITSTRING	3		RESERVED
(46)	BITSTRING	1	MCBIND02	MCB INDICATOR TWO
(46)	BITSTRING	0	MCBAPDUN	"X'80'" ALL AUTOMATIC PAGING COMPLETE

Table 458. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(46)	BITSTRING	0	MCBPNDUN	"X'40'" PAGING NOT COMPLETE
(46)	BITSTRING	0	MCBFSDUN	"X'20'" FINAL SCAN COMPLETE
(46)	BITSTRING	0	MCBQKPRG	"X'10'" MESSAGE ELIGIBLE FOR QUICK PURGE
(46)	BITSTRING	0	MCBSCSA	"X'08'" USE ALTERNATE SCREENSIZE
(46)	BITSTRING	0	MCBTRAN	"X'04'" PAGES INCLUDE EXTRA BYTE FOR TRANSPARENT MODE
(46)	BITSTRING	0	MCBRDSPL	"X'02'" REDISPLAY CURRENT PAGE IN EACH PARTITION
(46)	BITSTRING	0	MCBSCHED	"X'01'" AID for this MCB has been rescheduled by DFHACP
(48)	FULLWORD	4	MCBCEND (0)	END COMMON MCB
(48)		0	MCBLEN	"MCBCEND-DFHMCB" LENGTH OF COMMON MCB AREA
MCB/LDC REPEATED ENTRY				
(48)	SIGNED	0	MCBDRLDC	"4" DEFAULT REPEATED ENTRY COUNT
THESE FIELDS POSITIONALLY DEPENDENT ON 'MCBCLDCI'				
(48)		0	MCBLDCL	"*" LDC REPEATED ENTRY LIST
(48)	HALFWORD	2	MCBRCPAG	CURRENT PAGE NUMBER
(4A)	CHARACTER	2	MCBRLDCM	LDC MNEMONIC
(4C)	BITSTRING	1	MCBRLDCD	LOGICAL DEVICE CODE
(4D)	BITSTRING	1	MCBRLDCF	PAGING STATUS FLAG ONLY
(4D)		0	MCBPSTAT	"TCTTEPGP" PAGING STATUS
(4D)		0	MCBTREV	"TCTTEPGR" PAGING STATUS TEMPORARILY REVERSED. LAST 6 BITS RESERVED

Table 458. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4E)	HALFWORD	2	MCBRTPC	TOTAL PAGE COUNT FOR THIS LDC
(50)	CHARACTER	8	MCBRDSN	DESTINATION NAME
(58)	CHARACTER	1	MCBRDSP	DATA STREAM PROFILE
(5A)	HALFWORD	2	(0)	ENSURE ALIGNMENT
(5A)		0	MCBRLDCE	"*" END REPEATED ENTRY
(5A)		0	MCBRLEN	"MCBRLDCE-MCBLDCL" LDC REPEATED ENTRY LENGTH
(48)	CHARACTER	0	MCBLDCLL (0)	DEFINE MCB/LDC LIST
MCB'S PG/LDC TABLE				
(48)	SIGNED	0	MCBDLDCP	"8" PAGE/LDC TABLE SIZE (NUMBER OF ENTRIES)
DEFINE SPACE FOR THE PAGE/LDC TABLE				
(90)	CHARACTER	1		
(90)		0	MCBEXEND	"*" END OF TABLE
(90)		0	MCBEXLEN	"MCBEXEND-DFHMCB" LENGTH OF TABLE

MCR BMS message control record dsect

```
MODULE NAME = DFHMCRDS
DESCRIPTIVE NAME  = CICS BMS MESSAGE CONTROL RECORD DSECT
  @BANNER_START 02
                        DFHMCRDS
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = DEFINE THE BMS MESSAGE CONTROL RECORD (MCR). THE MCR
            DEFINES A BMS LOGICAL MESSAGE ON TEMPORARY STORAGE.
            IT IS OUTPUT BY DFHMCP, AND READ/UPDATED BY DFHTPS,
            DFHTPQ, AND DFHTPR.
            THE MCR TS QUEUE ID IS RELATED TO THE CORRESPONDING
            LOGICAL MESSAGE PAGE TS QUEUE BY A NAMING CONVENTION.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NONE
 MODULE TYPE = DSECT
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = DSECT
```

```
ENTRY POINT = NOT APPLICABLE
 PURPOSE = SEE FUNCTION
 LINKAGE = NOT APPLICABLE
INPUT = NOT APPLICABLE
OUTPUT = NOT APPLICABLE
EXIT-NORMAL = NOT APPLICABLE
EXIT-ERROR = NOT APPLICABLE
EXTERNAL REFERENCES = NONE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NOT APPLICABLE
 MACROS = NONE
 ALL DISPLACEMENTS ARE COMPUTED FROM 'DFHMCRDS'
```

Table 459.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHMCRDS	MCR DUMMY SECTION
(0)	DBL WORD	8	MCRSAAP	STORAGE ACCOUNTING INFORMATION; STORAGE CLASS=USER
(0)		0	MCRSTART	"*" START OF MCR
(8)	FULLWORD	4	MCRLLBB	VARIABLE-LENGTH RECORD INFORMATION (LLBB)
(C)	CHARACTER	8	MCRCBID	MCR SELF IDENTIFICATION. SET TO 'DFHMCRDS' WHEN MCR CREATED
(14)	HALFWORD	2	MCRPGCNT	TOTAL PAGE COUNT
(16)	HALFWORD	2	MCRIDCNT	COUNT OF TERMINALS TO RECEIVE MESSAGE
(18)	HALFWORD	2	MCRLSTRM	DISPLACEMENT TO LAST TERMINAL ENTRY IN THIS RECORD
(1A)	HALFWORD	2	MCRTTLD	DISPLACEMENT TO TITLE PAGE
(1C)	HALFWORD	2	MCRPLTD	DISPLACEMENT TO THE PAGE/LDC TABLE
(1E)	CHARACTER	2	MCRETLDC	ERROR TERMINAL'S LDC MNEMONIC
(20)	CHARACTER	4	MCRERRID	ID OF TERMINAL TO RECEIVE ERROR NOTIFICATION
(24)	CHARACTER	3	MCROPCL	OPERATOR CLASS
(27)	BITSTRING	1	MCRPGCHN	PAGE CHAIN LEVEL
(28)	BITSTRING	1	MCRFLAGS	FLAGS

Table 459. (continued)

Offset Hex	Type	Len	Name (dim)	Description
NOTE -- DSECTS FOR THE MCR AND MCB SHOULD HAVE EQUIVALENT BIT PATTERNS FOR THE FOLLOWING FLAGS -- XXXTITLE - MESSAGE HAS A TITLE XXXWBCUR WTBRK=CURR (2741) XXXWBALL WTBRK=ALL (2741) XXXEODOP EODPURG=OPER WHERE XXX IS ONE OF MCR OR MCB				
(28)	BITSTRING	0	MCRTITLE	"X'80'" ...TITLE RECORD IN THIS MCR
(28)	BITSTRING	0	MCRWBCUR	"X'40'" ...WTBRK=CURRENT (2741 ONLY)
(28)	BITSTRING	0	MCRWBALL	"X'20'" ...WTBRK=ALL (2741 ONLY)
(28)	BITSTRING	0	MCREODOP	"X'10'" ...EODPURG=OPER
(28)	BITSTRING	0	MCRPAGE	"X'08'" ...MAKE TEMPORARILY PAGING
(28)	BITSTRING	0	MCRAUTOP	"X'04'" ...MAKE TEMPORARILY AUTOPAGE
(28)	BITSTRING	0	MCRBMSSM	"X'02'" ...BMS - SYSTEM MESSAGE
(28)	BITSTRING	0	MCRRTAIN	"X'01'" ...CTRL=RETAIN
(29)	BITSTRING	1	MCRSTAT	STATUS FLAG
(29)	BITSTRING	0	MCRQKPRG	"X'80'" MESSAGE ELIGIBLE FOR QUICK PURGE
(29)	BITSTRING	0	MCRMLDC	"X'40'" MCR CONTAINS MULTIPLE LDC'S
(29)	BITSTRING	0	MCRSCSA	"X'08'" USE ALTERNATE SCREENSIZE
(29)	BITSTRING	0	MCRTRAN	"X'04'" PAGES CONTAIN EXTRA BYTE FOR TRANSPARENT MODE
(2A)		0	MCRIDLST	"*" START OF TERMINAL LIST TERMINAL ENTRY FOR ONE TERMINAL -
(2C)	CHARACTER	4	MCRTRMID	TERMINAL IDENTIFICATION
(30)	CHARACTER	2	MCRLDCMN	LDC MNEMONIC

Table 459. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(32)	HALFWORD	2	MCRLDCPG	PAGE COUNT PER LDC
(34)	BITSTRING	1	MCRLDCCD	LDC CODE
(35)	CHARACTER	3	MCROPID	OPERATOR ID
(38)	BITSTRING	1	MCRSF	STATUS FLAG
(38)		0	MCRSFPG	"TCTTEPGP" PAGING STATUS
(38)	BITSTRING	0	MCRLFAIL	"X'40'" LOCATE FAILED - ENTRY IS SKIPPED ONLY IF MCRMLDC IS ON
(39)	BITSTRING	1	MCRTETYP	TYPE OF TERMINAL ENTRY
(39)	BITSTRING	0	MCRTEREM	"X'80'" REMOTE TERMINAL
(3A)	CHARACTER	8	MCRDSN (0)	DESTINATION NAME IF LOCALLY OWNED TERMINAL
(3A)	CHARACTER	4	MCRSYSID	ID OF TERMINAL OWNING SYSTEM (OR FIRST IN CHAIN) IF REMOTELY OWNED TERMINAL
(3E)	CHARACTER	4		RESERVED
(42)	BITSTRING	1	MCRDSP	DATA STREAM PROFILE
(43)	BITSTRING	1		RESERVED
(43)		0	MCRIDNXT	"*" LOCATION OF NEXT ID ENTRY
(43)		0	MCRLNTRY	"MCRIDNXT-MCRIDLST" MCR TERMINAL LIST ENTRY LENGTH

MCTDR Monitoring Dictionary Entry

Table 460.

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

```
         MACRO NAME = DFHMCTDR
          DESCRIPTIVE NAME  = CICS/ESA Monitoring Dictionary entry
         @BANNER_ START 02
                            DFHMCTDR
           Licensed Materials - Property of IBM
           "Restricted Materials of IBM"
         5655-S97
         @BANNER_END
```

```
FUNCTION = Field definitions to map a monitoring dictionary
           entry.
DEPENDENCIES = S/370
RESTRICTIONS = none
ATTRIBUTES = none
```

Table 461.

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

MGM MGM format of prototype messages

```
CONTROL BLOCK NAME = DFHMGM TYPE=DSECT
DESCRIPTIVE NAME  = CICS MGM Format of Prototype Messages
   @BANNER_START 02
                        DFHMGM
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      The MGT entry describes the message to be issued.
      This DSECT maps the MGT entry.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
```

Table 462.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	ETMGDSCT	
(0)	BITSTRING	1	ETMGCTYP	TYPE 0 NO TCTTE PASSED 1 TCTTE PASSED 2 IST TCTTE = SENT MSG TCTTE, 2ND TCTTE = TERM IN INSERTS

Table 462. (continued)

Offset Hex	Type	Len	Name (dim)	Description
THE OPTIONS SPECIFIED WITH THE MSG ARE ADDED TO THOSE PASSED BY THE CALLER NORMALLY NOTHING SHOULD BE SET				
(1)	ADDRESS	1	ETMGDEST	DESTINATION
FIELD SAME AS MGMGDEST				
(1)	BITSTRING	0	ETMDTERM	"X'20'" DEST TERM
(1)	BITSTRING	0	ETMDRETN	"X'08'" DEST RETURN TO CALLER
(1)	BITSTRING	0	ETMDNNUM	"X'04'" PRODUCE NO NUMBER
(1)	BITSTRING	0	ETMDTIOA	"X'02'" OBTAIN A TIOA
(2)	HALFWORD	2	ETMGMGNO	MSG NO
(4)	BITSTRING	1	ETMGMCOD	I/A/ TYPE ETC
FIELD SAME AS MGMOPTN1				
(4)	BITSTRING	0	ETMGMCDI	"X'80'" I TYPE MESSAGE
(4)	BITSTRING	0	ETMGMCDA	"X'40'" A TYPE MESSAGE
(4)	BITSTRING	0	ETMGMNLS	"X'20'" NLS MESSAGE
(4)	BITSTRING	0	ETMGRESP	"X'10'" response required
(4)	BITSTRING	0	ETMG1CID	"X'08'" Component id specified
(4)	BITSTRING	0	ETMGMCNX	"X'04'" ERRATT=NEXT
(4)	BITSTRING	0	ETMGMCNL	"X'02'" ERRATT=LASTLINE
(4)	BITSTRING	0	ETMGMCNE	"X'01'" ERRATT=NO
(5)	ADDRESS	1	ETMGINS2	INSERT INFO - MGMOPTN2
FIELD SAME AS MGMOPTN2				
(5)	BITSTRING	0	ETMDDUMP	"X'10'" DUMP ON THIS MESSAGE
(6)	ADDRESS	1	ETMGPTN3	SWITCHES - MGMOPTN3
FIELD SAME AS MGMOPTN3				
(6)	BITSTRING	0	ETMG3PID	"X'80'" Product id specified
(7)	BITSTRING	1	ETMOFFV	OFFS OF MSG IN STG AREA
(8)	ADDRESS	1	ETMGDESX	DESTINATION EXTENTION BYTE
(9)	CHARACTER	2	ETMGCOMP	Component id

Table 462. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B)	CHARACTER	3	ETMGPROD	Product id
(E)	HALFWORD	2	ETMGTLEN	TOTAL L OF MSG TEXTS.
(10)	CHARACTER	1	ETMGTSRT (0)	START OF TEXT
(10)		0	TEXTOFF	"*-ETMGDSCT" MSG TXT OFFSET

THIS DSECT DESCRIBES PARTIAL MESSAGES IN PROTOTYPE MSGS

Table 463.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	ETMGTEXT	MSG TEXT.
(0)	HALFWORD	2	ETMGTYPL (0)	TYPE/LENGTH OF MSG TEXT
(0)	CHARACTER	1	ETMGTYPE	TYPE OF MSG TEXT.
(1)	CHARACTER	1	ETMGLEN	LENGTH OF MSG TEXT.
(2)	CHARACTER	1	ETMGMGDA	ACTUAL MSG

THIS DSECT DESCRIBES THE INPUT PLIST

Table 464.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	MGMAMAP	*** MAP THE FW ADCONS IN DFHINS ***
(0)	ADDRESS	4	MGMAMSG	A(MGMMDEST)
(4)	ADDRESS	4	MGMAPARM	A(INSERT/MSG TABLE)
(4)	BITSTRING	0	MGMAMLST	"X'80'" LAST FLAG

THIS DSECT DESCRIBES THE FIRST PARAMETER,WHICH IS ALWAYS PRESENT

Table 465.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	MGMMDEST	*** MESSAGE NO AND DESTINATION CODE ***
(0)	BITSTRING	1	MGMGTYPE	TYPE OF MESSAGE
(0)	BITSTRING	0	MGMGTCTE	"X'01'" MGMAPARM = A(TCTTE)
(1)	CHARACTER	1	MGMGDEST	DESTINATION/ ACTION.
(1)	BITSTRING	0	MGMDTERM	"X'20'" DEST TERM
(1)	BITSTRING	0	MGMDRETN	"X'08'" DEST RETURN TO CALLER

Table 465. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	BITSTRING	0	MGMDNNUM	"X'04'" NO MSG NO. TO BE PRODUCED
(1)	BITSTRING	0	MGMDTIOA	"X'02'" OBTAIN A TIOA
(1)	BITSTRING	0	MGMDIPIC	"X'01'" PLACE IN IPIC BUFFER
(2)	ADDRESS	2	MGMGNO	MSG NO
(4)	BITSTRING	1	MGMOPTN1	TYPE /I/A RESERVED
(4)	BITSTRING	0	MGMD1CDI	"X'80'" I TYPE MESSAGE
(4)	BITSTRING	0	MGMD1CDA	"X'40'" A TYPE MESSAGE
(4)	BITSTRING	0	MGMD1NLS	"X'20'" NLS MESSAGE
(4)	BITSTRING	0	MGMDRESP	"X'10'" MGP Response code required
(4)	BITSTRING	0	MGMD1CID	"X'08'" COMP ID PRESENT
(4)	BITSTRING	0	MGMD1CNX	"X'04'" ERRATT=NEXT
(4)	BITSTRING	0	MGMD1CNL	"X'02'" ERRATT=LASTLINE
(4)	BITSTRING	0	MGMD1CNE	"X'01'" ERRATT=NO
(5)	BITSTRING	1	MGMOPTN2	OPTION TWO
(5)	BITSTRING	0	MGMTERAS	"X'80'" ERASE REQUIRED *
(5)	BITSTRING	0	MGMTFMHP	"X'40'" FMH PRESENT
(5)	BITSTRING	0	MGMTCONV	"X'20'" CONVERSE REQUIRED
(5)	BITSTRING	0	MGMDDUMP	"X'10'" DUMP REQUIRED
(5)	BITSTRING	0	MGMDOFFS	"X'08'" PUT MESSAGE AT AN OFFSET (GIVEN BY VALUE OF MGMOFFV) WITHIN STORAGE AREA *
(5)	BITSTRING	0	MGMTUNLK	"X'04'" UNLOCK OPTION REQUIRED
(5)	BITSTRING	0	MGMTLAST	"X'02'" LAST OPTION REQUIRED
(5)	BITSTRING	0	MGMTWAIT	"X'01'" WAIT OPTION REQUIRED *
(6)	BITSTRING	1	MGMOPTN3	OPTION THREE

Table 465. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6)	BITSTRING	0	MGMO3PID	"X'80'" PRODUCT ID SPECIFIED
(7)	BITSTRING	1	MGMOFFV	VALUE OF OFFSET WITHIN STG AREA FOR START OF MSG
(8)	CHARACTER	1	MGMGDESX	DESTINATION EXTENTION BYTE
(9)	BITSTRING	1	MGMRESP	MGP Response code
(A)	CHARACTER	2	MGMGCOMP	COMPONENT ID
(C)	CHARACTER	3	MGMGPROD	PRODUCT ID
(C)		0	MGMMDLN	"*-MGMMDEST" LENGTH OF MGMMDEST PARM

Table 466.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	MGINSERT	*** LENGTH AND 'TEXT' OF INSERT ***
(0)	ADDRESS	2	MGINSRL	LENGTH OF INSERT IF ANY
(2)	CHARACTER	1	MGINSRD	INSERT IF ANY

MLRDS XMLTRANSFORM Resource Statistics

```
CONTROL BLOCK NAME = DFHMLRDS
DESCRIPTIVE NAME  = CICS ML Domain (Xmltransform) Statistics
   @BANNER_START 02
                       DFHMLRDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
     This block described the statistics collected by the ML
     Domain.
     There is an instance of this block for each xmltransform
     which statistics have been requested.
LIFETIME = This block exists until the statistics request has been
     satisfied.
STORAGE CLASS =
LOCATION = The user is passed a pointer to the head of the block
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 ------------------------------------------------------------------
 EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = None
    GLOBAL VARIABLES (Macro pass) = None
 ------------------------------------------------------------------
```

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

Table 467.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHMLRDS	Xmltransform Resid stats record
(0)	HALFWORD	2	MLRDS_LEN	Xmltransform stats record length
(2)	ADDRESS	2	MLRDS_ID	Xmltransform stats id
(4)	CHARACTER	1	MLRDS_VERS	Xmltransform stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	32	MLR_XMLTRANSFORM_ NAME	
				Xmltransform name
(28)	BITSTRING	8		Reserved
(30)	BITSTRING	1	MLR_MSG_ VALIDATION	Xmltransform msg validation
(31)	BITSTRING	3		Reserved
(34)	BITSTRING	4		Reserved
(38)	CHARACTER	255	MLR_XSDBIND_FILE	XML binding file
(137)	BITSTRING	1		Reserved
(138)	CHARACTER	255	MLR_XMLSCHEMA_ FILE	XML schema file
(237)	BITSTRING	1		
(238)	FULLWORD	4	MLR_XMLTRNFM_ USE_COUNT	
				Xmltransform use count
(23C)	BITSTRING	4		Reserved
(240)	BITSTRING	8		Reserved
(248)	CHARACTER	8	MLR_XMLTRNFM_ DEFINE_SOURCE	
				Group installed from
(250)	BITSTRING	8	MLR_XMLTRNFM_ CHANGE_TIME	
				Change/create time
(258)	CHARACTER	8	MLR_XMLTRNFM_ CHANGE_USERID	
				Change userid
(260)	BITSTRING	2	MLR_XMLTRNFM_ CHANGE_AGENT	
				Change agent
(262)	BITSTRING	2	MLR_XMLTRNFM_ INSTALL_AGENT	

Table 467. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Install agent
(264)	BITSTRING	8	MLR_XMLTRNFM_ INSTALL_TIME	
				Install/Create time
(26C)	CHARACTER	8	MLR_XMLTRNFM_ INSTALL_USERID	
				Install userid
(26C)		0	MLRDS_END	"*"
(26C)		0	MLRDS_LENGTH	"*-MLRDS_LEN" Xmltransform record length
Constants that denote a Xmltransform resource stats record				
(26C)	SIGNED	0	MLRIDR	"113" ML Xmltransform resid stats id
(26C)	BITSTRING	0	MLR_VERS	"X'01'" Record version number
(26C)	BITSTRING	0	MLR_VALIDATION_ NO	"X'01'" Xmltransform msg validation - No
(26C)	BITSTRING	0	MLR_VALIDATION_ YES	"X'02'" Xmltransform msg validation - Yes Change Agents
(26C)	SIGNED	0	MLR_CSDAPI_ CHANGE	"0001" CSD API
(26C)	SIGNED	0	MLR_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(26C)	SIGNED	0	MLR_DREPAPI_ CHANGE	"0003" DREP API
(26C)	SIGNED	0	MLR_CREATE_ CHANGE	"0004" EXEC CREATE SPI
(26C)	SIGNED	0	MLR_DYNAMIC_ CHANGE	"0008" Dynamic Install Agents
(26C)	SIGNED	0	MLR_DYNAMIC_ INSTALL	
				"0008" Dynamic
(26C)	SIGNED	0	MLR_BUNDLE_ INSTALL	"0009" BUNDLE

MLVIC Xmltransform vendor interface

```
-------------------------------------------------------------------
    Content of the CNTR container on input to the converter program
-------------------------------------------------------------------
```

Table 468.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1384	MLVI_INPUT_DATA	
(0)	CHARACTER	32	MLVI_XMLTRANSFORM	
(20)	CHARACTER	16	MLVI_XMLCONTNR	
(30)	CHARACTER	16	MLVI_DATACONTNR	
(40)	CHARACTER	16	MLVI_NSCONTNR	
(50)	CHARACTER	8	MLVI_RUNLVL	
(58)	UNSIGNED	4	MLVI_APP_CCSID	
(5C)	CHARACTER	1	MLVI_DIRECTION	
(5D)	CHARACTER	1	*	
(5E)	UNSIGNED	2	MLVI_ELEMNAME_ LEN	
(60)	CHARACTER	256	MLVI_ELEMNAME	
(160)	UNSIGNED	2	MLVI_ELEMNS_LEN	
(162)	CHARACTER	256	MLVI_ELEMNS	
(262)	UNSIGNED	2	MLVI_TYPENAME_ LEN	
(264)	CHARACTER	256	MLVI_TYPENAME	
(364)	UNSIGNED	2	MLVI_TYPENS_LEN	
(366)	CHARACTER	256	MLVI_TYPENS	
(466)	UNSIGNED	2	MLVI_SCHEMA_LEN	
(468)	CHARACTER	256	MLVI_SCHEMA	

```
-------------------------------------------------------------------
    Content of the CNTR container on output from the
    converter program.
-------------------------------------------------------------------
```

Table 469.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	MLVI_OUTPUT_DATA	
(0)	UNSIGNED	1	MLVI_RESPONSE	

Constants

Table 470.

Len	Type	value	Name	Description
```--- container names for the XMLTRANSFORM Vendor interface --- ```				

Table 470. (continued)

Len	Type	value	Name	Description
16	CHARACTER	DFHML-VNDOR-CNTR	MLVI_VDR_CN_CONT	
16	CHARACTER	DFHML-VNDOR-META	MLVI_VDR_MD_CONT	
-- Constants for the mlvi_direction field --				
1	CHARACTER	T	MLVI_DIR_TO_XML	
1	CHARACTER	F	MLVI_DIR_FROM_XML	
-- Constants for the mlvi_response field --				
1	DECIMAL	0	MLVI_OK	
1	DECIMAL	1	MLVI_XML_INVALID	
1	DECIMAL	2	MLVI_XML_CONV_ERROR	
1	DECIMAL	3	MLVI_DATA_INVALID	
1	DECIMAL	4	MLVI_DATA_CONV_ERROR	
1	DECIMAL	5	MLVI_UNSUPPORTED_EL	
1	DECIMAL	6	MLVI_UNSUPPORTED_TY	
1	DECIMAL	7	MLVI_OTHER	

MNADS Monitoring Association Data Block

```
CONTROL BLOCK NAME = DFHMNADS
DESCRIPTIVE NAME  = CICS Monitoring (MN) Domain
                    Association Data Control Block
 @BANNER_START 02
                     DFHMNADS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = TASK ORIGIN AND INITIATION INFORMATION.
    Owned and managed by Monitor Domain.
    MNADCB
     Contains information pertaining to the origin of the
     current task. This information is provided to the
     user exit XAPADMGR. This exit is called on the
     original task where the work entered the CICS
     environment. The exit may return user correlation
     data that is added to the MNODR.
     Also sometimes referred to as MNADCCB.
LIFETIME = Created by the Monitor Domain for the life of each
           non-system task.
STORAGE CLASS = Task
LOCATION =
INNER CONTROL BLOCKS = NONE
NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = NONE
 MODULE TYPE = Control block definition
 -----------------------------------------------------------------
 EXTERNAL REFERENCES = NONE
```

```
                    DATA AREAS = NONE
                    CONTROL BLOCKS = NONE
                    GLOBAL VARIABLES (Macro pass) = NONE
          -----------------------------------------------------------------
                Monitor Association Data Control Block -- MN AD CB --
             THE MONITOR ASSOCIATION DATA CONTROL BLOCK CONTAINS:
                  THE CURRENT TASK ORIGIN DESCRIPTOR FIELDS
                  THE CURRENT TASK ADDITIONAL DATA FIELDS
```

Table 471.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	300	MNADCB	
ASSOCIATED DATA CURRENT TASK				
(0)	CHARACTER	300	MNAD_CURRENT_ TASK	
PASSED IN ORIGIN DESCRIPTOR				
(0)	CHARACTER	164	MNAD_DESCRIPTOR	
(0)	CHARACTER	8	MNAD_APPLID	
(8)	CHARACTER	21	MNAD_START_ CLOCK	
(8)	CHARACTER	8	MNAD_START_ DATE	
(8)	CHARACTER	4	MNAD_START_ YEAR	
(C)	CHARACTER	2	MNAD_START_ MONTH	
(E)	CHARACTER	2	MNAD_START_ DAY	
(10)	CHARACTER	13	MNAD_START_ TIME	
(10)	CHARACTER	2	MNAD_START_ HOUR	
(12)	CHARACTER	2	MNAD_START_ MIN	
(14)	CHARACTER	2	MNAD_START_ SEC	
(16)	CHARACTER	1	MNAD_START_ DECIMAL	
				'.'
(17)	CHARACTER	6	MNAD_START_ USEC	
(1D)	CHARACTER	7	MNAD_TASK_ NUMBER	
(24)	CHARACTER	4	MNAD_1ST_ TRANSID	
(28)	CHARACTER	8	MNAD_USERID2	
(30)	CHARACTER	8	MNAD_FACILITYTYPE	
(38)	CHARACTER	8	MNAD_FACILITYNAME	
(40)	CHARACTER	28	MNAD_TRANS_ GRPID	
FOLLOWING ARE CONDITIONAL ON FACILITY TYPE				

Table 471. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5C)	CHARACTER	16	MNAD_NQ_LUNAME	
(5C)	CHARACTER	8	MNAD_NETID	
(64)	CHARACTER	8	MNAD_NETNAME	
(6C)	CHARACTER	8	MNAD_TCPIPSERVICE	
(74)	CHARACTER	4	MNAD_IPADDR_FAMILY	
(78)	CHARACTER	39	MNAD_CLIENT_IPADDR	
(9F)	CHARACTER	5	MNAD_CLIENT_PORT	
NOT PASSED IN ORIGIN DESCRIPTOR				
(A4)	CHARACTER	136	MNAD_ADDITIONAL	
(A4)	CHARACTER	8	MNAD_USERID1	
(AC)	CHARACTER	8	MNAD_PROGRAM_NAME	
FOLLOWING ARE CONDITIONAL ON FACILITY TYPE				
(B4)	CHARACTER	4	MNAD_PROTOCOL	
(B8)	CHARACTER	8	MNAD_IPCONN	
(C0)	CHARACTER	8	MNAD_MVSIMAGE	
(C8)	CHARACTER	8	MNAD_TCPIPJOB	
(D0)	CHARACTER	8	MNAD_TCPIP_ZONENAME	
(D8)	CHARACTER	39	MNAD_SERVER_IPADDR	
(FF)	CHARACTER	5	MNAD_SERVER_PORT	
(104)	CHARACTER	40	MNAD_TCPIP_APPLDATA	
(12C)	CHARACTER	0	*	

MNEMP Monitoring domain user EMP structure

```
CONTROL BLOCK NAME = DFHMNEMP
DESCRIPTIVE NAME  = CICS Monitoring Domain User EMP
structure
      definitions for EMP Qualifiers, EMP chaining, and EMP
      options.
 @BANNER_START 04
 OCO Source Materials DFHMNEMP
 5655-S97
 The source code for the program is not published
 or otherwise divested of its trade secrets,
 irrespective of what has been deposited with the
 @BANNER_END
 FUNCTION =
      This copy book contain the structure definitions used by
      the Monitoring Domain for User EMPs defined in the
      Monitoring Control Table (if any).
```

```
                   It contains the following structures...
                     a) User EMP address list defined in an MCT.
                     b) User EMP Qualifier and EMP chaining.
                     c) User EMP Option definitions.
                  The MN Domain User Event Monitoring Point (EMP)
                    The User Event Monitoring Point contains:
                           The address of the next EMP with the same id
                           The address of the EMP qualifier
                           A sequence of EMP options
                 INNER CONTROL BLOCKS = None
                 NOTES :
                  DEPENDENCIES = S/370
                  RESTRICTIONS = None
                  MODULE TYPE = Structure definition
                 -----------------------------------------------------------------
                  EXTERNAL REFERENCES = None
                    DATA AREAS = None
                    CONTROL BLOCKS = None
                    GLOBAL VARIABLES (Macro pass) = None
                 -----------------------------------------------------------------
```

Table 472.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	DFHMNEMP	
(0)	ADDRESS	4	MNEMP_NEXT_ EMP_FOR_ID	
(4)	ADDRESS	4	MNEMP_QUALIFIER_ PTR	

```
                       EMP Options
```

Table 473.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	DFHMNOPT	
(0)	UNSIGNED	2	MNEMP_OPTION_ TYPE	
(2)	UNSIGNED	2	MNEMP_OPTION_ SOURCE	
(4)	ADDRESS	4	MNEMP_OPTION_ OFFSET	
(8)	UNSIGNED	4	MNEMP_OPTION_ CNSTANT	
				*

Constants

Table 474.

Len	Type	value	Name	Description
EMP constants				
2	DECIMAL	1	MNEMP_SCLOCK	
2	DECIMAL	2	MNEMP_PCLOCK	
2	DECIMAL	3	MNEMP_SCPUCLK	
2	DECIMAL	4	MNEMP_PCPUCLK	

Table 474. (continued)

Len	Type	value	Name	Description
2	DECIMAL	5	MNEMP_ADDCNT	
2	DECIMAL	6	MNEMP_SUBCNT	
2	DECIMAL	7	MNEMP_NACNT	
2	DECIMAL	8	MNEMP_ORCNT	
2	DECIMAL	9	MNEMP_EXCNT	
2	DECIMAL	10	MNEMP_MLTCNT	
2	DECIMAL	11	MNEMP_MOVE	
2	DECIMAL	12	MNEMP_DELIVER	
2	DECIMAL	65535	MNEMP_END	
2	DECIMAL	1	MNEMP_CONSTANT	
2	DECIMAL	2	MNEMP_DATA1	
2	DECIMAL	3	MNEMP_DATA2	

MNEXC Monitoring exception record

```
MACRO NAME = DFHMNEXC
DESCRIPTIVE NAME  = CICS Monitoring Exception Record
  @BANNER_START 02

                        DFHMNEXC
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION =
      To generate the dsect for the Monitoring Exception Record
NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS = None
  REGISTER CONVENTIONS = None
  MODULE TYPE = Object definition macro
  ATTRIBUTES = N/A
 --------------------------------------------------------------------
 PURPOSE = To generate the dsect for the Monitoring Exception
          Record.
    SYNTAX = <name> DFHMNEXC <PREFIX=xxx>
    INPUTS = None
    OUTPUTS = Definition of the Monitoring Exception Record.
    RETURN CODES = None
    PROGRAMMING NOTES = None
 MACRO MESSAGES =
        DFHMNEXC - INVALID OVERRIDING PREFIX
 --------------------------------------------------------------------
 EXTERNAL REFERENCES =
    MACROS (Macro pass) = None
    ROUTINES (Generated code) = None
    DATA AREAS (Generated code) = None
    CONTROL BLOCKS (Generated code) = None
    GLOBAL VARIABLES (Macro pass) = None
 --------------------------------------------------------------------
```

Table 475.

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

Table 475. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	4	EXCMNTRN	TRANSACTION IDENTIFICATION
(4)	BITSTRING	4	EXCMNTER	TERMINAL IDENTIFICATION
(8)	CHARACTER	8	EXCMNUSR	USER IDENTIFICATION
(10)	CHARACTER	4	EXCMNTST	TRANSACTION START TYPE
(14)	BITSTRING	8	EXCMNSTA	EXCEPTION START TIME
(1C)	BITSTRING	8	EXCMNSTO	EXCEPTION STOP TIME
(24)		4	EXCMNTNO	TRANSACTION NUMBER
(28)	BITSTRING	4	EXCMNTPR	TRANSACTION PRIORITY
(2C)	CHARACTER	4		RESERVED
(30)	CHARACTER	8	EXCMNLUN	LUNAME
(38)	CHARACTER	4		RESERVED
(3C)	BITSTRING	4	EXCMNEXN	EXCEPTION NUMBER
(40)	CHARACTER	8	EXCMNRTY	EXCEPTION RESOURCE TYPE
(48)	CHARACTER	8	EXCMNRID	EXCEPTION RESOURCE ID
(50)	BITSTRING	2	EXCMNTYP	EXCEPTION TYPE
(50)	BITSTRING	0	EXCMNWT	"X'0001'" WAIT
(50)	BITSTRING	0	EXCMNBWT	"X'0002'" BUFFER WAIT
(50)	BITSTRING	0	EXCMNSWT	"X'0003'" STRING WAIT
(52)	CHARACTER	2		RESERVED
(54)	CHARACTER	8	EXCMNTCN	TRANSACTION CLASS NAME
(5C)	CHARACTER	8	EXCMNSRV	SERVICE CLASS NAME
(64)	CHARACTER	8	EXCMNRPT	REPORT CLASS NAME
(6C)	CHARACTER	20	EXCMNNPX	NETWORK UNIT-OF-WORK PREFIX
(80)	BITSTRING	8	EXCMNNSX	NETWORK UNIT-OF-WORK SUFFIX

Table 475. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	BITSTRING	8	EXCMNTRF	TRANSACTION FLAGS
(90)	CHARACTER	4	EXCMNFCN	TRANSACTION FACILITY NAME
(94)	CHARACTER	8	EXCMNCPN	CURRENT PROGRAM NAME
(9C)	CHARACTER	4	EXCMNBTR	BRIDGE TRANSACTION ID
(A0)	BITSTRING	16	EXCMNURI	RRMS/MVS UNIT OF RECOVERY ID
(B0)	FULLWORD	4	EXCMNRIL	EXCEPTION RESOURCE ID LENGTH
(B4)	BITSTRING	256	EXCMNRIX	EXCEPTION RESOURCE ID (EXTENDED)
(1B4)	CHARACTER	8	EXCMNNID	NETWORK ID
(1BC)	CHARACTER	8	EXCMNRLU	REAL LUNAME
END OF EXCEPTION RECORD ...				

MNG Monitoring domain statistics

```
CONTROL BLOCK NAME = DFHMNGDS
DESCRIPTIVE NAME  = CICS Monitoring domain statistics
   @BANNER_START 02
                        DFHMNGDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This data area contains global statistics provided by the
      Monitoring Domain
      It is provided for use in users monitoring applications to
      map the statistics written to SMF by the statistics domain.
      There is a single instance of this data block.
LIFETIME =
      This data block is created when the Monitoring Domain is
      initialised and remains until the domain is shut down.
LOCATION =
      User is passed a pointer to the head of the storage block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS =
   MODULE TYPE = Domain call buffer
--------------------------------------------------------------------
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = none
    GLOBAL VARIABLES (Macro pass) = None
--------------------------------------------------------------------
```

Table 476.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHMNGDS	Monitoring Domain Stats
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	MNGLEN	Length of data
(0)	SIGNED	0	MNGIDE	"81" Monitoring domain id mask
(2)	ADDRESS	2	MNGID	Monitoring domain id
(2)	BITSTRING	0	MNGVERS	"X'01'" DSECT version mask
(4)	CHARACTER	1	MNGDVERS	DSECT version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	MNGER	No. Exception records
(C)	FULLWORD	4	MNGERS	No. Exception records supp. by exit
(10)	FULLWORD	4	MNGPR	No. Performance records
(14)	FULLWORD	4	MNGPRS	No. Performance records supp. by exit
(18)	FULLWORD	4	MNGSMFR	No. SMF records
(1C)	FULLWORD	4	MNGSMFE	No. SMF Errors
(20)	FULLWORD	4	MNGSMFNC	No. SMF records not compressed
(24)	FULLWORD	4	MNGSMFCM	No. SMF records compressed
(28)	FULLWORD	4	MNGRR	No. Resource records
(2C)	FULLWORD	4	MNGRRS	No. Resource records supp. by exit
(30)	FULLWORD	4	MNGIR	No. Identity records
(34)	FULLWORD	4	MNGIRS	No. Identity records supp. by exit
(38)	HALFWORD	2	MNGFRL	File Resource Limit
(3A)	HALFWORD	2	MNGTRL	Tsqueue Resource Limit
(3C)	HALFWORD	2	MNGDPLRL	DPL Resource Limit
(3E)	BITSTRING	6		Reserved
(44)	BITSTRING	1	MNGMRCMP	Data Compression Option
	....		MNGRCMPN	"X'00'" 0 = Data Compression is Not Active
(44)	BITSTRING	0	MNGRCMPY	"X'01'" 1 = Data Compression is Active

Table 476. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(45)	BITSTRING	3		Reserved
(48)	FULLWORD	4	MNGAVURL	Avg Uncompressed record length
(4C)	FULLWORD	4	MNGAVCRL	Avg Compressed record length
(50)	BITSTRING	1	MNGWLMMD	Workload Management Mode
	....		MNGCOMP	"X'00'" 0 = Compatibility Mode
(50)	BITSTRING	0	MNGGOAL	"X'01'" 1 = Goal Mode
(51)	BITSTRING	1	MNGWLMST	WLM Address Space Server status
	....		MNGNSRV	"X'00'" 0 = Address Space is Not a Server
(51)	BITSTRING	0	MNGSRV	"X'01'" 1 = Address Space is a Server
(52)	BITSTRING	2		Reserved
(54)	CHARACTER	8	MNGWLMSC	WLM Service Class name - if any
(5C)	CHARACTER	8	MNGWLMWN	WLM Owning Workload Name
(64)	CHARACTER	8	MNGWLMRG	WLM Resource Group name - if any
(6C)	CHARACTER	8	MNGWLMRC	WLM Report Class name - if any
(74)	BITSTRING	1	MNGWLMGT	WLM Goal type
	....		MNGGTNA	"X'00'" 0 = Not applicable
(74)	BITSTRING	0	MNGGTVEL	"X'01'" 1 = Velocity
(74)	BITSTRING	0	MNGGTDIS	"X'02'" 2 = Discretionary
(74)	BITSTRING	0	MNGGTSYS	"X'03'" 3 = System
(75)	BITSTRING	1	MNGWLMCC	WLM CPU Critical
	....		MNGCCNCR	"X'00'" 0 = Not critical
(75)	BITSTRING	0	MNGCCCRT	"X'01'" 1 = Critical
(76)	BITSTRING	1	MNGWLMSK	WLM Storage Critical
	....		MNGSCNCR	"X'00'" 0 = Not critical
(76)	BITSTRING	0	MNGSCCRT	"X'01'" 1 = Critical
(77)	BITSTRING	1		Reserved
(78)	FULLWORD	4	MNGWLMGV	WLM goal value Value of velocity goal 0 if type not velocity
(7C)	HALFWORD	2	MNGWLMGI	WLM goal importance
(7E)	HALFWORD	2		Reserved

Table 476. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(80)	BITSTRING	36		Reserved
(80)		0	MNGEND	"*"
(80)		0	MNGCLEN	"*-MNGLEN" Length

MNI Transaction identity monitoring data

```
          CONTROL BLOCK NAME = DFHMNIDS
          DESCRIPTIVE NAME  = CICS Monitoring Identity Record
     Descriptions
          @BANNER_START 02
                         DFHMNIDS
          Licensed Materials - Property of IBM
          "Restricted Materials of IBM"
          5655-S97
          @BANNER_END
     FUNCTION =
              Monitoring Identity record descriptions.
     LIFETIME = N/A
     STORAGE CLASS = N/A
     LOCATION = N/A
     INNER CONTROL BLOCKS = None
     NOTES :
        DEPENDENCIES = S/370
        RESTRICTIONS = None
        MODULE TYPE = Control block definition
     ---------------------------------------------------------------
     EXTERNAL REFERENCES = None
        DATA AREAS = None
        CONTROL BLOCKS = None
        GLOBAL VARIABLES (Macro pass) = None
     ---------------------------------------------------------------
```

Table 477.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHMNIDS	, Monitoring Identity Record
(0)	FULLWORD	4	(0)	Fullword allignment
(0)	HALFWORD	2	MNI_LENGTH	Length of identity data
(0)	SIGNED	0	MNI_ID_EQUATE	"51" Monitoring domain id mask
(2)	ADDRESS	2	MNI_ID	Monitoring domain id
(2)	BITSTRING	0	MNI_VERSION	"X'01'" DSECT version mask
(4)	CHARACTER	1	MNI_DSECT_VERS	DSECT version number
(5)	CHARACTER	3		Reserved
(8)	BITSTRING	32	MNI_HEADER (0)	Header Data
(8)	HALFWORD	2	MNI_HDRLEN	Length of header data
(A)	BITSTRING	2		Reserved
(C)	BITSTRING	8		Reserved

Table 477. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	HALFWORD	2	MNI_TRN	Number of record triplets
(16)	BITSTRING	2		Reserved
(18)	BITSTRING	4	MNI_ISO	Offset to ID data
(1C)	BITSTRING	2	MNI_ISL	Length of ID entry
(1E)	BITSTRING	2	MNI_ISN	Number of ID entries
(20)	BITSTRING	4	MNI_DSO	Offset to Data entry
(24)	BITSTRING	2	MNI_DSL	Length of Data entry
(26)	BITSTRING	2	MNI_DSN	Number of Data entries
(26)		0	MNI_HDR_LENGTH	"*-MNI_HEADER" Header data length

Table 478.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	MNI_ID_DATA	Identification Data Entry
(0)	CHARACTER	4	MNI_ID_TRANID	Transaction id
(4)	CHARACTER	4	MNI_ID_TERMID	Terminal id
(8)	CHARACTER	8	MNI_ID_USERID	User id
(10)	CHARACTER	4	MNI_ID_STYPE	Transaction Start type
(14)	BITSTRING	8	MNI_ID_START	Transaction Start time
(1C)	BITSTRING	8	MNI_ID_STOP	Transaction Stop time
(24)	BITSTRING	4	MNI_ID_TASKNO	Transaction Sequence Number
(28)	CHARACTER	8	MNI_ID_LUNAME	VTAM Luname
(30)	CHARACTER	8	MNI_ID_PGMNAME	First program name
(38)	BITSTRING	20	MNI_ID_UOW_PX	Network Unit-of-Work Prefix
(4C)	BITSTRING	8	MNI_ID_UOW_SX	Network Unit-of-Work Suffix
(54)	CHARACTER	4	MNI_ID_RSYSID	Remote sysid routed to
(58)	BITSTRING	8	MNI_ID_TRN_FLAGS	Transaction flags
(60)	CHARACTER	4	MNI_ID_FCTYNAME	Transaction Facility name
(64)	CHARACTER	4	MNI_ID_RTYPE	Resource Record Type
(68)	BITSTRING	4	MNI_ID_TERMINFO (0)	Terminal Information
(68)	BITSTRING	1	MNI_ID_NATURE	Nature
	....		MNI_ID_ NATURE_NOTAPPLIC	
				"X'00'" Not applic

Table 478. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(68)	BITSTRING	0	MNI_ID_ NATURE_TERMINAL	
				"X'01'" Terminal
(68)	BITSTRING	0	MNI_ID_ NATURE_SESSION	
				"X'02'" Session
(69)	BITSTRING	1	MNI_ID_SESSTYPE	Session Type
	....		MNI_ID_ SESSTYPE_ NOTAPPLIC	
				"X'00'" Not applic
(69)	BITSTRING	0	MNI_ID_ SESSTYPE_IRC	
				"X'01'" IRC
(69)	BITSTRING	0	MNI_ID_ SESSTYPE_IRC_XM	
				"X'02'" IRC XM
(69)	BITSTRING	0	MNI_ID_ SESSTYPE_IRC_XCF	
				"X'03'" IRC XCF
(69)	BITSTRING	0	MNI_ID_ SESSTYPE_LU61	
				"X'04'" LU61
(69)	BITSTRING	0	MNI_ID_ SESSTYPE_ LU62_SING	
				"X'05'" LU62 SINGLE
(69)	BITSTRING	0	MNI_ID_ SESSTYPE_ LU62_PARA	
				"X'06'" LU62 PARALLEL
(6A)	BITSTRING	1	MNI_ID_ACMETH	Access method
	....		MNI_ID_ ACMETH_NOTAPPLIC	
				"X'00'" Not applic
(6A)	BITSTRING	0	MNI_ID_ ACMETH_VTAM	"X'01'" VTAM
(6A)	BITSTRING	0	MNI_ID_ ACMETH_BSAM	"X'03'" BSAM
(6A)	BITSTRING	0	MNI_ID_ ACMETH_TCAM	"X'04'" TCAM
(6A)	BITSTRING	0	MNI_ID_ ACMETH_BGAM	"X'06'" BGAM
(6A)	BITSTRING	0	MNI_ID_ ACMETH_CONSOLE	
				"X'07'" CONSOLE

Table 478. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6B)	BITSTRING	1	MNI_ID_DEVCODE	Device type code See TYPETERM RDO attribute
(6C)	CHARACTER	4	MNI_ID_TERMCNNM	Terminal Connection name
(70)	BITSTRING	4		Reserved
(74)	BITSTRING	8	MNI_ID_ISIPICNM	IPCONN name
(7C)	BITSTRING	8		Reserved
(84)	BITSTRING	8		Reserved
(8C)	CHARACTER	40	MNI_ID_CLIPADDR	Client IP Address
(B4)	CHARACTER	8	MNI_ID_ ORIGIN_NETWKID	
				Originating networkid
(BC)	CHARACTER	8	MNI_ID_ ORIGIN_APPLID	
				Originating applid
(C4)	CHARACTER	8	MNI_ID_ ORIGIN_ATT_TIME	
				Originating task start time
(CC)	CHARACTER	4	MNI_ID_ ORIGIN_TRANNUM	
				Originating tran seq no
(D0)	CHARACTER	4	MNI_ID_ ORIGIN_TRANID	
				Originating tran id
(D4)	CHARACTER	8	MNI_ID_ ORIGIN_USERID	
				Originating userid
(DC)	CHARACTER	64	MNI_ID_ ORIGIN_USER_CORR	
				Originating user data
(11C)	CHARACTER	8	MNI_ID_ ORIGIN_TCPIPSERV	
				Originating TCPIPSERVICE
(124)	BITSTRING	4	MNI_ID_ ORIGIN_PORTNUM	
				Originating portnumber
(128)	CHARACTER	40	MNI_ID_ ORIGIN_CLIPADDR	
				Originating Client IPaddress

Table 478. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(150)	BITSTRING	4	MNI_ID_ ORIGIN_CLIPPORT	
				Originating Client portnum
(154)	BITSTRING	8	MNI_ID_ ORIGIN_TRANFLAG	
				Originating transaction flags
(15C)	CHARACTER	8	MNI_ID_ ORIGIN_FCTYNAME	
				Originating facility name
(164)	CHARACTER	8		Reserved
(16C)	CHARACTER	8	MNI_PHD_NETWKID	Previous Hop data networkid
(174)	CHARACTER	8	MNI_PHD_APPLID	Previous Hop data applid
(17C)	CHARACTER	8	MNI_PHD_ ATTACH_TIME	
				Previous Hop data task start
(184)	CHARACTER	4	MNI_PHD_TRANNUM	Previous Hop data tran seqno
(188)	CHARACTER	4	MNI_PHD_TRANID	Previous Hop data tranid
(18C)	BITSTRING	4	MNI_PHD_COUNT	Previous Hop data count
(190)	CHARACTER	4		Reserved
(190)		0	MNI_ID_LENGTH	"*-MNI_ID_DATA" Identification entry data length

Table 479.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	MNI_DATA_ENTRY	Data Entry
(0)	BITSTRING	2	MNI_ENTRY_IDENT	Data entry ident
(2)	BITSTRING	2	MNI_ENTRY_LENGTH	Data entry length
(4)	CHARACTER	1	MNI_ENTRY_FIELD (0)	Data entry field

PDA Monitoring Performance Data Record

```
CONTROL BLOCK NAME = DFHMNPDA
DESCRIPTIVE NAME  = CICS CICS/ESA Monitoring Facility (CMF)
   @BANNER_START 02
                          DFHMNPDA
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
```

```
        5655-S97
        @BANNER_END
      FUNCTION =
          This DSECT describes the format of the CICS/ESA Monitoring
          Facility (CMF) Performance class record created by the
      LIFETIME = N/A
      STORAGE CLASS = N/A
      LOCATION = N/A
      INNER CONTROL BLOCKS = N/A
      NOTES :
         DEPENDENCIES = S/370
         RESTRICTIONS = None
         MODULE TYPE = Control block definition
      -----------------------------------------------------------------
      EXTERNAL REFERENCES = None
         DATA AREAS = N/A
         CONTROL BLOCKS = N/A
         GLOBAL VARIABLES (Macro pass) = N/A
      -----------------------------------------------------------------
```

Table 480.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHMNPDA	, Unloaded Performance Data Record
(0)	CHARACTER	8	PDRJOBNM	Jobname
(8)	CHARACTER	8	PDRGAPPL	Generic Applid
(10)	CHARACTER	8	PDRSAPPL	Specific Applid
(18)	CHARACTER	4	PDRSID	System identification
(1C)	BITSTRING	2	PDRRVN	Record version - x'0vrm'
(1E)	BITSTRING	2	PDRMFL	Record maintenance indicator
(20)	BITSTRING	4		Reserved - spare
(24)	BITSTRING	2	PDRCLASS	Performance record class
(26)	BITSTRING	10	PDRSRTKY (0)	Cross system report sort key
(26)	BITSTRING	2	PDRSEQNO	Syncpoint sequence number
(28)	BITSTRING	8	PDRDETT2	Transaction stop time
(30)		4	PDRDATE	Stop Date (unsigned packed)
(34)	BITSTRING	4	PDRTIME	Stop Time (binary)
(38)	BITSTRING	4	PDRRESP	RESPonse Time (stop - start)
(3C)	BITSTRING	4	PDRIRESP	IRESPonse Time (resp - tciowtt)
(40)	BITSTRING	4		Spare - reserved
(44)	BITSTRING	22	PDRDB2TK	DB2 Accounting Correlation Token
(5A)	BITSTRING	2		Spare - reserved
The following fields are positionally sensitive.				

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5C)	FULLWORD	4	PDRBEGIN (0)	
(5C)	CHARACTER	4	PDRTRID	Transaction identification
(60)	CHARACTER	4	PDRTEID	Terminal identification
(64)	CHARACTER	8	PDRUSID	User identification
(6C)	CHARACTER	2	PDRTRTY	Transaction start type
(6E)	BITSTRING	2		Reserved
(70)	BITSTRING	8	PDRATTT	Task start time
(78)	BITSTRING	8	PDRDETT	Task stop time
(80)	BITSTRING	4	PDRTRSN	Transaction sequence number
(84)	BITSTRING	3		Reserved
(87)	BITSTRING	1	PDRTPRI	Transaction priority
(88)	CHARACTER	8	PDRTCLSN	Transaction class name
(90)	CHARACTER	8	PDRLUNM	VTAM logical unit name
(98)	CHARACTER	8	PDRPGNM	First program name Originating Network Unit-of-Work Id
(A0)	CHARACTER	20	PDRNETPX	Network Unit-of-Work Netname
(B4)	BITSTRING	8	PDRNETSX	Network Unit-of-Work Instance/Seqno
(BC)	CHARACTER	4	PDRRSYS	Remote sysid routed to
(C0)	BITSTRING	4	PDRPRCNT	Performance record count
(C4)	BITSTRING	8	PDRRMUOW	Recovery Manager Unit-of-Work id
(CC)	CHARACTER	8	PDRSRVCL	Workload Manager service class name
(D4)	CHARACTER	8	PDRRPTCL	Workload Manager report class name
(DC)	BITSTRING	4	PDRFCTY	FCTYNAME - Transaction Facility name
(E0)	BITSTRING	8	PDRTRFLG (0)	TRANFLAG - Transaction Flags
(E0)	BITSTRING	1	PDRTRFL1	Transaction Flag 1
(E0)	BITSTRING	0	PDRTRFL1_NONE	"X'80'" None
(E0)	BITSTRING	0	PDRTRFL1_TERM	"X'40'" Terminal Facility

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E0)	BITSTRING	0	PDRTRFL1_SURR	"X'20'" Surrogate Terminal Facility
(E0)	BITSTRING	0	PDRTRFL1_DEST	"X'10'" Destination Facility
(E0)	BITSTRING	0	PDRTRFL1_BRDG	"X'08'" Bridge Facility EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
(E1)	BITSTRING	1	PDRTRFL2	Transaction Flag 2
(E1)	BITSTRING	0	PDRTRFL2_SYSTEM	"X'80'" System Transaction
(E1)	BITSTRING	0	PDRTRFL2_MIRROR	"X'40'" Mirror Transaction
(E1)	BITSTRING	0	PDRTRFL2_DPL	"X'20'" Mirror Transaction - DPL
(E1)	BITSTRING	0	PDRTRFL2_ONC_RPC	"X'10'" Alias Transaction - ONC/RPC
(E1)	BITSTRING	0	PDRTRFL2_WEB	"X'08'" Alias Transaction - WEB
(E1)	BITSTRING	0	PDRTRFL2_BRIDGE	"X'04'" Bridge Transaction EQU X'02' Reserved
(E1)	BITSTRING	0	PDRTRFL2_ RUN_TRAN	"X'01'" BTS Run Transaction
(E2)	BITSTRING	1	PDRTRFL3	Transaction Flag 3
(E2)	BITSTRING	0	PDRTRFL3_RPT	"X'80'" WLM Report
(E2)	BITSTRING	0	PDRTRFL3_ NTFY_COMP	"X'40'" WLM Notify - Completion
(E2)	BITSTRING	0	PDRTRFL3_NTFY	"X'20'" WLM Notify
(E3)	BITSTRING	1	PDRTRFL4	Transaction Flag 4
(E3)	BITSTRING	0	PDRTRFL4_ LOC_BELOW	"X'80'" Taskdataloc=below
(E3)	BITSTRING	0	PDRTRFL4_ CICS_KEY	"X'40'" Taskdatakey=cics
(E3)	BITSTRING	0	PDRTRFL4_ ISOLATE_NO	
				"X'20'" Isolate=no
(E3)	BITSTRING	0	PDRTRFL4_DYNAMIC	"X'10'" Dynamic=yes EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
(E4)	BITSTRING	1	PDRTRFL5	Transaction Flag 5 - Reserved Transaction origin type
(E5)	BITSTRING	1	PDRTRFL6	Transaction Flag 6 - Reserved

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E6)	BITSTRING	1	PDRTRFL7	Transaction Flag 7 - Reserved
(E7)	BITSTRING	1	PDRTRFL8	Transaction Flag 8
(E7)	BITSTRING	0	PDRTRFL8_WAIT_NO	"X'80'" Indoubt wait = no
(E7)	BITSTRING	0	PDRTRFL8_COMMIT	"X'40'" Indoubt action = commit
(E7)	BITSTRING	0	PDRTRFL8_ INDOUBT_ACT	
				"X'20'" UOW Indoubt action
(E7)	BITSTRING	0	PDRTRFL8_ UOW_SHUNT	"X'10'" UOW Shunt
(E7)	BITSTRING	0	PDRTRFL8_ UOW_UNSHUNT	
				"X'08'" UOW Unshunt
(E7)	BITSTRING	0	PDRTRFL8_ INDBT_FAIL	
				"X'04'" Indoubt failure
(E7)	BITSTRING	0	PDRTRFL8_ RO_FAILURE	
				"X'02'" Resource Owner failure EQU X'01' Reserved
(E8)	BITSTRING	4	PDRTEINF (0)	TERMINFO - Terminal Information
(E8)	BITSTRING	1	PDRNATUR	Nature
	....		PDRNATUR_ NOTAPPLIC	"X'00'" Not applic
(E8)	BITSTRING	0	PDRNATUR_ TERMINAL	"X'01'" Terminal
(E8)	BITSTRING	0	PDRNATUR_SESSION	"X'02'" Session
(E9)	BITSTRING	1	PDRSESST	Session Type
	....		PDRSESST_ NOTAPPLIC	"X'00'" Not applic
(E9)	BITSTRING	0	PDRSESST_IRC	"X'01'" IRC
(E9)	BITSTRING	0	PDRSESST_IRC_XM	"X'02'" IRC XM
(E9)	BITSTRING	0	PDRSESST_IRC_XCF	"X'03'" IRC XCF
(E9)	BITSTRING	0	PDRSESST_LU61	"X'04'" LU61
(E9)	BITSTRING	0	PDRSESST_ LU62_SING	"X'05'" LU62 SINGLE
(E9)	BITSTRING	0	PDRSESST_ LU62_PARA	"X'06'" LU62 PARALLEL
(EA)	BITSTRING	1	PDRACMTH	Access method

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	....		PDRACMTH_ NOTAPPLIC	"X'00'" Not applic
(EA)	BITSTRING	0	PDRACMTH_VTAM	"X'01'" VTAM
(EA)	BITSTRING	0	PDRACMTH_BSAM	"X'03'" BSAM
(EA)	BITSTRING	0	PDRACMTH_TCAM	"X'04'" TCAM
(EA)	BITSTRING	0	PDRACMTH_BGAM	"X'06'" BGAM
(EA)	BITSTRING	0	PDRACMTH_CONSOLE	"X'07'" CONSOLE
(EB)	BITSTRING	1	PDRDVTCD	Device type code See TYPETERM RDO attribute
(EC)	CHARACTER	4	PDRTECNM	TERMCONM - Terminal Connection name
(F0)	CHARACTER	4	PDRBTRID	BRDGTRAN - Bridge transaction id
(F4)	BITSTRING	16	PDRURID	RRMSURID - RRMS/MVS Unit of Recovery
(104)	CHARACTER	36	PDRPNAME	PRCSNAME - Process name
(128)	CHARACTER	8	PDRPTYPE	PRCSTYPE - Process type
(130)	CHARACTER	52	PDRPRCID	PRCSID - Process id
(164)	CHARACTER	52	PDRACTID	ACTVTYID - Activity id
(198)	CHARACTER	16	PDRACTNM	ACTVTYNM - Activity name
(1A8)	CHARACTER	40	PDRCIPAD	CLIPADDR - Client IP Address
(1D0)	BITSTRING	28	PDRTGPID	TRNGRPID - Transaction Groupd Id
(1EC)	CHARACTER	8	PDRNETID	NETID - Network id
(1F4)	CHARACTER	8	PDRRLUNM	RLUNAME - Real Luname
(1FC)	CHARACTER	8	PDRTCPSV	TCPSRVCE - TCP/IP Service name
(204)	BITSTRING	4	PDRPORTN	PORTNUM - TCP/IP Port number
(208)	BITSTRING	128	PDROTSID	OTSTID - OTS Transaction id
(288)	CHARACTER	4	PDRCBRNM	CBSRVRNM - CorbaServer name
(28C)	BITSTRING	4	PDRCIPOR	CLIPPORT - Client IP Port
(290)	CHARACTER	8	PDRISCNM	ISIPICNM - IPCONN name

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(298)	CHARACTER	8	PDRONWID	Originating netwrkid
(2A0)	CHARACTER	8	PDROAPID	Originating applid
(2A8)	BITSTRING	8	PDROATTT	Originating task start time
(2B0)	CHARACTER	4	PDROTRSN	Originating transaction seq no
(2B4)	CHARACTER	4	PDROTRID	Originating transaction ID
(2B8)	CHARACTER	8	PDROUSID	Originating userid
(2C0)	CHARACTER	64	PDROUSRC	Originating user specific data
(300)	CHARACTER	8	PDROTCPS	Originating TCPIPSERVICE
(308)	BITSTRING	4	PDROPRTN	Originating portnumber
(30C)	CHARACTER	40	PDROCIPA	Originating client IP address
(334)	BITSTRING	4	PDROCPNO	Originating client portnumber
(338)	BITSTRING	8	PDROTRFG	Originating transaction flags
(340)	CHARACTER	8	PDROFCTY	Originating facility name
(348)	CHARACTER	8	PDRURIMN	Urimap name
(350)	CHARACTER	8	PDRPIPLN	Pipeline name
(358)	CHARACTER	8	PDRATMSN	Atomservice name
(360)	CHARACTER	32	PDRWSVCN	Webservice name
(380)	CHARACTER	64	PDRWSOPN	Webservice operation name
(3C0)	CHARACTER	8	PDRWPGMN	Program name
(3C8)	CHARACTER	8	PDRPHNWD	Previous Hop data networkid
(3D0)	CHARACTER	8	PDRPHAPL	Previous Hop data applid
(3D8)	CHARACTER	8	PDRPHATT	Previous Hop data task start tim
(3E0)	CHARACTER	4	PDRPHTSN	Previous Hop data trans seq no
(3E4)	CHARACTER	4	PDRPHTID	Previous Hop data transaction id
(3E8)	BITSTRING	4	PDRPHCNT	Previous Hop data count
(3EC)	CHARACTER	64	PDRADPID	Originating adapter id
(42C)	CHARACTER	64	PDRADPD1	Originating adapter data 1

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(46C)	CHARACTER	64	PDRADPD2	Originating adapter data 2
(4AC)	CHARACTER	64	PDRADPD3	Originating adapter data 3
(4EC)	BITSTRING	4	PDRERROR	TASKFLAG - Transaction error flags
(4F0)	CHARACTER	4	PDRABCDO	Original Transaction abend codes
(4F4)	CHARACTER	4	PDRABCDC	Current Transaction abend code
(4F8)	BITSTRING	3		Reserved
(4FB)	CHARACTER	1	PDRRTYPE	Performance record type
(4FB)	CHARACTER	0	PDRRTYPE_ CONVERSE	"C'C'" Converse
(4FB)	CHARACTER	0	PDRRTYPE_DELIVER	"C'D'" Deliver
(4FB)	CHARACTER	0	PDRRTYPE_ FREQUENCY	"C'F'" Frequency
(4FB)	CHARACTER	0	PDRRTYPE_ SYNCPOINT	"C'S'" Syncpoint
(4FB)	CHARACTER	0	PDRRTYPE_ TERMINATE	"C'T'" Terminate
(4FC)	BITSTRING	4	PDRPINMC	Primary TC messages - in
(500)	BITSTRING	4	PDRTCI1C	Primary TC characters - in
(504)	BITSTRING	4	PDRPOUMC	Primary TC messages - out
(508)	BITSTRING	4	PDRTCO1C	Primary TC characters - out
(50C)	BITSTRING	4	PDRSINMC	Secondary TC messages - in
(510)	BITSTRING	4	PDRTCI2C	Secondary TC characters - in
(514)	BITSTRING	4	PDRSOUMC	Secondary TC messages - out
(518)	BITSTRING	4	PDRTCO2C	Secondary TC characters - out
(51C)	BITSTRING	4	PDR62IMC	Secondary TC msgs for LU6.2. - in
(520)	BITSTRING	4	PDR62ICH	Secondary TC chars for LU6.2. - in
(524)	BITSTRING	4	PDR62OMC	Secondary TC msgs for LU6.2. - out
(528)	BITSTRING	4	PDR62OCH	Secondary TC chars for LU6.2. - out

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(52C)	BITSTRING	4	PDRTAC	No. TCTTE allocate requests
(530)	BITSTRING	4	PDRSCUGB	User stg getmain count below 16M
(534)	BITSTRING	4	PDRSCUGA	User stg getmain count above 16M
(538)	BITSTRING	4	PDRSCCGB	CDSA stg getmain count below 16M
(53C)	BITSTRING	4	PDRSCCGA	ECDSA stg getmain count above 16M
(540)	BITSTRING	4	PDRUSHWB	User task storage HWM below 16M
(544)	BITSTRING	4	PDRUSHWA	User task storage HWM above 16M
(548)	BITSTRING	4	PDRCHWMB	CDSA storage HWM below the 16M
(54C)	BITSTRING	4	PDRCHWMA	ECDSA storage HWM above the 16M
(550)	BITSTRING	8	PDRUTSOB	User task stg "occupancy" below 16M
(558)	BITSTRING	8	PDRUTSOA	User task stg "occupancy" above 16M
(560)	BITSTRING	8	PDRCOCCB	CDSA storage "occupancy" below 16M
(568)	BITSTRING	8	PDRCOCCA	ECDSA storage "occupancy" above 16M
(570)	BITSTRING	4	PDRSC24S	Shared stg getmain count below 16M
(574)	BITSTRING	4	PDRSC24G	Shared stg bytes getmain'd
(578)	BITSTRING	4	PDRSC24F	Shared stg bytes freemain'd
(57C)	BITSTRING	4	PDRSC31S	Shared stg getmain count above 16M
(580)	BITSTRING	4	PDRSC31G	Shared stg bytes getmain'd
(584)	BITSTRING	4	PDRSC31F	Shared stg bytes freemain'd
(588)	BITSTRING	4	PDRPCUSE	Program storage HWM
(58C)	BITSTRING	4	PDRPC31A	Program storage HWM above 16M
(590)	BITSTRING	4	PDRPCUSB	Program storage HWM below 16M

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(594)	BITSTRING	4	PDRPCCAH	ECDSA CICS program storage HWM
(598)	BITSTRING	4	PDRPCCBH	CDSA CICS program storage HWM
(59C)	BITSTRING	4	PDRPCRAH	ERDSA R/O program storage HWM
(5A0)	BITSTRING	4	PDRPCRBH	RDSA R/O program storage HWM
(5A4)	BITSTRING	4	PDRPCSAH	ESDSA Shared program storage HWM
(5A8)	BITSTRING	4	PDRPCSBH	SDSA Shared program storage HWM
(5AC)	BITSTRING	4	PDRFCGC	No. file gets
(5B0)	BITSTRING	4	PDRFCPC	No. file puts
(5B4)	BITSTRING	4	PDRFCBC	No. file browses
(5B8)	BITSTRING	4	PDRFCAC	No. file adds
(5BC)	BITSTRING	4	PDRFCDC	No. file deletes
(5C0)	BITSTRING	4	PDRFCTC	Total FC requests
(5C4)	BITSTRING	4	PDRFCAMC	No. access method requests
(5C8)	BITSTRING	4	PDRTDGC	No. transient data gets
(5CC)	BITSTRING	4	PDRTDPC	No. transient data puts
(5D0)	BITSTRING	4	PDRTDRC	No. transient data purges
(5D4)	BITSTRING	4	PDRTDTC	Total TD requests
(5D8)	BITSTRING	4	PDRTSGC	No. temp storage gets
(5DC)	BITSTRING	4	PDRTSPAC	No. temp storage puts - aux
(5E0)	BITSTRING	4	PDRTSPMC	No. temp storage puts - main
(5E4)	BITSTRING	4	PDRTSTC	Total TS requests
(5E8)	BITSTRING	4	PDRBMMC	No. BMS map requests
(5EC)	BITSTRING	4	PDRBMIC	No. BMS in requests
(5F0)	BITSTRING	4	PDRBMOC	No. BMS out requests
(5F4)	BITSTRING	4	PDRBMTC	Total BMS requests
(5F8)	BITSTRING	4	PDRPCLIC	No. program links
(5FC)	BITSTRING	4	PDRPCXC	No. program xctls
(600)	BITSTRING	4	PDRPCLOC	No. program loads

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(604)	BITSTRING	4	PDRPCLUC	No. program links to URMs
(608)	BITSTRING	4	PDRPCDPL	No. DPL program links
(60C)	BITSTRING	4	PDRPCDLL	DPL program links with channel option data length
(610)	BITSTRING	4	PDRPCDRL	DPL program returns with channel option data length
(614)	BITSTRING	4	PDRPCLCC	No. program links with channel option
(618)	BITSTRING	4	PDRPCXCC	No. program xctls with channel option
(61C)	BITSTRING	4	PDRPCDCC	DPL program links with channel option
(620)	BITSTRING	4	PDRPCRCC	No. program returns with channel option
(624)	BITSTRING	4	PDRPCRCL	No. program returns with channel option data length
(628)	BITSTRING	4	PDRJNLCT	No. journal write requests
(62C)	BITSTRING	4	PDRLGWCT	No. CICS logger write requests
(630)	BITSTRING	4	PDRICC	No. interval control starts
(634)	BITSTRING	4	PDRICTC	Total interval control requests
(638)	BITSTRING	4	PDRICSCC	No. interval control start reqs with channel option
(63C)	BITSTRING	4	PDRICSCD	Interval control start reqs with channel option data length
(640)	BITSTRING	4	PDRICSRC	No. interval control start reqs with channel option - remote
(644)	BITSTRING	4	PDRICSRD	Interval control start reqs with channel option data length - remote
(648)	BITSTRING	4	PDRSPPC	No. syncpoint requests
(64C)	BITSTRING	4	PDRCFACT	No. OO Class Libary API requests
(650)	BITSTRING	4	PDRSZACT	No. FEPI allocates

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(654)	BITSTRING	4	PDRSZRCT	No. FEPI receives
(658)	BITSTRING	4	PDRSZSCT	No. FEPI sends
(65C)	BITSTRING	4	PDRSZTCT	No. FEPI starts
(660)	BITSTRING	4	PDRSZCOT	No. chars sent via FEPI
(664)	BITSTRING	4	PDRSZCIN	No. chars received via FEPI
(668)	BITSTRING	4	PDRSZATO	No. FEPI allocate timeouts
(66C)	BITSTRING	4	PDRSZRTO	No. FEPI receive timeouts
(670)	BITSTRING	4	PDRSZTOT	Total no. FEPI requests
(674)	BITSTRING	4	PDRBARSC	No. Run Process/Activity Sync
(678)	BITSTRING	4	PDRBARAC	No. Run Process/Activity Async
(67C)	BITSTRING	4	PDRBALKC	No. Link Process/Activity reqs
(680)	BITSTRING	4	PDRBADPC	No. Define Process requests
(684)	BITSTRING	4	PDRBADAC	No. Define Activity requests
(688)	BITSTRING	4	PDRBTPAC	No. Reset Process/Activity reqs
(68C)	BITSTRING	4	PDRBSPAC	No. Suspend Process/Activity reqs
(690)	BITSTRING	4	PDRBRPAC	No. Resume Process/Activity reqs
(694)	BITSTRING	4	PDRBDCPC	No. Delete/Cancel requests
(698)	BITSTRING	4	PDRBAAPC	No. Acquire Process requests
(69C)	BITSTRING	4	PDRBATPC	Total No. Process/Activity reqs
(6A0)	BITSTRING	4	PDRBAPDC	No. Process Container requests
(6A4)	BITSTRING	4	PDRBAADC	No. Activity Container requests
(6A8)	BITSTRING	4	PDRBATCC	Total No. Container requests
(6AC)	BITSTRING	4	PDRBAREC	No. Reattach Event requests
(6B0)	BITSTRING	4	PDRBADIC	No. Define Input Event requests

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6B4)	BITSTRING	4	PDRBATAC	No. Timer Associated Event requests
(6B8)	BITSTRING	4	PDRBATEC	Total no. Event requests
(6BC)	BITSTRING	4	PDRWBRCT	No. WEB Receive requests
(6C0)	BITSTRING	4	PDRWBCIN	No. Characters received via WEB reqs
(6C4)	BITSTRING	4	PDRWBSCT	No. WEB Send requests
(6C8)	BITSTRING	4	PDRWBCOT	No. Characters sent via WEB requests
(6CC)	BITSTRING	4	PDRWBTC	Total No. WEB requests
(6D0)	BITSTRING	4	PDRWBRPR	No. Repository Reads
(6D4)	BITSTRING	4	PDRWBRPW	No. Repository Writes
(6D8)	BITSTRING	4	PDRWBERC	No. WEB Extract requests
(6DC)	BITSTRING	4	PDRWBBRC	No. WEB Browse requests
(6E0)	BITSTRING	4	PDRWBRRC	No. WEB Read requests
(6E4)	BITSTRING	4	PDRWBWRC	No. WEB Write requests
(6E8)	BITSTRING	4	PDRDHCRC	No. Document Create requests
(6EC)	BITSTRING	4	PDRDHINC	No. Document Insert requests
(6F0)	BITSTRING	4	PDRDHSTC	No. Document Set requests
(6F4)	BITSTRING	4	PDRDHRTC	No. Document Retrieve requests
(6F8)	BITSTRING	4	PDRDHDLC	No. Document Delete requests
(6FC)	BITSTRING	4	PDRDHTC	Total No. Document requests
(700)	BITSTRING	4	PDRDHTDL	Total Document Created length
(704)	BITSTRING	4	PDRSOBEN	No. Bytes Encrypted
(708)	BITSTRING	4	PDRSOBDE	No. Bytes Decrypted
(70C)	BITSTRING	4	PDRSOERC	No. Extract TCP/IP and Extract Certificate requests
(710)	BITSTRING	4	PDRSOCNS	No. Create Non-Persistent Socket req

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(714)	BITSTRING	4	PDRSOCPS	No. Create Persistent Socket req
(718)	BITSTRING	4	PDRSONHW	Non-Persistent Socket HWM
(71C)	BITSTRING	4	PDRSOPHW	Persistent Socket HWM
(720)	BITSTRING	4	PDRSORCT	No. Socket Receive requests
(724)	BITSTRING	4	PDRSOCIN	No. Characters received
(728)	BITSTRING	4	PDRSOSCT	No. Socket Send requests
(72C)	BITSTRING	4	PDRSOCOT	No. Characters sent
(730)	BITSTRING	4	PDRSOTC	Total No. Socket requests
(734)	BITSTRING	4	PDRSOIMC	No. Inbound Socket Receive reqs
(738)	BITSTRING	4	PDRSOI1C	No. Inbound Socket Characters rcv'd
(73C)	BITSTRING	4	PDRSOOMC	No. Inbound Socket Send reqs
(740)	BITSTRING	4	PDRSOO1C	No. Inbound Socket Characters sent
(744)	BITSTRING	4	PDRIMSRC	Total No. IMS requests
(748)	BITSTRING	4	PDRDB2RC	Total No. DB2 requests
(74C)	BITSTRING	4	PDRWMQRC	Total No. WebSphere MQ requests
(750)	BITSTRING	4	PDRTCBAC	No. CICS Dispatcher TCB Attach's
(754)	BITSTRING	4	PDRDSTHW	CICS Dispatcher TCB HWM
(758)	BITSTRING	4	PDREJBAC	No. Bean State Activation requests
(75C)	BITSTRING	4	PDREJBPC	No. Bean State Passivation requests
(760)	BITSTRING	4	PDREJBCC	No. Bean Creation requests
(764)	BITSTRING	4	PDREJBRC	No. Bean Removal requests
(768)	BITSTRING	4	PDREJMCT	No. EJB Method Calls
(76C)	BITSTRING	4	PDREJBTC	Total No. EJB requests
(770)	BITSTRING	4	PDRWBROC	No. Web Read requests

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(774)	BITSTRING	4	PDRWBWOC	No. Web Write requests
(778)	BITSTRING	4	PDRWBIRC	No. Web Receive requests
(77C)	BITSTRING	4	PDRWBI1C	No. Bytes received by Web reqs
(780)	BITSTRING	4	PDRWBOSC	No. Web Send requests
(784)	BITSTRING	4	PDRWBO1C	No. Bytes sent by Web send reqs
(788)	BITSTRING	4	PDRWBPRC	No. Web Parse requests
(78C)	BITSTRING	4	PDRWBBOC	No. Web Browse requests
(790)	BITSTRING	4	PDRWBIWC	No. Invoke Webservice requests
(794)	BITSTRING	4	PDRWBRDL	Repository Read data length
(798)	BITSTRING	4	PDRWBWDL	Repository Write data length
(79C)	BITSTRING	4	PDRPGCTC	Total No. channel data container requests
(7A0)	BITSTRING	4	PDRPGBCC	No. Browse container channel requests
(7A4)	BITSTRING	4	PDRPGGCC	No. Get container channel requests
(7A8)	BITSTRING	4	PDRPGPCC	No. Put container channel requests
(7AC)	BITSTRING	4	PDRPGMCC	No. Move container channel requests
(7B0)	BITSTRING	4	PDRPGGCL	Get container channel data length
(7B4)	BITSTRING	4	PDRPGPCL	Put container channel data length
(7B8)	BITSTRING	4	PDRPGCCC	No. Containers created
(7BC)	BITSTRING	4	PDRPGCSH	Container Storage HWM
(7C0)	BITSTRING	4	PDRISACT	No. IPCONN allocate requests
(7C4)	BITSTRING	4	PDREICTC	Total No. EXEC CICS requests
(7C8)	BITSTRING	4	PDRECSGE	No. SIGNAL EVENT requests
(7CC)	BITSTRING	4	PDRECFOC	No. Event Filter operations

Table 480. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(7D0)	BITSTRING	4	PDRECEVC	No. EVENTs captured
(7D4)	BITSTRING	4	PDRECSEC	No. synchronous emission EVENTs
(7D8)	BITSTRING	4	PDRTIATC	No. EXEC CICS ASKTIME requests
(7DC)	BITSTRING	4	PDRTITC	Total No. EXEC xxxxxxTIME reqs
(7E0)	BITSTRING	4	PDRBFDGC	No. BIF DIGEST requests
(7E4)	BITSTRING	4	PDRBFTC	Total No. BIF requests
(7E8)	BITSTRING	4	PDRMLTDL	Total document length
(7EC)	BITSTRING	4	PDRMLXTC	No. EXEC CICS TRANSFORM requests
(7F0)	BITSTRING	4	PDRWSCBC	No. WSACONTEXT BUILD requests
(7F4)	BITSTRING	4	PDRWSCGC	No. WSACONTEXT GET requests
(7F8)	BITSTRING	4	PDRWSEPC	No. WSAEPR CREATE requets
(7FC)	BITSTRING	4	PDRWSATC	Total No. WS-Addressing requests
(800)	BITSTRING	4	PDRWSFCC	No. SOAPFAULT CREATE requests
(804)	BITSTRING	4	PDRWSFTC	Total No. SOAPFAULT requests
(808)	BITSTRING	4	PDRWSSFC	No. INVOKE xxxSERVICE SOAP flts
(80C)	BITSTRING	4	PDRWSQBL	SOAP request body length
(810)	BITSTRING	4	PDRWSRBL	SOAP response body length
(814)	BITSTRING	12	PDRDIST	User task dispatch time
(820)	BITSTRING	12	PDRCPUT	User task cpu time
(82C)	BITSTRING	12	PDRSUST	Task suspend time
(838)	BITSTRING	12	PDRDWT	Dispatch wait time
(844)	BITSTRING	12	PDRQRDSP	User task QR Mode dispatch time
(850)	BITSTRING	12	PDRQRCPU	User task QR Mode cpu time
(85C)	BITSTRING	12	PDRMSDSP	User task Other Mode dispatch time

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(868)	BITSTRING	12	PDRMSCPU	User task Other Mode cpu time
(874)	BITSTRING	12	PDRRODSP	User task RO Mode dispatch time
(880)	BITSTRING	12	PDRROCPU	User task RO Mode cpu time
(88C)	BITSTRING	12	PDRKY8DS	User task Key 8 Mode Dispatch time
(898)	BITSTRING	12	PDRKY8CP	User task Key 8 Mode Cpu time
(8A4)	BITSTRING	12	PDRKY9DS	User task Key 9 Mode Dispatch time
(8B0)	BITSTRING	12	PDRKY9CP	User task Key 9 Mode Cpu time
(8BC)	BITSTRING	12	PDRL8CPU	User task L8 Mode cpu time
(8C8)	BITSTRING	12	PDRL9CPU	User task L9 Mode cpu time
(8D4)	BITSTRING	12	PDRJ8CPU	User task J8 Mode cpu time
(8E0)	BITSTRING	12	PDRS8CPU	User task S8 Mode cpu time
(8EC)	BITSTRING	12	PDRJ9CPU	User task J9 Mode cpu time
(8F8)	BITSTRING	12	PDRX8CPU	User task X8 Mode cpu time
(904)	BITSTRING	12	PDRX9CPU	User task X9 Mode cpu time
(910)	BITSTRING	12	PDRT8CPU	User task T8 Mode cpu time
(91C)	BITSTRING	12	PDRQRDLY	QR Mode delay time
(928)	BITSTRING	12	PDROTDLY	Max Open TCB delay time
(934)	BITSTRING	12	PDRJTDLY	Max JVM TCB delay time
(940)	BITSTRING	12	PDRXTDLY	Max XPLink TCB delay time
(94C)	BITSTRING	12	PDRSTDLY	Max SSL TCB delay time
(958)	BITSTRING	12	PDRTTDLY	Max Thrd TCB delay time
(964)	BITSTRING	12	PDRDSMWT	Dispatcher TCB Mismatch wait time
(970)	BITSTRING	12	PDRCMDLY	CICS TCB Change Mode delay time
(97C)	BITSTRING	12	PDREXWT	Exception wait time
(988)	BITSTRING	12	PDRTCWT	TC i/o wait time

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(994)	BITSTRING	12	PDRFCWT	FC i/o wait time
(9A0)	BITSTRING	12	PDRJCWT	JC i/o wait time
(9AC)	BITSTRING	12	PDRTSWT	TS i/o wait time
(9B8)	BITSTRING	12	PDRIRWT	IR i/o wait time
(9C4)	BITSTRING	12	PDRTDWT	TD i/o wait time
(9D0)	BITSTRING	12	PDRPCLT	Program load time
(9DC)	BITSTRING	12	PDRFDDLY	1st Dispatch delay - TCLASS,MXT,etc
(9E8)	BITSTRING	12	PDRFDTCL	1st Dispatch delay due to TCLASS
(9F4)	BITSTRING	12	PDRFDMXT	1st Dispatch delay due to MXT
(A00)	BITSTRING	12	PDRNQDLY	Local ENQ delay time
(A0C)	BITSTRING	12	PDRGQDLY	Global ENQ delay time
(A18)	BITSTRING	12	PDR61WT	LU61 i/o wait time
(A24)	BITSTRING	12	PDR62WT	LU62 i/o wait time
(A30)	BITSTRING	12	PDRSZWT	FEPI suspend time
(A3C)	BITSTRING	12	PDRRMIT	Total RMI elapsed time
(A48)	BITSTRING	12	PDRRMIS	Total RMI suspend time
(A54)	BITSTRING	12	PDRSYNCT	Syncpoint elapsed time
(A60)	BITSTRING	12	PDRRLSWT	RLS wait time
(A6C)	BITSTRING	12	PDRRLSCP	RLS SRB CPU time
(A78)	BITSTRING	12	PDRLMDLY	Lock Mgr delay time
(A84)	BITSTRING	12	PDRWTXWT	External wait time
(A90)	BITSTRING	12	PDRWCEWT	Cics/Event wait time
(A9C)	BITSTRING	12	PDRICDLY	Interval control delay time
(AA8)	BITSTRING	12	PDRGVPWT	Give up control wait time
(AB4)	BITSTRING	12	PDRTSHWT	Shared TS wait time
(AC0)	BITSTRING	12	PDRCDTWT	CF Data Table wait time
(ACC)	BITSTRING	12	PDRSYWTT	Server Syncpoint wait time
(AD8)	BITSTRING	12	PDRRRSWT	RRMS/MVS wait time
(AE4)	BITSTRING	12	PDRRTRWT	Run Transaction wait time
(AF0)	BITSTRING	12	PDRSYDLY	Syncpoint delay time

Table 480. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(AFC)	BITSTRING	12	PDRSOWT	Socket I/O wait time
(B08)	BITSTRING	12	PDRIMSWT	IMS wait time
(B14)	BITSTRING	12	PDRRDQWT	DB2 Readyq wait time
(B20)	BITSTRING	12	PDRCONWT	DB2 Connection wait time
(B2C)	BITSTRING	12	PDRDB2WT	DB2 wait time
(B38)	BITSTRING	12	PDRMQGWT	WebSphere MQ Getwait wait time
(B44)	BITSTRING	12	PDRJVMT	Total JVM elapsed time
(B50)	BITSTRING	12	PDRJVMS	Total JVM suspend time
(B5C)	BITSTRING	12	PDRSOOWT	Outbound Socket I/O wait time
(B68)	BITSTRING	12	PDRRQRWT	Request Receiver wait time
(B74)	BITSTRING	12	PDRRQPWT	Request Processor wait time
(B80)	BITSTRING	12	PDROIDWT	OTS Indoubt wait time
(B8C)	BITSTRING	12	PDRJVMIT	JVM elapsed time - initialise
(B98)	BITSTRING	12	PDRJVMRT	JVM elapsed time - resetting
(BA4)	BITSTRING	12	PDRPTPWT	Partner wait time
(BB0)	BITSTRING	12	PDRDSCWT	DS storage constraint wait time
(BBC)	BITSTRING	12	PDRISWT	IS IPCONN I/O wait time
(BC8)	BITSTRING	12	PDRMLCTM	XML System Services CPU time
(BD4)	BITSTRING	12	PDRJSTWT	JVMSERVER thread wait time
(BE0)	BITSTRING	12	PDRMQAST	WebSphere MQ API SRB time
(BEC)	FULLWORD	4	PDRUEND (0)	
(BEC)		0	MNPDRLEN	"*-DFHMNPDA" Performance Data Record length

MNR Transaction resource monitoring data

```
       CONTROL BLOCK NAME = DFHMNRDS
       DESCRIPTIVE NAME  = CICS Monitoring Resource Record
    Descriptions
       @BANNER_START 02
                        DFHMNRDS
```

```
                   Licensed Materials - Property of IBM
                   "Restricted Materials of IBM"
                   5655-S97
                   @BANNER_END
               FUNCTION =
                     Monitoring Resource record descriptions.
               LIFETIME = N/A
               STORAGE CLASS = N/A
               LOCATION = N/A
               INNER CONTROL BLOCKS = None
               NOTES :
                  DEPENDENCIES = S/370
                  RESTRICTIONS = None
                  MODULE TYPE = Control block definition
          ------------------------------------------------------------------
            EXTERNAL REFERENCES = None
                  DATA AREAS = None
                  CONTROL BLOCKS = one
                  GLOBAL VARIABLES (Macro pass) = None
          ------------------------------------------------------------------
```

Table 481.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHMNRDS	, Monitoring Resource Record
(0)	FULLWORD	4	(0)	Fullword allignment
(0)	HALFWORD	2	MNR_LENGTH	Length of resource data
(0)	SIGNED	0	MNR_ID_EQUATE	"79" Monitoring domain id mask
(2)	ADDRESS	2	MNR_ID	Monitoring domain id
(2)	BITSTRING	0	MNR_VERSION	"X'01'" DSECT version mask
(4)	CHARACTER	1	MNR_DSECT_VERS	DSECT version number
(5)	CHARACTER	3		Reserved
(8)	BITSTRING	48	MNR_HEADER (0)	Header Data
(8)	HALFWORD	2	MNR_HDRLEN	Length of header data
(A)	BITSTRING	2		Reserved
(C)	BITSTRING	8		Reserved
(14)	HALFWORD	2	MNR_TRN	Number of record triplets
(16)	BITSTRING	2		Reserved
(18)	BITSTRING	4	MNR_ISO	Offset to ID data
(1C)	BITSTRING	2	MNR_ISL	Length of ID entry
(1E)	BITSTRING	2	MNR_ISN	Number of ID entries
(20)	BITSTRING	4	MNR_FSO	Offset to File data
(24)	BITSTRING	2	MNR_FSL	Length of File entry
(26)	BITSTRING	2	MNR_FSN	Number of File entries
(28)	BITSTRING	4	MNR_TSO	Offset to TSQueue data

Table 481. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	BITSTRING	2	MNR_TSL	Length of TSQueue entry
(2E)	BITSTRING	2	MNR_TSN	Number of TSQueue entries
(30)	BITSTRING	4	MNR_DSO	Offset to DPL data
(34)	BITSTRING	2	MNR_DSL	Length of DPL entry
(36)	BITSTRING	2	MNR_DSN	Number of DPL entries
(36)		0	MNR_HDR_LENGTH	"*-MNR_HEADER" Header data length

Table 482.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	MNR_ID_DATA	Identification Data Entry
(0)	CHARACTER	4	MNR_ID_TRANID	Transaction id
(4)	CHARACTER	4	MNR_ID_TERMID	Terminal id
(8)	CHARACTER	8	MNR_ID_USERID	User id
(10)	CHARACTER	4	MNR_ID_STYPE	Transaction Start type
(14)	BITSTRING	8	MNR_ID_START	Transaction Start time
(1C)	BITSTRING	8	MNR_ID_STOP	Transaction Stop time
(24)	BITSTRING	4	MNR_ID_TASKNO	Transaction Sequence Number
(28)	CHARACTER	8	MNR_ID_LUNAME	VTAM Luname
(30)	CHARACTER	8	MNR_ID_PGMNAME	First program name
(38)	BITSTRING	20	MNR_ID_UOW_PX	Network Unit-of-Work Prefix
(4C)	BITSTRING	8	MNR_ID_UOW_SX	Network Unit-of-Work Suffix
(54)	CHARACTER	4	MNR_ID_RSYSID	Remote sysid routed to
(58)	BITSTRING	8	MNR_ID_TRN_FLAGS	Transaction flags
(60)	CHARACTER	4	MNR_ID_FCTYNAME	Transaction Facility name
(64)	CHARACTER	4	MNR_ID_RTYPE	Resource Record Type
(68)	BITSTRING	4	MNR_ID_TERMINFO (0)	Terminal Information
(68)	BITSTRING	1	MNR_ID_NATURE	Nature
	....		MNR_ID_ NATURE_NOTAPPLIC	
				"X'00'" Not applic
(68)	BITSTRING	0	MNR_ID_ NATURE_TERMINAL	
				"X'01'" Terminal

Table 482. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(68)	BITSTRING	0	MNR_ID_ NATURE_SESSION	
				"X'02'" Session
(69)	BITSTRING	1	MNR_ID_SESSTYPE	Session Type
	....		MNR_ID_ SESSTYPE_ NOTAPPLIC	
				"X'00'" Not applic
(69)	BITSTRING	0	MNR_ID_ SESSTYPE_IRC	
				"X'01'" IRC
(69)	BITSTRING	0	MNR_ID_ SESSTYPE_IRC_XM	
				"X'02'" IRC XM
(69)	BITSTRING	0	MNR_ID_ SESSTYPE_IRC_XCF	
				"X'03'" IRC XCF
(69)	BITSTRING	0	MNR_ID_ SESSTYPE_LU61	
				"X'04'" LU61
(69)	BITSTRING	0	MNR_ID_ SESSTYPE_ LU62_SING	
				"X'05'" LU62 SINGLE
(69)	BITSTRING	0	MNR_ID_ SESSTYPE_ LU62_PARA	
				"X'06'" LU62 PARALLEL
(6A)	BITSTRING	1	MNR_ID_ACMETH	Access method
	....		MNR_ID_ ACMETH_NOTAPPLIC	
				"X'00'" Not applic
(6A)	BITSTRING	0	MNR_ID_ ACMETH_VTAM	"X'01'" VTAM
(6A)	BITSTRING	0	MNR_ID_ ACMETH_BSAM	"X'03'" BSAM
(6A)	BITSTRING	0	MNR_ID_ ACMETH_TCAM	"X'04'" TCAM
(6A)	BITSTRING	0	MNR_ID_ ACMETH_BGAM	"X'06'" BGAM
(6A)	BITSTRING	0	MNR_ID_ ACMETH_CONSOLE	
				"X'07'" CONSOLE

Table 482. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6B)	BITSTRING	1	MNR_ID_DEVCODE	Device type code See TYPETERM RDO attribute
(6C)	CHARACTER	4	MNR_ID_TERMCNNM	Terminal Connection name
(70)	BITSTRING	4	MNR_ID_RES_FLAGS (0)	Resource flags
(70)	BITSTRING	1	MNR_ID_RES_FLAG1	Resource flag 1
(70)	BITSTRING	0	MNR_FILE_ LIMIT_EXCEEDED	
				"X'80'" Resource File limit exceeded
(70)	BITSTRING	0	MNR_TSQUEUE_ LIMIT_EXCEEDED	
				"X'40'" Resource TSQueue limit exceeded
(70)	BITSTRING	0	MNR_DPL_ LIMIT_EXCEEDED	
				"X'20'" Resource DPL limit exceeded
(71)	BITSTRING	3		Reserved
(74)	BITSTRING	8	MNR_ID_ISIPICNM	IPCONN name
(7C)	BITSTRING	8		Reserved
(84)	BITSTRING	8		Reserved
(8C)	CHARACTER	40	MNR_ID_CLIPADDR	Client IP Address
(B4)	CHARACTER	8	MNR_ID_ ORIGIN_NETWKID	
				Originating networked
(BC)	CHARACTER	8	MNR_ID_ ORIGIN_APPLID	
				Originating applid
(C4)	BITSTRING	8	MNR_ID_ ORIGIN_ATT_TIME	
				Originating task start time
(CC)	CHARACTER	4	MNR_ID_ ORIGIN_TRANNUM	
				Originating tran seq no
(D0)	CHARACTER	4	MNR_ID_ ORIGIN_TRANID	
				Originating tran id
(D4)	CHARACTER	8	MNR_ID_ ORIGIN_USERID	

Table 482. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Originating userid
(DC)	CHARACTER	64	MNR_ID_ ORIGIN_USER_CORR	
				Originating user data
(11C)	CHARACTER	8	MNR_ID_ ORIGIN_TCPIPSERV	
				Originating TCPIPSERVICE
(124)	BITSTRING	4	MNR_ID_ ORIGIN_PORTNUM	
				Originating portnumber
(128)	CHARACTER	40	MNR_ID_ ORIGIN_CLIPADDR	
				Originating Client IPaddress
(150)	BITSTRING	4	MNR_ID_ ORIGIN_CLIPPORT	
				Originating client portnum
(154)	BITSTRING	8	MNR_ID_ ORIGIN_TRANFLAG	
				Originating tran flags
(15C)	CHARACTER	8	MNR_ID_ ORIGIN_FCTYNAME	
				Originating facility name
(164)	CHARACTER	8		Reserved
(16C)	CHARACTER	8	MNR_PHD_NETWKID	Previous Hop data networkid
(174)	CHARACTER	8	MNR_PHD_APPLID	Previous Hop data applid
(17C)	CHARACTER	8	MNR_PHD_ ATTACH_TIME	
				Previous Hop data task start
(184)	CHARACTER	4	MNR_PHD_TRANNUM	Previous Hop data tran seqno
(188)	CHARACTER	4	MNR_PHD_TRANID	Previous Hop data tranid
(18C)	BITSTRING	4	MNR_PHD_COUNT	Previous Hop data count
(190)	CHARACTER	4		Reserved
(194)	CHARACTER	28	MNR_ID_TRNGRPID	Transaction group id
(1B0)	CHARACTER	4		Reserved

Table 482. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1B0)		0	MNR_ID_LENGTH	"*-MNR_ID_DATA" Identification entry data length

Table 483.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	MNR_FILE_ENTRY	File Entry
(0)	CHARACTER	8	MNR_FILE_NAME	File name
(8)	BITSTRING	8	MNR_FILE_GET	File Get time/count
(10)	BITSTRING	8	MNR_FILE_PUT	File Put time/count
(18)	BITSTRING	8	MNR_FILE_BRWSE	File Browse time/count
(20)	BITSTRING	8	MNR_FILE_ADD	File Add time/count
(28)	BITSTRING	8	MNR_FILE_DEL	File Delete time/count
(30)	BITSTRING	8	MNR_FILE_TOTAL	File Total time/count
(38)	BITSTRING	4	MNR_FILE_AM_RQ	File Access Method request count
(3C)	BITSTRING	4		Reserved
(40)	BITSTRING	8	MNR_FILE_IO_WT	File I/O wait time
(48)	BITSTRING	8	MNR_RLS_ FILE_IO_WT	RLS File I/O wait time
(50)	BITSTRING	8	MNR_CFDT_IO_WT	CFDT I/O wait time
(58)	BITSTRING	8		Reserved
(58)		0	MNR_FILE_LEN	"*- MNR_FILE_ENTRY" File entry data length

Table 484.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	MNR_TSQUEUE_ENTRY	TSQueue Entry
(0)	CHARACTER	16	MNR_TSQUEUE_NAME	TSQueue Name
(10)	BITSTRING	8	MNR_TSQUEUE_GET	TSQueue Get time/count
(18)	BITSTRING	8	MNR_TSQUEUE_ PUT_AUX	
				TSQueue Put Aux time/count
(20)	BITSTRING	8	MNR_TSQUEUE_ PUT_MAIN	
				TSQueue Put Main time/count
(28)	BITSTRING	8	MNR_TSQUEUE_ TOTAL	TSQueue Total time/count

Table 484. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	BITSTRING	4		Reserved
(34)	BITSTRING	4	MNR_TSQUEUE_ GET_ITEML	
				TSQueue Get Item length
(38)	BITSTRING	4	MNR_TSQUEUE_ PUT_AUX_ITEML	
				TSQueue Put Aux Item length
(3C)	BITSTRING	4	MNR_TSQUEUE_ PUT_MAIN_ITEML	
				TSQueue Put Main Item length
(40)	BITSTRING	8		Reserved
(48)	BITSTRING	8	MNR_TSQUEUE_ IO_WT	TSQueue I/O wait time
(50)	BITSTRING	8	MNR_SHR_ TSQUEUE_IO_WT	
				Shared TSQueue I/O wait time
(58)	BITSTRING	8		Reserved
(58)		0	MNR_TSQUEUE_LEN	"*- MNR_TSQUEUE_ENTRY" TSQueue entry data length

Table 485.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	MNR_DPL_ENTRY	DPL Entry
(0)	CHARACTER	8	MNR_DPL_ PROGRAM_NAME	
				DPL Program Name
(8)	CHARACTER	4	MNR_DPL_SYSID	DPL Sysid
(C)	CHARACTER	4		Reserved
(10)	BITSTRING	8		Reserved
(18)	BITSTRING	4	MNR_DPL_ LINK_REQS	DPL LINK requests
(1C)	BITSTRING	4		Reserved
(1C)		0	MNR_DPL_LEN	"*- MNR_DPL_ENTRY" DPL entry data length

MNSMF SMF header and SMF product section

```
                    MACRO NAME = DFHMNSMF
                    DESCRIPTIVE NAME  = CICS SMF Header and SMF Product Section
                                             for Monitoring
                      @BANNER_START 02

                                      DFHMNSMF
                      Licensed Materials - Property of IBM
                      "Restricted Materials of IBM"
                      5655-S97
                      @BANNER_END
                    FUNCTION =
                         TO GENERATE THE SMF HEADER AND SMF PRODUCT SECTION DSECT
                         FOR THE MONITORING SMF RECORDS.
                    NOTES :
                      DEPENDENCIES = S/370
                      RESTRICTIONS = None
                      REGISTER CONVENTIONS = None
                      MODULE TYPE = DSECT DEFINITION MACRO
                      ATTRIBUTES = N/A
                    -------------------------------------------------------------------
                    PURPOSE = GENERATE THE DSECT FOR THE MONITORING RECORD SMF HEADER
                            AND SMF PRODUCT SECTION.
                      SYNTAX = <name> DFHMNSMF <TYPE=xxx>
                      INPUTS = NONE
                      OUTPUTS = DEFINITION FOR SMF HEADER AND SMF PRODUCT SECTION
                      RETURN CODES = NONE
                      PROGRAMMING NOTES = NONE
                    -------------------------------------------------------------------
                    OPERAND = TYPE=xxx
                      FUNCTION = To provide an overiding field name prefix.
                      DEFAULT = None
                      RESTRICTIONS = None
                      NOTES = None
                      EXAMPLES
                          TYPE=ABC
                    MACRO MESSAGES =
                          DFHMNSMF - INVALID OVERRIDING PREFIX
                    MACRO EXAMPLES =
                    GENERATED CODE = NONE
                    -------------------------------------------------------------------
                    EXTERNAL REFERENCES = NONE
                      MACROS (MACRO PASS) = NONE
                      ROUTINES (GENERATED CODE) = NONE
                      DATA AREAS (GENERATED CODE) = NONE
                      CONTROL BLOCKS (GENERATED CODE) = NONE
                      GLOBAL VARIABLES (MACRO PASS) = NONE
```

Table 486.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	MNSMFDS	
(0)	BITSTRING	2	SMFMNLEN	RECORD LENGTH
(2)	BITSTRING	2	SMFMNSEG	SEGMENT DESCRIPTOR
(4)	BITSTRING	1	SMFMNFLG	OPERATING SYSTEM INDICATOR
(4)	BITSTRING	0	SMFMNESA	"X'C0'" SMF SYSTEM INDICATOR
(5)	BITSTRING	1	SMFMNRTY	RECORD TYPE 110 FOR CICS

Table 486. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6)	BITSTRING	4	SMFMNTME	TIME RECORD MOVED
(A)	BITSTRING	4	SMFMNDTE	DATE RECORD MOVED
(E)	BITSTRING	4	SMFMNSID	SYSTEM IDENTIFICATION
(12)	CHARACTER	4	SMFMNSSI	SUB-SYSTEM IDENTIFICATION
(16)	BITSTRING	2	SMFMNSTY	RECORD SUBTYPE - X'0000' FOR JOURNALING - X'0001' FOR MONITORING - X'0002' FOR STATISTICS
(18)	BITSTRING	2	SMFMNTRN	NUMBER OF TRIPLETS IN RECORD
(1A)	BITSTRING	2		RESERVED
(1C)	BITSTRING	4	SMFMNAPS	OFFSET TO CICS PRODUCT SECTION
(20)	BITSTRING	2	SMFMNLPS	LENGTH OF CICS PRODUCT SECTION
(22)	BITSTRING	2	SMFMNNPS	NUMBER OF CICS PRODUCT SECTIONS
(24)	BITSTRING	4	SMFMNASS	OFFSET TO CICS DATA SECTION
(28)	BITSTRING	2	SMFMNASL	LENGTH OF CICS DATA SECTION
(2A)	BITSTRING	2	SMFMNASN	NUMBER OF CICS DATA SECTIONS
END OF SMF-HEADER ... ... START OF SMF PRODUCT-SECTION ...				
(2C)	BITSTRING	2	SMFMNRVN	RECORD VERSION, FORMAT X'0VRM' V = VERSION R = RELEASE M = MODIFICATION
(2E)	CHARACTER	8	SMFMNPRN	PRODUCT NAME (APPLID)
(36)	CHARACTER	8	SMFMNSPN	SPECIFIC APPLID
(3E)	BITSTRING	2	SMFMNMFL	RECORD MAINTENANCE INDICATOR
(40)	BITSTRING	2		RESERVED
(42)	BITSTRING	2	SMFMNCL	CLASS OF DATA

Table 486. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	BITSTRING	4	SMFMNDCA	OFFSET TO CICS FIELD CONNECTORS
(48)	BITSTRING	2	SMFMNDCL	LENGTH OF EACH CICS FIELD CONNECTOR
(4A)	BITSTRING	2	SMFMNDCN	NUMBER OF CICS FIELD CONNECTORS
(4C)	BITSTRING	4	SMFMNDRA	OFFSET TO FIRST CICS DATA RECORD
(50)	BITSTRING	2	SMFMNDRL	LENGTH OF EACH CICS DATA RECORD
(52)	BITSTRING	2	SMFMNDRN	NUMBER OF CICS DATA RECORDS
(54)	BITSTRING	18		Reserved
(66)	BITSTRING	2	SMFMNCRL	Compressed record length
(68)	BITSTRING	4	SMFMNTAD	Local TOD clock adjustment value
(6C)	BITSTRING	8	SMFMNLSO	Leap Second Offset TOD format
(74)	BITSTRING	8	SMFMNDTO	Local Time/Date Offset
(7C)	BITSTRING	1		RESERVED
(7D)	BITSTRING	1	SMFMNOPN	Monitoring Options
(7E)	CHARACTER	8	SMFMNJBN	JOBNAME
(86)	BITSTRING	4	SMFMNRSD	JOB DATE
(8A)	BITSTRING	4	SMFMNRST	JOB TIME
(8E)	CHARACTER	8	SMFMNUIF	USER IDENTIFICATION
(96)	CHARACTER	8	SMFMNPDN	OPERATING SYSTEM PRODUCT LEVEL
... END OF SMF PRODUCT-SECTION.				

MNT Transaction monitoring data

```
CONTROL BLOCK NAME = DFHMNTDS
DESCRIPTIVE NAME  = CICS Transaction Monitoring data
                   copybook
  @BANNER_START 02
                    DFHMNTDS
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = This copybook describes a transaction monitoring
data record. The record is built by the monitoring domain.
There is one record for each transaction.
```

```
                LIFETIME = The storage for a record is obtained when a
                request is made for transaction monitoring data. It is
                released when the request has been satisfied.
                LOCATION = The caller is passed a pointer to the head of
                the record.
                INNER CONTROL BLOCKS = None
                NOTES :
                   DEPENDENCIES = S/370
                   RESTRICTIONS = None
                   MODULE TYPE = Control block definition
             -------------------------------------------------------------------
                EXTERNAL REFERENCES = None
                   DATA AREAS = None
                   CONTROL BLOCKS = In monitoring domain
                   GLOBAL VARIABLES (Macro pass) = None
             -------------------------------------------------------------------
```

Table 487.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHMNTDS	,
(0)	FULLWORD	4	(0)	Fullword allignment
(0)	HALFWORD	2	MNTLEN	Length of data
(0)	SIGNED	0	MNTIDE	"84" Monitoring domain id mask
(2)	ADDRESS	2	MNTID	Monitoring domain id
(2)	BITSTRING	0	MNTVERS	"X'01'" DSECT version mask
(4)	CHARACTER	1	MNTDVERS	DSECT version number
(5)	CHARACTER	3		Reserved
(8)	HALFWORD	2	TMRBEGIN (0)	
(8)	CHARACTER	4	TMRTRID	TRAN - Transaction identification
(C)	CHARACTER	4	TMRTEID	TERM - Terminal identification
(10)	CHARACTER	8	TMRUSID	USERID - User identification
(18)	CHARACTER	4	TMRTRTY	TTYPE - Transaction type
(1C)	CHARACTER	8	TMRATTT	START - Task start time
(24)	CHARACTER	8	TMRDETT	STOP - Task stop time
(2C)	CHARACTER	4	TMRTRSN	TRANNUM - Transaction sequence number
(30)	BITSTRING	4	TMRTPRI	TRANPRI - Transaction priority
(34)	CHARACTER	8	TMRTCLSN	TCLSNAME - Transaction class name

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	CHARACTER	8	TMRLUNM	LUNAME - VTAM logical unit name
(44)	CHARACTER	8	TMRPGNM	PGMNAME - First program name Originating Network Unit-of-Work Id
(4C)	CHARACTER	20	TMRNETPX	NETUOWPX - Network Unit-of-Work Netname
(60)	BITSTRING	8	TMRNETSX	NETUOWSX - Network Unit-of-Work Instance/Seqno
(68)	CHARACTER	4	TMRRSYS	RSYSID - Remote sysid routed to
(6C)	BITSTRING	4	TMRPRCNT	PERRECNT - Performance record count
(70)	CHARACTER	8	TMRRMUOW	RMUOWID - Recovery Manager Unit-of-Work id
(78)	CHARACTER	8	TMRSRVCL	SRVCLSNM - Workload Manager service class name
(80)	CHARACTER	8	TMRRPTCL	RPTCLSNM - Workload Manager report class name
(88)	CHARACTER	4	TMRFCTY	FCTYNAME - Transaction Facility name
(8C)	BITSTRING	8	TMRTRFLG (0)	TRANFLAG - Transaction flags
(8C)	BITSTRING	1	TMRTRFL1	Transaction Flag 1
(8C)	BITSTRING	0	TMRTRFL1_NONE	"X'80'" None
(8C)	BITSTRING	0	TMRTRFL1_TERM	"X'40'" Terminal Facility
(8C)	BITSTRING	0	TMRTRFL1_SURR	"X'20'" Surrogate Terminal Facility
(8C)	BITSTRING	0	TMRTRFL1_DEST	"X'10'" Destination Facility
(8C)	BITSTRING	0	TMRTRFL1_BRDG	"X'08'" Bridge Facility EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
(8D)	BITSTRING	1	TMRTRFL2	Transaction Flag 2
(8D)	BITSTRING	0	TMRTRFL2_SYSTEM	"X'80'" System Transaction

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8D)	BITSTRING	0	TMRTRFL2_MIRROR	"X'40'" Mirror Transaction
(8D)	BITSTRING	0	TMRTRFL2_DPL	"X'20'" Mirror Transaction - DPL
(8D)	BITSTRING	0	TMRTRFL2_ONC_RPC	"X'10'" Alias Transaction - ONC/RPC
(8D)	BITSTRING	0	TMRTRFL2_WEB	"X'08'" Alias Transaction - WEB
(8D)	BITSTRING	0	TMRTRFL2_BRIDGE	"X'04'" Bridge Transaction EQU X'02' Reserved
(8D)	BITSTRING	0	TMRTFFL2_ RUN_TRAN	"X'01'" BTS Run Transaction
(8E)	BITSTRING	1	TMRTRFL3	Transaction Flag 3
(8E)	BITSTRING	0	TMRTRFL3_RPT	"X'80'" WLM Report
(8E)	BITSTRING	0	TMRTRFL3_ NTFY_COMP	"X'40'" WLM Notify - Completion
(8E)	BITSTRING	0	TMRTRFL3_NTFY	"X'20'" WLM Notify
(8F)	BITSTRING	1	TMRTRFL4	Transaction Flag 4
(8F)	BITSTRING	0	TMRTRFL4_ LOC_BELOW	"X'80'" Taskdataloc=below
(8F)	BITSTRING	0	TMRTRFL4_ CICS_KEY	"X'40'" Taskdatakey=cics
(8F)	BITSTRING	0	TMRTRFL4_ ISOLATE_NO	
				"X'20'" Isolate=no
(8F)	BITSTRING	0	TMRTRFL4_DYNAMIC	"X'10'" Dynamic=yes EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
(90)	BITSTRING	1	TMRTRFL5	Transaction Flag 5 Transaction origin type
(91)	BITSTRING	1	TMRTRFL6	Transaction Flag 6 - Reserved
(92)	BITSTRING	1	TMRTRFL7	Transaction Flag 7 - Reserved
(93)	BITSTRING	1	TMRTRFL8	Transaction Flag 8
(93)	BITSTRING	0	TMRTRFL8_WAIT_NO	"X'80'" Indoubt wait = no
(93)	BITSTRING	0	TMRTRFL8_COMMIT	"X'40'" Indoubt action = commit
(93)	BITSTRING	0	TMRTRFL8_ INDOUBT_ACT	

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				"X'20'" UOW Indoubt action
(93)	BITSTRING	0	TMRTRFL8_ UOW_SHUNT	"X'10'" UOW Shunt
(93)	BITSTRING	0	TMRTRFL8_ UOW_UNSHUNT	
				"X'08'" UOW Unshunt
(93)	BITSTRING	0	TMRTRFL8_ INDBT_FAIL	
				"X'04'" Indoubt failure
(93)	BITSTRING	0	TMRTRFL8_ RO_FAILURE	
				"X'02'" Resource Owner failure EQU X'01' Reserved
(94)	BITSTRING	4	TMRTEINF (0)	TERMINFO - Terminal Information
(94)	BITSTRING	1	TMRNATUR	Nature
	....		TMRNATUR_ NOTAPPLIC	"X'00'" Not applic
(94)	BITSTRING	0	TMRNATUR_ TERMINAL	"X'01'" Terminal
(94)	BITSTRING	0	TMRNATUR_SESSION	"X'02'" Session
(95)	BITSTRING	1	TMRSESST	Session Type
	....		TMRSESST_ NOTAPPLIC	"X'00'" Not applic
(95)	BITSTRING	0	TMRSESST_IRC	"X'01'" IRC
(95)	BITSTRING	0	TMRSESST_IRC_XM	"X'02'" IRC XM
(95)	BITSTRING	0	TMRSESST_IRC_XCF	"X'03'" IRC XCF
(95)	BITSTRING	0	TMRSESST_LU61	"X'04'" LU61
(95)	BITSTRING	0	TMRSESST_ LU62_SING	"X'05'" LU62 SINGLE
(95)	BITSTRING	0	TMRSESST_ LU62_PARA	"X'06'" LU62 PARALLEL
(96)	BITSTRING	1	TMRACMTH	Access method
	....		TMRACMTH_ NOTAPPLIC	"X'00'" Not applic
(96)	BITSTRING	0	TMRACMTH_VTAM	"X'01'" VTAM
(96)	BITSTRING	0	TMRACMTH_BSAM	"X'03'" BSAM
(96)	BITSTRING	0	TMRACMTH_TCAM	"X'04'" TCAM
(96)	BITSTRING	0	TMRACMTH_BGAM	"X'06'" BGAM
(96)	BITSTRING	0	TMRACMTH_CONSOLE	"X'07'" CONSOLE
(97)	BITSTRING	1	TMRDVTCD	Device type code See TYPETERM RDO attribute

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(98)	CHARACTER	4	TMRTECNM	TERMCONM - Terminal Connection name
(9C)	CHARACTER	4	TMRBTRID	BRDGTRAN - Bridge Transaction id
(A0)	CHARACTER	16	TMRURID	RRMSURID - RRMS/MVS Unit of Recovery id
(B0)	CHARACTER	36	TMRPNAME	PRCSNAME - Process name
(D4)	CHARACTER	8	TMRPTYPE	PRCSTYPE - Process type
(DC)	CHARACTER	52	TMRPRCID	PRCSID - Process id
(110)	CHARACTER	52	TMRACTID	ACTVTYID - Activity id
(144)	CHARACTER	16	TMRACTNM	ACTVTYNM - Activity name
(154)	CHARACTER	40	TMRCIPAD	CLIPADDR - Client IP Address
(17C)	BITSTRING	28	TMRTGPID	TRNGRPID - Transaction Group Id
(198)	CHARACTER	8	TMRNETID	NETID - Network id
(1A0)	CHARACTER	8	TMRRLUNM	RLUNAME - Real Luname
(1A8)	CHARACTER	8	TMRTCPSV	TCPSRVCE - TCP/IP Service name
(1B0)	BITSTRING	4	TMRPORTN	PORTNUM - TCP/IP Service port number
(1B4)	BITSTRING	128	TMROTSID	OTSTID - OTS Transaction id
(234)	CHARACTER	4	TMRCBRNM	CBSRVRNM - CorbaServer name
(238)	BITSTRING	4	TMRCIPOR	CLIPPORT - Client IP Port
(23C)	CHARACTER	8	TMRISCNM	ISIPICNM - IPCONN name
(244)	CHARACTER	8	TMRONWID	ONETWKID - Originating networkid
(24C)	CHARACTER	8	TMROAPID	OAPPLID - Originating applid
(254)	CHARACTER	8	TMROATTT	OSTART - Originating task start time
(25C)	CHARACTER	4	TMROTRSN	OTRANNUM - Originating transaction seq no

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(260)	CHARACTER	4	TMROTRID	OTRAN - Originating transaction id
(264)	CHARACTER	8	TMROUSID	OUSERID - Originating userid
(26C)	CHARACTER	64	TMROUSRC	OUSERCOR - Originating user specific data
(2AC)	CHARACTER	8	TMROTCPS	OTCPSVCE - Originating TCPIPSERVICE
(2B4)	BITSTRING	4	TMROPRTN	OPORTNUM - Originating portnumber
(2B8)	CHARACTER	40	TMROCIPA	OCLIPADR - Originating client IP address
(2E0)	BITSTRING	4	TMROCPNO	OCLIPORT - Originating client portnumber
(2E4)	BITSTRING	8	TMROTRFG	OTRANFLG - Originating transaction flags
(2EC)	CHARACTER	8	TMROFCTY	OFCTYNME - Originating facility name
(2F4)	CHARACTER	8	TMRURIMN	WBURIMNM - Urimap name
(2FC)	CHARACTER	8	TMRPIPLN	WBPIPLNM - Pipeline name
(304)	CHARACTER	8	TMRATMSN	WBATMSNM - Atomservice name
(30C)	CHARACTER	32	TMRWSVCN	WBSVCENM - Webservice name
(32C)	CHARACTER	64	TMRWSOPN	WBSVOPNM - Webservice operation name
(36C)	CHARACTER	8	TMRWPBMN	WBPROGNM - Program name
(374)	CHARACTER	8	TMRPHNWD	PHNTWKID - Previous Hop data networkid
(37C)	CHARACTER	8	TMRPHAPL	PHAPPLID - Previous Hop data applid
(384)	CHARACTER	8	TMRPHATT	PHSTART - Previous Hop data task start time

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38C)	CHARACTER	4	TMRPHTSN	PHTRANNO - Previous Hop data trans seq no
(390)	CHARACTER	4	TMRPHTID	PHTRAN - Previous Hop data transaction id
(394)	BITSTRING	4	TMRPHCNT	PHCOUNT - Previous Hop data count
(398)	CHARACTER	64	TMRADPID	OADID - Originating adapter id
(3D8)	CHARACTER	64	TMRADPD1	OADATA1 - Originating adapter data 1
(418)	CHARACTER	64	TMRADPD2	OADATA2 - Originating adapter data 2
(458)	CHARACTER	64	TMRADPD3	OADATA3 - Originating adapter data 3
(498)	CHARACTER	4	TMRERROR	TASKFLAG - Transaction error flags
(49C)	CHARACTER	4	TMRABCDO	ABCODEO - Original Transaction abend codes
(4A0)	CHARACTER	4	TMRABCDC	ABCODEC - Current Transaction abend code
(4A4)	CHARACTER	4	TMRTYPE	RTYPE - Record type
(4A4)	CHARACTER	0	TMRRTYPE_ CONVERSE	"C'C'" Converse
(4A4)	CHARACTER	0	TMRRTYPE_DELIVER	"C'D'" Deliver
(4A4)	CHARACTER	0	TMRRTYPE_ FREQUENCY	"C'F'" Frequency
(4A4)	CHARACTER	0	TMRRTYPE_ SYNCPOINT	"C'S'" Syncpoint
(4A4)	CHARACTER	0	TMRRTYPE_ TERMINATE	"C'T'" Terminate
(4A8)	BITSTRING	4	TMRPINMC	TCMSGIN1 - Primary TC messages - in
(4AC)	BITSTRING	4	TMRTCI1C	TCCHRIN1 - Primary TC characters - in
(4B0)	BITSTRING	4	TMRPOUMC	TCMSGOU1 - Primary TC messages - out
(4B4)	BITSTRING	4	TMRTCO1C	TCCHROU1 - Primary TC characters - out

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4B8)	BITSTRING	4	TMRSINMC	TCMSGIN2 - Secondary TC messages - in
(4BC)	BITSTRING	4	TMRTCI2C	TCCHRIN2 - Secondary TC characters - in
(4C0)	BITSTRING	4	TMRSOUMC	TCMSGOU2 - Secondary TC messages - out
(4C4)	BITSTRING	4	TMRTCO2C	TCCHROU2 - Secondary TC characters - out
(4C8)	BITSTRING	4	TMR62IMC	TCM62IN2 - Secondary TC msgs for LU6.2. - in
(4CC)	BITSTRING	4	TMR62ICH	TCC62IN2 - Secondary TC chars for LU6.2. - in
(4D0)	BITSTRING	4	TMR62OMC	TCM62OU2 - Secondary TC msgs for LU6.2. - out
(4D4)	BITSTRING	4	TMR62OCH	TCC62OU2 - Secondary TC chars for LU6.2. - out
(4D8)	BITSTRING	4	TMRTAC	TCALLOCT - No. TCTTE allocate requests
(4DC)	BITSTRING	4	TMRSCUGB	SCUGETCT - No. user storage getmains below line
(4E0)	BITSTRING	4	TMRSCUGA	- No. user storage getmains above line
(4E4)	BITSTRING	4	TMRSCCGB	SCCGETCT - No. CDSA storage getmains below line
(4E8)	BITSTRING	4	TMRSCCGA	- No. ECDSA storage getmains above line
(4EC)	BITSTRING	4	TMRUSHWB	SCUSRHWM - User task storage hwm below line
(4F0)	BITSTRING	4	TMRUSHWA	- User task storage hwm above line
(4F4)	BITSTRING	4	TMRCHWMB	SC24CHWM - CDSA storage hwm below the line
(4F8)	BITSTRING	4	TMRCHWMA	SC31CHWM - ECDSA storage hwm above the line

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4FC)	BITSTRING	8	TMRUTSOB	SCUSRSTG - User task stge "occupancy" below line
(504)	BITSTRING	8	TMRUTSOA	- User task stge "occupancy" above line
(50C)	BITSTRING	8	TMRCOCCB	SC24COCC - CDSA storage "occupancy" below line
(514)	BITSTRING	8	TMRCOCCA	SC31COCC - ECDSA storage "occupancy" above line
(51C)	BITSTRING	4	TMRSC24S	SC24SGCT - Shared stg getmain count below 16M
(520)	BITSTRING	4	TMRSC24G	SC24GSHR - Shared stg bytes getmain'd
(524)	BITSTRING	4	TMRSC24F	SC24FSHR - Shared stg bytes freemain'd
(528)	BITSTRING	4	TMRSC31S	SC31SGCT - Shared stg getmain count above 16M
(52C)	BITSTRING	4	TMRSC31G	SC31GSHR - Shared stg bytes getmain'd
(530)	BITSTRING	4	TMRSC31F	SC31FSHR - Shared stg bytes freemain'd
(534)	BITSTRING	4	TMRPCUSE	PCSTGHWM - Program storage hwm
(538)	BITSTRING	4	TMRPC31A	PC31AHWM - Prog storage hwm above the line
(53C)	BITSTRING	4	TMRPCUSB	PC24BHWM - Prog storage hwm below the line
(540)	BITSTRING	4	TMRPCCAH	PC31CHWM - ECDSA prog storage hwm above
(544)	BITSTRING	4	TMRPCCBH	PC24CHWM - CDSA prog storage hwm below
(548)	BITSTRING	4	TMRPCRAH	PC31RHWM - R/O prog storage hwm above
(54C)	BITSTRING	4	TMRPCRBH	PC24RHWM - R/O prog storage hwm below
(550)	BITSTRING	4	TMRPCSAH	PC31SHWM - Shared prog storage hwm above

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(554)	BITSTRING	4	TMRPCSBH	PC24SHWM - Shared prog storage hwm below
(558)	BITSTRING	4	TMRFCGC	FCGETCT - No. file gets
(55C)	BITSTRING	4	TMRFCPC	FCPUTCT - No. file puts
(560)	BITSTRING	4	TMRFCBC	FCBRWCT - No. file browses
(564)	BITSTRING	4	TMRFCAC	FCADDCT - No. file adds
(568)	BITSTRING	4	TMRFCDC	FCDELCT - No. file deletes
(56C)	BITSTRING	4	TMRFCTC	FCTOTCT - Total FC requests
(570)	BITSTRING	4	TMRFCAMC	FCAMCT - No. access method requests
(574)	BITSTRING	4	TMRTDGC	TDGETCT - No. transient data gets
(578)	BITSTRING	4	TMRTDPC	TDPUTCT - No. transient data puts
(57C)	BITSTRING	4	TMRTDRC	TDPURCT - No. transient data purges
(580)	BITSTRING	4	TMRTDTC	TDTOTCT - Total TD requests
(584)	BITSTRING	4	TMRTSGC	TSGETCT - No. temp storage gets
(588)	BITSTRING	4	TMRTSPAC	TSPUTACT - No. temp storage puts - aux
(58C)	BITSTRING	4	TMRTSPMC	TSPUTMCT - No. temp storage puts - main
(590)	BITSTRING	4	TMRTSTC	TSTOTCT - Total TS requests
(594)	BITSTRING	4	TMRBMMC	BMSMAPCT - No. BMS map requests
(598)	BITSTRING	4	TMRBMIC	BMSINCT - No. BMS in requests
(59C)	BITSTRING	4	TMRBMOC	BMSOUTCT - No. BMS out requests
(5A0)	BITSTRING	4	TMRBMTC	BMSTOTCT - Total BMS requests
(5A4)	BITSTRING	4	TMRPCLIC	PCLINKCT - No. program links
(5A8)	BITSTRING	4	TMRPCXC	PCXCTLCT - No. program xctls

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5AC)	BITSTRING	4	TMRPCLOC	PCLOADCT - No. program loads
(5B0)	BITSTRING	4	TMRPCLUC	PCLURMCT - No. program links to URMs
(5B4)	BITSTRING	4	TMRPCDPL	PCDPLCT - No. DPL program links
(5B8)	BITSTRING	4	TMRPCDLL	PCDLCSDL - DPL program links with channel option data length
(5BC)	BITSTRING	4	TMRPCDRL	PCDLCRDL - DPL program returns with channel option data length
(5C0)	BITSTRING	4	TMRPCLCC	PCLNKCCT - No. program links with channel option
(5C4)	BITSTRING	4	TMRPCXCC	PCXCLCCT - No. program xctls with channel option
(5C8)	BITSTRING	4	TMRPCDCC	PCDPLCCT - DPL program links with channel option
(5CC)	BITSTRING	4	TMRPCRCC	PCRTNCCT - No. program returns with channel option
(5D0)	BITSTRING	4	TMRPCRCL	PCRTNCDL - No. program returns with channel option data length
(5D4)	BITSTRING	4	TMRJNLCT	JNLWRTCT - No. journal write requests
(5D8)	BITSTRING	4	TMRLGWCT	LOGWRTCT - No. CICS logger write requests
(5DC)	BITSTRING	4	TMRICC	ICPUINCT - No. interval control starts
(5E0)	BITSTRING	4	TMRICTC	ICTOTCT - Total interval control requests
(5E4)	BITSTRING	4	TMRICSCC	ICSTACCT - No. interval control start reqs with channel option
(5E8)	BITSTRING	4	TMRICSCD	ICSTACDL - Interval control start reqs with channel option data length

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5EC)	BITSTRING	4	TMRICSRC	ICSTRCCT - No. interval control start reqs with channel option - remote
(5F0)	BITSTRING	4	TMRICSRD	ICSTRCDL - Interval control start reqs with channel option data length - remote
(5F4)	BITSTRING	4	TMRSPPC	SPSYNCCT - No. syncpoint requests
(5F8)	BITSTRING	4	TMRCFACT	CFCAPICT - No. OO Class Library API requests
(5FC)	BITSTRING	4	TMRSZACT	SZALLOCT - No. FEPI allocates
(600)	BITSTRING	4	TMRSZRCT	SZRCVCT - No. FEPI receives
(604)	BITSTRING	4	TMRSZSCT	SZSENDCT - No. FEPI sends
(608)	BITSTRING	4	TMRSZTCT	SZSTRTCT - No. FEPI starts
(60C)	BITSTRING	4	TMRSZCOT	SZCHROUT - No. chars sent vai FEPI
(610)	BITSTRING	4	TMRSZCIN	SZCHRIN - No. chars received via FEPI
(614)	BITSTRING	4	TMRSZATO	SZALLCTO - No. FEPI allocate timeouts
(618)	BITSTRING	4	TMRSZRTO	SZRCVTO - No. FEPI receive timeouts
(61C)	BITSTRING	4	TMRSZTOT	SZTOTCT - Total no. FEPI requests
(620)	BITSTRING	4	TMRBARSC	BARSYNCT - No. Run Process/Activity Sync
(624)	BITSTRING	4	TMRBARAC	BARASYCT - No. Run Process/Activity Async
(628)	BITSTRING	4	TMRBALKC	BALKPACT - No. Link Process/Activity reqs
(62C)	BITSTRING	4	TMRBADPC	BADPROCT - No. Define Process requests
(630)	BITSTRING	4	TMRBADAC	BADACTCT - No. Define Activity requests

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(634)	BITSTRING	4	TMRBTPAC	BARSPACT - No. Reset Process/Activity requests
(638)	BITSTRING	4	TMRBSPAC	BASUPACT - No. Suspend Process/Activity requests
(63C)	BITSTRING	4	TMRBRPAC	BARMPACT - No. Resume Process/Activity requests
(640)	BITSTRING	4	TMRBDCPC	BADCPACT - No. Delete Activity and Cancel Process or Activity requests
(644)	BITSTRING	4	TMRBAAPC	BAACQPCT - No. Acquire Process requests
(648)	BITSTRING	4	TMRBATPC	BATOTPCT - Total No. Process/Activity requests
(64C)	BITSTRING	4	TMRBAPDC	BAPRDCCT - No. Process Data Container requests
(650)	BITSTRING	4	TMRBAADC	BAACDCCT - No. Activity Data Container requests
(654)	BITSTRING	4	TMRBATCC	BATOTCCT - Total No. Data Container requests
(658)	BITSTRING	4	TMRBAREC	BARATECT - No. Retrieve Reattach Event requests
(65C)	BITSTRING	4	TMRBADIC	BADFIECT - No. Define Input Event requests
(660)	BITSTRING	4	TMRBATAC	BATIAECT - No. Timer Associated Event requests
(664)	BITSTRING	4	TMRBATEC	BATOTECT - Total No. Event requests
(668)	BITSTRING	4	TMRWBRCT	WBRCVCT - No. WEB Receive requests
(66C)	BITSTRING	4	TMRWBCIN	WBCHRIN - No. Characters received via WEB reqs
(670)	BITSTRING	4	TMRWBSCT	WBSENDCT - No. WEB Send requests

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(674)	BITSTRING	4	TMRWBCOT	WBCHROUT - No. Characters sent via WEB requests
(678)	BITSTRING	4	TMRWBTC	WBTOTCT - Total No. WEB requests
(67C)	BITSTRING	4	TMRWBRPR	WBREPRCT - No. Repository Reads
(680)	BITSTRING	4	TMRWBRPW	WBREPWCT - No. Repository Writes
(684)	BITSTRING	4	TMRWBERC	WBEXTRCT - No. WEB Extract requests
(688)	BITSTRING	4	TMRWBBRC	WBBRWCT - No. WEB Browse requests
(68C)	BITSTRING	4	TMRWBRRC	WBREADCT - No. WEB Read requests
(690)	BITSTRING	4	TMRWBWRC	WBWRITET - No. WEB Write requests
(694)	BITSTRING	4	TMRDHCRC	DHCRECT - No. Document Create requests
(698)	BITSTRING	4	TMRDHINC	DHINSCT - No. Document Insert requests
(69C)	BITSTRING	4	TMRDHSTC	DHSETCT - No. Document Set requests
(6A0)	BITSTRING	4	TMRDHRTC	DHRETCT - No. Document Retrieve requests
(6A4)	BITSTRING	4	TMRDHDLC	DHDELCT - No. Document Delete requests
(6A8)	BITSTRING	4	TMRDHTC	DHTOTCT - Total No. Document requests
(6AC)	BITSTRING	4	TMRDHTDL	DHTOTDCL - Total Document Created length
(6B0)	BITSTRING	4	TMRSOBEN	SOBYENCT - No. Bytes Encrypted
(6B4)	BITSTRING	4	TMRSOBDE	SOBYDECT - No. Bytes Decrypted
(6B8)	BITSTRING	4	TMRSOERC	SOEXTRCT - No. Extract TCP/IP and Extract Certificate requests
(6BC)	BITSTRING	4	TMRSOCNS	SOCNPSCT - No. Create Non-Persistent Socket reqs

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6C0)	BITSTRING	4	TMRSOCPS	SOCPSCT - No. Create Persistent Socket reqs
(6C4)	BITSTRING	4	TMRSONHW	SONPSHWM - Non-Persistent Socket HWM
(6C8)	BITSTRING	4	TMRSOPHW	SOPSHWM - Persistent Socket HWM
(6CC)	BITSTRING	4	TMRSORCT	SORCVCT - No. Socket Receive requests
(6D0)	BITSTRING	4	TMRSOCIN	SOCHRIN - No. Characters received
(6D4)	BITSTRING	4	TMRSOSCT	SOSENDCT - No. Socket Send requests
(6D8)	BITSTRING	4	TMRSOCOT	SOCHROUT - No. Characters sent
(6DC)	BITSTRING	4	TMRSOTC	SOTOTCT - Total No. Socket requests
(6E0)	BITSTRING	4	TMRSOIMC	SOMSGIN1 - No. Inbound Socket Receive reqs
(6E4)	BITSTRING	4	TMRSOI1C	SOCHRIN1 - No. Inbound Socket Characters rec'vd
(6E8)	BITSTRING	4	TMRSOOMC	SOMSGOU1 - No. Inbound Socket Send reqs
(6EC)	BITSTRING	4	TMRSOO1C	SOCHROU1 - No. Inbound Socket Characters sent
(6F0)	BITSTRING	4	TMRIMSRC	IMSREQCT - Total No. IMS requests
(6F4)	BITSTRING	4	TMRDB2RC	DB2REQCT - Total No. DB2 requests
(6F8)	BITSTRING	4	TMRWMQRC	WMQREQCT - Total No. WebSphere MQ requests
(6FC)	BITSTRING	4	TMRTCBAC	TCBATTCT - No. CICS Dispatcher TCB Attach's
(700)	BITSTRING	4	TMRDSTHW	DSTCBHWM - CICS Dispatcher TCB HWM
(704)	BITSTRING	4	TMREJBAC	EJBSACCT - No. Bean State Activation requests

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(708)	BITSTRING	4	TMREJBPC	EJBSPACT - No. Bean State Passivation requests
(70C)	BITSTRING	4	TMREJBCC	EJBCRECT - No. Bean Creation requests
(710)	BITSTRING	4	TMREJBRC	EJBREMCT - No. Bean Removal requests
(714)	BITSTRING	4	TMREJMCT	EJBMTHCT - No. EJB Method Calls
(718)	BITSTRING	4	TMREJBTC	EJBTOTCT - Total No. EJB requests
(71C)	BITSTRING	4	TMRWBROC	WBREDOCT - No. Web Read requests
(720)	BITSTRING	4	TMRWBWOC	WBWRTOCT - No. Web Write requests
(724)	BITSTRING	4	TMRWBIRC	WBRCVIN1 - No. Web Receive requests
(728)	BITSTRING	4	TMRWBI1C	WBCHRIN1 - No. Bytes received by Web reqs
(72C)	BITSTRING	4	TMRWBOSC	WBSNDOU1 - No. Web Send requests
(730)	BITSTRING	4	TMRWBO1C	WBCHROU1 - No. Bytes sent by Web send reqs
(734)	BITSTRING	4	TMRWBPRC	WBPARSCT - No. Web Parse requests
(738)	BITSTRING	4	TMRWBBOC	WBBRWOCT - No. Web Browse requests
(73C)	BITSTRING	4	TMRWBIWC	WBIWBSCT - No. Invoke Webservice requests
(740)	BITSTRING	4	TMRWBRDL	WBREPRDL - Repository Read data length
(744)	BITSTRING	4	TMRWBWDL	WBREPWDL - Repository Write data length
(748)	BITSTRING	4	TMRPGCTC	PGTOTCCT - Total No. channel data container reqs
(74C)	BITSTRING	4	TMRPGBCC	PGBRWCCT - No. Browse container channel requests
(750)	BITSTRING	4	TMRPGGCC	PGGETCCT - No. Get container channel requests

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(754)	BITSTRING	4	TMRPGPCC	PGPUTCCT - No. Put container channel requests
(758)	BITSTRING	4	TMRPGMCC	PGMOVCCT - No. Move container channel requests
(75C)	BITSTRING	4	TMRPGGCL	PGGETCDL - Get container channel data length
(760)	BITSTRING	4	TMRPGPCL	PGPUTCDL - Put container channel data length
(764)	BITSTRING	4	TMRPGCCC	PGCRECCT - No. Containers created
(768)	BITSTRING	4	TMRPGCSH	PGCSTHWM - Container Storage HWM
(76C)	BITSTRING	4	TMRISACT	ISALLOCT - No. IPCONN allocate requests
(770)	BITSTRING	4	TMREICTC	EICTOTCT - Total No. EXEC CICS requests
(774)	BITSTRING	4	TMRECSGE	ECSIGECT - No. SIGNAL EVENT requests
(778)	BITSTRING	4	TMRECFOC	ECEFOPCT - No. Event Filter operations
(77C)	BITSTRING	4	TMRECEVC	ECEVNTCT - No. EVENTs captured
(780)	BITSTRING	4	TMRECSEC	ECSEVCCT - No. synchronous emission EVENTs
(784)	BITSTRING	4	TMRTIATC	TIASKTCT - No. EXEC CICS ASKTIME requests
(788)	BITSTRING	4	TMRTITC	TITOTCT - Total No. EXEC xxxxxxTIME reqs
(78C)	BITSTRING	4	TMRBFDGC	BFDGSTCT - No. BIF DIGEST requests
(790)	BITSTRING	4	TMRBFTC	BFTOTCT - Total No. BIF requests
(794)	BITSTRING	4	TMRMLTDL	MLXSSTDL - Total document length
(798)	BITSTRING	4	TMRMLXTC	MLXMLTCT - No. EXEC CICS TRANSFORM requests

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(79C)	BITSTRING	4	TMRWSCBC	WSACBLCT - No. WSACONTEXT BUILD requests
(7A0)	BITSTRING	4	TMRWSCGC	WSACGTCT - No. WSACONTEXT GET requests
(7A4)	BITSTRING	4	TMRWSEPC	WSAEPCCT - No. WSAEPR CREATE requests
(7A8)	BITSTRING	4	TMRWSATC	WSATOTCT - Total No. WS-Addressing requests
(7AC)	BITSTRING	4	TMRWSFCC	WBSFCRCT - No. SOAPFAULT CREATE requests
(7B0)	BITSTRING	4	TMRWSFTC	WBSFTOCT - Total No. SOAPFAULT requests
(7B4)	BITSTRING	4	TMRWSSFC	WBISSFCT - No. INVOKE xxxSERVICE SOAP faults
(7B8)	BITSTRING	4	TMRWSQBL	WBSREQBL - SOAP request body length
(7BC)	BITSTRING	4	TMRWSRBL	WBSRSPBL - SOAP response body length
(7C0)	BITSTRING	12	TMRDIST	USRDISPT - User task Dispatch time
(7CC)	BITSTRING	12	TMRCPUT	USRCPUT - User task Cpu time
(7D8)	BITSTRING	12	TMRSUST	SUSPTIME - Task Suspend time
(7E4)	BITSTRING	12	TMRDWT	DISPWTT - Dispatch Wait time
(7F0)	BITSTRING	12	TMRQRDSP	QRDISPT - User task QR Mode Dispatch time
(7FC)	BITSTRING	12	TMRQRCPU	QRCPUT - User task QR Mode Cpu time
(808)	BITSTRING	12	TMRMSDSP	MSDISPT - User task Other Mode Dispatch time
(814)	BITSTRING	12	TMRMSCPU	MSCPUT - User task Other Mode Cpu time
(820)	BITSTRING	12	TMRRODSP	RODISPT - User task RO Mode Dispatch time
(82C)	BITSTRING	12	TMRROCPU	ROCPUT - User task RO Mode Cpu time

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(838)	BITSTRING	12	TMRKY8DS	KY8DISPT - User task Key 8 Mode Dispatch time
(844)	BITSTRING	12	TMRKY8CP	KY8CPUT - User task Key 8 Mode Cpu time
(850)	BITSTRING	12	TMRKY9DS	KY9DISPT - User task Key 9 Mode Dispatch time
(85C)	BITSTRING	12	TMRKY9CP	KY9CPUT - User task Key 9 Mode Cpu time
(868)	BITSTRING	12	TMRL8CPU	L8CPUT - User task L8 Mode Cpu time
(874)	BITSTRING	12	TMRL9CPU	L9CPUT - User task L9 Mode Cpu time
(880)	BITSTRING	12	TMRJ8CPU	J8CPUT - User task J8 Mode Cpu time
(88C)	BITSTRING	12	TMRS8CPU	S8CPUT - User task S8 Mode Cpu time
(898)	BITSTRING	12	TMRJ9CPU	J9CPUT - User task J9 Mode Cpu time
(8A4)	BITSTRING	12	TMRX8CPU	X8CPUT - User task X8 Mode Cpu time
(8B0)	BITSTRING	12	TMRX9CPU	X9CPUT - User task X9 Mode Cpu time
(8BC)	BITSTRING	12	TMRT8CPU	T8CPUT - User task T8 Mode Cpu time
(8C8)	BITSTRING	12	TMRQRDLY	QRMODDLY - QR Mode delay time
(8D4)	BITSTRING	12	TMROTDLY	MAXOTDLY - Max Open TCB delay time
(8E0)	BITSTRING	12	TMRJTDLY	MAXJTDLY - Max JVM TCB delay time
(8EC)	BITSTRING	12	TMRXTDLY	MAXXTDLY - Max XPLink TCB delay time
(8F8)	BITSTRING	12	TMRSTDLY	MAXSTDLY - Max SSL TCB delay time
(904)	BITSTRING	12	TMRTTDLY	MAXTTDLY - Max Thrd TCB delay time
(910)	BITSTRING	12	TMRDSMWT	DSTCBMWT - Dispatcher TCB Mismatch wait time
(91C)	BITSTRING	12	TMRCMDLY	DSCHMDLY - CICS TCB Change Mode delay time

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(928)	BITSTRING	12	TMREXWT	EXWTTIME - Exception wait time
(934)	BITSTRING	12	TMRTCWT	TCIOWTT - TC i/o wait time
(940)	BITSTRING	12	TMRFCWT	FCIOWTT - FC i/o wait time
(94C)	BITSTRING	12	TMRJCWT	JCIOWTT - JC i/o wait time
(958)	BITSTRING	12	TMRTSWT	TSIOWTT - TS i/o wait time
(964)	BITSTRING	12	TMRIRWT	IRIOWTT - IR i/o wait time
(970)	BITSTRING	12	TMRTDWT	TDIOWTT - TD i/o wait time
(97C)	BITSTRING	12	TMRPCLT	PCLOADTM - Program load time
(988)	BITSTRING	12	TMRFDDLY	DSPDELAY - 1st Dispatch delay - TCLASS,MXT,etc
(994)	BITSTRING	12	TMRFDTCL	TCLDELAY - 1st Dispatch delay due to TCLASS
(9A0)	BITSTRING	12	TMRFDMXT	MXTDELAY - 1st Dispatch delay due to MXT
(9AC)	BITSTRING	12	TMRNQDLY	ENQDELAY - Local ENQ delay time
(9B8)	BITSTRING	12	TMRGQDLY	GNQDELAY - Global ENQ delay time
(9C4)	BITSTRING	12	TMR61WT	LU61WTT - LU61 i/o wait time
(9D0)	BITSTRING	12	TMR62WT	LU62WTT - LU62 i/o wait time
(9DC)	BITSTRING	12	TMRSZWT	SZWAIT - FEPI suspend time
(9E8)	BITSTRING	12	TMRRMIT	RMITIME - Total RMI elapsed time
(9F4)	BITSTRING	12	TMRRMIS	RMISUSP - Total RMI suspend time
(A00)	BITSTRING	12	TMRSYNCT	SYNCTIME - Syncpoint elapsed time
(A0C)	BITSTRING	12	TMRRLSWT	RLSWAIT - RLS wait time
(A18)	BITSTRING	12	TMRRLSCP	RLSCPUT - RLS SRB CPU time
(A24)	BITSTRING	12	TMRLMDLY	LMDELAY - Lock Mgr delay time

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A30)	BITSTRING	12	TMRWTXWT	WTEXWAIT - Wait External wait time
(A3C)	BITSTRING	12	TMRWCEWT	WTCEWAIT - Wait CICS/Event wait time
(A48)	BITSTRING	12	TMRICDLY	ICDELAY - Interval control delay time
(A54)	BITSTRING	12	TMRGVPWT	GVUPWAIT - Give up control wait time
(A60)	BITSTRING	12	TMRTSHWT	TSSHWAIT - Shared TS wait time
(A6C)	BITSTRING	12	TMRCDTWT	CFDTWAIT - CF Data Table wait time
(A78)	BITSTRING	12	TMRSYWTT	SRVSYWTT - Server Syncpoint wait time
(A84)	BITSTRING	12	TMRRRSWT	RRMSWAIT - RRMS/MVS wait time
(A90)	BITSTRING	12	TMRRTRWT	RUNTRWTT - Run Transaction wait time
(A9C)	BITSTRING	12	TMRSYDLY	SYNCDLY - Syncpoint delay time
(AA8)	BITSTRING	12	TMRSOWT	SOIOWTT - Socket I/O wait time
(AB4)	BITSTRING	12	TMRIMSWT	IMSWAIT - IMS wait time
(AC0)	BITSTRING	12	TMRRDQWT	DB2RDYQW - DB2 Readyq wait time
(ACC)	BITSTRING	12	TMRCONWT	DB2CONWT - DB2 Connection wait time
(AD8)	BITSTRING	12	TMRDB2WT	DB2WAIT - DB2 wait time
(AE4)	BITSTRING	12	TMRMQGWT	WMQGETWT - WebSphere MQ Getwait wait time
(AF0)	BITSTRING	12	TMRJVMT	JVMTIME - Total JVM elapsed time
(AFC)	BITSTRING	12	TMRJVMS	JVMSUSP - Total JVM suspend time
(B08)	BITSTRING	12	TMRSOOWT	SOOIOWTT - Outbound Socket I/O wait time
(B14)	BITSTRING	12	TMRRQRWT	RQRWAIT - Request Receiver wait time
(B20)	BITSTRING	12	TMRRQPWT	RQPWAIT - Request Processor wait time
(B2C)	BITSTRING	12	TMROIDWT	OTSINDWT - OTS Indoubt wait time

Table 487. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B38)	BITSTRING	12	TMRJVMIT	JVMITIME - JVM elapsed time - initialise
(B44)	BITSTRING	12	TMRJVMRT	JVMRTIME - JVM elapsed time - resetting
(B50)	BITSTRING	12	TMRPTPWT	PTPWAIT - Partner wait time
(B5C)	BITSTRING	12	TMRDSCWT	DSMMSCWT - DS storage constraint wait time
(B68)	BITSTRING	12	TMRISWT	ISIOWTT - IS IPCONN I/O wait time
(B74)	BITSTRING	12	TMRMLCTM	MLXSSCTM - XML System Services CPU time
(B80)	BITSTRING	12	TMRJSTWT	JVMTHDWT - JVMSERVER thread wait time
(B8C)	BITSTRING	12	TMRMQAST	WMQASRBT - WebSphere MQ API SRB time
(B8C)		0	MNTCLEN	"*-MNTLEN" length of DSECT

MQG WebSphere MQ Connection Statistics

```
CONTROL BLOCK NAME = DFHMQGDS
DESCRIPTIVE NAME  = CICS MQCONN Statistics
   @BANNER_START 02
                       DFHMQGDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This data area contains global statistics provided by
      AP Domain on the CICS/MQ connection.
      It is provided for use in users monitoring application
      to map the statistics returned via the API or the statistics
      exit.
      There is a single instance of this data block.
LIFETIME =
      This data block is created by AP to store
      statistics to be passed to the user in response to a request
      for statistics. The storage is released when the user
      is detached.
      The DSECT also maps the contents of part of the SMF buffer
      created by the statistics domain and is used in the
      statistics exit.
STORAGE CLASS =
LOCATION =
      The user is passed a pointer to the head of the storage
      block.
INNER CONTROL BLOCKS = none
```

```
          NOTES :
            DEPENDENCIES = S/370
            RESTRICTIONS = none
            MODULE TYPE = Statistics record dsect
        ------------------------------------------------------------------
        EXTERNAL REFERENCES = none
            DATA AREAS = none
            CONTROL BLOCKS = none
            GLOBAL VARIABLES (Macro pass) = none
        ------------------------------------------------------------------
        ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY, DFHMQGDS IS
        NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
        PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 488.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHMQGDS	MQCONN statistics
(0)	HALFWORD	2	MQGLEN	Length of record
(2)	ADDRESS	2	MQGID	Record id field
(2)	SIGNED	0	MQGIDR	"74" Record id value
(4)	CHARACTER	1	MQGDVERS	Version number
(4)	BITSTRING	0	MQGVERS	"X'01'" Current version number
(5)	CHARACTER	3		Filler
MQCONN stats fields begin here				
(8)	CHARACTER	4	MQG_QMGR_NAME	Queue manager name
(C)	CHARACTER	4	MQG_MQ_RELEASE	Release of MQ vvrr
(10)	CHARACTER	1	MQG_CONNECTION_STATUS	
				Connection status
(10)	BITSTRING	0	MQG_CONNECTED	"X'01'" Connection status connected
(10)	BITSTRING	0	MQG_NOT_CONNECTED	"X'02'" Connection status not-conn
(11)	CHARACTER	1	MQG_RESYNCMEMBER	Resyncmember setting
	....		MQG_RESYNCMEMBER_RESYNC	
				"X'00'" Resync uow's
(11)	BITSTRING	0	MQG_RESYNCMEMBER_NORESYNC	
				"X'01'" Noresync uow's
(11)	BITSTRING	0	MQG_RESYNCMEMBER_GROUPRESYNC	
				"X'02'" group resync
(12)	CHARACTER	2		Filler
(14)	CHARACTER	48	MQG_INITIATION_QUEUE	
				Initiation queue name

Table 488. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	FULLWORD	4	MQG_TTASKS	Number of current tasks
(48)	FULLWORD	4	MQG_TFUTILEATT	Number of futile attempts
(4C)	FULLWORD	4	MQG_TAPI	Total number of calls
(50)	FULLWORD	4	MQG_TAPIOK	Total number of calls comp ok
(54)	FULLWORD	4	MQG_TCALL	Total number of flows
(58)	FULLWORD	4	MQG_TCALLSYNCCOMP	Total number of calls comp sync
(5C)	FULLWORD	4	MQG_TCALLIO	Total number of calls need I/O
(60)	FULLWORD	4	MQG_TWAITMSG	Total number of real GETWAIT
(64)	FULLWORD	4	MQG_TSUBTASKED	Total number of calls switched
(68)	FULLWORD	4	MQG_TOPEN	Total number of OPEN
(6C)	FULLWORD	4	MQG_TCLOSE	Total number of CLOSE
(70)	FULLWORD	4	MQG_TGET	Total number of GET
(74)	FULLWORD	4	MQG_TGETWAIT	Total number of GETWAIT
(78)	FULLWORD	4	MQG_TPUT	Total number of PUT
(7C)	FULLWORD	4	MQG_TPUT1	Total number of PUT1
(80)	FULLWORD	4	MQG_TINQ	Total number of INQ
(84)	FULLWORD	4	MQG_TSET	Total number of SET
(88)	FULLWORD	4	MQG_INDOUBTUOW	Count of indoubt units of work
(8C)	FULLWORD	4	MQG_UNRESOLVEDUOW	Count of unresolved units of work
(90)	FULLWORD	4	MQG_RESOLVECOMM	Count of resolved committed UOWs
(94)	FULLWORD	4	MQG_RESOLVEBACK	Count of resolved backout UOWs
(98)	FULLWORD	4	MQG_TBACKUOW	Total number of Backout UOWs
(9C)	FULLWORD	4	MQG_TCOMMUOW	Total number of Committed UOWs
(A0)	FULLWORD	4	MQG_TTASKEND	Total number of tasks
(A4)	FULLWORD	4	MQG_TSPCOMM	Total number of Single Phase Comms
(A8)	FULLWORD	4	MQG_T2PCOMM	Total number of 2 Phase Comms
(AC)	FULLWORD	4	MQG_TCB	Total number of CB

Table 488. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	FULLWORD	4	MQG_TCONSUME	Total number of msgs consumed
(B4)	FULLWORD	4	MQG_TCTL	Total number of CTL
(B8)	FULLWORD	4	MQG_TSUB	Total number of SUB
(BC)	FULLWORD	4	MQG_TSUBRQ	Total number of SUBRQ
(C0)	FULLWORD	4	MQG_TSTAT	Total number of STAT
(C4)	FULLWORD	4	MQG_TCRTMH	Total number of CRTMH
(C8)	FULLWORD	4	MQG_TDLTMH	Total number of DLTMH
(CC)	FULLWORD	4	MQG_TSETMP	Total number of SETMP
(D0)	FULLWORD	4	MQG_TINQMP	Total number of INQMP
(D4)	FULLWORD	4	MQG_TDLTMP	Total number of DLTMP
(D8)	FULLWORD	4	MQG_TMHBUF	Total number of MHBUF
(DC)	FULLWORD	4	MQG_TBUFMH	Total number of BUFMH
(E0)	FULLWORD	4	(7)	Reserved
(FC)	CHARACTER	8	MQG_MQCONN_NAME	Name of the MQCONN
(104)	CHARACTER	4	MQG_MQNAME	MQNAME from the MQCONN
(108)	BITSTRING	8	MQG_CONNECT_ TIME_GMT	
				connect time (GMT)
(110)	BITSTRING	8	MQG_CONNECT_ TIME_LOCAL	
				connect time (local)
(118)	BITSTRING	8	MQG_DISCONNECT_ TIME_GMT	
				disconnect time (GMT)
(120)	BITSTRING	8	MQG_DISCONNECT_ TIME_LOCAL	
				discconnect time (local)
(128)	CHARACTER	8	MQG_MQCONN_ DEFINE_SOURCE	
				Group installed from
(130)	BITSTRING	8	MQG_MQCONN_ CHANGE_TIME	
				Change/create time

Table 488. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(138)	CHARACTER	8	MQG_MQCONN_ CHANGE_USERID	
				Change userid
(140)	BITSTRING	2	MQG_MQCONN_ CHANGE_AGENT	
				Change agent
(142)	BITSTRING	2	MQG_MQCONN_ INSTALL_AGENT	
				Install agent
(144)	BITSTRING	8	MQG_MQCONN_ INSTALL_TIME	
				Install/Create time
(14C)	CHARACTER	8	MQG_MQCONN_ INSTALL_USERID	
				Install userid
(154)	BITSTRING	4		Reserved
(154)		0	MQGDS_END	"*"
(154)		0	MQGDS_LENGTH	"*-MQGlen" MQCONN stats record length
Equates to test MQG_Mqconn_change_agent				
(154)	BITSTRING	0	MQG_MQCONN_ CSDAPI_CHANGE	
				"X'01'" Change Agent - CSD API
(154)	BITSTRING	0	MQG_MQCONN_ CSDBATCH_CHANGE	
				"X'02'" Change Agent - DFHCSDUP
(154)	BITSTRING	0	MQG_MQCONN_ DREPAPI_CHANGE	
				"X'03'" Change Agent - DREP API
(154)	BITSTRING	0	MQG_MQCONN_ CREATE_CHANGE	
				"X'04'" Change Agent - CREATE SPI
Equates to test MQG_Mqconn_install_agent				
(154)	BITSTRING	0	MQG_MQCONN_ CSDAPI_INSTALL	
				"X'01'" Install Agent - CSD API
(154)	BITSTRING	0	MQG_MQCONN_ CREATE_INSTALL	
				"X'04'" Install Agent - CREATE SPI

Table 488. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(154)	BITSTRING	0	MQG_MQCONN_ GRPLIST_INSTALL	
				"X'05'" Install Agent - GRPLIST

MRC Transient data VSAM control

```
MODULE NAME = DFHMRCPS
DESCRIPTIVE NAME  = Transient Data VSAM Control
                   CICS/ESA AP Domain
@BANNER_START 02
                        DFHMRCPS
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
FUNCTION =
    Copybook DFHMRCPS provides structures, DFHMRCA and
    DFHMRCB and DFHMRSD.
    DFHMRCA describes the String Common Area (MRCA),
    only one MRCA is allocated.
    DFHMRCB describes the String Control Block (MRCB),
    one MRCB is allocated for each VSAM string.
    DFHMRSD describes the Segment Descriptor (MRSD),
    the number of MRSDs allocated depends on the size
    of the intrapartition data set.
LIFETIME =
    The lifetime of the control blocks and I/O buffers
    is essentially that of CICS.
STORAGE CLASS =
    The control blocks are located in storage allocated
    from the DFHTDG31 subpool.
    Note that the number of VSAM strings is defined as
    a SIT parameter / override.
LOCATION =
    The MRCA is located from the TDST.
    MRCBs, if unallocated, are located on a chain whose
    anchor is located in the MRCA.
    MRSDs are located on a chain whose anchor is located
    in the MRCA.
    Note that the update ACB and output ACB are located
    from the MRCA.
    Note also that the RPL and VSAM Error Message Area
    (VEMA) are located from the associated MRCB.
INNER CONTROL BLOCKS =
    There are no inner control blocks.
NOTES :
 DEPENDENCIES =
    S/370
 RESTRICTIONS =
    There are no restrictions.
 MODULE TYPE =
    Control block definition.
          MULTIPLE STRINGS - STRING COMMON AREA (MRCA)
```

Table 489.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	212	DFHMRCA	
(0)	CHARACTER	16	MRCA_PREFIX	prefix

Table 489. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	MRCA_LENGTH	- length
(2)	CHARACTER	1	MRCA_ARROW	- value - '>'
(3)	CHARACTER	3	MRCA_DFH	- value - 'DFH'
(6)	CHARACTER	2	MRCA_DOMID	- value - 'TD'
(8)	CHARACTER	8	MRCA_BLOCK	- value - 'MRCA '
(10)	CHARACTER	4	MRCA_DFP	DFP release level
(10)	BIT(8)	1	MRCA_DFP_VR	- version, release
(11)	BIT(8)	1	MRCA_DFP_M0	- modification, 0
(12)	BIT(16)	2	*	- reserved
(14)	CHARACTER	64	MRCA_ACB	ACB
(14)	CHARACTER	8	MRCA_DDNAME	- DDNAME
(1C)	CHARACTER	44	MRCA_DSNAME	- DSNAME
(48)	FULLWORD	4	MRCA_STR_N	- #(strings)
(4C)	ADDRESS	4	MRCA_UACB_P	- A(update ACB)
(50)	ADDRESS	4	MRCA_OACB_P	- A(output ACB)
(54)	CHARACTER	24	MRCA_DS	data set
(54)	FULLWORD	4	MRCA_CI_L	- L(control interval)
(58)	FULLWORD	4	MRCA_MIN_L	- L(user data) - minimum
(5C)	FULLWORD	4	MRCA_MAX_L	- L(user data) - maximum
(60)	FULLWORD	4	MRCA_I_RBA	- initial RBA
(64)	FULLWORD	4	MRCA_N_RBA	- next RBA
(68)	FULLWORD	4	MRCA_H_RBA	- high RBA
(6C)	CHARACTER	8	MRCA_CSM	CI status map
(6C)	ADDRESS	4	MRCA_MRSD_P	- A(first MRSD) or 0
(70)	FULLWORD	4	MRCA_MRSD_N	- #(MRSDs allocated)
(74)	CHARACTER	8	MRCA_SRC_1	MRCB allocation chain
(74)	ADDRESS	4	MRCA_TCA_P	- A(owning TCA) or 0
(78)	ADDRESS	4	MRCA_MWCB_P	- A(first MWCB) or 0
(7C)	CHARACTER	8	MRCA_SRC_2	CI formatting chain
(7C)	ADDRESS	4	*	- A(owning TCA) or 0
(80)	ADDRESS	4	*	- A(first MWCB) or 0
(84)	CHARACTER	4	MRCAECB	ECB WORD
	1...		*	- ECB BYTE
	.1..		MRCACSMI	- CSM BUILD COMPLETE
(84)	BIT(22) POS(3)	3	*	RESERVED
(87)	UNSIGNED	1	MRCAERC1	- RETURN CODE
(88)	CHARACTER	4	*	MRCA STATUS

Table 489. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	CHARACTER	1	MRCAFLG0	- DATASET
	1...		MRCAOPEN	- OPENED
	.1..		MRCAESDS	- VSAM ESDS
	..1.		MRCADDST	- DD STATEMENT
	...1 1111		*	- RESERVED
(89)	CHARACTER	1	MRCAFLG1	- CONTENTS
	1...		MRCAMPTY	- EMPTY (INITIALLY)
	.1..		MRCAFULL	- FULL
	..11 1111		*	- RESERVED
(8A)	CHARACTER	1	MRCAFLG2	- CSM INITALIZATION
	1...		MRCACSMR	- REQUIRED
	.1..		MRCACSMP	- IN PROGRESS
	..1.		MRCACSMC	- COMPLETE
	...1 1111		*	- RESERVED
(8B)	CHARACTER	1	MRCAFLG3	- RESERVED
(8B)	BIT(8)	1	*	- RESERVED
(8C)	CHARACTER	16	*	MRCB CHAIN ANCHORS
(8C)	CHARACTER	8	MRCACHN1	- UNALLOCATED CHAIN
(8C)	ADDRESS	4	MRCAFCN1	- A(FIRST MRCB)
(90)	ADDRESS	4	MRCABCN1	- A(LAST MRCB)
(94)	CHARACTER	8	MRCACHNS	- STATIC CHAIN
(94)	ADDRESS	4	MRCAFCNS	- A(FIRST MRCB)
(98)	ADDRESS	4	*	- RESERVED
(9C)	CHARACTER	24	*	MRCB STATISTICS
(9C)	CHARACTER	12	*	- ALLOCATION REQUESTS
(9C)	FULLWORD	4	MRCATNAL	- TOTAL
(A0)	FULLWORD	4	MRCACNAL	- CURRENT CONCURRENT
(A4)	FULLWORD	4	MRCAMXAL	- MAXIMUM CONCURRENT
(A8)	CHARACTER	12	*	- QUEUED REQUESTS
(A8)	FULLWORD	4	MRCATNWT	- TOTAL
(AC)	FULLWORD	4	MRCACNWT	- CURRENT CONCURRENT
(B0)	FULLWORD	4	MRCAMXWT	- MAXIMUM CONCURRENT

Table 489. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B4)	CHARACTER	32	*	DATASET STATISTICS
(B4)	FULLWORD	4	MRCANCIS	- CURRENT CIS FORMATTED
(B8)	FULLWORD	4	MRCACTCI	- CURRENT CIS ALLOCATED
(BC)	FULLWORD	4	MRCAMXCI	- MAXIMUM CIS ALLOCATED
(C0)	FULLWORD	4	MRCANOSP	- NOSPACE RETURNED
(C4)	FULLWORD	4	MRCACTPT	- PUT REQUESTS
(C8)	FULLWORD	4	MRCACTGT	- GET REQUESTS
(CC)	FULLWORD	4	MRCACTFT	- FORMAT REQUESTS
(D0)	FULLWORD	4	MRCACTIO	- I/O ERRORS
(D4)	CHARACTER	0	*	

MULTIPLE STRINGS - STRING CONTROL BLOCK (MRCB)

Table 490.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	DFHMRCB	
(0)	CHARACTER	16	*	MRCB chains
(0)	ADDRESS	4	MRCBFCHN	- A(next inactive MRCB)
(4)	ADDRESS	4	MRCBBCHN	- A(previous inactive MRCB)
(8)	ADDRESS	4	MRCBSCHN	- A(next static MRCB) or 0
(C)	ADDRESS	4	*	- reserved
(10)	CHARACTER	16	*	associated control blocks
(10)	ADDRESS	4	MRCB_RPL_P	- A(RPL)
(14)	ADDRESS	4	MRCB_VEMA_P	- A(VSAM error message area)
(18)	ADDRESS	4	MRCB_MBCB_P	- A(MBCB) or 0
(1C)	ADDRESS	4	MRCB_MWCB_P	- A(MWCB) or 0
(20)	CHARACTER	0	*	

CI STATUS MAP - SEGMENT DESCRIPTOR (MRSD)

Table 491.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	576	DFHMRSD	
(0)	CHARACTER	16	MRSD_PREFIX	prefix

Table 491. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	MRSD_LENGTH	- length
(2)	CHARACTER	1	MRSD_ARROW	- value - '>'
(3)	CHARACTER	3	MRSD_DFH	- value - 'DFH'
(6)	CHARACTER	2	MRSD_DOMID	- value - 'TD'
(8)	CHARACTER	8	MRSD_BLOCK	- value - 'MRSD '
(10)	CHARACTER	8	MRSD_STATS	
(10)	FULLWORD	4	MRSD_CIS_ ALLOCATED	
				CIs allocated
(14)	FULLWORD	4	*	Reserved
(18)	CHARACTER	20	MRSDPFIX	SEGMENT PREFIX
(18)	CHARACTER	4	MRSDPFID	- EYE CATCHER
(1C)	FULLWORD	4	MRSDPFLN	- LENGTH
(20)	FULLWORD	4	MRSDPFLL	- #(FIRST CI IN SEGMENT)
(24)	FULLWORD	4	MRSDPFUL	- #(LAST CI IN SEGMENT)
(28)	ADDRESS	4	MRSDPFCN	- A(NEXT SEGMENT) OR 0
(2C)	CHARACTER	512	*	SEGMENT DATA
(2C)	CHARACTER	256	MRSDSEGM	- MASTER AS SCALAR
(2C)	CHARACTER	1	MRSDSARM (255:130386280)	- MASTER AS ARRAY
(12C)	CHARACTER	256	MRSDSEGB	- BACK-UP AS SCALAR
(12C)	CHARACTER	1	MRSDSARB (255:130382880)	- BACK-UP AS ARRAY
(22C)	CHARACTER	20	MRSDSFIX	SEGMENT SUFFIX
(22C)	CHARACTER	4	MRSDSFID	- EYE CATCHER
(230)	FULLWORD	4	MRSDSFLN	- LENGTH
(234)	FULLWORD	4	MRSDSFLL	- #(FIRST CI IN SEGMENT)
(238)	FULLWORD	4	MRSDSFUL	- #(LAST CI IN SEGMENT)
(23C)	ADDRESS	4	MRSDSFCN	- A(NEXT SEGMENT) OR 0
(240)	CHARACTER	0	*	

Constants

Table 492.

Len	Type	value	Name	Description
1	HEX	21	MRCA_DFP_21	- V2 R1

Table 492. (continued)

Len	Type	value	Name	Description
1	HEX	22	MRCA_DFP_22	- V2 R2
1	HEX	23	MRCA_DFP_23	- V2 R3

MWCB Transient data wait control

```
                    MODULE NAME = DFHMWCPS
                    DESCRIPTIVE NAME  = Transient Data Wait Control
                                       CICS/ESA AP Domain
                    @BANNER_START 02

                                       DFHMWCPS
                    Licensed Materials - Property of IBM
                    "Restricted Materials of IBM"
                    5655-S97
                    @BANNER_END
                    FUNCTION =
                        Copybook DFHMWCPS provides structure DFHMWCB.
                        DFHMWCB describes the Wait Control Block (MWCB),
                        a MWCB is allocated on an as required basis.
                    LIFETIME =
                        The lifetime of the control block is essentially
                        that of the wait. They are allocated when it is
                        necessary to suspend a task and freed when the task is
                        resumed.
                    STORAGE CLASS =
                        The control block is located in storage allocated
                        from the DFHTDWCB subpool.
                    LOCATION =
                        The MWCB is located from
                            1. a DCTE
                            2. the MBCA
                            3. a MBCB
                            2. the MRCA
                            3. a MRCB
                        depending on the event being waited on.
                    INNER CONTROL BLOCKS =
                        There are no inner control blocks.
                    NOTES :
                     DEPENDENCIES =
                         S/370
                     RESTRICTIONS =
                         There are no restrictions.
                    MODULE TYPE =
                        Control block definition.
                            MULTIPLE BUFFERS - WAIT CONTROL BLOCK (MWCB)
```

Table 493.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	DFHMWCB	
(0)	CHARACTER	16	MWCB_PREFIX	prefix
(0)	HALFWORD	2	MWCB_LENGTH	- length
(2)	CHARACTER	1	MWCB_ARROW	- value - '>'
(3)	CHARACTER	3	MWCB_DFH	- value - 'DFH'
(6)	CHARACTER	2	MWCB_DOMID	- value - 'TD'
(8)	CHARACTER	8	MWCB_BLOCK	- value - 'MWCB '
(10)	ADDRESS	4	MWCB_MWCB_P	A(next MWCB) or 0

Table 493. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	FULLWORD	4	MWCB_TASK_TOKEN	- task token
(18)	ADDRESS	4	MWCB_SR_TOK	- SUSPEND/RESUME token
(1C)	CHARACTER	4	MWCB_TXN_NUMBER	- Owning txn number
(20)	BIT(8)	1	MWCB_TDQ_FLAG	
	1111 111.		*	
	1		MWCB_TDQ_ DISCARDED	
				- assoc tdq gone
(21)	CHARACTER	3	*	- reserved
(24)	CHARACTER	4	*	- reserved
(28)	CHARACTER	0	*	

NCS4D Named counter server CF statistics

```
CONTROL BLOCK NAME = DFHNCS4D
DESCRIPTIVE NAME  = CICS Named Counter Server List Str Stats
   @BANNER_START 02
                        DFHNCS4D
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = NC server list structure usage and access statistics.
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
   ----------------------------------------------------------------
```

Table 494.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHNCS4D	, NC list structure statistics record
(0)	FULLWORD	4	S4 (0)	Start of record
(0)	HALFWORD	2	S4LEN	Length of data area
(0)	SIGNED	0	S4IDE	"0124" List structure stats mask
(2)	ADDRESS	2	S4ID	List structure stats id
(2)	BITSTRING	0	S4VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	S4DVERS	List structure stats version number
(5)	CHARACTER	3		Reserved
Coupling facility list structure status information.				
(8)	CHARACTER	16	S4NAME (0)	Full name of list structure

Table 494. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	8	S4PREF	First part of structure name
(10)	CHARACTER	8	S4POOL	Pool name part of structure name
(18)	CHARACTER	16	S4CNNAME (0)	Name for connection to structure
(18)	CHARACTER	8	S4CNPREF	Prefix for connection name
(20)	CHARACTER	8	S4CNSYSN	Own MVS system name from CVTSNAME
(28)	ADDRESS	4	S4SIZE	Structure size in 4K pages
(2C)	ADDRESS	4	S4SIZEMX	Maximum size in 4K pages
Usage statistics. Entry usage statistics. Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER.				
(30)	FULLWORD	4	S4ENTRCT	Current number of entries in use
(34)	FULLWORD	4	S4ENTRHI	Highest number of entries in use
(38)	FULLWORD	4	S4ENTRLO	Lowest number of free entries
(3C)	FULLWORD	4	S4ENTRMX	Max entries returned by IXLCONN
Coupling facility I/O statistics. Statistics for each main type of CF request.				
(40)	FULLWORD	4	S4CRECT	Create counter
(44)	FULLWORD	4	S4GETCT	Get and increment counter
(48)	FULLWORD	4	S4SETCT	Set counter
(4C)	FULLWORD	4	S4DELCT	Delete counter
(50)	FULLWORD	4	S4KEQCT	Inquire KEQ
(54)	FULLWORD	4	S4KGECT	Inquire KGE
Statistics for internal CF requests.				
(58)	FULLWORD	4	S4ASYCT	Number of asynchronous requests
IXLLIST completion statistics indexed by internal response value.				
(5C)	FULLWORD	4	S4RSP1CT	Normal response, everything OK
(60)	FULLWORD	4	S4RSP2CT	No matching entry was found
(64)	FULLWORD	4	S4RSP3CT	Entry version did not match

Table 494. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(68)	FULLWORD	4	S4RSP4CT	List authority comparison mismatch
(6C)	FULLWORD	4	S4RSP5CT	The list structure is out of space
(70)	FULLWORD	4	S4RSP6CT	An IXLLIST return code occurred other than those described above
(74)	FULLWORD	4	S4RSP7CT	Structure temporarily unavailable, during system-managed rebuild
(74)		0	S4END	"*"
(74)		0	S4CLEN	"*-S4LEN" Length of this DSECT

NCS5D Named counter server storage statistics

```
CONTROL BLOCK NAME = DFHNCS5D
DESCRIPTIVE NAME  = CICS Named Counter Server Storage
Statistics
    @BANNER_START 02
                        DFHNCS5D
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION = Statistics for named counter server main storage usage.
NOTES :
    DEPENDENCIES = S/370
    MODULE TYPE = Control block definition
  ----------------------------------------------------------------
```

Table 495.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHNCS5D	, NC server main storage statistics
(0)	FULLWORD	4	S5 (0)	Start of record
(0)	ADDRESS	2	S5LEN	Length of data area
(0)	SIGNED	0	S5IDE	"0125" NC server main storage stats mask
(2)	ADDRESS	2	S5ID	NC server main storage stats id
(2)	BITSTRING	0	S5VERS	"X'01'" DSECT version number mask
(4)	ADDRESS	1	S5DVERS	NC server main storage stats version
(5)	BITSTRING	3		Reserved

Table 495. (continued)

Offset Hex	Type	Len	Name (dim)	Description
These are the statistics returned by the AXM page pool management routines for the pools AXMPGANY and AXMPGLOW. Storage in these pools is allocated in multiples of 4K pages on a 4K boundary. The most frequent use is for segments of LIFO stack storage. Storage is initially allocated from the pool using a bit map. For faster allocation, free areas are not normally returned to the pool but are added to a vector of free chains depending on the size of the free area (1 to 32 pages). When storage is being acquired, this vector is checked before going to the pool bit map. If there are no free areas of the right size and there is not enough storage left in the pool, free areas in the vector are put back into the pool, starting from the smallest end, until a large enough area has been created. This action appears as a compress attempt in the statistics. If there is still insufficient storage to satisfy the request, the request is failed. Statistics for LOC=ANY storage pool.				
(8)	CHARACTER	8	S5ANYNAM	Pool name AXMPGANY
(10)	FULLWORD	4	S5ANYSIZ	Size of storage pool area
(14)	ADDRESS	4	S5ANYPTR	Address of storage pool area
(18)	FULLWORD	4	S5ANYMX	Total pages in the storage pool
(1C)	FULLWORD	4	S5ANYUS	Number of used pages in the pool
(20)	FULLWORD	4	S5ANYFR	Number of free pages in the pool
(24)	FULLWORD	4	S5ANYLO	Lowest free pages (since reset)
(28)	FULLWORD	4	S5ANYRQG	Storage GET requests
(2C)	FULLWORD	4	S5ANYRQF	Storage FREE requests
(30)	FULLWORD	4	S5ANYRQS	GETs which failed to get storage
(34)	FULLWORD	4	S5ANYRQC	Compress (defragmentation) attempts
Statistics for LOC=BELOW storage pool.				
(38)	CHARACTER	8	S5LOWNAM	Pool name AXMPGLOW
(40)	FULLWORD	4	S5LOWSIZ	Size of storage pool area
(44)	ADDRESS	4	S5LOWPTR	Address of storage pool area
(48)	FULLWORD	4	S5LOWMX	Total pages in the storage pool
(4C)	FULLWORD	4	S5LOWUS	Number of used pages in the pool
(50)	FULLWORD	4	S5LOWFR	Number of free pages in the pool

Table 495. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	FULLWORD	4	S5LOWLO	Lowest free pages (since reset)
(58)	FULLWORD	4	S5LOWRQG	Storage GET requests
(5C)	FULLWORD	4	S5LOWRQF	Storage FREE requests
(60)	FULLWORD	4	S5LOWRQS	GETs which failed to get storage
(64)	FULLWORD	4	S5LOWRQC	Compress (defragmentation) attempts
(64)		0	S5END	"*"
(64)		0	S5CLEN	"*-S5LEN" Length of this DSECT

NEPCA Node error program commarea

```
                  MACRO NAME = DFHNEPCA
                  DESCRIPTIVE NAME  = CICS DFHZNEP - Node Error Program
                                  Commarea Mapper and Descriptor
                   @BANNER_START 02
                                      DFHNEPCA
                   Licensed Materials - Property of IBM
                   "Restricted Materials of IBM"
                   5655-S97
                   @BANNER_END
                   FUNCTION =
                         This macro provides a DSECT description and a storage
                         mapper for the NEP COMMAREA
                   NOTES
                     DEPENDENCIES = S/370
                     RESTRICTIONS =
                           See OPERANDS sections
                     MODULE TYPE = Executable macro
                  ----------------------------------------------------------------
```

Table 496.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHNEPCA	
Invocation descriptor. - COMMAREA for the NEP user replaceable module. These fields are READ ONLY				
(0)	BITSTRING	158	NEPCABEG (0)	
(0)	BITSTRING	4	NEPCAHDR (0)	Invocation descriptor
(0)	BITSTRING	1	NEPCAFNC	Local descriptor
(1)	BITSTRING	2	NEPCACMP	Global descriptor
(3)	BITSTRING	1		Reserved
Identity of terminal and the error code associated with it. These fields are READ ONLY				
(4)	BITSTRING	1	TWAEC	Error Code
(5)	CHARACTER	3		Reserved

Table 496. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	4	TWANID	Terminal identity
(C)	CHARACTER	8	TWANETN	Netname
	Action bytes. Initially set to the default actions. User can change these default actions.			
(14)	BITSTRING	4	TWAROPTL (0)	Reserved
(14)	BITSTRING	3	TWAOPTL (0)	User option bytes
(14)	BITSTRING	1	TWAROPT1 (0)	User option byte 1
(14)	BITSTRING	1	TWAOPT1	User option byte 1
(14)	BITSTRING	0	TWAOAF	"X'80'" Print action flags
(14)	BITSTRING	0	TWAORPL	"X'40'" Print VTAM RPL
(14)	BITSTRING	0	TWAOTCTE	"X'20'" Print TCTTE
(14)	BITSTRING	0	TWAOTIOA	"X'10'" Print TIOA
(14)	BITSTRING	0	TWAOBIND	"X'08'" Print BIND area
(14)	BITSTRING	0	TWAODNTA	"X'04'" System dump if no task attached
(14)	BITSTRING	0	TWAONQN	"X'02'" Print NQNAME
(14)	BITSTRING	0	TWAOTNA	"X'01'" Print TNADDR
(15)	BITSTRING	1	TWAROPT2 (0)	User option byte 2
(15)	BITSTRING	1	TWAOPT2	User option byte 2
(15)	BITSTRING	0	TWAOAS	"X'80'" Abort any send for this terminal
(15)	BITSTRING	0	TWAOAR	"X'40'" Abort any receive for " "
(15)	BITSTRING	0	TWAOAT	"X'20'" Abend any task attached to TCTTE
(15)	BITSTRING	0	TWAOCT	"X'10'" Cancel any task att to TCTTE
(15)	BITSTRING	0	TWAOGMM	"X'08'" Good Morning message to be sent
(15)	BITSTRING	0	TWAOPBP	"X'04'" Purge any BMS pages for this TCTTE
(15)	BITSTRING	0	TWAOASM	"X'02'" SIMLOGON required
(16)	BITSTRING	1	TWAROPT3 (0)	User option byte 3
(16)	BITSTRING	1	TWAOPT3	User option byte 3
(16)	BITSTRING	0	TWAOINT	"X'80'" Set INTLOG now allowed

Table 496. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(16)	BITSTRING	0	TWAONINT	"X'40'" Set no internal gen logons
(16)	BITSTRING	0	TWAONCN	"X'10'" Normal CLSDST (no reset allowed)
(16)	BITSTRING	0	TWAOSCN	"X'08'" Normal CLSDST (reset allowed)
(16)	BITSTRING	0	TWAONEGR	"X'04'" Send negative response
(16)	BITSTRING	0	TWAOOS	"X'02'" Keep node out of service
(16)	BITSTRING	0	TWAOCN	"X'01'" CLSDST node
(17)	BITSTRING	1		Reserved
Any VTAM sense and RPL codes These fields are READ ONLY				
(18)	BITSTRING	12	TWAVTAM (0)	VTAM information
(18)	HALFWORD	2	TWARPLCD	VTAM RPL feedback codes
(1A)	HALFWORD	2		Reserved
(1C)	FULLWORD	4	TWASENSS (0)	Sense codes to be sent
(1C)	BITSTRING	1	TWASS1	System sense byte No 1
(1D)	BITSTRING	1	TWASS2	System sense byte No 2
(1E)	BITSTRING	1	TWAUS1	User sense byte No 1
(1F)	BITSTRING	1	TWAUS2	User sense byte No 2
(20)	FULLWORD	4	TWASENSR (0)	Sense codes received
(20)	BITSTRING	1	TWASR1	System sense byte No 1
(21)	BITSTRING	1	TWASR2	System sense byte No 2
(22)	BITSTRING	1	TWAUR1	User sense byte No 1
(23)	BITSTRING	1	TWAUR2	User sense byte No 2
Other useful information for NEP With the exception of TWANLD,TWANLDL & TWANPFW these fields are READ ONLY				
(24)	BITSTRING	22	TWAADINF (0)	
(24)	FULLWORD	4		Reserved
(28)	BITSTRING	1	TWACTLB	General use control byte
(28)	BITSTRING	0	TWACSC	"X'20'" Clear sense code indicator
(28)	BITSTRING	0	TWAPSC	"X'10'" Print VTAM sense codes

Table 496. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	BITSTRING	0	TWATIOA	"X'08'" Print portion of I/O area
(28)	BITSTRING	0	TWAVTRTC	"X'02'" VTAM return code available
(29)	BITSTRING	1	TWANEPR	NEP return code byte
(29)	BITSTRING	0	TWANPFW	"X'80'" Retry write with FORCE=YES
(2A)	BITSTRING	1	TWAREASN	VTAM reason code
(2B)	BITSTRING	1	TWASTAT	VTAM status code
(2A)	BITSTRING	1	TWATRSN	CICS Terminal Control terminal error reason code
(2C)	HALFWORD	2	TWAXRSN	Exception response seq number recd
(2C)		0	TWAR	"*"
(2E)	BITSTRING	1	TWAPFLG	CLSDST Pass flag
(2E)	BITSTRING	0	TWAPIP	"X'80'" CLSDST Pass in progress
(2F)	BITSTRING	1	TWANEPC	NEP Class Flag
(30)	BITSTRING	1	TWAEISAB	Stand alone begin bracket indicator
(30)	BITSTRING	0	TWAESAB	"X'04'" Stand alone begin bracket
(31)	BITSTRING	3		Reserved
(34)	ADDRESS	4	TWANLD	NEP data pointers
(38)	HALFWORD	2	TWANLDL	Length of NEP data
Additional system parameters With the exception of TWAPNETN, TWAPNTID & TWAUPRRC these fields are READ ONLY				
(3C)	FULLWORD	4	(0)	
(3C)	BITSTRING	68	TWASYSPM (0)	
(3C)	ADDRESS	4	TWATCTA	Address of TCTTE being processed
(40)	ADDRESS	4	TWARPL	Address of VTAM RPL
(44)	ADDRESS	4	TWATIOAA	Address of data portion of TIOA
(48)	HALFWORD	2	TWATIOAL	Length of data portion of TIOA
(4A)	HALFWORD	2	TWACOMML	Length of commarea data for TCTTE
(4C)	CHARACTER	4	TWACOMMA	Address of commarea data for TCTTE
(50)	ADDRESS	4	TWATECIA	Address of TCTTE USER AREA

Table 496. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	HALFWORD	2	TWATECIL	Length of TCTTE USER AREA
(56)	CHARACTER	8	TWAPPNTN	primary 3270 printer netname
(5E)	CHARACTER	4	TWAPPTID	primary 3270 printer termid
(62)	BITSTRING	1	TWAPPELG	primary printer eligible indicator
(62)	BITSTRING	0	TWAPPELY	"X'01'" primary printer is eligible flag
(63)	CHARACTER	8	TWASPNTN	secondary 3270 printer netname
(6B)	CHARACTER	4	TWASPTID	secondary 3270 printer termid
(6F)	BITSTRING	1	TWASPELG	secondary printer eligible indicator
(6F)	BITSTRING	0	TWASPELY	"X'01'" secondary printer is eligible flag
(70)	CHARACTER	8	TWAPNETN	selected 3270 printer netname
(78)	CHARACTER	4	TWAPNTID	selected 3270 printer termid
(7C)	BITSTRING	1	TWAUPRRC	Unavailable Printer rtn return code
	....		TWAUPRNP	"X'00'" No printer selected
(7C)	BITSTRING	0	TWAUPRPS	"X'01'" printer selected
(7C)	BITSTRING	0	TWAUPRDD	"X'FF'" data disposal complete
(7C)	BITSTRING	0	TWAUPRPE	"X'FE'" Error on Put request
(7D)	BITSTRING	1	TWAERRF1	Error flag byte 1
(7D)	BITSTRING	0	TWALXS	"X'80'" Logon crossed simlogon
(7E)	BITSTRING	2		reserved
XRF recovery notification data User can change these default actions				
(80)	BITSTRING	1	TWAXRNOT	Recovery Notification Options
(80)	BITSTRING	0	TWAXRNON	"X'80'" Recov Notification = None
(80)	BITSTRING	0	TWAXRMSG	"X'40'" Recov Notification = Message

Table 496. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(80)	BITSTRING	0	TWAXRTRN	"X'20'" Recov Notification = Transact.
(81)	BITSTRING	3		Reserved
(84)	CHARACTER	8	TWAXMSTN	Recovery Mapset Name
(8C)	CHARACTER	8	TWAXMAPN	Recovery Map Name
(94)	CHARACTER	4	TWAXTRAN	Recovery Transaction ID
Additional system parameters				
(98)	ADDRESS	4	TWACINIT	CINIT RU Address
(9C)	BITSTRING	2	TWACINIL	CINIT RU Length
(9C)		0	NEPCALEN	"*-NEPCABEG" Length of this DSECT

NQG Enqueue Manager Global statistics

```
CONTROL BLOCK NAME = DFHNQGDS
DESCRIPTIVE NAME  = CICS Enqueue Manager Statistics
   @BANNER_START 02
                        DFHNQGDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
      CICS level at which this module was last updated
FUNCTION =
      This data area contains global statistics provided by the
      Enqueue Manager Domain.
      It is provided for use in users monitoring applications
      to map the statistics returned via the API, the statistics
      exit, or offline formatting products.
      There is a single instance of this data block.
LIFETIME =
      This data block is created by the Enqueue Manager
      Domain to store statistics to be passed to the user in
      response to a request for statistics. The storage is
      released when the user task is detached.
STORAGE CLASS =
LOCATION =
      The user is passed a pointer to the head of the storage
      block.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Domain call buffer
--------------------------------------------------------------------
EXTERNAL REFERENCES = none
   DATA AREAS = none
   CONTROL BLOCKS = from enqueue manager domain
   GLOBAL VARIABLES (Macro pass) = none
--------------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHNQGDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 497.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHNQGDS	Enqueue Manager Global statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	NQGLEN	Length of data area
(0)	SIGNED	0	NQGIDE	"0097" Enqueue Manager statistics id mask
(2)	ADDRESS	2	NQGID	Enqueue Manager statistics id
(2)	BITSTRING	0	NQGVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	NQGDVERS	Stats version number
(5)	CHARACTER	3		Filler
(5)		0	NQGHEND	"*" End of header
(5)		0	NQGHLEN	"*-NQGLEN" Length of header
(8)	FULLWORD	4	NQGNPOOL	Number of ENQ pools following
(8)		0	NQGGEND	"*" End of global portion
(8)		0	NQGGLEN	"*-DFHNQGDS" Length of header and global part

The following dsect is repeated for each ENQ pool. The number of
repetitions of the NQGBODY dsect is in NQGNPOOL.

Table 498.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	NQGBODY	Individual ENQ pool statistics
(0)	CHARACTER	8	NQGPOOL	ENQ pool id
(8)	FULLWORD	4	NQGTNQSI	Total enqueues issued
(C)	FULLWORD	4	NQGTNQSW	Total enqueues waited
(10)	CHARACTER	8	NQGTNQWT	Time enqueues had waited (STCK)
(18)	FULLWORD	4	NQGCNQSW	Current enqueues waiting
(1C)	CHARACTER	8	NQGCNQWT	Current enqueues waiting time (STCK)
(24)	FULLWORD	4	NQGGNQSW	Total sysplex ENQs waited
(28)	CHARACTER	8	NQGGNQWT	Time sysplex ENQs had waited (STCK)
(30)	FULLWORD	4	NQGSNQSW	Current sysplex ENQs waiting

Table 498. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	CHARACTER	8	NQGSNQWT	Current sysplex ENQs wait time (STCK)
The following fields show the enqueue retention activity.				
(3C)	FULLWORD	4	NQGTNQSR	Total enqueues that were retained
(40)	CHARACTER	8	NQGTNQRT	Time enqueues were retained (STCK)
(48)	FULLWORD	4	NQGCNQSR	Current enqueues retained
(4C)	CHARACTER	8	NQGCNQRT	Current enqueues retained time (STCK)
The following fields show a breakdown of the possible reasons of why requests for ENQs may not have been successful.				
(54)	FULLWORD	4	NQGTIRJB	Total immed. rejected ENQBUSY
(58)	FULLWORD	4	NQGTIRJR	Total immed. rejected ENQ retained
(5C)	FULLWORD	4	NQGTWRJR	Total waiting ENQs rejected retained
(60)	FULLWORD	4	NQGTWPOP	Total waiting ENQs purged by operator
(64)	FULLWORD	4	NQGTWPTO	Total waiting ENQs purged by timeout
(64)		0	NQGBEND	"*" End of individual ENQ pool stats
(64)		0	NQGBLEN	"*-NQGBODY" Length of body

NQUE Enq/Deq EXEC Parameter List

```
              CONTROL BLOCK NAME = DFHNQUEC
              DESCRIPTIVE NAME  = CICS EXEC argument list for ENQ/DEQ
                                         user exits.
             @BANNER_START 02
                             DFHNQUEC
             Licensed Materials - Property of IBM
             "Restricted Materials of IBM"
             5655-S97
             @BANNER_END
               Although provided in a general library, DFHNQUED is not
               to be used as a general programming interface. Refer to
               product documentation to determine intended usage.
               The following fields are part of the Product-sensitive
               Programming Interface.
                         NQ_ADDR0
                         NQ_ADDR1
                         NQ_ADDR2
                         NQ_ADDR3
                         NQ_GROUP
                         NQ_FUNCT
                         NQ_BITS1
                         NQ_BITS2
```

```
                               NQ_EIDOPT5
                               NQ_EIDOPT6
                               NQ_EIDOPT7
                               NQ_EIDOPT8
                               NQ_ENQ
                               NQ_DEQ
                               NQ_RESOURCE
                               NQ_LENGTH
                               NQ_MAXLIFETIME
           All equates for values of EIBRCODE, EIBRESP and EIBRESP2
           form part of the General-purpose Programming Interface.
           All remaining fields used in defining the Exec Parameter
           List are product sensitive and may vary between CICS
           releases.
      FUNCTION =
           To define the EXEC parameter list for ENQ/DEQ
           requests, for use by global user exit programs at exit
           points XNQEREQ and XNQEREQC.
           On entry to the XNQEREQ and XNQEREQC User Exits, the EXEC
           parameter list is pointed to by UEPCLPS.
           The EXEC parameter list for ENQ/DEQ consists of four
           addresses.
           The four addresses are defined by NQ_ADDR0 to NQ_ADDR3.
           This DSECT defines these addresses and the areas that
           they point to.
           On entry to the XNQEREQ and XNQEREQC User Exits, the copy
           of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP
           is pointed to by UEPRESP and the copy of EIBRESP2 is
           pointed to by UEPRESP2.
           This DSECT also contains equates for values of EIBRCODE,
           EIBRESP and EIBRESP2 used by ENQ/DEQ.
      LIFETIME = Lifetime of the NQ command request
      STORAGE CLASS = As the storage being mapped is the translated
                      source in the user's application program, the
                      storage may be either above or below the line.
      LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.
                 (2) Fields copied from the EIB are addressed by
                         UEPRCODE, UEPRESP and UEPRESP2.
                 (3) The token for use in communicating between
                         XNQEREQ and XNQEREQC is addressed by UEPNQTOK.
      INNER CONTROL BLOCKS =
           NQ_ADDR_LIST declares the EXEC addresses.
           NQ_EID defines the EID pointed to by NQ_ADDR0.
      NOTES :
       DEPENDENCIES = S/370 ESA
       RESTRICTIONS = None
       MODULE TYPE = Control Block definition
      ----------------------------------------------------------------
       EXTERNAL REFERENCES =
             None.
         DATA AREAS =
             None.
         CONTROL BLOCKS =
             None.
         GLOBAL VARIABLES (Macro pass) =
             None.
      ----------------------------------------------------------------
       The command parameter list is a list of addresses
       which reference the argument values for this EXEC CICS
       command. The addresses are only valid if the argument is
       applicable to this command.
       The existence bits in the EID component (NQ_BITS1) specify
       those addresses that are valid, and the flagword bits
       (NQ_EIDOPT5 - NQ_EIDOPT7) specify the keywords that were given
       in the EXEC CICS command.
       Therefore, you can deduce the useage of each address by testing
       these bits in conjunction with the command function(NQ_FUNCT).
```

Table 499.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	NQ_ADDR_LIST	NQ_ADDR_LIST consists of
(0)	ADDRESS	4	NQ_ADDR0	the EID
(4)	ADDRESS	4	NQ_ADDR1	RESOURCE
(8)	ADDRESS	4	NQ_ADDR2	LENGTH
(C)	ADDRESS	4	NQ_ADDR3	MAXLIFETIME

```
NQ_EID (addressed by NQ_ADDR0) gives the command function, and
contains the existence and flagword bits.
Note: Equates for NQ_GROUP, NQ_FUNCT, EIBRCODE, EIBRESP and
EIBRESP2 values are defined at the end of this data structure.
```

Table 500.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	NQ_EID	
(0)	CHARACTER	1	NQ_GROUP	'12'X for ENQ/DEQ
(1)	CHARACTER	1	NQ_FUNCT	'04'X for ENQ
				'06'X for DEQ

```
----------------------------------------------------------------
 The existence bits (NQ_BITS1) specify the parameters that are
 valid for this command.
 For example, NQ_EXIST2 set on indicates that NQ_ADDR2 is valid,
 meaning that it addresses a LENGTH value.
 NQ_ADDR0 is always valid and has no existence bit.
----------------------------------------------------------------
```

Offset Hex	Type	Len	Name (dim)	Description
(2)	BIT(8)	1	NQ_BITS1	
	1...		NQ_EXIST1	
	1...		NQ_RESOURCE_V	
	.1..		NQ_EXIST2	
	.1..		NQ_LENGTH_V	
	..1.		NQ_EXIST3	
	..1.		NQ_MAXLIFETIME_V	
	...1 1111		*	Reserved
(3)	BIT(16)	2	*	Reserved

```
----------------------------------------------------------------
 The next 3 bytes (NQ_EIDOPT5 - NQ_EIDOPT7) are the flagword
 bits.
 A user exit program at XNQEREQ can set the NQ_NOSUSPEND_X
 bit for an ENQ command.
----------------------------------------------------------------
```

Offset Hex	Type	Len	Name (dim)	Description
(5)	BIT(8)	1	NQ_EIDOPT5	
(5)	BIT(8)	1	*	Reserved
(6)	BIT(8)	1	NQ_EIDOPT6	
(6)	BIT(8)	1	*	Reserved
(7)	BIT(8)	1	NQ_EIDOPT7	
	1111 1...		*	Reserved

Table 500. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		NQ_NOSUSPEND_X	NOSUSPEND specified.
	11		*	Reserved

```
                      The following definitions are for the rest of the arguments in
                      the EXEC parameter list, addressed by NQ_ADDR1 - NQ_ADDR3 in
                      NQ_ADDR_LIST.
```

Table 501.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	NQ_DATA1	
(0)	CHARACTER	*	NQ_RESOURCE	the RESOURCE

Table 502.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2	NQ_DATA2	
(0)	HALFWORD	2	NQ_LENGTH	the LENGTH

Table 503.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	NQ_DATA3	
(0)	FULLWORD	4	NQ_MAXLIFETIME	the MAXLIFETIME

Constants

Table 504.

Len	Type	value	Name	Description
Equate for NQ_GROUP. All ENQ/DEQ requests have group code '12'				
1	HEX	12	NQ_ENQDEQ_GROUP	
Equates for NQ_FUNCT values.				
1	HEX	04	NQ_ENQ	Enq
1	HEX	06	NQ_DEQ	Deq
Start of General Use Programming Interface. Equates for EIBRCODE values used by Enq/Deq.				
1	HEX	00	NQ_OK_EIBRCODE	
1	HEX	E0	NQ_INVREQ_EIBRCODE	
1	HEX	E1	NQ_LENGERR_ EIBRCODE	
1	HEX	32	NQ_ENQBUSY_ EIBRCODE	
Equates for EIBRESP values used by Enq/Deq.				
1	DECIMAL	0	NQ_OK_EIBRESP	
1	DECIMAL	16	NQ_INVREQ_EIBRESP	

Table 504. (continued)

Len	Type	value	Name	Description
1	DECIMAL	22	NQ_LENGERR_EIBRESP	
1	DECIMAL	55	NQ_ENQBUSY_EIBRESP	
Equates for EIBRESP2 values used by Enq/Deq				
1	DECIMAL	0	NQ_OK_EIBRESP2	OK
1	DECIMAL	1	NQ_LENGERR_EIBRESP2	LENGERR
1	DECIMAL	2	NQ_INVREQ_EIBRESP2	INVREQ *-*-**-**-**-**-**-**- **-* *-*-**-**-**-**-**-**- **-* *-*-* End of General Use **-* *-* Programming Interface *-* *-*-*-**-**-**-**-**-*- *-*

OSPWA BMS work area

```
MODULE NAME = DFHOSPWA
DESCRIPTIVE NAME  = CICS BMS WORK AREA
  @BANNER_START 02
                      DFHOSPWA
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = DEFINE THE MAJOR BMS CONTROL BLOCK. THIS IS CHAINED
            OFF THE TCA SYSTEM AREA. IT IS BUILT BY DFHMCP ON
            THE FIRST BMS REQUEST IN A TRANSACTION, AND IS FREED
            AT TASK TERMINATION. LARGE PARTS OF THE OSPWA ARE
            CLEARED BY DFHMCP ON SEND PAGE.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = SEE COMMENTS IN CODE
 PATCH LABEL = NONE
 MODULE TYPE = DSECT
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = DSECT
ENTRY POINT = NOT APPLICABLE
 PURPOSE = SEE FUNCTION
 LINKAGE = NOT APPLICABLE
INPUT = NOT APPLICABLE
OUTPUT = NOT APPLICABLE
EXIT-NORMAL = NOT APPLICABLE
EXIT-ERROR = NOT APPLICABLE
EXTERNAL REFERENCES = NOT APPLICABLE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NOT APPLICABLE
 MACROS = NONE
          OUTPUT SERVICES PROCESSOR WORK AREA (OSPWA)
              BASIC MAPPING SUPPORT WORK AREA
        THE OSPWA IS USED BY ALL BMS ROUTINES TO TRANSMIT DATA
        BETWEEN ROUTINES AND ACROSS BMS CALLS.
```

Table 505.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHOSPWA	DUMMY SECTION - BMS WORK AREA
(0)	DBL WORD	8	OSPSAAP	STORAGE ACCOUNTING INFORMATION STORAGE CLASS=USER
(0)		0	OSPSTART	"*" OSPWA START
(8)	CHARACTER	8	OSPCBID	OSPWA SELF IDENTIFICATION. SET TO 'DFHOSPWA' WHEN OSPWA CREATED
(8)		0	OSPSTRT1	"*" OSPWA START
	REGISTER SAVE AREAS - PART ONE			
(10)	FULLWORD	4	OSPRLRSA (2)	ROUTE LIST RESOLUTION SAVE AREA
(18)	FULLWORD	4	OSPMAPSA (2)	MAPPING SAVE AREA
(18)		0	OSPIIPSA	"OSPMAPSA" INPUT MAPPING SAVE AREA
(20)	FULLWORD	4	OSPPFSA (2)	PAGE FORMATTING SAVE AREA
(28)	FULLWORD	4	OSPDSBSA (2)	DATA STREAM BUILD SAVE AREA
(30)	FULLWORD	4	OSPTPPSA (2)	TERMINAL PAGE PROCESSOR SAVE AREA
(38)	FULLWORD	4	OSPTPRS1 (2)	DFHTPR REGISTER SAVE AREA
(40)	FULLWORD	4	OSPTPRS2 (2)	DFHTPR REGISTER SAVE AREA
(20)	FULLWORD	4	OSPTPRS3	DFHTPR REGISTER SAVE AREA
(24)	FULLWORD	4	OSPTPRS4	DFHTPR REGISTER SAVE AREA
(28)	FULLWORD	4	OSPTPRS5	DFHTPR REGISTER SAVE AREA
(2C)	FULLWORD	4	OSPTPRS6	DFHTPR REGISTER SAVE AREA
	SAVE AREAS FOR R14 TO GIVE RLR CALLING PROCEDURE CONSISTENCY			
(28)	FULLWORD	4	OSPLIS14	SAVE AREA FOR RETURN REGISTER FOR RLRLOCID

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	FULLWORD	4	OSPINS14	SAVE AREA FOR RETURN REGISTER FOR RLRINIT
(30)	FULLWORD	4	OSPBLS14	SAVE AREA FOR RETURN REGISTER FOR RLRRLBLD
(48)	FULLWORD	4	(2)	RESERVED
DATA SAVED FROM TCA REQUEST AREA				
(48)		0	OSPSVDTA	"*" BMS REQUEST DATA FROM TCA
(50)	BITSTRING	1	OSPTR1	TYPE OF REQUEST BYTE 1
(50)	BITSTRING	0	OSPTRR	"X'80'" TYPE = ROUTE
(50)	BITSTRING	0	OSPREO	"X'40'" ERRTERM = ORIG
(50)	BITSTRING	0	OSPRETI	"X'20'" ERRTERM = TERMINAL ID
(50)	BITSTRING	0	OSPRI	"X'10'" INTRVAL = NUMERIC VALUE
(50)	BITSTRING	0	OSPRT	"X'08'" TIME = NUMERIC VALUE
(50)	BITSTRING	0	OSPRA	"X'04'" LIST = ALL
(50)	BITSTRING	0	OSPRLSA	"X'02'" LIST = SYMBOLIC ADDRESS
(50)	BITSTRING	0	OSPROC	"X'01'" OPCLASS = OPERATOR CLASS
(51)	BITSTRING	1	OSPTR2	TYPE OF REQUEST BYTE 2
(51)	BITSTRING	0	OSPRTL	"X'80'" TITLE = SYMBOLIC ADDRESS
(51)	BITSTRING	0	OSPTOPT	"X'40'" PROPT = NLEOM
(51)	BITSTRING	0	OSPRQI	"X'20'" REQID = ALPHANUMERIC VALUE
(51)	BITSTRING	0	OSPTLD	"X'10'" LDC = MNEMONIC OR YES
(51)	BITSTRING	0	OSPIOT	"X'08'" IOTYPE = IMMED
(51)	BITSTRING	0	OSPLPS	"X'04'" SEND PARTNSET
(51)	BITSTRING	0	OSPRIN	"X'02'" RECV INTO EXEC COMMAND
(51)	BITSTRING	0	OSPTRG	"X'01'" TYPE = PURGE

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(52)	BITSTRING	1	OSPTR3	TYPE OF REQUEST BYTE 3
(52)	BITSTRING	0	OSPTLST	"X'80'" TYPE = LAST
(52)	BITSTRING	0	OSPRPR	"X'40'" RECEIVE PARTITION
(52)	BITSTRING	0	OSPTRT	"X'20'" TYPE=TEXT ON INPUT MAPPING
(52)	BITSTRING	0	OSPHON	"X'20'" HONEOM REQUESTED ON OUTPUT MAPPING (EXEC INTERFACE ONLY)
(52)	BITSTRING	0	OSPTC	"X'10'" CURSOR = NUMBER
(52)	BITSTRING	0	OSPTCWCC	"X'08'" CTRL = ANY 3270 WRITE CONTROL CHARACTER
(52)	BITSTRING	0	OSPTMN	"X'04'" MAP = MAP NAME
(52)	BITSTRING	0	OSPTSA	"X'02'" MSETADR = SYMBOLIC ADDRESS OR PSETADR = ADDRESS
(52)	BITSTRING	0	OSPTSN	"X'01'" MAPSET = MAP SET NAME
(53)	BITSTRING	1	OSPTR4	TYPE OF REQUEST BYTE 4
(53)	BITSTRING	0	OSPTDY	"X'C0'" DATA = YES
(53)	BITSTRING	0	OSPTDN	"X'40'" DATA = NO
(53)	BITSTRING	0	OSPTRS	"X'20'" TYPE = SAVE
(53)	BITSTRING	0	OSPTMA	"X'10'" MAPADR = SYMBOLIC ADDRESS
(53)	BITSTRING	0	OSPTRW	"X'08'" TYPE = WAIT
(53)	BITSTRING	0	OSPTRM	"X'04'" TYPE = MAP
(53)	BITSTRING	0	OSPTRE	"X'02'" TYPE = ERASE
(53)	BITSTRING	0	OSPTRI	"X'01'" TYPE = IN
(54)	BITSTRING	1	OSPTR5	TYPE REQUEST BYTE 5
(54)	BITSTRING	0	OSPTRB	"X'80'" TYPE = PAGEBLD
(54)	BITSTRING	0	OSPTOF	"X'40'" OFLOW = SYMBOLIC ADDRESS

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	BITSTRING	0	OSPTEU	"X'20'" TYPE = ERASEAUP
(54)	BITSTRING	0	OSPTFF	"X'10'" TYPE = FORMFEED
(54)	BITSTRING	0	OSPTRLOC	"X'08'" TYPE = LOCATE_MAP
(54)	BITSTRING	0	OSPTRO	"X'04'" TYPE = OUT
(54)	BITSTRING	0	OSPTRF	"X'02'" TYPE = STORE
(54)	BITSTRING	0	OSPTRU	"X'01'" TYPE = RETURN
(55)	BITSTRING	1	OSPTR6	TYPE REQUEST BYTE 6
(55)	BITSTRING	0	OSPTRP	"X'80'" TYPE = PAGEOUT
(55)	BITSTRING	0	OSPTCAPG	"X'40'" CTRL = AUTOPAGE
(55)	BITSTRING	0	OSPTCPG	"X'20'" CTRL = PAGE
(55)	BITSTRING	0	OSPTCRET	"X'10'" CTRL = RETAIN
(55)	BITSTRING	0	OSPTCREL	"X'08'" CTRL = RELEASE
(55)	BITSTRING	0	OSPTWBC	"X'04'" WTBRK = CURRENT
(55)	BITSTRING	0	OSPTWBA	"X'02'" WTBRK = ALL
(55)	BITSTRING	0	OSPEODOP	"X'01'" EODPURG=OPER
(56)	BITSTRING	1	OSPTR7	TYPE REQUEST BYTE 7
(56)	BITSTRING	0	OSPTRX	"X'80'" TYPE = TEXTBLD
(56)	BITSTRING	0	OSPTHDR	"X'40'" HEADER = SYMBOLIC ADDRESS
(56)	BITSTRING	0	OSPTTRL	"X'20'" TRAILER = SYMBOLIC ADDRESS
(56)	BITSTRING	0	OSPJUST	"X'10'" JUSTIFY = FIRST, LAST, OR VALUE
(56)	BITSTRING	0	OSPOPRT	"X'08'" API SPECIFIES OUTPARTN
(56)	BITSTRING	0	OSPAPRT	"X'04'" API SPECIFIES ACTPARTN

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(56)	BITSTRING	0	OSPPGAS	"X'02'" PGA SUPPLIED AT END OF DATA. NOTE: TIOATDL MUST INCLUDE THE LENGTH OF THE PGA IF THIS IS SET
(56)	BITSTRING	0	OSPTRN	"X'01'" TYPE = NOEDIT
(57)	BITSTRING	1	OSPTR8	TYPE REQUEST BYTE 8
(57)	BITSTRING	0	OSPIPRT	"X'80'" API SPECIFIES INPARTN
(57)	BITSTRING	0	OSPMGM	"X'40'" MSR SPECIFIED ON API
(57)	BITSTRING	0	OSPEIC	"X'20'" EXEC INTERFACE COMMAND
(57)	BITSTRING	0	OSPTFP	"X'10'" FMHPARM = YES OR PARM
(57)	BITSTRING	0	OSPRDA	"X'08'" RDATT = SYMBOLIC ADDRESS
(57)	BITSTRING	0	OSPWRB	"X'04'" WRBRK = SYMBOLIC ADDRESS
(57)	BITSTRING	0	OSPSIG	"X'02'" SIGNAL = SYMBOLIC ADDRESS
(57)	BITSTRING	0	OSPMGC	"X'01'" SEND CONTROL SPECIFIED
(57)		0	OSPTREND	"*" END REQUEST BYTE INFORMATION
(57)		0	OSPTRLEN	"OSPTREND-OSPSVDTA" REQUEST BYTES' LENGTH
(58)	ADDRESS	4	OSPTA (0)	TITLE ADDRESS
(58)	CHARACTER	4	OSPTRMID (0)	TERMINAL ID FOR PURGE
(58)	ADDRESS	4	OSPIOA	ALTERNATE I/O AREA ADDRESS
(5C)	CHARACTER	4	OSPFSC (0)	FIELD SEPARATOR CHARACTERS
(5C)	CHARACTER	1	OSPWCC	WRITE CONTROL CHARACTER

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5D)	BITSTRING	1	OSPJFLV	JUSTIFY = FIRST, LAST, OR VALUE
(5D)	BITSTRING	0	OSPJF	"X'FF'" JUSTIFY = FIRST
(5D)	BITSTRING	0	OSPJL	"X'FE'" JUSTIFY = LAST
(5E)	HALFWORD	2	OSPRPL (0)	RECEIVE PARTN LENGTH VALUE
(5E)	HALFWORD	2	OSPCP	CURSOR POSITION
(60)	ADDRESS	4	OSPMA (0)	MAP ADDRESS
(60)	CHARACTER	8	OSPMN (0)	MAP NAME
(60)	CHARACTER	8	OSPPSN (0)	PARTITION SET NAME
(60)	CHARACTER	8	OSPMCRID (0)	MCR TS DATA ID FOR PURGE
(60)	ADDRESS	4	OSPHDRA (0)	HEADER ADDRESS
(60)	ADDRESS	4	OSPRLA	ROUTE OR RETURNED PAGE LIST ADDRESS
(64)	ADDRESS	4	OSPTRLA (0)	TRAILER ADDRESS
(64)		4	OSPRTI	TIME OR INTERVAL FOR TYPE=ROUTE
(68)	ADDRESS	4	OSPMSA (0)	MAP SET OR PARTNSET ADDRESS
(68)	CHARACTER	8	OSPMSN (0)	MAP SET NAME
(68)	CHARACTER	4	OSPRETID	ROUTE ERROR TERMINAL ID
(6C)	BITSTRING	1	OSPFLAG	PROGRAM SWITCH TPP/TPR
(6D)	CHARACTER	3	OSPOC	OPERATOR CLASS
(70)	CHARACTER	2	OSPLDM	LDC OR OUTPARTN LDC MNEMONIC IF LDC ON API, OR OUTPARTN NAME IF LDC NOT ON API AND SEND REQUEST, OR INPARTN IF RECEIVE MAP, OR PARTN IF RECEIVE PARTN
(72)	BITSTRING	1	OSPLDC	LDC CODE
(73)	CHARACTER	2	OSPREQID	TEMPORARY STORAGE RECOVERY PREFIX
(75)	CHARACTER	2	OSPAPNM	ACTPARTN NAME
(77)	CHARACTER	1	OSPAPID	ACTPARTN PID

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(78)	CHARACTER	8	OSPFMP	FMHPARM FROM DFHBMS
(80)	CHARACTER	4	OSPMSR	MSR OPTION BYTES
(84)	FULLWORD	4	OSPR14SV	SAVE R14 TPP/TPR
(88)	CHARACTER	4		RESERVED
(88)		0	OSPSVEND	"*" END BMS DATA FROM TCA
(88)		0	OSPSVLEN	"OSPSVEND-OSPSVDTA" MACRO REQUEST INFORMATION LENGTH
BUILD AREA FOR TEMP STORAGE KEYS				
(8C)	CHARACTER	12	OSPTSKEY (0)	TEMP STG KEY OF PAGE OR MCR + CHAIN LEVEL + PAGE NO
(8C)	CHARACTER	8	OSPTSID (0)	TEMPORARY STORAGE KEY OF PAGE OR MACRO
(8C)	CHARACTER	2	OSPTSPFX	T. S. RECOVERY PREFIX
(8E)	BITSTRING	1	OSPTSPID	TEMPORARY STORAGE IDENTIFICATION FOR PAGES
(8E)	BITSTRING	0	OSPBMTSI	"X'FD'" BMS TEMPORARY STORAGE GENERIC ID
(8F)	BITSTRING	3	OSPLMID	LOGICAL MESSAGE ID
(92)	CHARACTER	1	OSPLMTTS	TERMINAL TYPE SUFFIX OF PAGE
(93)	BITSTRING	1	OSPTSQUL	TEMP STORAGE QUALIFICATION EVEN NO. FOR MCR ODD NO. FOR PAGE QUEUE
(93)	BITSTRING	0	OSPX01	"X'01'" TO CHANGE MCR'S ID TO ONE FOR CORRESPONDING PAGE QUEUE
(94)	BITSTRING	1	OSPPGCN	PAGE CHAIN NUMBER FOR OUTPUT CHAINING
(96)	HALFWORD	2	OSPPGNO	PAGE NUMBER
BMS WORK AREAS				

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(98)	DBL WORD	8	OSPWADW	DOUBLE-WORD WORK AREA
(A0)	FULLWORD	4	OSPWAF1	FULLWORD WORK AREA
(A4)	FULLWORD	4	OSPWAF2	FULLWORD WORK AREA
(A8)	ADDRESS	4	OSPCTTP	ADDRESS OF CURRENTLY ACTIVE TTP
(AC)	ADDRESS	4	OSPDTTP	ADDRESS OF FIRST DIRECT TTP
(B0)	ADDRESS	4	OSPTTP	ADDRESS OF FIRST ROUTING TTP
(B4)	ADDRESS	4	OSPOFTTP	A(TTP DURING PAGEBLD OVERFLOW)
(B8)	ADDRESS	4	OSPDFTTP	SAVED A(ORIGINAL DEFAULT TTP)
(BC)	ADDRESS	4	OSPDLTTP	A(TTP WITH MAPSET'S DEFAULT LOCATION)
(C0)	ADDRESS	4	OSPTIOA	TIOA ADDRESS
(C4)	ADDRESS	4	OSPSIOA	REMEMBER WHERE WE GOT USER DATA
(C8)	ADDRESS	4	OSPTITLE	TITLE RECORD SAVE AREA ADDRESS
(CC)	ADDRESS	4	OSPSREQ	SUSPENDED REQUEST INFORMATION SAVE AREA
(D0)	ADDRESS	4	OSPDWE	DWE ADDRESS
(D4)	ADDRESS	4	OSPDWEOD	DWE FOR EODS ON BATCH LU
(D8)	ADDRESS	4	OSPRETPG	RETURNED PAGE LIST ADDRESS
(DC)	ADDRESS	4	OSPSFWSV	->ATTR.STRIP 3270E O/B.
(E0)	ADDRESS	4	OSPPLT1	A(1ST SEGMENT OF PAGE/LDC TABLE)
(E4)	ADDRESS	4	OSPPLTL	A(LAST SEGMENT OF PAGE/LDC TABLE)
(E4)	SIGNED	0	OSPPLTES	"2" EXTENDED PAGE/LDC TABLE ENTRY SIZE

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E4)	SIGNED	0	OSPPLTNE	"128" NUMBER OF ENTRIES IN PAGE/LDC TABLE
OSPPLTES OSPPLTNE MUST NOT EXCEED 256				
(E8)	ADDRESS	4	OSP_BRIDGE_ FACILITY	
				ADDRESS OF BFB
SHORT TERM WORKAREAS, USED ONLY IN RLRLDCTT SUBROUTINE				
(EC)	CHARACTER	1	OSPWKB1	RLRLDCTT WORK AREA 1
(ED)	CHARACTER	1	OSPWKB2	RLRLDCTT WORK AREA 2
(EE)	CHARACTER	2	OSPDELDM	DEFAULT LDC MNEMONIC FROM MAP SET
(F0)	CHARACTER	2	OSPETLDC	ERROR TERMINAL'S LDC MNEMONIC
(F2)	HALFWORD	2	OSPTTCNT	TERMINAL TYPE PARAMETER COUNT
(F4)	HALFWORD	2	OSPTOTPG	TOTAL PAGE COUNT (3601)
(F6)		4	OSPTDEL	INTERVAL OR TIME OF DELIVERY
(FA)	CHARACTER	4	OSPDDEL	DATE OF DELIVERY
(FE)	CHARACTER	4	OSPTERID	ID OF TERMINAL TO GET ERROR NOTICE
(102)	CHARACTER	3	OSPOPRCL	OPERATOR CLASS
(105)	BITSTRING	1	OSPIND01	OUTPUT SERVICE PROCESSOR (OSP)
(105)	BITSTRING	0	OSPOPPND	"X'80'" OUTPUT PENDING IN PAGE BUFFERS
(105)	BITSTRING	0	OSPRTE	"X'40'" LOGICAL MESSAGE UNDER ROUTE REQUEST
(105)	BITSTRING	0	OSPDELI	"X'20'" DELIVERY TIME IS INTERVAL
(105)	BITSTRING	0	OSPIRPGL	"X'10'" INITIATE RETURN PAGE LIST, IF NECESSARY
(105)	BITSTRING	0	OSPLMPB	"X'08'" LOGICAL MESSAGE IN PAGEBLD MODE
(105)	BITSTRING	0	OSPLMTB	"X'04'" LOGICAL MESSAGE IN TEXTBLD MODE

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(105)	BITSTRING	0	OSPWAPGO	"X'02'" PAGE OVERFLOW IN PROCESS
(105)	BITSTRING	0	OSPDWEP	"X'01'" DWE PROCESSING IN PROGRESS
(106)	BITSTRING	1	OSPIND02	OSPWA INDICATOR BYTE 02
(106)	BITSTRING	0	OSPBMSSM	"X'80'" BMS - SYSTEM MESSAGE
(106)	BITSTRING	0	OSPPL1	"X'40'" REQUESTING PROGRAM IS PL/I
(106)	BITSTRING	0	OSPLTA	"X'20'" LEAVE TCTTEDA - BECAUSE TPP ISSUED WRITE WITHOUT A WAIT
(106)	BITSTRING	0	OSPRUWA	"X'10'" RESET UWA STRFIELD HAS BEEN USED IN THIS TRANSACTION
(106)	BITSTRING	0	OSPSRTA	"X'08'" SUCCESSFUL 'RESET TO AUTOMATIC PAGING
(106)	BITSTRING	0	OSPLDCOB	"X'04'" LDC MNEMONIC ORIGINLY BLANK
(106)	BITSTRING	0	OSPNOMDL	"X'02'" DO NOT USE MAPSET DEF LDC
(106)	BITSTRING	0	OSPASCSA	"X'01'" USE ALTERNATE SCREEN/PAGE SIZE
(107)	BITSTRING	1	OSPIND03	OSPWA INDICATOR BYTE 03
(107)	BITSTRING	0	OSPLMLDC	"X'80'" LOGICAL MESSAGE USES LDCS
(107)	BITSTRING	0	OSPLMPRT	"X'40'" LOGICAL MESSAGE USES PARTITIONS
(107)	BITSTRING	0	OSP3270E	"X'20'" 3270E INBOUND, SET BY MCP TESTED BY MIN
(107)	BITSTRING	0	OSPNDDS	"X'10'" DEVICE DEPENDENT SUFFIXING NOT REQD

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(107)	BITSTRING	0	OSPTRAN	"X'08'" TIOA ALLOWS FOR TRANS- PARENCY. PASSED BY DFHTOM TO DFHPHP
(107)	BITSTRING	0	OSPDFMAL	"X'04'" PRE 1.6 MAPS ALIGNED
(107)	BITSTRING	0	OSPCUMAL	"X'02'" CURRENT MAP IS ALIGNED
(107)	BITSTRING	0	OSPNOMAP	"X'01'" BYPASS INPUT MAPPING - SET
(108)	BITSTRING	1	OSPIND04	OSPWA INDICATOR BYTE 04
(108)	BITSTRING	0	OSPDFHE	"X'80'" PRE R1.7 EDF MAP
(108)	BITSTRING	0	OSPNOSC	"X'40'" REMOVE SO/SI CHARS IN DATA BY MCP RECEIVE ROUTINE
(108)	BITSTRING	0	OSPSOSIM	"X'20'" SO/SI ATTRIBUTE EXISTENCE
(108)	BITSTRING	0	OSPFOLD	"X'10'" UPPER CASE TRANSLATION NEEDED
(108)	BITSTRING	0	OSPUEDIT	"X'08'" GLUE can be called
(109)	BITSTRING	1	OSPADISP	CURRENTLY ACTIVE DISPOSITION
(10A)	BITSTRING	1	OSPDDISP	DIRECT (ORIGINATING TERMINAL) DISPOSITION
(10B)	BITSTRING	1	OSPRDISP	ROUTING DISPOSITION
(10C)	HALFWORD	2	OSPMAL	MAP ATTRIBUTE LENGTH
(10E)	HALFWORD	2	OSPDAL	DATA STRUCTURE ATTRIBUTE LENGTH
(110)	HALFWORD	2	OSPMHLL	OFFSET TO FIRST MAP FIELD
(112)	BITSTRING	4	OSPPFWRK (0)	PAGE FORMATTING WORK AREA
OSPPFWRK'S FIELDS ARE SEQUENCE SENSITIVE TO THE FIELDS IN TTPPFWRK				

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(112)	BITSTRING	1	OSPPFCL	CURRENT LINE POINTER
(113)	BITSTRING	1	OSPPFNFL	NEXT AVAILABLE FULL LINE POINTER
(114)	BITSTRING	1	OSPPFNCL	NEXT AVAILABLE COLUMN FROM LEFT
(115)	BITSTRING	1	OSPPFNCR	NEXT AVAILABLE COLUMN FROM RIGHT
TERMINAL PAGE RETRIEVAL PROGRAM COMMAND BUILD AREA				
(115)		0	OSPTPCBA	"*"
(116)	BITSTRING	1	OSPTPCO1	COMMAND BYTE 1
(117)	BITSTRING	1	OSPTPCO2 (0)	COMMAND BYTE 2
(117)	BITSTRING	1	OSPTPPOS	POSITION BYTE (RETRIEVE, PURGE)
(118)	BITSTRING	1	OSPTPCHN	CHAIN NUMBER
(11A)	HALFWORD	2	OSPTPPAG	PAGE NUMBER
(11A)		0	OSPTPLEN	"*-OSPTPCBA" COMMAND BUILD AREA LENGTH
BMS RETURN INFORMATION				
(11A)		0	OSPRISTR	"*"
(11C)	BITSTRING	1	OSPRC1	RETURN CODE BYTE ONE
(11C)	BITSTRING	0	OSPRF	"X'80'" ROUTE FAILED - NO RESOLUTIONS
(11C)	BITSTRING	0	OSPRW	"X'40'" ROUTE WORKED - SOME RESOLUTIONS
(11C)	BITSTRING	0	OSPIET	"X'20'" INVALID ERROR TERMINAL
(11C)	BITSTRING	0	OSPMTL	"X'08'" MAP TOO LARGE
(11C)	BITSTRING	0	OSPCBM	"X'04'" I/O AREA CANNOT BE MAPPED
(11C)	BITSTRING	0	OSPRPI	"X'02'" PAGE RETURNED INDICATOR
(11C)	BITSTRING	0	OSPIR	"X'01'" INVALID REQUEST
	....		OSPNR1	"X'00'" NORMAL RESPONSE
(11D)	BITSTRING	1	OSPRC2	RETURN CODE BYTE TWO

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(11D)	BITSTRING	0	OSPTSIOE	"X'80'" TEMPORARY STORAGE I/O ERROR
(11D)	BITSTRING	0	OSPREQCD	"X'40'" REQUEST CHANGE DIRECTION ERROR
(11D)	BITSTRING	0	OSPUXI	"X'20'" UNEXPECTED INPUT
(11D)	BITSTRING	0	OSPIMN	"X'10'" INVALID LDC MNEMONIC
(11D)	BITSTRING	0	OSPIPS	"X'08'" INVALID PARTITION SET NAME
(11D)	BITSTRING	0	OSPIPN	"X'04'" INVALID PARTITION NAME
(11D)	BITSTRING	0	OSPIPF	"X'02'" PARTITION FAIL
(11D)	BITSTRING	0	OSPDSS	"X'01'" DATASET STATUS CHANGE
(11E)	BITSTRING	1	OSPRC3	RETURN CODE BYTE THREE
(11E)	BITSTRING	0	OSPIGRQI	"X'10'" SPECIFIED 'REQID' IGNORED
(11E)	BITSTRING	0	OSPEOC	"X'08'" END-OF-CHAIN IN LAST INPUT
(11E)	BITSTRING	0	OSPEODS	"X'04'" END-OF-DATA-SET LAST INPUT
(11E)	BITSTRING	0	OSPIFH	"X'02'" INBOUND FMH IN LAST INPUT
(11E)	BITSTRING	0	OSPOI	"X'01'" PAGEBLD OVERFLOW INDICATOR
(11F)	BITSTRING	1	OSPRI1	RETURN INFORMATION BYTE ONE CONTAINS TERMINAL CODE (TC)
(120)	BITSTRING	4	OSPPOF (0)	PAGEBLD OVERFLOW INFORMATION
(120)	BITSTRING	2	OSPPGN	CURRENT PAGE NUMBER
(122)	BITSTRING	2	OSPOCN	OVERFLOW CONTROL NUMBER

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(122)		0	OSPCRIE	"*" END TCA CONTIG RETURN INFO
(122)		0	OSPCRIL	"OSPCRIE-OSPRISTR" CONTIG RETURN INFO LENGTH
(124)	CHARACTER	2	OSPMSLDM	PARTNPAGE/LDC MNEMONIC
(126)	BITSTRING	1		RESERVED
(126)		0	OSPRIEND	"*"
(126)		0	OSPRILEN	"OSPRIEND-OSPRISTR" BMS RETURN INFORMATION LENGTH
REGISTER SAVE AREAS - PART TWO				
(128)	FULLWORD	4	OSPRSA (14)	APPLICATION PROGRAM REGISTER SAVE AREA
(160)	FULLWORD	4	OSPCPSA (14)	BMS CONTROL PROGRAM REGISTER SAVE AREA
(198)	CHARACTER	256	OSPTRTWA	TRT TABLE & WORK AREA
WORK AREAS AND STATUS DATA WHICH IS NOT CLEARED ON SEND PAGE OR PURGE MESSAGE				
(298)	FULLWORD	4	OSPLBR6	R6 VALUE AT LAST BLANK
(29C)	FULLWORD	4	OSPLBR8	R8 VALUE AT LAST BLANK
(2A0)	FULLWORD	4	OSPLBR9	R9 VALUE AT LAST BLANK
(2A4)	BITSTRING	1	OSPLBNCL	NEXT AVAILABLE COL FROM LEFT AT LAST BLANK
(2A5)	BITSTRING	3		RESERVED
(2A8)	ADDRESS	4	OSPCPSTP	ADDRESS OF INCORE PARTITION SET
(2AC)	CHARACTER	2	OSPINPNM	NAME OF ACTUAL INPUT PARTITION
(2AE)	CHARACTER	1	OSPINPID	PID OF ACTUAL INPUT PARTITION
(2AF)	CHARACTER	1	OSPRCODE	DFHPH RETURN CODE VALUE

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2B0)	HALFWORD	2	OSPRCVCT	RECEIVE MAP COUNT FOR EXPECTED INPUT PARTITION TRAP
(2B2)	CHARACTER	1	OSPXIPID	PID OF EXPECTED INPUT PARTITION
(2B4)	ADDRESS	4	OSPMCPIN	DFHMCPIN ENTRY ADDRESS
(2B8)	FULLWORD	4	OSPMLRG (8)	REGISTER SAVE AREA FOR ML1 SORT
(2D8)	ADDRESS	4	OSPMLNL	ADDR OF ML1 NEW LINE CHARACTER
(2DC)	ADDRESS	4	OSPMLTV	ADDRESS OF VERTICAL TABRACK
(2E0)	ADDRESS	4	OSPMLTH	ADDRESS OF HORIZONTAL TABRACK
(2E4)	BITSTRING	1	OSPMLCO	ML1 SAVE COLOR ATTRIBUTE
(2E5)	BITSTRING	1	OSPMLPS	RESERVED
(2E6)	BITSTRING	1	OSPMLSW	ML1 FLAGS
(2E6)	BITSTRING	0	OSPMLVB	"X'80'" VERTICAL TABS USED
(2E6)	BITSTRING	0	OSPMLHB	"X'40'" HORIZONTAL TABS USED
(2E7)	BITSTRING	1	OSPMLFR	ML1 SAVE OUTLINE ATTRIBUTE
(2E8)	ADDRESS	4	OSPMCBSV	MCB SAVE ADDRESS
(2EC)	HALFWORD	2	OSPMCAAP	OFFSET IN MCB OF APPLICATION PSET
(2EE)	CHARACTER	2	OSPTPPID	INPUT PID FOR TPR
(2F0)	HALFWORD	2	OSPTPTDL	INPUT DATA LENGTH (LESS 3270E INBOUND CONTROLS) FOR TPR
(2F4)	ADDRESS	4	OSPTPUDA	ADDRESS OF TPR INPUT DATA
(2F8)	CHARACTER	1	OSPTPAID	TPR INPUT AID
(2F9)	CHARACTER	1	OSPETBSV	SAVED IN TOM ATTR.STRIP
(2FA)	CHARACTER	2	OSPCPRTN	LAST PARTN= SLOT_VALUE

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2FC)	ADDRESS	4	OSPTOPTR	PTR-> INPUT MAPPING TIOA IN M32
(300)	ADDRESS	4	OSPCROSP	A(SAVED OSPWA), IF TPR USES BMS WHILE CTRL=RETAIN
(304)	ADDRESS	4	OSPOVTTP	OVERFLOW TTP
(308)	ADDRESS	4	OSPSVTTP	REQUEST TTP WHILE OFTTP IS CURRENT.
(30C)	CHARACTER	12	OSPLBXA (0)	
(30C)	BITSTRING	5	OSPLBX	EXTENDED ATTR VALUES AT BLANK
(311)	BITSTRING	7		RESERVED
(318)	FULLWORD	4	OSPDCRSA (6)	DOMAIN CALL REGISTER SAVE AREA
(330)	HALFWORD	2	OSPCUAMC	MODIFIED CURSOR POSITION
(332)	BITSTRING	1	OSPCUA	FLAG BYTE FOR CUA SUPPORT
(332)	BITSTRING	0	OSPCUACL	"X'80'" INDICATES CURSOR LOCATED
(332)	BITSTRING	0	OSPCUAEP	"X'40'" INDICATES END OF CUA PROCESSING
(332)	BITSTRING	0	OSPCUASR	"X'20'" INDICATES SHORT READ
(332)	BITSTRING	0	OSPCUAIF	"X'10'" INDICATES CUR IN THIS FLD
The following area accumulates 3270 data field information for the BMS global user exits. Changes to this area must be reflected in DFHMCPE & DFHXBMDS				
(334)	HALFWORD	2	BMXMAPCT	count of fields in map(s)
(336)	HALFWORD	2	BMXCOUNT	count of fields passed to GLUE for this request
(338)	HALFWORD	2	BMXINDEX	index to VALIDN attr value
(33C)	ADDRESS	4	BMXARRAY	address of field info array
(340)	ADDRESS	4	BMXNEXT	address of next element
(344)	HALFWORD	2	BMXELEM (0)	field info element
(344)	CHARACTER	8	BMXMAPST	mapset name
(34C)	CHARACTER	7	BMXMAP	map name

Table 505. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(353)	BITSTRING	1	BMXFDFB	field data flag byte
(354)	HALFWORD	2	BMXMAPLN	length of field in map
(356)	HALFWORD	2	BMXACTLN	length of data recvd/sent
(358)	ADDRESS	4	BMXDATA	address of field in TIOA
(35C)	ADDRESS	4	BMXATTR	address of attrs in TIOA
(360)	HALFWORD	2	BMXMAPOF	offset of field in MAP
(362)	HALFWORD	2	BMXBUF	offset of field in buffer
(362)		0	BMXLEN	"*-BMXELEM" length of element
(362)		0	BMXVAR	"*-BMXFDFB" length of variable info
(364)	CHARACTER	1	BMXINTAB (8)	internal array
(364)		0	OSPEND	"*" OSPWA END
(364)		0	OSPLEN	"OSPEND-OSPSTART" LENGTH OF OSPWA

PCE Program control EXEC argument list

```
CONTROL BLOCK NAME = DFHPCEDS
DESCRIPTIVE NAME  = CICS Program Control EXEC argument list
 @BANNER_START 02
                    DFHPCEDS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
PROGRAMMING INTERFACES
    The following fields are part of the Product-sensitive
    Programming Interface.
            PC_ADDR0
            PC_ADDR1
            PC_ADDR2
            PC_ADDR3
            PC_ADDR4
            PC_ADDR5
            PC_ADDR6
            PC_ADDR7
            PC_ADDR8
            PC_ADDR9
            PC_ADDRA
            PC_GROUP
            PC_FUNCT
            PC_BITS1
            PC_BITS2
            PC_EIDOPT5
            PC_EIDOPT6
            PC_PROGRAM
            PC_LENGTH
            PC_INPUTMSGLEN
            PC_DATALENGTH
```

```
                        PC_SYSID
                        PC_TRANSID
                        PC_CHANNEL
                   All equates for values of EIBRCODE, EIBRESP and EIBRESP2
                   form part of the General-purpose Programming Interface.
              FUNCTION =
                   To define fields that may be of use to Program Control
                   User Exits:-
                     (1) The Command Level Parameter List.
                     (2) EIBRCODE, EIBRESP and EIBRESP2 values.
                     (3) The application environment indicators
                   On entry to the XPCREQ and XPCREQC User exits, the EXEC
                   parameter list is pointed to by UEPCLPS. The EXEC
                   parameter list for program control consists of up to eleven
                   addresses.
                   The eleven addresses are defined by PC_ADDR0 to PC_ADDRA.
                   This DSECT defines PC_ADDR0 to PC_ADDRA and the areas
                   that they point to.
                   On entry to the XPCREQ and XPCREQC user exits, the copy
                   of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP
                   is pointed by UEPRESP and the copy of EIBRESP2 is pointed
                   to by UEPRESP2.
                   The address of an application environment flag byte pointed
                   to by UEPINDS is also passed to the user exit program. It
                   contains flags which are mapped by the PC_INDS DSECT. These
                   flags allow the exit program to decide whether the user
                   application can access storage above or below the 16M line
                   and which key such storage should be in, CICS or USER.
                   This copybook also contains equates for values of EIBRCODE,
                   EIBRESP and EIBRESP2 used by Program Control.
              LIFETIME = Lifetime of the PC command request
              STORAGE CLASS = As some of the storage being mapped is the
                              translated source in the user's application program,
                              the storage may be either above or below the line.
              LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.
                         (2) Fields copied from the EIB are addressed by
                             UEPRCODE, UEPRESP and UEPRESP2.
                         (3) The exit token is addressed by UEPCCTOK
              INNER CONTROL BLOCKS =
                   PC_ADDR_LIST declares the EXEC addresses
                   PC_EID defines Argument 0 pointed to by PC_ADDR0
              NOTES :
               DEPENDENCIES = S/370 ESA
               RESTRICTIONS = None
               MODULE TYPE = Control Block definition
          ----------------------------------------------------------------------
          ----------------------------------------------------------------------
              The Command Parameter List
          PC_ADDR_LIST defines eleven addresses, that form the EXEC
          parameter list for Program Control.
          In addition, PC_ADDR1 to PC_ADDR8 and PC_ADDRA may be modified
          by a user exit.
          PC_ADDR9 is not used.
          Any attempt to modify PC_ADDR0 will be ignored.
```

Table 506.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	PC_ADDR_LIST	EXEC Parameter List
(0)	ADDRESS	4	PC_ADDR0	Address 0
(4)	ADDRESS	4	PC_ADDR1	Address 1
(8)	ADDRESS	4	PC_ADDR2	Address 2
(C)	ADDRESS	4	PC_ADDR3	Address 3
(10)	ADDRESS	4	PC_ADDR4	Address 4

Offset Hex	Type	Len	Name (dim)	Description
(14)	ADDRESS	4	PC_ADDR5	Address 5
(18)	ADDRESS	4	PC_ADDR6	Address 6
(1C)	ADDRESS	4	PC_ADDR7	Address 7
(20)	ADDRESS	4	PC_ADDR8	Address 8
(24)	ADDRESS	4	PC_ADDR9	Address 9
(28)	ADDRESS	4	PC_ADDRA	Address 10
(28)		0	PC_ADDR_LIST_LEN	"*-PC_ADDR_LIST"

```
PC_EID defines:
  (1) The type of request
  (2) Existence bits indicating which addresses in the EXEC
      Parameter List are valid.
  (3) Bits to indicate the keywords specified.
PC_ADDR0 contains the address of PC_EID.
The following bits may be modified in a Program Control user exit.
  (1) Existence bits PC_EXIST2,
                     PC_EXIST3,
                     PC_EXIST4,
                     PC_EXIST5,
                     PC_EXIST6,
                     PC_EXIST7,
                     PC_EXIST8 and
                     PC_EXISTA
  (2) The keyword descriptor PC_SYNCONRET_X.
Any attempt to modify any other part of PC_EID will be ignored.
```

Table 507.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	PC_EID	Argument 0 for Program Control
(0)	CHARACTER	1	PC_GROUP	Group Code
(0)	BITSTRING	0	PC_PROGRAM_GRP	"X'0E'" All Program Control Requests ...
(1)	CHARACTER	1	PC_FUNCT	Function Code
(1)	BITSTRING	0	PC_LINK	"X'02'" LINK Request
The next two bytes contain existence bits for the addresses in the EXEC parameter list. For example, PC_ADDR1 should not be used unless PC_EXIST1 is set on. PC_ADDR0 is always valid and has no existence bit.				
(2)	BITSTRING	1	PC_BITS1	First 8 existence bits
(2)	BITSTRING	0	PC_EXIST1	"X'80'" PC_ADDR1 is valid if the command specifies PROGRAM.
(2)	BITSTRING	0	PC_EXIST2	"X'40'" PC_ADDR2 is valid if the command specifies COMMAREA. This bit may be modified by a user exit.

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	BITSTRING	0	PC_EXIST3	"X'20'" PC_ADDR3 is valid if the command specifies LENGTH. This bit may be modified by a user exit.
(2)	BITSTRING	0	PC_EXIST4	"X'10'" PC_ADDR4 is valid if the command specifies INPUTMSG. This bit may be modified by a user exit.
(2)	BITSTRING	0	PC_EXIST5	"X'08'" PC_ADDR5 is valid if the command specifies INPUTMSGLEN. This bit may be modified by a user exit.
(2)	BITSTRING	0	PC_EXIST6	"X'04'" PC_ADDR6 is valid if the command specifies DATALENGTH. This bit may be modified by a user exit.
(2)	BITSTRING	0	PC_EXIST7	"X'02'" PC_ADDR7 is valid if the command specifies SYSID. This bit may be modified by a user exit.
(2)	BITSTRING	0	PC_EXIST8	"X'01'" PC_ADDR8 is valid if the command specifies TRANSID. This bit may be modified by a user exit.
(3)	BITSTRING	1	PC_BITS2	Second eight existence bits
(3)	BITSTRING	0	PC_EXIST9	"X'80'" This bit is not used
(3)	BITSTRING	0	PC_EXISTA	"X'40'" PC_ADDRA is valid if the command specifies CHANNEL. This bit may be modified by a user exit.
The next byte is reserved.				
(4)	BITSTRING	1	PC_EIDOPT4	Reserved
The next 2 bytes describe the keywords on the command For example, if PC_SYNCONRET_X is set on, the command included the SYNCONRETURN keyword. If PC_SYNCONRET_X is set off, the command did not include the SYNCONRETURN keyword.				

Table 507. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5)	BITSTRING	1	PC_EIDOPT5	Options Byte 1
(6)	BITSTRING	1	PC_EIDOPT6	Options byte 2
(6)	BITSTRING	0	PC_SYNCONRET_X	"X'80'" SYNCONRETURN specified

```
      The following definitions define the variables addressed by the
      remainder of the EXEC parameter list
         PC_ADDR1 addresses program name
```

Table 508.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	PC_DATA1	Addressed by PC_ADDR1
(0)	CHARACTER	8	PC_PROGRAM	program name

```
      PC_ADDR2 addresses the COMMAREA whose length is given
                 in PC_ADDR3
      PC_ADDR3 addresses the length of the COMMAREA
```

Table 509.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	PC_DATA3	Addressed by PC_ADDR3
(0)	HALFWORD	2	PC_LENGTH	Value of LENGTH

```
      PC_ADDR4 addresses the INPUTMSG whose length is given
                 in PC_ADDR5
      PC_ADDR5 addresses the length of the INPUTMSG
```

Table 510.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	PC_DATA5	Addressed by PC_ADDR5
(0)	HALFWORD	2	PC_INPUTMSGLEN	Area for LENGTH of INPUTMSG

```
      PC_ADDR6 addresses length of COMMAREA to be sent
```

Table 511.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	PC_DATA6	Addressed by PC_ADDR6
(0)	HALFWORD	2	PC_DATALENGTH	Area For DATALENGTH

```
      PC_ADDR7 addresses SYSID
```

Table 512.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	PC_DATA7	Addressed by PC_ADDR7
(0)	CHARACTER	4	PC_SYSID	Area For SYSID

```
PC_ADDR8 addresses TRANSID
```

Table 513.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	PC_DATA8	Addressed by PC_ADDR8
(0)	CHARACTER	4	PC_TRANSID	Area For TRANSID

```
PC_ADDRA addresses CHANNEL
```

Table 514.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	PC_DATAA	Addressed by PC_ADDRA
(0)	CHARACTER	16	PC_CHANNEL	Area For CHANNEL name
Start of general use programming interface. EIBRCODE, EIBRESP and EIBRESP2 Equates for EIBRCODE values used by Program Control				
(10)	BITSTRING	6	PC_OK_EIBRCODE	OK
(10)	BITSTRING	0	PC_PGMIDERR_ EIBRCODE	
				"X'01'"
(10)	BITSTRING	0	PC_CHANNELERR_ EIBRCODE	
				"X'7A'"
(10)	BITSTRING	0	PC_SYSIDERR_ EIBRCODE	
				"X'D0'"
(10)	BITSTRING	0	PC_INVREQ_ EIBRCODE	"X'E0'"
(10)	BITSTRING	0	PC_LENGERR_ EIBRCODE	
				"X'E1'"
(10)	BITSTRING	0	PC_TERMERR_ EIBRCODE	
				"X'F1'"
(10)	BITSTRING	0	PC_RESUNAVAIL_ EIBRCODE	
				"X'D9'"
Equates for EIBRESP values used by Program Control				
	....		PC_OK_EIBRESP	"0" OK

Table 514. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	SIGNED	0	PC_INVREQ_ EIBRESP	"16" invalid request
(10)	SIGNED	0	PC_LENGERR_ EIBRESP	"22" length error
(10)	SIGNED	0	PC_PGMIDERR_ EIBRESP	
				"27" program id error
(10)	SIGNED	0	PC_SYSIDERR_ EIBRESP	
				"53" system id error
(10)	SIGNED	0	PC_NOTAUTH_ EIBRESP	"70" not authorised
(10)	SIGNED	0	PC_TERMERR_ EIBRESP	"81" terminal error
(10)	SIGNED	0	PC_RESUNAVAIL_ EIBRESP	
				"121" Resource unavailable
(10)	SIGNED	0	PC_CHANNELERR_ EIBRESP	
				"122" Channel error
Equates for EIBRESP2 values used by Program Control				
	....		PC_OK_EIBRESP2	"0" OK
(10)	SIGNED	0	PC_CHANNELERR_ EIBRESP2	
				"1" Invalid CHANNEL name
(10)	SIGNED	0	PC_PGMIDERR_ 1_EIBRESP2	
				"1" PPT entry not located
(10)	SIGNED	0	PC_PGMIDERR_ 2_EIBRESP2	
				"2" program disabled
(10)	SIGNED	0	PC_PGMIDERR_ 3_EIBRESP2	
				"3" program not found in load library
(10)	SIGNED	0	PC_INVREQ_ 1_EIBRESP2	
				"8" INPUTMSG without terminal
(10)	SIGNED	0	PC_LENGERR_ 1_EIBRESP2	
				"11" LENGTH < 0

Table 514. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	SIGNED	0	PC_LENGERR_ 2_EIBRESP2	
				"12" DATALENGTH < 0
(10)	SIGNED	0	PC_LENGERR_ 3_EIBRESP2	
				"13" DATALENGTH > LENGTH
(10)	SIGNED	0	PC_INVREQ_ 2_EIBRESP2	
				"14" SYNCONRETURN invalid
(10)	SIGNED	0	PC_INVREQ_ 3_EIBRESP2	
				"15" TRANSID invalid
(10)	SIGNED	0	PC_INVREQ_ 4_EIBRESP2	
				"16" TRANSID blank
(10)	SIGNED	0	PC_TERMERR_ 1_EIBRESP2	
				"17" TERMERR raised
(10)	SIGNED	0	PC_SYSIDERR_ 1_EIBRESP2	
				"18" SYSIDERR raised
(10)	SIGNED	0	PC_INVREQ_ 5_EIBRESP2	
				"19" INPUTMSG specified on DPL request
(10)	SIGNED	0	PC_SYSIDERR_ 2_EIBRESP2	
				"20" DPL not supported over LU6.1
(10)	SIGNED	0	PC_SYSIDERR_ 3_EIBRESP2	
				"21" Type of request not supported by receiver e.g. LINK CHANNEL to be executed a CICS that does not support CHANNEL
(10)	SIGNED	0	PC_NOTAUTH_ 1_EIBRESP2	
				"101" resource security check failed

Table 514. (continued)

Offset Hex	Type	Len	Name (dim)	Description
End of general use programming interface.				

PEP Program error program commarea

```
Module Name = DFHPCOMS
Descriptive Name  = Commarea for User Program Error Program
@BANNER_START 02
                         DFHPCOMS
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
Function =
     Commarea for PEP; created by DFHACP, passed to User PEP
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = none
 Patch Label = none
 Module Type = copy
 Attributes = copy
------------------------------------------------------------------
Entry Point = none
  Purpose = copybook
  Linkage = none
  Input = none
  Output = none
  Exit-normal = none
  Exit-error = none
------------------------------------------------------------------
External References =
  Routines =
  Data Areas = none
  Control Blocks = none
  Global Variables = none
Tables = none
Macros =
------------------------------------------------------------------
Description
  Copybook for Commarea for User's Program Error Program
------------------------------------------------------------------
```

Table 515.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	196	DFHPEP_COMMAREA	
Standard header section				
(0)	CHARACTER	4	PEP_COM_STANDARD	
(0)	CHARACTER	1	PEP_COM_ FUNCTION	always '1'
(1)	CHARACTER	2	PEP_COM_ COMPONENT	always 'PC'
(3)	CHARACTER	1	PEP_COM_ RESERVED	Reserved
Abend codes and EIB				

Table 515. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	CHARACTER	4	PEP_COM_ CURRENT_ ABEND_CODE	
				current abcode
(8)	CHARACTER	4	PEP_COM_ ORIGINAL_ ABEND_CODE	
				original abcode
(C)	CHARACTER	85	PEP_COM_ USERS_EIB	EIB at abend
Debugging information				
(64)	CHARACTER	84	PEP_COM_DEBUG	
(64)	CHARACTER	8	PEP_COM_ ABPROGRAM	ABENDing program
(6C)	CHARACTER	8	PEP_COM_PSW	PSW at abend
(74)	UNSIGNED	4	PEP_COM_ REGISTERS (4294967312:130365200)	regs at abend
(B4)	UNSIGNED	1	PEP_COM_KEY	execution key in form x'0n' (ASRA and ASRB)
(B5)	UNSIGNED	1	PEP_COM_ STORAGE_HIT	
				storage hit by 0C4 (ASRA only)
(B6)	UNSIGNED	1	PEP_COM_SPACE	sub/basespce
(B7)	CHARACTER	1	PEP_COM_PADDING	Reserved
Return code - return ok or disable transaction				
(B8)	UNSIGNED	4	PEP_COM_ RETURN_CODE	
Additional PSW EC mode information				
(BC)	CHARACTER	8	PEP_COM_INT	PSW interrupt codes

Constants

Table 516.

Len	Type	value	Name	Description
PEP_COM_RETURN_CODE values				
4	DECIMAL	4	PEP_COM_RETURN_ DISABLE	
				disable
4	DECIMAL	0	PEP_COM_RETURN_OK	ok
PEP_COM_STORAGE_HIT values				
1	DECIMAL	0	PEP_COM_NO_HIT	No hit or no 0C4
1	DECIMAL	1	PEP_COM_CDSA_HIT	CDSA hit

Table 516. (continued)

Len	Type	value	Name	Description
1	DECIMAL	2	PEP_COM_ECDSA_HIT	ECDSA hit
1	DECIMAL	3	PEP_COM_ERDSA_HIT	ERDSA hit
1	DECIMAL	4	PEP_COM_RDSA_HIT	RDSA hit
1	DECIMAL	5	PEP_COM_EUDSA_HIT	EUDSA hit
1	DECIMAL	6	PEP_COM_UDSA_HIT	UDSA hit
PEP_COM_KEY values				
1	DECIMAL	9	PEP_COM_USER_KEY	USER key
1	DECIMAL	8	PEP_COM_CICS_KEY	CICS key
PEP_COM_SPACE_ACTIVE values				
1	DECIMAL	10	PEP_COM_SUBSPACE	Error in s/space
1	DECIMAL	11	PEP_COM_BASESPACE	Error in b/space

PCUES Program control user exits DSECT

```
CONTROL BLOCK NAME = DFHPCUES
DESCRIPTIVE NAME  = CICS Program control user exits DSECT
 @BANNER_START 02
                     DFHPCUES
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
      This data block describes the fields passed to the program
      control user exits XPCFTCH, XPCTA and XPCHAIR. .
      The storage is acquired, and the fields filled, in DFHLI1.
LIFETIME = The storage area is created when an enabled program
      control exit is called and released when control is
      returned from the exit to program control.
LOCATION =
      The storage is in GETMAINed in DFHLI1.
 INNER CONTROL BLOCKS = none
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
  MODULE TYPE = Control block definition
 ----------------------------------------------------------------
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = none
 GLOBAL VARIABLES (Macro pass) = none
 ----------------------------------------------------------------
```

Table 517.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	80	DFHPCUES	program conrol user exits work area
(0)	HALFWORD	2	PCUE_LENGTH_OF_DSECT	
(2)	BIT(8)	1	PCUE_CONTROL_BITS	
	1...		PCUECBTE	task has a terminal id

Table 517. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		PCUENOTX	program is not EXEC level
	..1.		PCUE_REAL	real entry point exists
	...1		PCUE_NO_RESUME	Resume addr not supported
	.... 1...		PCUE_NO_MODIFY	Modified entry addr not supported
	.... .111		*	reserved
(3)	BIT(8)	1	*	reserved
(4)	CHARACTER	3	PCUE_TASK_NUMBER	task identification number
(7)	CHARACTER	1	*	reserved
(8)	CHARACTER	4	PCUE_TRANSACTION_ ID	
				Transaction ID
(C)	CHARACTER	4	PCUE_TERMINAL_ID	Terminal ID
(10)	CHARACTER	8	PCUE_PROGRAM_ NAME	Program name
(18)	CHARACTER	3	PCUE_PROGRAM_ LANGUAGE	
				Program language
(1B)	CHARACTER	1	*	reserved
(1C)	ADDRESS	4	PCUE_LOAD_POINT	Program load address
(20)	ADDRESS	4	PCUE_ENTRY_POINT	Program entry point addr
	1...		PCUEAMOD	AMODE (31)
(20)	BIT(31) POS(2)	4	*	
(24)	FULLWORD	4	PCUE_PROGRAM_ SIZE	Program size
(28)	ADDRESS	4	PCUE_COMMAREA_ ADDRESS	
				Commarea address, if any
(2C)	FULLWORD	4	PCUE_COMMAREA_ SIZE	Commarea size
(30)	FULLWORD	4	PCUE_LOGICAL_ LEVEL	chained DFHRSADS
(34)	ADDRESS	4	PCUE_BRANCH_ ADDRESS	
				Alternate branch address
	1...		PCUE_BRANCH_ AMODE	AMODE of program at branch
(34)	BIT(31) POS(2)	4	*	

Table 517. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	BIT(8)	1	PCUE_BRANCH_ EXECKEY	
				Execution key to be used at modified address
(39)	CHARACTER	3	*	Reserved
(3C)	ADDRESS	4	PCUE_REAL_ENTRY	Real entry point for LE program
(40)	CHARACTER	16	PCUE_CHANNEL_ NAME	Channel name

Constants

Table 518.

Len	Type	value	Name	Description
Constants used by XPCFTCH, XPCHAIR and XPCTA				
1	HEX	80	PCUE_BRANCH_USER	User Key, for XPCTA
1	HEX	40	PCUE_BRANCH_CICS	CICS Key, for XPCTA

PGACC Program Manager Autoinstall Commarea

```
CONTROL BLOCK NAME = DFHPGACC
DESCRIPTIVE NAME  = CICS/ESA (PG) Program Manager Autoinstall
                                    exit program parameter list
 @BANNER_START 02
                          DFHPGACC
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = Defines the commarea passed by the Program Manager
         autoinstall function to the autoinstall exit program.
         The PGAC control block belongs to the Program Manager (PG)
         domain. The control block is used to pass the name of the
         program and the module type to the exit program and enables
         the user to return information for the program to be
         autoinstalled. Storage for the control block is obtained
         by the autoinstall function (DFHPGAI).
LIFETIME =
         The control block is created when the autoinstall function
         (DFHPGAI) is called. The storage is released on return
         from the autoinstall function.
STORAGE CLASS =
         The control block uses the automatic storage for DFHPGAI.
         This storage is above the line.
LOCATION =
         In the automatic storage for DFHPGAI at the label PGAC.
         The address and length of the control block are passed
         to the program autoinstall exit program via the commarea.
NOTES :
         This control block is provided as a sample and is not to be
         used as a general programming interface. Refer to the
         CICS/ESA Customisation Guide to determine its intended
         usage.
         Matching COBOL control block is DFHPGACO
```

```
      Matching C control block is DFHPGACH
        The control block includes the following fields:
      Input fields:
      PGAC_PROGRAM - name of program to be autoinstalled
      PGAC_MODULE_TYPE - program, mapset or partitionset
      Output fields:
      PGAC_MODEL_NAME - autoinstall model program name
      PGAC_LANGUAGE - assembler, cobol, C370, LE370, PL/I
      PGAC_CEDF_STATUS - cedf status, yes or no
      PGAC_DATA_LOCATION - data location, below or any
      PGAC_EXECUTION_KEY - execution key, CICS or user
      PGAC_LOAD_ATTRIBUTE - reload, transient, resident, reusable
      PGAC_USE_LPA_COPY - use LPA copy, yes or no
      PGAC_EXECUTION_SET - use DPL subset or full API
      PGAC_REMOTE_SYSID - remote system ID
      PGAC_REMOTE_PROGID - remote program name
      PGAC_REMOTE_TRANSID - remote transaction ID
      PGAC_DYNAMIC_STATUS - DPL dynamic or not dynamic
      PGAC_CONCURRENCY - QUASIRENT or THREADSAFE
      PGAC_API - CICSAPI or OPENAPI
      PGAC_JVM - the program is to be run under the JVM
      PGAC_JVM_CLASS_LENGTH - length of JVM class name data
      PGAC_JVM_CLASS_DATA - the JVM class name data
      PGAC_JVM_PROFID - the JVM profile member name
      PGAC_RETURN_CODE - OK, or don't define the program
      The return fields are initialized to blank on entry to the
      autoinstall exit program.
   DEPENDENCIES = S/390
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
  ------------------------------------------------------------------
   EXTERNAL REFERENCES = None
    DATA AREAS = No fields in the operating system data areas
          are referenced.
    CONTROL BLOCKS = No reference to other control blocks.
  ------------------------------------------------------------------
```

Table 519.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	312	PGAC	
(0)	CHARACTER	8	PGAC_PROGRAM	
(8)	CHARACTER	1	PGAC_MODULE_TYPE	
(9)	CHARACTER	34	PGAC_RETURN_ INFORMATION	
(9)	CHARACTER	8	PGAC_MODEL_NAME	
(11)	CHARACTER	1	PGAC_LANGUAGE	
(12)	CHARACTER	1	PGAC_CEDF_ STATUS	
(13)	CHARACTER	1	PGAC_DATA_ LOCATION	
(14)	CHARACTER	1	PGAC_EXECUTION_ KEY	
(15)	CHARACTER	1	PGAC_LOAD_ ATTRIBUTE	
(16)	CHARACTER	1	PGAC_USE_ LPA_COPY	
(17)	CHARACTER	1	PGAC_EXECUTION_ SET	

Table 519. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER	4	PGAC_REMOTE_ SYSID	
(1C)	CHARACTER	8	PGAC_REMOTE_ PROGID	
(24)	CHARACTER	4	PGAC_REMOTE_ TRANSID	
(28)	CHARACTER	1	PGAC_RETURN_ CODE	
(29)	CHARACTER	1	PGAC_DYNAMIC_ STATUS	
(2A)	CHARACTER	1	PGAC_CONCURRENCY	
Java return information				
(2B)	CHARACTER	1	PGAC_JVM	
(2C)	HALFWORD	2	PGAC_JVM_ CLASS_LEN	
(2E)	CHARACTER	256	PGAC_JVM_ CLASS_DATA	
(12E)	CHARACTER	1	*	reserved
(12F)	CHARACTER	8	PGAC_JVM_PROFID	
(137)	CHARACTER	1	PGAC_RETURN_ INFORMATION2	
(137)	CHARACTER	1	PGAC_API	

Constants

Table 520.

Len	Type	value	Name	Description
Constants for module type.				
1	CHARACTER	1	PGAC_TYPE_PROGRAM	
1	CHARACTER	2	PGAC_TYPE_MAPSET	
1	CHARACTER	3	PGAC_TYPE_ PARTITIONSET	
Constants for language.				
1	CHARACTER	1	PGAC_ASSEMBLER	
1	CHARACTER	2	PGAC_COBOL	
1	CHARACTER	3	PGAC_PLI	
1	CHARACTER	4	PGAC_C370	
1	CHARACTER	5	PGAC_LE370	
Constants for CEDF status.				
1	CHARACTER	1	PGAC_CEDF_YES	
1	CHARACTER	2	PGAC_CEDF_NO	
Constants for data location.				

Table 520. (continued)

Len	Type	value	Name	Description
1	CHARACTER	1	PGAC_LOCATION_ BELOW	
1	CHARACTER	2	PGAC_LOCATION_ANY	
Constants for execution key.				
1	CHARACTER	1	PGAC_CICS_KEY	
1	CHARACTER	2	PGAC_USER_KEY	
Constants for load attribute.				
1	CHARACTER	1	PGAC_RELOAD	
1	CHARACTER	2	PGAC_RESIDENT	
1	CHARACTER	3	PGAC_TRANSIENT	
1	CHARACTER	4	PGAC_REUSABLE	
Constants for LPA status.				
1	CHARACTER	1	PGAC_LPA_YES	
1	CHARACTER	2	PGAC_LPA_NO	
Constants for execution set.				
1	CHARACTER	1	PGAC_DPLSUBSET	
1	CHARACTER	2	PGAC_FULLAPI	
Constants for DYNAMIC status.				
1	CHARACTER	1	PGAC_DYNAMIC_YES	
1	CHARACTER	2	PGAC_DYNAMIC_NO	
Constants for CONCURRENCY				
1	CHARACTER	1	PGAC_QUASIRENT	
1	CHARACTER	2	PGAC_THREADSAFE	
1	CHARACTER	3	PGAC_REQUIRED	
Constants for API				
1	CHARACTER	1	PGAC_CICSAPI	
1	CHARACTER	2	PGAC_OPENAPI	
Constants for JVM				
1	CHARACTER	1	PGAC_JVM_YES	
1	CHARACTER	2	PGAC_JVM_NO	
Constants for the return code.				
1	CHARACTER	1	PGAC_RETURN_OK	
1	CHARACTER	2	PGAC_RETURN_ DONT_DEFINE_PROGRAM	

PGA BMS page control area DSECT

```
MODULE NAME = DFHPGADS
DESCRIPTIVE NAME  = CICS BMS PAGE CONTROL AREA DSECT
  @BANNER_START 02

                        DFHPGADS
```

```
                     Licensed Materials - Property of IBM
                     "Restricted Materials of IBM"
                     5655-S97
                     @BANNER_END
              FUNCTION = DEFINE THE BMS PAGE CONTROL AREA. THIS IS APPENDED
                        BY DFHTPP TO THE END OF A PAGE OF DATASTREAM. TIOATDL
                        EXCLUDES THE PGA, AND CAN THEREFORE BE USED TO ADDRESS
                        IT.
                        THE PGA CONTAINS THE WCC AND ERASE FLAG FOR THE PAGE,
                        AND INDICATES WHICH EXTENDED ATTRIBUTES ARE USED IN
                        THIS PAGE.
              NOTES :
               DEPENDENCIES = S/370
               RESTRICTIONS = NONE
               REGISTER CONVENTIONS = SEE COMMENTS IN CODE
               PATCH LABEL = NOT APPLICABLE
               MODULE TYPE = DSECT
               MODULE SIZE = NOT APPLICABLE
               ATTRIBUTES = NOT APPLICABLE
              ENTRY POINT = NOT APPLICABLE
               PURPOSE = SEE FUNCTION
               LINKAGE = NOT APPLICABLE
              INPUT = NOT APPLICABLE
              OUTPUT = NOT APPLICABLE
              EXIT-NORMAL = NOT APPLICABLE
              EXIT-ERROR = NOT APPLICABLE
              EXTERNAL REFERENCES = NONE
               CONTROL BLOCKS = NOT APPLICABLE
               TABLES = NOT APPLICABLE
              MACROS = NONE
```

Table 521.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHPGADS	DUMMY SECTION-PAGE CONTROL AREA @ NO BASE REGISTER ESTABLISHED
(0)	BITSTRING	1	PGAEAUS2	KJ EXT ATTRS USED IN PAGE BIT SETTINGS ARE AS FOR TTPEAUS2
(1)	BITSTRING	1	PGAEAUSE	EXTENDED ATTRS USED IN PAGE BIT SETTINGS ARE AS FOR TTPEAUSE
(2)	BITSTRING	1	PGAFLAG	PAGE CONTROL FLAG @
(2)	BITSTRING	0	PGAERASE	"X'80'" ...ERASE WITH WRITE @
(2)	BITSTRING	0	PGAOBFYS	"X'40'" ...OBF USED IN THIS PAGE
(2)	BITSTRING	0	PGAFF	"X'40'" ...FORM FEED ON THIS PAGE
(2)	BITSTRING	0	PGAML1	"X'20'" ...ML1 FORMATTED THIS PAGE
(2)	BITSTRING	0	PGA16BIT	"X'04'" ...14- OR 16-BIT SBAS

Table 521. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	BITSTRING	0	PGAWSFYS	"X'02'" ...WSF NEEDED FOR THIS PAGE
(2)	BITSTRING	0	PGAFMHYS	"X'01'" ...FMH PRESENT IN THIS PAGE
(3)	BITSTRING	1	PGAWCC	3270 WRITE CONTROL CHARACTER @
(3)		0	PGAEND	"*" END OF PAGE CONTROL AREA @
(3)		0	PGALEN	"PGAEND-DFHPGADS" LENGTH OF DSECT @

PGDDS Program Definition Resource Statistics

```
CONTROL BLOCK NAME = DFHPGDDS
DESCRIPTIVE NAME  = CICS Programdef (PG Domain) Statistics
   @BANNER_START 02

                         DFHPGDDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
        This data area contains the Programdef statistics provided
        by the PG Domain.
        It is provided for use in users monitoring applications
        to map the statistics returned via the API or the
        statistics global user exit.
        There is a single instance of this data block.
LIFETIME =
        This data block is created by the PG Domain to store
        statistics to be passed to the user in response to a
        request for PROGRAMDEF statistics. The storage is released
        when the user task is detached.
        The DSECT also maps the contents of part of the SMF buffer
        created by the statistics domain and is used in the
        statistics exit.
STORAGE CLASS =
LOCATION =
        The user is passed a pointer to the head of the storage
        block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 ----------------------------------------------------------------
```

Table 522.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHPGDDS	Programdef Resid stats record

Table 522. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	PGDDS_LEN	Programdef stats record length
(2)	ADDRESS	2	PGDDS_ID	Programdef stats id
(4)	CHARACTER	1	PGDDS_VERS	Programdef stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	PGD_PROGRAM_NAME	Program Name
(10)	BITSTRING	1	PGD_PROGRAM_TYPE	Program Type
(11)	BITSTRING	1	PGD_PROGRAM_ EXEC_KEY	
				Program CICS/USER key
(12)	BITSTRING	1	PGD_PROGRAM_ DATA_LOC	
				Program Data Location
(13)	BITSTRING	1	PGD_PROGRAM_ EXECUTION_SET	
				Program Execution Set
(14)	CHARACTER	4		Reserved
(18)	BITSTRING	1	PGD_PROGRAM_ LANG_DEDUCED	
				Program Language Deduced
(19)	BITSTRING	1	PGD_PROGRAM_ LANGUAGE	
				Program Language
(1A)	BITSTRING	1	PGD_PROGRAM_ RUNTIME_ENV	
				Program Runtime Environment
(1B)	CHARACTER	5		Reserved
(20)	BITSTRING	1	PGD_PROGRAM_ CONCURRENCY	
				Program Concurrency
(21)	BITSTRING	1	PGD_PROGRAM_API	Program API
(22)	CHARACTER	3		Reserved
(25)	BITSTRING	1	PGD_PROGRAM_ REMOTE	Program Remote
(26)	BITSTRING	1	PGD_PROGRAM_ DYNAMIC	
				Program Dynamic
(27)	BITSTRING	1	PGD_PROGRAM_JVM	Program JVM
(28)	CHARACTER	4		Reserved

Table 522. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	CHARACTER	8	PGD_PROGRAM_ REMOTE_NAME	
				Remote Program name
(34)	CHARACTER	4	PGD_PROGRAM_ TRAN_ID	
				Remote Transaction ID
(38)	CHARACTER	4	PGD_PROGRAM_ REMOTE_SYSID	
				Remote System name
(3C)	CHARACTER	4		Reserved
(40)	CHARACTER	8	PGD_PROGRAM_ JVMPROFILE	
				Program JVM Profile Name
(48)	CHARACTER	8	PGD_PROGRAM_ JVMSERVER	
				Program JVM Server Name
(50)	CHARACTER	8		Reserved
(58)	CHARACTER	8	PGD_PROGRAM_ DEFINE_SOURCE	
				Group installed from
(60)	BITSTRING	8	PGD_PROGRAM_ CHANGE_TIME	
				Change/create time
(68)	CHARACTER	8	PGD_PROGRAM_ CHANGE_USERID	
				Change userid
(70)	BITSTRING	2	PGD_PROGRAM_ CHANGE_AGENT	
				Change agent
(72)	BITSTRING	2	PGD_PROGRAM_ INSTALL_AGENT	
				Install agent
(74)	BITSTRING	8	PGD_PROGRAM_ INSTALL_TIME	
				Install/Create time
(7C)	CHARACTER	8	PGD_PROGRAM_ INSTALL_USERID	
				Install userid
(84)	BITSTRING	4		Reserved
(84)		0	PGDDS_END	"*"

Table 522. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)		0	PGDDS_LENGTH	"*-PGDDS_LEN" Programdef record length
Constants that denote a PG Programdef stats record				
(84)	SIGNED	0	PGD_IDR	"120" Programdef resid stats id
(84)	BITSTRING	0	PGD_VERS	"X'01'" Record version number
Equates for testing PGD_PROGRAM_TYPE				
(84)	SIGNED	0	PGD_TYPE_PROGRAM	"1" Program
(84)	SIGNED	0	PGD_TYPE_MAPSET	"2" Mapset
(84)	SIGNED	0	PGD_TYPE_ PARTITIONSET	
				"3" Partitionset
Equates for testing PGD_PROGRAM_EXEC_KEY				
	....		PGD_EXEC_ KEY_NOTAPPLIC	
				"0" Exec key Notapplic
(84)	SIGNED	0	PGD_EXEC_ KEY_CICS	"1" CICS exec key
(84)	SIGNED	0	PGD_EXEC_ KEY_USER	"2" USER exec key
Equates for testing PGD_PROGRAM_DATA_LOC				
	....		PGD_DATA_ LOC_NOTAPPLIC	
				"0" Dataloc Notapplic
(84)	SIGNED	0	PGD_DATA_ LOC_BELOW	"1" Dataloc Below
(84)	SIGNED	0	PGD_DATA_LOC_ANY	"2" Dataloc Any
Equates for testing PGD_PROGRAM_EXECUTION_SET				
	....		PGD_EXEC_ SET_NOTAPPLIC	
				"0" Execution set Notapplic
(84)	SIGNED	0	PGD_EXEC_ SET_DPLSUBSET	
				"1" Execution set DPL subset
(84)	SIGNED	0	PGD_EXEC_ SET_FULLAPI	
				"2" Execution set Full API
Equates for testing PGD_PROGRAM_LANG_DEDUCED				

Table 522. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	....		PGD_LANG_ NOTAPPLIC	"0" Language deduced Notapplic
(84)	SIGNED	0	PGD_LANG_ NOT_DEDUCED	
				"1" Language not deduced
(84)	SIGNED	0	PGD_LANG_ NOT_DEFINED	
				"2" Language not defined
(84)	SIGNED	0	PGD_LANG_ ASSEMBLER	"3" Language Assembler
(84)	SIGNED	0	PGD_LANG_C	"4" Language C
(84)	SIGNED	0	PGD_LANG_COBOL	"5" Language COBOL
(84)	SIGNED	0	PGD_LANG_LE	"6" Language LE
(84)	SIGNED	0	PGD_LANG_PLI	"7" Language PL1
(84)	SIGNED	0	PGD_LANG_JAVA	"8" Language JAVA
Equates for testing PGD_PROGRAM_LANGUAGE				
	....		PGD_LANGUAGE_ NOTAPPLIC	
				"0" Language Notapplic
(84)	SIGNED	0	PGD_LANGUAGE_ NOT_DEFINED	
				"1" Language not defined
(84)	SIGNED	0	PGD_LANGUAGE_ ASSEMBLER	
				"2" Language Assembler
(84)	SIGNED	0	PGD_LANGUAGE_C	"3" Language C
(84)	SIGNED	0	PGD_LANGUAGE_ COBOL	"4" Language COBOL
(84)	SIGNED	0	PGD_LANGUAGE_LE	"5" Language LE
(84)	SIGNED	0	PGD_LANGUAGE_PLI	"6" Language PL1
Equates for testing PGD_PROGRAM_RUNTIME_ENV				
	....		PGD_RUNTIME_ NOTAPPLIC	
				"0" Runtime Notapplic
(84)	SIGNED	0	PGD_RUNTIME_ ENV_JVM	
				"1" Runtime JVM
(84)	SIGNED	0	PGD_RUNTIME_ ENV_LE	"2" Runtime LE

Table 522. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)	SIGNED	0	PGD_RUNTIME_ ENV_NONLE	
				"3" Runtime Non LE
(84)	SIGNED	0	PGD_RUNTIME_ ENV_XPLINK	
				"4" Runtime XPLink
Equates for testing PGD_PROGRAM_CONCURRENCY				
	....		PGD_CONC_ NOTAPPLIC	"0" Concurrency Notapplic
(84)	SIGNED	0	PGD_CONC_ QUASIREENTRANT	
				"1" Concurrency Quasi-Reentrnt
(84)	SIGNED	0	PGD_CONC_ THREADSAFE	
				"2" Concurrency Threadsafe
(84)	SIGNED	0	PGD_CONC_ REQUIRED	"3" Concurrency Required
Equates for testing PGD_PROGRAM_API				
(84)	SIGNED	0	PGD_API_OPENAPI	"1" OPENAPI
(84)	SIGNED	0	PGD_API_CICSAPI	"2" CICSAPI
Equates for testing PGD_PROGRAM_REMOTE				
(84)	SIGNED	0	PGD_REMOTE_NO	"1" Remote No
(84)	SIGNED	0	PGD_REMOTE_YES	"2" Remote Yes
Equates for testing PGD_PROGRAM_DYNAMIC				
(84)	SIGNED	0	PGD_DYNAMIC_NO	"1" Dynamic No
(84)	SIGNED	0	PGD_DYNAMIC_YES	"2" Dynamic Yes
Equates for testing PGD_PROGRAM_JVM				
(84)	SIGNED	0	PGD_JVM_NO	"1" JVM No
(84)	SIGNED	0	PGD_JVM_YES	"2" JVM Yes
Equates for testing PGD_PROGRAM_CHANGE_AGENT and INSTALL_AGENT Change Agents				
(84)	SIGNED	0	PGD_CSDAPI_ CHANGE	"0001" CSD API
(84)	SIGNED	0	PGD_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(84)	SIGNED	0	PGD_DREPAPI_ CHANGE	"0003" DREP API
(84)	SIGNED	0	PGD_CREATE_ CHANGE	"0004" EXEC CREATE SPI
(84)	SIGNED	0	PGD_AUTOINSTALL_ CHANGE	

Table 522. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				"0006" AUTOINSTALL
(84)	SIGNED	0	PGD_SYSTEM_ CHANGE	"0007" SYSTEM Install Agents
(84)	SIGNED	0	PGD_CSDAPI_ INSTALL	"0001" CSD API
(84)	SIGNED	0	PGD_CREATE_ INSTALL	"0004" EXEC CREATE SPI
(84)	SIGNED	0	PGD_GRPLIST_ INSTALL	
				"0005" GRPLIST
(84)	SIGNED	0	PGD_AUTOINSTALL_ INSTALL	
				"0006" AUTOINSTALL
(84)	SIGNED	0	PGD_SYSTEM_ INSTALL	"0007" SYSTEM

PGGPC Program Manager Statistics

Table 523.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	DFHPGGPS	pg global stats
(0)	HALFWORD	2	PGG_STATS_LENGTH	length of record
(2)	HALFWORD	2	PGG_STATS_ID	pg global stats id, should contain pgg_dcl_id
(4)	UNSIGNED	1	PGG_STATS_ VERSION	pg global stats version
(5)	UNSIGNED	3	*	filler
(8)	FULLWORD	4	PGG_AUTO_ ATTEMPTS	number of autoinstalls attempted
(C)	FULLWORD	4	PGG_AUTO_REJECTS	number of autoinstalls rejected
(10)	FULLWORD	4	PGG_AUTO_ FAILURES	number of autoinstalls failed

Constants

Table 524.

Len	Type	value	Name	Description
The following fields define the record				
1	HEX	01	PGG_DCL_VERSION	version number
2	DECIMAL	23	PGG_DCL_ID	PG global id statistics id

PGRDS JVM Program Resource Statistics

```
                    CONTROL BLOCK NAME = DFHPGRDS
                    DESCRIPTIVE NAME  = CICS Jvmprogram (PG Domain) Statistics
                       @BANNER_START 02

                                        DFHPGRDS
                       Licensed Materials - Property of IBM
                       "Restricted Materials of IBM"
                       5655-S97
                       @BANNER_END
                    FUNCTION =
                            This data area contains the Jvmprogram statistics provided
                            by the PG Domain.
                            It is provided for use in users monitoring applications
                            to map the statistics returned via the API or the
                            statistics global user exit.
                            There is a single instance of this data block.
                    LIFETIME =
                            This data block is created by the PG Domain to store
                            statistics to be passed to the user in response to a
                            for JVMPROGRAM statistics. The storage is released when
                            the user task is detached.
                            The DSECT also maps the contents of part of the SMF buffer
                            created by the statistics domain and is used in the
                            statistics exit.
                    STORAGE CLASS =
                    LOCATION =
                            The user is passed a pointer to the head of the storage
                            block.
                    INNER CONTROL BLOCKS =
                    NOTES :
                       DEPENDENCIES = S/370
                       RESTRICTIONS = None
                       MODULE TYPE = Control block definition
                  -------------------------------------------------------------------
                  -----------00----------------------------------------------------------
```

Table 525.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHPGRDS	Jvmprogram Resid stats record
(0)	HALFWORD	2	PGRDS_LEN	Jvmprogram stats record length
(2)	ADDRESS	2	PGRDS_ID	Jvmprogram stats id
(4)	CHARACTER	1	PGRDS_VERS	Jvmprogram stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	PGR_JVMPROGRAM_NAME	
				Jvmprogram Name
(10)	CHARACTER	8	PGR_JVMPROGRAM_PROFILE	
				Jvmprofile Name
(18)	FULLWORD	4	PGR_JVMPROGRAM_USECOUNT	
				Jvmprogram Use count

Table 525. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	BITSTRING	1	PGR_JVMPROGRAM_ EXEC_KEY	
				Jvmprogram CICS/USER key
(1D)	CHARACTER	3		Reserved
(20)	CHARACTER	255	PGR_JVMPROGRAM_ JVMCLASS	
				Jvmprogram Jvmclass name
(11F)	CHARACTER	1		Reserved
(120)	CHARACTER	8	PGR_JVMPROGRAM_ SERVER	
				Jvmserver Name
(128)	CHARACTER	16		Reserved
(128)		0	PGRDS_END	"*"
(128)		0	PGRDS_LENGTH	"*-PGRDS_LEN" Jvmprogram record length
Constants that denote a PG Jvmprogram stats record				
(128)	SIGNED	0	PGR_IDR	"119" Jvmprogram resid stats id
(128)	BITSTRING	0	PGR_VERS	"X'01'" Record version number
Equates for testing PGR_JVMPROGRAM_EXEC_KEY				
(128)	SIGNED	0	PGR_CICS_KEY	"1" CICS exec key
(128)	SIGNED	0	PGR_USER_KEY	"2" USER exec key

PIRDS Pipeline Resource Statistics

```
CONTROL BLOCK NAME = DFHPIRDS
DESCRIPTIVE NAME  = CICS Pipeline Domain (Pipeline) Statistics
   @BANNER_START 02

                    DFHPIRDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This data area contains the pipeline statistics
      provided by the PI Domain.
      It is provided for use in users monitoring applications
      to map the statistics returned via the API or the
      statistics global user exit.
      There is a single instance of this data block.
LIFETIME =
      This data block is created by the Pipeline Domain to store
      statistics to be passed to the user in response to a
      for pipeline statistics. The storage is released when the
      user task is detached.
      The DSECT also maps the contents of part of the SMF buffer
      created by the statistics domain and is used in the
      statistics exit.
```

```
        STORAGE CLASS =
        LOCATION =
            The user is passed a pointer to the head of the storage
            block.
        INNER CONTROL BLOCKS = None
        NOTES :
          DEPENDENCIES = S/370
          RESTRICTIONS = None
          MODULE TYPE = Control block definition
     -------------------------------------------------------------------
        ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHPIRDS IS
        NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
        PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 526.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHPIRDS	Pipeline Resid stats record
(0)	HALFWORD	2	PIRDS_LEN	Pipeline stats record length
(2)	ADDRESS	2	PIRDS_ID	Pipeline stats id
(4)	CHARACTER	1	PIRDS_VERS	Pipeline stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	PIR_PIPELINE_ NAME	Pipeline name
(10)	BITSTRING	1	PIR_PIPELINE_ MODE	Pipeline mode
(11)	BITSTRING	7		Reserved
(18)	BITSTRING	8		Reserved
(20)	BITSTRING	255	PIR_CONFIGURATION_ FILE	
				Pipeline configuration file
(11F)	BITSTRING	1		Reserved
(120)	BITSTRING	255	PIR_SHELF_ DIRECTORY	
				Pipeline shelf directory
(21F)	BITSTRING	1		Reserved
(220)	BITSTRING	255	PIR_WSDIR_ DIRECTORY	
				Pipeline WSDIR pickup directory
(31F)	BITSTRING	1		Reserved
(320)	FULLWORD	4	PIR_PIPELINE_ USE_COUNT	
				Pipeline use count
(324)	BITSTRING	4		Reserved
(328)	BITSTRING	8		Reserved
(330)	BITSTRING	8		Reserved
(338)	BITSTRING	8		Reserved

Table 526. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(340)	BITSTRING	255		Reserved
(43F)	BITSTRING	1		Reserved
(440)	BITSTRING	16		Reserved
(450)	CHARACTER	8	PIR_PIPELINE_ DEFINE_SOURCE	
				Group installed from
(458)	BITSTRING	8	PIR_PIPELINE_ CHANGE_TIME	
				Change/create time
(460)	CHARACTER	8	PIR_PIPELINE_ CHANGE_USERID	
				Change userid
(468)	BITSTRING	2	PIR_PIPELINE_ CHANGE_AGENT	
				Change agent
(46A)	BITSTRING	2	PIR_PIPELINE_ INSTALL_AGENT	
				Install agent
(46C)	BITSTRING	8	PIR_PIPELINE_ INSTALL_TIME	
				Install/Create time
(474)	CHARACTER	8	PIR_PIPELINE_ INSTALL_USERID	
				Install userid
(474)		0	PIRDS_END	"*"
(474)		0	PIRDS_LENGTH	"*-PIRDS_LEN" Pipeline record length
Constants that denote a PI pipeline stats record				
(474)	SIGNED	0	PIRIDR	"105" Pipeline resid stats id
(474)	BITSTRING	0	PIR_VERS	"X'01'" Record version number
	....		PIR_MODE_UNKNOWN	"X'00'" Pipeline mode - unknown
(474)	BITSTRING	0	PIR_MODE_ PROVIDER	"X'01'" Pipeline mode - provider
(474)	BITSTRING	0	PIR_MODE_ REQUESTER	"X'02'" Pipeline mode - requester Change Agents
(474)	SIGNED	0	PIR_CSDAPI_ CHANGE	"0001" CSD API
(474)	SIGNED	0	PIR_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP

Table 526. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(474)	SIGNED	0	PIR_DREPAPI_ CHANGE	"0003" DREP API
(474)	SIGNED	0	PIR_CREATE_ CHANGE	"0004" EXEC CREATE SPI Install Agents
(474)	SIGNED	0	PIR_CSDAPI_ INSTALL	"0001" CSD API
(474)	SIGNED	0	PIR_CREATE_ INSTALL	"0004" EXEC CREATE SPI
(474)	SIGNED	0	PIR_GRPLIST_ INSTALL	
				"0005" GRPLIST

PIWDS Webservice Resource Statistics

```
CONTROL BLOCK NAME = DFHPIWDS
DESCRIPTIVE NAME  = CICS Pipeline Domain (Webservice)
Statistics
    @BANNER_START 02
                      DFHPIWDS
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION =
        This data area contains the webservice statistics
        provided by the PI Domain.
        It is provided for use in users monitoring applications
        to map the statistics returned via the API or the
        statistics global user exit.
        There is a single instance of this data block.
LIFETIME =
        This data block is created by the Pipeline Domain to store
        statistics to be passed to the user in response to a
        for webservice statistics. The storage is released when the
        user task is detached.
        The DSECT also maps the contents of part of the SMF buffer
        created by the statistics domain and is used in the
        statistics exit.
STORAGE CLASS =
LOCATION =
        The user is passed a pointer to the head of the storage
        block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 ------------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHPIWDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 527.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHPIWDS	Webservice Resid stats record

Table 527. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	PIWDS_LEN	Webservice stats record length
(2)	ADDRESS	2	PIWDS_ID	Webservice stats id
(4)	CHARACTER	1	PIWDS_VERS	Webservice stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	32	PIW_WEBSERVICE_ NAME	
				Webservice name
(28)	BITSTRING	1	PIW_PROGRAM_ INTERFACE	
				Webservice program interface
(29)	BITSTRING	1	PIW_MSG_ VALIDATION	Webservice msg validation
(2A)	BITSTRING	6		Reserved
(30)	CHARACTER	8	PIW_PIPELINE_ NAME	Webservice pipeline name
(38)	CHARACTER	8	PIW_URIMAP_NAME	Webservice urimap name
(40)	BITSTRING	8		Reserved
(48)	BITSTRING	255	PIW_WSBIND_FILE	Webservice WSBind file
(147)	BITSTRING	1		Reserved
(148)	BITSTRING	255	PIW_WSDL_FILE	Webservice WSDL file
(247)	BITSTRING	1		Reserved
(248)	BITSTRING	255	PIW_WSDL_BINDING	Webservice WSDL binding
(347)	BITSTRING	1		Reserved
(348)	BITSTRING	255	PIW_ENDPOINT_URI	Webservice ENDPOINT URI
(447)	BITSTRING	1		Reserved
(448)	BITSTRING	8		Reserved
(450)	CHARACTER	8	PIW_WEBSERVICE_ PROGRAM	
				Webservice program name
(458)	CHARACTER	16	PIW_CONTAINER_ NAME	Webservice container name
(468)	CHARACTER	16		Reserved
(478)	FULLWORD	4	PIW_WEBSERVICE_ USE_COUNT	
				Webservice use count
(47C)	BITSTRING	4		Reserved

Table 527. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(480)	BITSTRING	8		Reserved
(488)	BITSTRING	8		Reserved
(490)	BITSTRING	255	PIW_ARCHIVE_FILE	Webservice archive file
(58F)	BITSTRING	1		Reserved
(590)	BITSTRING	16		Reserved
(5A0)	CHARACTER	8	PIW_WEBSERVICE_ DEFINE_SOURCE	
				Group installed from
(5A8)	BITSTRING	8	PIW_WEBSERVICE_ CHANGE_TIME	
				Change/create time
(5B0)	CHARACTER	8	PIW_WEBSERVICE_ CHANGE_USERID	
				Change userid
(5B8)	BITSTRING	2	PIW_WEBSERVICE_ CHANGE_AGENT	
				Change agent
(5BA)	BITSTRING	2	PIW_WEBSERVICE_ INSTALL_AGENT	
				Install agent
(5BC)	BITSTRING	8	PIW_WEBSERVICE_ INSTALL_TIME	
				Install/Create time
(5C4)	CHARACTER	8	PIW_WEBSERVICE_ INSTALL_USERID	
				Install userid
(5C4)		0	PIWDS_END	"*"
(5C4)		0	PIWDS_LENGTH	"*-PIWDS_LEN" Webservice record length
Constants that denote a PI webservice stats record				
(5C4)	SIGNED	0	PIWIDR	"106" Webservice resid stats id
(5C4)	BITSTRING	0	PIW_VERS	"X'01'" Record version number
	....		PIW_INTERFACE_ NOTAPPLIC	
				"X'00'" Program interface - notapplic
(5C4)	BITSTRING	0	PIW_INTERFACE_ CHANNEL	
				"X'01'" Program interface - channel

Table 527. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5C4)	BITSTRING	0	PIW_INTERFACE_ COMMAREA	
				"X'02'" Program interface - commarea
(5C4)	BITSTRING	0	PIW_VALIDATION_ NO	"X'01'" Webservice msg validation - No
(5C4)	BITSTRING	0	PIW_VALIDATION_ YES	"X'02'" Webservice msg validation - Yes Change Agents
(5C4)	SIGNED	0	PIW_CSDAPI_ CHANGE	"0001" CSD API
(5C4)	SIGNED	0	PIW_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(5C4)	SIGNED	0	PIW_DREPAPI_ CHANGE	"0003" DREP API
(5C4)	SIGNED	0	PIW_CREATE_ CHANGE	"0004" EXEC CREATE SPI
(5C4)	SIGNED	0	PIW_DYNAMIC_ CHANGE	"0008" DYNAMIC Install Agents
(5C4)	SIGNED	0	PIW_CSDAPI_ INSTALL	"0001" CSD API
(5C4)	SIGNED	0	PIW_CREATE_ INSTALL	"0004" EXEC CREATE SPI
(5C4)	SIGNED	0	PIW_GRPLIST_ INSTALL	
				"0005" GRPLIST
(5C4)	SIGNED	0	PIW_DYNAMIC_ INSTALL	
				"0008" DYNAMIC
(5C4)	SIGNED	0	PIW_BUNDLE_ INSTALL	"0009" BUNDLE

PLT Program list table entry

```
CONTROL BLOCK NAME = DFHPLTDS
DESCRIPTIVE NAME  = CICS Program List Table Entry
   @BANNER_START 02
                     DFHPLTDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      Defines an entry in a PLT, a list of programs to be
      invoked.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
```

Table 528.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHPLTDS	DUMMY SECTION - PGM LIST TABLE
(0)	CHARACTER	8	PLTPID	PROGRAM IDENTIFICATION
(0)		0	PLTEL	"(*-PLTPID)" PGM LST TABLE ENTRY LENGTH

PFT Profile table entry

Table 529.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	106	DFHPPFPS	
(0)	CHARACTER	106	PPFED	
(0)	CHARACTER	8	PPFNAME	PROFILE NAME
(8)	UNSIGNED	2	PPFENL	ENTRY LENGTH
(A)	UNSIGNED	1	PPFTYPE	TYPE OF ENTRY, 3=PROFILE
(B)	CHARACTER	1	*	(SPACER)
(C)	BIT(8)	1	PPFFLAGS	FLAGS
	1...		PPFDYNA	ENTRY DYNAMICALLY ADDED
	.111 1111		*	RESERVED
(D)	CHARACTER	3	*	RESERVED
(10)	CHARACTER	5	PPFJINF	5 BYTES MOVED TO TCTTE
(10)	BIT(8)	1	PPFMIOAJ	TERMINAL MSG I/O & JOURNAL
	1...		PPFMFMHA	ALL FMH'S TO APPLICATION
	.1..		PPFMFMHE	(EODS)
	..1.		PPFMIMIO	RESERVED
	...1		PPFMDLIO	RESERVED
	.... 1...		PPFMFMHD	(DIP)
	.... .1..		PPFMLRQ	LOGICAL REC PRESENT REQUIRED
	.... ..1.		PPFMJLI	AUTO INPUT MSG JOURNALLING
	1		PPFMJLO	AUTO OUTPUT MSG JOURNALLING
(11)	BIT(8)	1	PPFEXTOP	EXTRACT OPTIONS
	1...		PPFEXNO	EXTRACT=NO

Table 529. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		PPFEXAT	EXTRACT=ATTACH
	..1.		*	RESERVED
	...1		*	RESERVED
	.... 1...		*	RESERVED
	.... .1..		*	RESERVED
	.... ..1.		*	RESERVED
	1		*	RESERVED
(12)	BIT(8)	1	PPFOPT2	EXTRA OPTIONS
	1...		PPFSRAQ	READ AHEAD QUEUING SUPPORT
	.1..		PPFUCTRN	UPPER CASE TRANSLATE REQUIRED *
	..1.		*	RESERVED
	...1		*	RESERVED
	.... 1...		*	RESERVED
	.... .1..		*	RESERVED
	.... ..1.		*	RESERVED
	1		*	RESERVED
(13)	UNSIGNED	1	PPFMSJID	TERM MSG JOURNAL FILE ID
(14)	UNSIGNED	1	PPFNEPC	NODE ERROR PROGRAM CLASS
(15)	CHARACTER	2	PPFMPCRQ	TERMINAL MSG PROT.REQUIRED
(15)	BIT(8)	1	*	1ST BYTE
(16)	BIT(8)	1	PPFMPFLG	2ND BYTE - SUPPORTED BITS:
	111.		*	RESERVED
	...1		PPFMPCTL	X'10' = CHAIN CONTROL(NOT SPI)
	.... 1...		*	RESERVED
	.... .1..		PPFMPMSG	X'04' = MESSAGE INTEGRITY
	.... ..1.		*	RESERVED
	1		PPFMPONW	X'01' = ONE WRITE OPTION
(17)	CHARACTER	2	PPFMPCOP	TERMINAL MSG PROT.OPTIONAL (NOT SUPPORTED IN SPI)
(17)	BIT(8)	1	*	1ST BYTE
(18)	BIT(8)	1	PPFMOFLG	2ND BYTE - SUPPORTED BITS:

Table 529. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	111.		*	RESERVED
	...1		PPFMOCTL	X'10' = CHAIN CONTROL
	.... 1...		*	RESERVED
	.... .1..		PPFMOMSG	X'04' = MESSAGE INTEGRITY
	.... ..1.		*	RESERVED
	1		PPFMOONW	X'01' = ONE WRITE OPTION
(19)	UNSIGNED	2	PPFTRTO	READ TIMEOUT
(1B)	CHARACTER	8	PPFMODEN	MODENAME
(23)	BIT(8)	1	PPFMDVSP	TERMINAL DEVICE SUPPORT
	1...		*	RESERVED
	.1..		*	RESERVED
	..1.		*	RESERVED
	...1		*	RESERVED
	.... 1...		*	RESERVED
	.... .1..		*	RESERVED
	.... ..1.		PPFMDVNO	NON-VTAM DEVICES ONLY
	1		PPFMDVTM	VTAM DEVICES ONLY
(24)	UNSIGNED	1	*	RESERVED
(25)	BIT(8)	1	PPFSCS	SCREEN SIZE SELECTION
	1...		*	RESERVED
	.1..		*	RESERVED
	..1.		*	RESERVED
	...1		*	RESERVED
	.... 1...		PPFSCSZ	ALTERNATE SCREEN SIZE
	.... .1..		*	RESERVED
	.... ..1.		PPFPRTCM	PRINTER COMPATIBILITY
	1		*	RESERVED
(26)	CHARACTER	4	PPFFACLK	FACILITYLIKE
(2A)	OBJECT	64	PPFRESSIG	RESOURCE SIGNATURE
(2A)	CHARACTER	64	DFHAMSIG_INSTANCE	
				RESOURCE SIGNATURE

Table 529. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2A)	STRUCTURE IsA(DFHAMSIG_DEFINE_SIGNATURE)	38	DEFINE_ SIGNATURE	
				RESOURCE SIGNATURE
(2A)	CHARACTER	8	DEFINE_ SOURCE	GROUP resource installed from
(32)	CHARACTER	8	DEFINE_TIME	Time resource defined
(3A)	CHARACTER	8	CHANGE_TIME	Change/create time
(42)	CHARACTER	8	CHANGE_ USERID	Change userid
(4A)	UNSIGNED	2	CHANGE_AGENT	Change agent
(4C)	CHARACTER	4	AGENT_LEVEL	CICS level of change agent
(50)	STRUCTURE IsA(DFHAMSIG_INSTALL_SIGNATURE)	18	INSTALL_ SIGNATURE	
				RESOURCE SIGNATURE
(50)	CHARACTER	8	INSTALL_TIME	Install/create time
(58)	CHARACTER	8	INSTALL_ USERID	Install userid
(60)	UNSIGNED	2	INSTALL_ AGENT	Install agent
(62)	CHARACTER	8	*	RESOURCE SIGNATURE

PSD Partition set definition block

```
MODULE NAME = DFHPSDDS
 DESCRIPTIVE NAME  = CICS PARTITION SET DEFINITION DSECT
                     DUAL LANGUAGE DSECT
  @BANNER_START 02

                     DFHPSDDS
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = DEFINES THE PARTITION SET OBJECT. THIS IS BUILT BY
           THE MACROS DFHPSD AND DFHPDI. IT IS SUFFIXED AND
           STORED IN THE CICS/VS PROGRAM LIBRARY WITH A PPT
           ENTRY. IT IS LOADED INTO MAIN MEMORY BY DFHMCP
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 MODULE TYPE = STRUCTURE
EXTERNAL REFERENCES = NONE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NOT APPLICABLE
 MACROS = NONE
```

Table 530.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	30	DFHPSDDS	DUMMY SECTION - PARTITION SET DESCRIPTION

Table 530. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	0	PSDSTART	START OF DEFINITION
Partition Set Header Description				
(0)	HALFWORD	2	PSDPSETL	PARTITION SET LENGTH
(2)	CHARACTER	2	*	BLANK SO PARTITION SET IS CORRECT FORMAT FOR OUTPUT TO CICS TEMP STORAGE
(4)	HALFWORD	2	PSDPSL	PARTITION SET HEADER LENGTH OF PARTITION SET HEADER
(6)	CHARACTER	8	PSDSLFID	STRING '*DFHPSD ' IDENTIFIES OBJECT AS A PARTITION SET
(E)	CHARACTER	7	PSDPSNME	PARTITION SET NAME
(15)	CHARACTER	1	PSDPSSFX	PARTITION SET SUFFIX, USED FOR PARTITION SET SELECTION BLANK IF NOT SUFFIXED
(16)	HALFWORD	2	PSDPNUM	NUMBER OF PARTITIONS IN THIS PARTITION SET
(18)	HALFWORD	2	PSDUACOL	ALTSCRN COLUMNS
(1A)	HALFWORD	2	PSDUALNE	ALTSCRN LINES
(1C)	CHARACTER	1	PSDCICSV	CICS/VS VERSION ON WHICH THE PARTITION SET WAS ASSEMBLED
(1D)	BIT(8)	1	PSDPSFLG	FLAG BYTE
	1...		PSDPSERR	THIS PARTITION SET CONTAINS A CICS/VS ERROR MESSAGE PARTITION

```
                    PARTITION DESCRIPTION
    TWO RECORD FOR EACH PARTITION IN THIS PARTITION SET
    THE FIRST RECORD CONTAINS CICS/VS SPECIFIC DATA. THE SECOND
    RECORD IS A COPY OF THE CREATE PARTITION STRUCTURED FIELD
```

Table 531.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	6	PSDPCICS	
` CICS SPECIFIC PARTITION DATA`				
(0)	HALFWORD	2	PSDCICSL	LENGTH OF CICS/VS DATA
(2)	CHARACTER	2	PSDCINME	THE PARTITION NAME
(4)	BIT(8)	1	PSDCIFLG	PARTITION FLAGS 1
	1...		PSDCIERR	THIS IS A CICS/VS ERROR MESSAGE PARTITION
(5)	CHARACTER	1	PSDMPSFX	BMS MAPSET SUFFIX

Table 532.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	30	PSDPCRT	
` COPY OF THE ARCHITECTED CREATE PARTITION STRUCTURED FIELD` ` THIS CAN BE SENT UNCHANGED TO THE TERMINAL`				
(0)	HALFWORD	2	PSDPL	LENGTH OF CREATE PARTITION STRUCTURED FIELD
(2)	CHARACTER	1	PSDPTYPE	STRUCTURED FIELD TYPE
(3)	CHARACTER	1	PSDPID	HARDWARE PARTITION-ID
(4)	BIT(8)	1	PSDPAM	FLAG BYTE INDICATING UNIT OF MEASURE AND ADDRESS MODE
	1...		*	
	.1..		*	
	..1.		*	
	...1		PSDUMPEL	UNIT OF MEASURE IS PELS
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		PSDAM16	ADDRESS MODE IS 16 BIT
(5)	BIT(8)	1	PSDPFLG	FLAG BYTE
	1...		*	
	.1..		PSDPPROT	PARTITION IS PROTECTED
(6)	CHARACTER	2	PSDPBUFH	HEIGHT OF THE PARTITION BUFFER

Table 532. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	2	PSDPBUFW	WIDTH OF THE PARTITION BUFFER
(A)	CHARACTER	2	PSDVIEWR	ROW ORIGIN OF THE PARTITION VIEWPORT
(C)	CHARACTER	2	PSDVIEWC	COLUMN ORIGIN OF THEPARTITION VIEWPORT
(E)	CHARACTER	2	PSDVIEWH	VIEWPORT HEIGHT
(10)	CHARACTER	2	PSDVIEWW	VIEWPORT WIDTH
(12)	CHARACTER	2	PSDWNDR	INITIAL WINDOW POSITION ROW
(14)	CHARACTER	2	PSDWNDC	INITIAL WINDOW POSITION COL
(16)	CHARACTER	2	PSDSCRR	VERTICAL SCROLL AMOUNT
(18)	CHARACTER	2	PSDSCRC	HORIZONTAL SCROLL AMOUNT
(1A)	CHARACTER	2	PSDCELLW	CHARACTER CELL PEL WIDTH
(1C)	CHARACTER	2	PSDCELLH	CHARACTER CELL PEL HEIGHT

Constants

Table 533.

Len	Type	value	Name	Description
1	HEX	07	PSDCI160	CICS/VS 160
1	HEX	0C	PSDPCRP	CREATE PARTITION TYPE CODE
1	HEX	00	PSDUMCHR	UNIT OF MEASURE IS CHARS
1	HEX	00	PSDAM12	ADDRESS MODE IS 12/14 BIT

PSG System spooling interface

```
CONTROL BLOCK NAME = DFHPSGPS
 DESCRIPTIVE NAME  = CICS System Spooling Interface
                    Global Control Block.
 @BANNER_START 02
                    DFHPSGPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
 FUNCTION =
    DFHPSGPS (PSG) is the master control block for the System
    Spooling Interface facility.
 Description
```

```
               PSG - This Block contains the central control information
                     through which the System Spooling Interface works.
                     It is anchored from CSAPSCBA in the CSA Optional
                     Features List.
          LIFETIME =
               If SPOOL=YES is specified at CICS Initialization, then
               control will be passed to DFHPSIP from DFHSIJ1. PSIP will
               construct and intialize DFHPSGPS, which will remain in
               existence all the time that CICS is running.
          STORAGE CLASS = shared
          LOCATION =
               Chained off CSA optional features list by CSAPSCBA
          INNER CONTROL BLOCKS = NONE
          NOTES :
           DEPENDENCIES = S/370
           RESTRICTIONS = NONE
           MODULE TYPE = PLS copy-book
         -----------------------------------------------------------------
          EXTERNAL REFERENCES = none
            DATA AREAS = none
            CONTROL BLOCKS = none
            GLOBAL VARIABLES (Macro pass) = none
         -----------------------------------------------------------------
                                         getmained by JES as commarea
```

Table 534.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	208	DFHPSGPS	
(0)	CHARACTER	4	*	Storage accounting area
(4)	CHARACTER	8	PSGID	Control block ID - DFHPSGPS. The following VSAM info. is used by DFHPSIP & DFHPSPSS:
(C)	HALFWORD	2	PSGACBL	Length of VSAM ACB
(E)	HALFWORD	2	PSGRPLL	Length of VSAM RPL
(10)	HALFWORD	2	PSGEXLL	Length of VSAM EXIT LIST
(12)	HALFWORD	2	*	Reserved
(14)	FULLWORD	4	PSGOPNCT	Count of JES files OPEN-ed
(18)	FULLWORD	4	PSGCLSCT	Count of JES files CLOSE-ed
(1C)	ADDRESS	4	*	Reserved
(20)	ADDRESS	4	*	Reserved
(24)	FULLWORD	4	PSGNXTK	Next Report Token
(28)	CHARACTER	4	PSGJTFL	Job transfer flags
(28)	CHARACTER	1	PSGTHRD	In-Use flag for SGL thread
(29)	CHARACTER	3	*	Reserved
(2C)	CHARACTER	4	*	
(2C)	BIT(8)	1	PSGFE	Extra service facilities

Table 534. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		PSGFETR	Additional trace required
	.111 111.		*	Reserved
	1		PSGFECH	Enable FE Chain checking
(2D)	CHARACTER	3	*	Reserved
(30)	ADDRESS	4	PSGCRB	Reserved
(34)	ADDRESS	4	PSGCSAA	CSA address save area
(38)	HALFWORD	2	PSGOSLC	Operating system lines per page
(3A)	CHARACTER	8	PSGFLGS	CICS Sub-system Interface control status flags
(3A)	CHARACTER	1	PSGIACT	CICS SSI is active/enabled
(3B)	CHARACTER	1	PSGIENA	CICS SSI is being enabled
(3C)	CHARACTER	1	PSGIDIS	CICS SSI is being disabled
(3D)	CHARACTER	1	PSGITRM	CICS SSI is being terminated
(3E)	CHARACTER	1	PSGIDIP	Reserved
(3F)	CHARACTER	1	PSGIDPP	Reserved
(40)	CHARACTER	1	PSGCLAS	Reserved
(41)	CHARACTER	1	PSGSYSID	Reserved
(42)	CHARACTER	2	*	Reserved
(44)	ADDRESS	4	PSGRRB	Reserved
(48)	ADDRESS	4	PSGTRB	Reserved
(4C)	ADDRESS	4	PSGWRB	Reserved
(50)	ADDRESS	4	*	Reserved
(54)	ADDRESS	4	*	Reserved
(58)	ADDRESS	4	*	Reserved
(5C)	CHARACTER	47	PSGSTAT	CICS SSI statistics area
(5C)	CHARACTER	3	PSGSCRS	Reserved
(5F)	CHARACTER	3	PSGSCRR	Reserved
(62)	CHARACTER	3	PSGSCRC	Reserved
(65)	CHARACTER	4	PSGSOR	Reserved
(69)	CHARACTER	3	PSGSERS	Reserved
(6C)	CHARACTER	3	PSGSERC	Reserved
(6F)	CHARACTER	3	PSGSLR	Reserved
(72)	CHARACTER	3	PSGSPI	Reserved

Table 534. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(75)	CHARACTER	3	PSGSTD	Reserved
(78)	CHARACTER	3	PSGSER	Reserved
(7B)	CHARACTER	4	PSGDDAT	Date SSI last ended
(7F)	CHARACTER	4	PSGDTIM	Time SSI last ended
(83)	CHARACTER	4	PSGEDAT	Date SSI last started
(87)	CHARACTER	4	PSGETIM	Time SSI last started
(8B)	CHARACTER	10	PSGIDENT	Reserved
(8B)	CHARACTER	8	PSGXIDK	Reserved
(93)	CHARACTER	2	PSGITID	Reserved
(95)	BIT(8)	1	PSGNFYE	Reserved
(96)	CHARACTER	3	*	Reserved
(9C)	ADDRESS	4	PSGCXPB	CXPB TCA address
(A0)	CHARACTER	44	PSGIDSN	Input DSNAME
(CC)	ADDRESS	4	*	Reserved

Constants

Table 535.

Len	Type	value	Name	Description
PSGFLAG - general Sub-system Interface flags				
1	HEX	FF	PSGON	Flag is on.
1	HEX	00	PSGOFF	Flag is off.

PSP Printer spooling subsystem

```
                MODULE NAME = DFHPSPPS
                DESCRIPTIVE NAME  = CICS Printer Spooling Subsystem
                @BANNER_START 02
                                  DFHPSPPS
                Licensed Materials - Property of IBM
                "Restricted Materials of IBM"
                5655-S97
                @BANNER_END
                Function =
                        DFHPSPPS is the parameter area map for the interface
                        to DFHPSP etc.
                 Dependencies = S/370
                 Restrictions = none
                 Register conventions = N/A
                 Patch label = N/A
                 Module type = PLS copy-book
                 Attributes = N/A
                Entry point = N/A
```

Table 536.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	120	DFHPSPPS	DFHPS Macro Parameter Area.

Table 536. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	UNSIGNED	1	PSPREQ	Request Code.
(1)	BIT(8)	1	PSPQUAL	Reserved
	1...		PSPQNTFY	Reserved
	.1..		PSPQANY	Reserved
	..1.		PSPQCMD	Reserved
	...1 1111		*	Reserved
(2)	BIT(8)	1	PSPOPT1	Option 1 indicators.
	1...		PSPWCHCK	Reserved
	.1..		PSPRGIN	Reserved
	..1.		PSPRSEP	Reserved
	...1		PSPRNSEP	Reserved
	.... 1...		PSPRNCV	Reserved
	.... .1..		PSPRFAIL	Reserved
	.... ..1.		PSPRCONT	Reserved
	1		PSPRRESM	Reserved
(3)	BIT(8)	1	PSPOPT2	Option 2 Indicators.
	1...		PSPRHDN	Reserved
	.1..		PSPRFTN	Reserved
	..1.		PSPRNONM	Reserved
	...1		PSPRDTTM	Reserved
	.... 1...		PSPRPHYS	Reserved
	.... .1..		PSPRLOGL	Reserved
	.... ..1.		PSPROUT	OPEN/CLOSE for Output.
	1		PSPRINP	OPEN/CLOSE for Input.
(4)	BIT(8)	1	PSPOPT3	Option 3 Indicators.
	1...		PSPBASE	Base call
	.1..		PSPREST	Reserved
	..1.		PSPMAPO	Reserved
	...1		PSPDWE	Reserved
	.... 1...		PSPHLPI	Reserved
	.... .1..		PSPYMES	Reserved
	.... ..1.		PSPNMES	Reserved
	1		*	Reserved
(5)	BIT(8)	1	PSPOPT4	Option 4 Indicators.
	1...		PSPRSCS	Reserved
	.1..		PSPRBMS	Reserved
	..1.		PSPR327	Reserved
	...1		PSPRAPA	CPDS Data Stream

Table 536. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		PSPRESC	Reserved
	.... .1..		PSPRASA	ASA Format
	.... ..1.		PSPRMCC	Machine Format
	1		PSPRNCC	No CC Format
(6)	BIT(8)	1	PSPOPT5	Option 5 Indicators.
(6)	BIT(8)	1	*	Reserved
(7)	BIT(8)	1	PSPQUE	Reserved
	1...		PSPQLST	Reserved
	.1..		PSPQRDR	Reserved
	..1.		PSPQPUN	Reserved
	...1		PSPQXMIT	Reserved
	.... 1...		PSPQPRTR	Reserved
	.... .111		*	Reserved
(8)	BIT(8)	1	PSPCBOPT	Reserved
(9)	BIT(8)	1	PSPDISPS	Reserved
	1...		PSPDHOLD	Reserved
	.1..		PSPDACT	Reserved
	..1.		PSPDRDY	Reserved
	...1		PSPDERR	Reserved
	.... 1...		PSPDRES	Reserved
	.... .1..		PSPDKEP	Reserved
	.... ..1.		PSPDLVE	Reserved
	1		PSPDERRP	Reserved
(A)	UNSIGNED	1	PSPCOPY	Reserved
(B)	UNSIGNED	1	PSPPRI	Reserved
(C)	UNSIGNED	1	*	Reserved
(D)	UNSIGNED	1	PSPPGSZ	Reserved
(E)	CHARACTER	1	PSPCLASS	CLASS Character.
(F)	UNSIGNED	1	*	Reserved
(10)	BIT(8)	1	PSPDISP	DISPOSITION to be set.
(11)	CHARACTER	1	PSPNCLSS	Reserved
(12)	UNSIGNED	2	PSPLNLG	Reserved
(14)	ADDRESS	4	PSPFORMS	Reserved
(18)	ADDRESS	4	PSPMPST	Reserved
(1C)	ADDRESS	4	PSPTOKEN	Pointer to token value.
(20)	ADDRESS	4	PSPREPNM	Reserved
(24)	ADDRESS	4	PSPDATA	Pointer to Data Area
(28)	ADDRESS	4	PSPLENG	Length WRITE/READ

Table 536. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	ADDRESS	4	PSPMLNG	Max Length READ or OPEN Recordlength
(30)	ADDRESS	4	PSPMAP	Reserved
(34)	ADDRESS	4	PSPUSRID	Pointer to User Id.
(38)	ADDRESS	4	PSPESCP	Reserved
(3C)	ADDRESS	4	PSPNODE	Pointer to Node Name.
(40)	ADDRESS	4	PSPFDATE	Reserved
(44)	FULLWORD	4	PSPREPLN	Reserved
(48)	ADDRESS	4	PSPREPBF	Reserved
(4C)	ADDRESS	4	PSPUSDTA	Reserved
(50)	FULLWORD	4	PSPREC#	Reserved
(54)	UNSIGNED	1	PSPPDISP	Reserved
	1...		PSPPPRNT	Reserved
	.1..		PSPPSTOP	Reserved
	..1.		PSPPWAIT	Reserved
	...1		PSPPIUSE	Reserved
	.... 1...		PSPPALN	Reserved
	.... .1..		PSPPOOS	Reserved
	.... ..1.		PSPPPAUD	Reserved
	1		*	Reserved
(55)	UNSIGNED	1	PSPPACT1	Reserved
	1...		PSPPSRT	Reserved
	.1..		PSPPSTPC	Reserved
	..1.		PSPPSTPN	Reserved
	...1		PSPPALGN	Reserved
	.... 1...		PSPPAUS	Reserved
	.... .1..		PSPRESM	Reserved
	.... ..1.		PSPSTPR	Reserved
	1		PSPPCONF	Reserved
(56)	UNSIGNED	1	PSPPACT2	Reserved
	1...		PSPPSETU	Reserved
	.1..		PSPPDISC	Reserved
	..11 1...		*	Reserved
	.... .1..		PSPPINQ	Reserved
	11		*	Reserved
(57)	UNSIGNED	1	*	Reserved
(58)	ADDRESS	4	PSPPRNM	Reserved
(5C)	ADDRESS	4	PSPTITLE	Reserved
(60)	ADDRESS	4	PSPHEAD	Reserved

Table 536. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(64)	ADDRESS	4	PSPFOOT	Reserved
(68)	ADDRESS	4	PSPSTPG	Reserved
(6C)	ADDRESS	4	PSPEDPG	Reserved
(70)	ADDRESS	4	PSPALPG	Reserved
(74)	ADDRESS	4	PSPOTDES	Ptr. to OUTDES LIST

Constants

Table 537.

Len	Type	value	Name	Description
1	DECIMAL	1	PSPTALT	Reserved
1	DECIMAL	2	PSPTBLD	Reserved
1	DECIMAL	3	PSPTCLSE	CLOSE
1	DECIMAL	4	PSPTDLTE	Reserved
1	DECIMAL	5	PSPTDISL	DISABLE
1	DECIMAL	6	PSPTENBL	ENABLE
1	DECIMAL	7	PSPTENBR	Reserved
1	DECIMAL	8	PSPTGNXT	Reserved
1	DECIMAL	9	PSPTINIT	Reserved
1	DECIMAL	10	PSPTLOC	Reserved
1	DECIMAL	11	PSPTOPN	OPEN
1	DECIMAL	12	PSPTPNT	Reserved
1	DECIMAL	13	PSPTPRT	Reserved
1	DECIMAL	14	PSPTREAD	READ
1	DECIMAL	15	PSPTREM	Reserved
1	DECIMAL	16	PSPTRETV	Reserved
1	DECIMAL	17	PSPTSTBR	Reserved
1	DECIMAL	18	PSPTTERM	TERMINATE
1	DECIMAL	19	PSPTWTIN	Reserved
1	DECIMAL	20	PSPTWRT	WRITE
1	DECIMAL	21	PSPTTRAN	Reserved
1	HEX	E2	PSPSRES	KEEP
1	HEX	C4	PSPSDEL	DELETE
2	DECIMAL	120	PSPLNG	

PTANC Partner Domain Control Blocks

```
!:refstep.dfhptanc ---------------------------------- DFHPTDM 463 -
!
!
! This copybook includes definitions for the anchor block, the state
! block, the pool block and all trace ids used by the domain. At
! present this is the only copybook for the PT domain. Everything is
```

```
! in a single copybook because this domain is so small. In time
! different definitions may be separated out into separate copybooks
! as the domain grows.
!
!-------------------------------------------------------------------
```

Table 538.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	28	PT_ANCHOR_BLOCK	
(0)	CHARACTER	8	PTANC_EYECATCHER	Eyecatcher
(8)	UNSIGNED	4	PTANC_LENGTH	Length of anchor block
(C)	CHARACTER	8	PTANC_STATE_ STG_POOL	
				Storage manager subpool
(14)	CHARACTER	4	PTANC_POOL_ DIR_TOKEN	
				Dir mgr token for pools
(18)	CHARACTER	4	PTANC_STATE_ DIR_TOKEN	
				Dir mgr token for states

```
       ------------------------------------------------------!
    Pool block !
       ------------------------------------------------------!
```

Table 539.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	28	PTTW_POOL_BLOCK	
(0)	CHARACTER	8	PTTWPB_ EYECATCHER	Eyecatcher
(8)	UNSIGNED	4	PTTWPB_LENGTH	Length of block
(C)	UNSIGNED	4	PTTWPB_STATE	State of the pool
(10)	CHARACTER	8	PTTWPB_NAME	Pool name
(18)	UNSIGNED	4	PTTWPB_USECOUNT	Count of state tokens

```
       ------------------------------------------------------!
    State block !
       ------------------------------------------------------!
```

Table 540.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	76	PTTW_STATE_BLOCK	
(0)	CHARACTER	8	PTTWSB_ EYECATCHER	Eyecatcher
(8)	UNSIGNED	4	PTTWSB_LENGTH	Length of block
(C)	UNSIGNED	4	PTTWSB_STATE	State of partnership

Table 540. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	ADDRESS	4	PTTWSB_ SUSPENDTOK	Suspend token
(14)	CHARACTER	8	PTTWSB_DDTOKEN	Dir mgr token
(1C)	CHARACTER	8	PTTWSB_POOLTOKEN	Pool token
(24)	ADDRESS	4	PTTWSB_POOLPTR	Pool block addr
(28)	CHARACTER	4	PTTWSB_USERTOKEN	User token
(2C)	CHARACTER	16	PTTWSB_PARTNERS (4294967298:130204304)	A partner's defn
(2C)	UNSIGNED	4	PTTWSB_ TRIGSTATE	Trigger state
(30)	UNSIGNED	4	PTTWSB_COMPCODE	Completion code
(34)	CHARACTER	8	PTTWSB_XMTOK	XM token

Constants

Table 541.

Len	Type	value	Name	Description
Value of pttwpb_eyecatcher.				
8	CHARACTER	>PTTWPB	PTTWPB_EYE_VALUE	
Values for pttwpb_state. This is a list of all the states that the pool block can take. The numeric values of the pool, partnership and trigger states are different to one another so that any bug in the code which accidentally assigns a pool state to a partnership state (for instance) is more likely to show up.				
4	DECIMAL	0	PTTWPB_STATE_ UNDEFINED	
4	DECIMAL	1	PTTWPB_STATE_EMPTY	
4	DECIMAL	2	PTTWPB_STATE_ NOT_EMPTY	
4	DECIMAL	3	PTTWPB_STATE_ QUIESCING	
Value of pttwsb_eyecatcher.				
8	CHARACTER	>PTTWSB	PTTWSB_EYE_VALUE	
Values for pttwsb_state. This is a list of all the states that the state block can take.				
4	DECIMAL	0	PTTWSB_STATE_ UNDEFINED	
4	DECIMAL	4	PTTWSB_STATE_CREATED	
4	DECIMAL	5	PTTWSB_STATE_ PARTIALLY_MADE	
4	DECIMAL	6	PTTWSB_STATE_MADE	
4	DECIMAL	7	PTTWSB_STATE_DELETED	
Values for pttwsb_trigstate. This is a list of all the states that each partner's trigger object can have.				

Table 541. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1	PTTWSB_TRIGSTATE_ UNDEFINED	
4	DECIMAL	2	PTTWSB_TRIGSTATE_ VALID	
4	DECIMAL	4	PTTWSB_TRIGSTATE_ WAITING	
4	DECIMAL	3	PTTWSB_TRIGSTATE_ TRIGGERED	
4	DECIMAL	5	PTTWSB_TRIGSTATE_ RESUMED	
--! Trace point ids for PTDM in the range 0000 to 00FF. ! --!				
2	NUMB HEX	0000	TID_PTDM_ENTRY	
2	NUMB HEX	0001	TID_PTDM_EXIT	
2	NUMB HEX	0002	TID_PTDM_RECOVERY	
2	NUMB HEX	0003	TID_PTDM_ ADD_SUBPOOL_FAILED	
2	NUMB HEX	0004	TID_PTDM_ GETMAIN_FAILED	
2	NUMB HEX	0005	TID_PTDM_ SET_ANCHOR_FAILED	
2	NUMB HEX	0006	TID_PTDM_ CREATE_DIR_FAILED	
2	NUMB HEX	0007	TID_PTDM_ ADD_GATE_FAILED	
--! Trace point ids for PTTW in the range 0100 to 01FF. ! --!				
2	NUMB HEX	0100	TID_PTTW_ENTRY	
2	NUMB HEX	0101	TID_PTTW_EXIT	
2	NUMB HEX	0102	TID_PTTW_ EXC_INV_FORMAT	
2	NUMB HEX	0103	TID_PTTW_ EXC_INV_FUNCTION	
2	NUMB HEX	0104	TID_PTTW_ EXC_INV_TIMED_OUT	
2	NUMB HEX	0105	TID_PTTW_EXC_PURGED	
2	NUMB HEX	0106	TID_PTTW_ EXC_GETMAIN_FAILED	
2	NUMB HEX	0107	TID_PTTW_ EXC_ADD_ENTRY_ FAILED	
2	NUMB HEX	0108	TID_PTTW_ EXC_DEL_ENTRY_ FAILED	

Table 541. (continued)

Len	Type	value	Name	Description
2	NUMB HEX	0109	TID_PTTW_ EXC_POOL_NOT_FOUND	
2	NUMB HEX	010A	TID_PTTW_ EXC_STATE_NOT_ FOUND	
2	NUMB HEX	010B	TID_PTTW_ EXC_LOCATE_FAILED	
2	NUMB HEX	010C	TID_PTTW_ EXC_CORRUPT_POOL	
2	NUMB HEX	010D	TID_PTTW_ EXC_CORRUPT_STATE	
2	NUMB HEX	010E	TID_PTTW_ EXC_ADD_SUS_FAILED	
2	NUMB HEX	010F	TID_PTTW_ EXC_DEL_SUS_FAILED	
2	NUMB HEX	0110	TID_PTTW_ EXC_INQ_TXN_FAILED	
2	NUMB HEX	0111	TID_PTTW_ EXC_RESUME_FAILED	
2	NUMB HEX	0112	TID_PTTW_ EXC_SUSPEND_FAILED	
2	NUMB HEX	0113	TID_PTTW_ EXC_RESUME_TIMED_ OUT	
2	NUMB HEX	0114	TID_PTTW_RECOVERY	
2	NUMB HEX	0115	TID_PTTW_WHOAMI	
2	NUMB HEX	0116	TID_PTTW_ STATE_BLOCK_FOUND	
2	NUMB HEX	0117	TID_PTTW_ TRIGSTATE_CHANGE	
2	NUMB HEX	0118	TID_PTTW_ EXC_INV_STATE	

TCPRA Receive any control element

```
! BI-LINGUAL Control Block
!==================================================================
!
!MODULE NAME = DFHTCPRA
!
!DESCRIPTIVE NAME  = CICS Receive Any Control Element
!
!
!FUNCTION =
!Receive Any Control Elements (RACE) are obtained at initialisation
!time by DFHZRPL.
!Each element is a control block used when processing a
!Receive Any RPL. The RACE contains the ECB and a pointer to the
!RPL. RACEs are contained in a pool pointed to by the TCTVRVRA field
!of the terminal control table prefix.
!
```

```
! @BANNER_START 02
! DFHTCPRA
! Licensed Materials - Property of IBM
!
! "Restricted Materials of IBM"
!
! 5655-S97
!
!
!
!
!
! @BANNER_END
!
!
!
!==================================================================
! Receive Any Pool
!==================================================================
```

Table 542.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	DFHTCPRA	
(0)	CHARACTER	4	TCTVRAPS	Receive Any Pool start !
(0)	UNSIGNED	1	TCTVRAB	Receive Any control byte !
	1...		TCTVRRS	Receive Specific required !
	.1..		TCTVRQP	Purge receive queue !
	..1.		TCTVRAG	TIOA GETMAIN required !
	...1		TCTVLRP	Last RPL in pool flag !
	.... 1...		TCTVRAI	RAIA GETMAIN required !
	.... .1..		TCTVROL	Overlength data GETMAIN rqd. !
	.... ..1.		TCTVRGM	RPL GETMAIN required !
	1		TCTVRAA	Receive Any not active !
(1)	UNSIGNED	1	TCTVRAB2	Receive Any control byte 2 !
	1...		TCTVWBC	Waiting for BID completion !
	.1..		TCTVCMR	Command response outstanding !
	..1.		TCTVRSN	Data from RECEIVE SPECIFIC NQ!
	...1		TCTVSRA	Stop issuing RECEIVE ANY !
	.... 1...		TCTVIAP	Invalid TCTTE address passed !

Table 542. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		TCTVSAS	Send asyn req outstanding
	.... ..1.		TCTVEXC	*exc* trace already writn
	1		TCTVCFO	CLSDST force issued @PQ19528A
(2)	HALFWORD	2	TCTVRAGN	Number of bytes for GETMAIN !
(4)	ADDRESS	4	TCTVRAL	Receive Any RPL address !
(8)	UNSIGNED	4	TCTVRAEB	Receive Any ECB @P4C!
	1...		TCTVRAEB_ WAITING	ECB in waiting state @P4A!
	.1..		TCTVRAEB_POSTED	ECB in posted state @P4A!
(8)	BIT(30) POS(3)	4	*	@02C!
(C)	ADDRESS	4	TCTVRAF1	Reserved @02A!
(10)	ADDRESS	4	TCTVRAF2	Reserved @02A!
(14)	ADDRESS	4	TCTVRAF3	Reserved @02A!
(18)	CHARACTER	8	TCTVRATI	TOD at time send issued

RCS Recovery Control Static Storage

```
CONTROL BLOCK NAME = DFHRCSPS
DESCRIPTIVE NAME  = CICS RECOVERY CONTOL STATIC STORAGE
 @BANNER_START 02
                    DFHRCSPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
    Static storage used by recovery control component for
    ECBS AND ANCHORS FOR THREAD MANAGEMENT.
    There is a single instance of this control block in a CICS
    system.
    It is allocated and initialized to hex zeroes in DFHSIB1.
    It has the lifetime of the CICS system.
LIFETIME =
    It is allocated and initialized to hex zeroes in DFHSIB1.
    It has the lifetime of the CICS system.
STORAGE CLASS =
    CICS static storage.
LOCATION =
    Addresses from static storage address list.
 INNER CONTROL BLOCKS =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 ----------------------------------------------------------------
 EXTERNAL REFERENCES = None
```

```
        DATA AREAS = None
        CONTROL BLOCKS = None
        GLOBAL VARIABLES (Macro pass) = None
    -----------------------------------------------------------------
              RECOVERY CONTROL PROGRAM STATIC STORAGE
```

Table 543.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	RCSTATIC	
(0)	CHARACTER	9	*	Reserved
(9)	BIT(8)	1	*	
	1...		*	Reserved
	.1..		RCSCPPST	restart complete post bit
(A)	BIT(8)	1	*	
	1...		*	Reserved
	.1..		RCS_STP_ END_EVENT	STP keypoint ended
(B)	BIT(8)	1	*	
	1...		*	Reserved
	.1..		RCS_WARM_ KEYPOINT_EVENT	
				ready for keypoint
(C)	FULLWORD	4	RCS_RECORD_COUNT	User log record count
(10)	ADDRESS	4	RCS_AID_CHAIN	AID chain
(14)	CHARACTER	4	*	Reserved
(18)	CHARACTER	0	RCSTATLN	End

RLRDS Resource Lifecycle Resource Statistics

```
                CONTROL BLOCK NAME = DFHRLRDS
                DESCRIPTIVE NAME  = CICS ResLife Statistics for BUNDLEs
                   @BANNER_START 02
                                     DFHRLRDS
                   Licensed Materials - Property of IBM
                   "Restricted Materials of IBM"
                   5655-S97
                   @BANNER_END
                FUNCTION =
                       This block described the statistics collected by the ResLife
                       Domain.
                       There is an instance of this block for each bundle for
                       which statistics have been requested.
                LIFETIME = This block exists until the statistics request has been
                       satisfied.
                STORAGE CLASS =
                LOCATION = The user is passed a pointer to the head of the block
                INNER CONTROL BLOCKS = None
                NOTES :
                   DEPENDENCIES = S/370
                   RESTRICTIONS = None
                   MODULE TYPE = Control block definition
                 -----------------------------------------------------------------
                EXTERNAL REFERENCES = None
                   DATA AREAS = None
```

```
           CONTROL BLOCKS = None
           GLOBAL VARIABLES (Macro pass) = None
      ----------------------------------------------------------------
           ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHRLRDS IS
           NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
           PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 544.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHRLRDS	ResLife Bundle Resid stats record
(0)	HALFWORD	2	RLRDS_LEN	ResLife Bundle stats record length
(2)	ADDRESS	2	RLRDS_ID	ResLife Bundle stats id
(4)	CHARACTER	1	RLRDS_VERS	ResLife Bundle stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	RLR_BUNDLE_NAME	Bundle name
(10)	BITSTRING	8		Reserved
(18)	CHARACTER	255	RLR_BUNDLE_ DIRECTORY	
				Bundle directory
(117)	BITSTRING	1		Reserved
(118)	CHARACTER	255	RLR_BUNDLE_ BASESCOPE	
				Bundle basescope
(217)	BITSTRING	1		Reserved
(218)	BITSTRING	16		Reserved
(228)	BITSTRING	16		Reserved
(238)	CHARACTER	8	RLR_BUNDLE_ DEFINE_SOURCE	
				Group installed from
(240)	BITSTRING	8	RLR_BUNDLE_ CHANGE_TIME	
				Change/create time
(248)	CHARACTER	8	RLR_BUNDLE_ CHANGE_USERID	
				Change userid
(250)	BITSTRING	2	RLR_BUNDLE_ CHANGE_AGENT	
				Change agent
(252)	BITSTRING	2	RLR_BUNDLE_ INSTALL_AGENT	
				Install agent
(254)	BITSTRING	8	RLR_BUNDLE_ INSTALL_TIME	
				Install/Create time

Table 544. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(25C)	CHARACTER	8	RLR_BUNDLE_INSTALL_USERID	
				Install userid
(25C)		0	RLRDS_END	"*"
(25C)		0	RLRDS_LENGTH	"*-RLRDS_LEN" ResLife Bundle record length
Constants that denote a RL Bundle stats record				
(25C)	SIGNED	0	RLRIDR	"100" ResLife Bundle resid stats id
(25C)	BITSTRING	0	RLR_VERS	"X'01'" Record version number
(25C)	SIGNED	0	RLR_BUNDLE_CSDAPI_CHANGE	
				"0001" Change Agent - CSD API
(25C)	SIGNED	0	RLR_BUNDLE_CSDBATCH_CHANGE	
				"0002" Change Agent - DFHCSDUP
(25C)	SIGNED	0	RLR_BUNDLE_DREPAPI_CHANGE	
				"0003" Change Agent - DREP API
(25C)	SIGNED	0	RLR_BUNDLE_CREATE_CHANGE	
				"0004" Change Agent - CREATE SPI
(25C)	SIGNED	0	RLR_BUNDLE_CSDAPI_INSTALL	
				"0001" Install Agent - CSD API
(25C)	SIGNED	0	RLR_BUNDLE_CREATE_INSTALL	
				"0004" Install Agent - CREATE SPI
(25C)	SIGNED	0	RLR_BUNDLE_GRPLIST_INSTALL	
				"0005" Install Agent - GRPLIST

RMG Recovery Manager Global statistics

```
CONTROL BLOCK NAME = DFHRMGDS
DESCRIPTIVE NAME  = CICS Recovery Manager Statistics
   @BANNER_START 02
                      DFHRMGDS
Licensed Materials - Property of IBM
```

```
                   "Restricted Materials of IBM"
                   5655-S97
                   @BANNER_END
            FUNCTION =
                   This data area contains global statistics provided by the
                   Recovery Manager Domain.
                   It is provided for use in users monitoring applications
                   to map the statistics returned via the API, the statistics
                   exit, or offline formatting products.
                   There is a single instance of this data block.
            LIFETIME =
                   This data block is created by the Recovery Manager
                   Domain to store statistics to be passed to the user in
                   response to a request for statistics. The storage is
                   released when the user task is detached.
            STORAGE CLASS =
            LOCATION =
                   The user is passed a pointer to the head of the storage
                   block.
            INNER CONTROL BLOCKS = none
            NOTES :
               DEPENDENCIES = S/370
               RESTRICTIONS = none
               MODULE TYPE = Domain call buffer
         ----------------------------------------------------------------
            EXTERNAL REFERENCES = none
               DATA AREAS = none
               CONTROL BLOCKS = from recovery manager domain
               GLOBAL VARIABLES (Macro pass) = none
         ----------------------------------------------------------------
            ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHRMGDS IS
            NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
            PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 545.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHRMGDS	Recovery Manager Global statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	RMGLEN	Length of data area
(0)	SIGNED	0	RMGIDE	"0099" Recovery Manager statistics id mask
(2)	ADDRESS	2	RMGID	Recovery Manager statistics id
(2)	BITSTRING	0	RMGVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	RMGDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	FULLWORD	4	RMGSYFWD	Total syncpoints forward
(C)	FULLWORD	4	RMGSYBWD	Total syncpoints backward
(10)	FULLWORD	4	RMGRESYN	Total resynchronisations
(14)	FULLWORD	4	RMGTSHIN	Total shunted uows for indoubt

Table 545. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER	8	RMGTSHTI	Total time shunted for indoubt (STCK)
(20)	FULLWORD	4	RMGCSHIN	Current uows shunted for indoubt
(24)	CHARACTER	8	RMGCSHTI	Current time shunted indoubt (STCK)
(2C)	FULLWORD	4	RMGTSHRO	Total ouws shunted for RO commit fail
(30)	CHARACTER	8	RMGTSHTR	Total time shunted for RO fail (STCK)
(38)	FULLWORD	4	RMGCSHRO	Current ouws shunts RO commit fail
(3C)	CHARACTER	8	RMGCSHTR	Current time shunted RO fail (STCK)
The following fields show a breakdown of the possible integrity exposures due to forced termination of indoubt waits.				
(44)	FULLWORD	4	RMGIAFTR	Total forced Indoubt Actions-trandef
(48)	FULLWORD	4	RMGIAFTI	Total forced Indoubt Actions-timeout
(4C)	FULLWORD	4	RMGIAFNW	Total forced Indoubt Actions-nowait
(50)	FULLWORD	4	RMGIAFOP	Total forced Indoubt Actions-operator
(54)	FULLWORD	4	RMGIAFOT	Total forced Indoubt Actions-other
(58)	FULLWORD	4	RMGIAMIS	Total Indoubt Action mismatches
The following fields show a breakdown of the possible integrity exposures due to forced termination of indoubt waits as a result of a communicating system/resource manager or resource not being able to support indoubt waiting and is therefore a subset of RMGIAFNW.				
(5C)	FULLWORD	4	RMGNWTD	Total forced for no waiting in TD
(60)	FULLWORD	4	RMGNW61	Total forced for no waiting in LU61
(64)	FULLWORD	4	RMGNWMRO	Total forced for no waiting in MRO
(68)	FULLWORD	4	RMGNWRMI	Total forced for no waiting in RMI
(6C)	FULLWORD	4	RMGNWOTH	Total forced for no waiting in other
(6C)		0	RMGEND	"*"

RMUXC Recovery Manager Domain Inline Access

Table 546.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	238	RMUX_INLINE_ ACCESS_STRUCTURE	
(0)	CHARACTER	8	RMUX_LOCAL_ UOW_ID	
(8)	CHARACTER	27	RMUX_REMOTE_ UOW_ID	
(8)	UNSIGNED	1	RMUX_REMOTE_ ID_LENGTH	
(9)	UNSIGNED	1	RMUX_REMOTE_ ID_LU_NAME_LENGTH	
(A)	CHARACTER	25	*	
(23)	BIT(8)	1	RMUX_FLAGS	
	1...		OPTIMAL_ CLIENTS_ONLY	
				Only optimal clients are involved in this UOW.
	.1..		CALL_NOTIFY_ END_OF_UOW	
				call dfhdyp at enduow
(24)	CHARACTER	4	*	
(28)	ADDRESS IsA(RM_WORK_TOKEN)	8	RMUX_WORK_ TOKEN_ARRAY (4294967318:130202488)	
(28)	CHARACTER	4	*	
(2C)	ADDRESS	4	SHORT	
(D8)	CHARACTER	22	RMUX_CLIENT_ STATES	
(D8)	BIT(8)	1	CLIENT_STATE (4294967318:130203408)	
	1...		COMMIT_ COMPLETE	has locally committed!
	.111 1111		*	

Constants

Table 547.

Len	Type	value	Name	Description
1	DECIMAL	22	RMUX_MAX_RO	

SAA Storage accounting area

```
CONTROL BLOCK NAME = DFHSAAPS
DESCRIPTIVE NAME  = CICS Storage Accounting Area.
 @BANNER_START 02
                        DFHSAAPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition
    ----------------------------------------------------------------
```

Table 548.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	DFHSAADS	
(0)	CHARACTER	1	SAASCI	STORAGE CLASS IDENTIFICATION
(1)	CHARACTER	1	SAASFI	STORAGE FORMAT IDENTIFICATION
(2)	UNSIGNED	2	SAASAD	STORAGE AREA SIZE
(4)	ADDRESS	4	SAASACA	STORAGE ACCOUNTING CHAIN

SAB Subsystem anchor block

```
CONTROL BLOCK NAME = DFHSABDS
DESCRIPTIVE NAME  = CICS Subsystem Anchor Block
   @BANNER_START 02
                        DFHSABDS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
      Contains addresses of CICS component control block
      storage which exists until re-IPL.
      Certain CICS components require control blocks which
      are accessible by all CICS systems run in a CEC.
      The SAB is used to anchor such control block storage.
      The MVS SSCT is used to anchor the SAB and CICS
      components use the MVS SSI VERIFY request to obtain
      the address of the SSCT itself.
      One SAB exists only, which is created by the first
      CICS component to require it after IPL. Subsequent
      CICS components update it as appropriate.
      The user components are:
            IRC - DFHIRP
            XRF - DFHWTI
LIFETIME =
      Created by first user after IPL.
      Exists until re-IPL.
STORAGE CLASS =
      MVS Common Service Area storage.
LOCATION =
      Address in MVS SSCTSUSE.
INNER CONTROL BLOCKS =
```

```
        None
NOTES :
   DEPENDENCIES = none
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
 ------------------------------------------------------------------
  EXTERNAL REFERENCES =
        None
    DATA AREAS =
        None
    CONTROL BLOCKS =
        None
    GLOBAL VARIABLES (Macro pass) =
        None
 ------------------------------------------------------------------
```

Table 549.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSABDS	
(0)	ADDRESS	4	SABCDD	Address of XRF CEC Dead Data
(4)	ADDRESS	4	SABSCTE	Address of IRC SCTE
(8)	CHARACTER	6	SABACRON	Eyecatcher 'DFHSAB'
(E)	SIGNED	1	SABVERSN	Version of control block
(E)	SIGNED	0	SABV211	"1" Version 2.1.1 SPE SAB
(E)	SIGNED	0	SABV620	"2" Version 6.2.0 SPE SAB
(F)	BITSTRING	1	SABFLAG1	First flag byte
(F)	BITSTRING	0	SAB1FMT	"X'80'" - reformat CICS messages
(F)	BITSTRING	0	SAB1SEC	"X'40'" - protect security msgs
(F)	BITSTRING	0	SAB1GRC	"X'20'" - generic routecodes supplied
(10)	ADDRESS	4	SABSSCT	Address of Subsystem CVT
(14)	ADDRESS	4	SABPNDPW	Pending password requests
(18)	ADDRESS	4	SABMAPPT	Addr of addr-space bitmap
(1C)	FULLWORD	4	SABMAPLN	Len of addr-space bitmap
(20)	BITSTRING	16	SABGROUT	Generic Routecodes
(30)	FULLWORD	4	SABLGLIM	Actual logon limit for the address space
(30)	SIGNED	0	SABLGDFT	"100" Default logon limit for the address space
(30)	SIGNED	0	SABLGMIN	"100" Minimum logon limit for the address space

Table 549. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	SIGNED	0	SABLGMAX	"250" Maximum logon limit for the address space
(30)		0	SABL	"*-DFHSABDS" Length

```
              SUBSYSTEM CONTROL TABLE EXTENSION
       THE SCTE IS USED BY THE SVC TO CONTROL THE EXISTENCE
       OF THE LACB (LOGON ADDRESS CONTROL BLOCK).
```

Table 550.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SCTE	
(0)	ADDRESS	4	SCTELACB	Address of LACB
(4)	SIGNED	3	SCTECNT	NUMBER OF 'ASSOCIATED' address spaces
(7)	SIGNED	1	SCTEMOD#	SCTE modification no. - potentially allows DFHIRP control blocks or algorithms to be changed at LACB create time without an IPL by using the dynamic LPA facility, but beware the XCF DIE page fix problem!
(7)	SIGNED	0	SCTEMOD1	"1" SCTE modification 1 - CICS/TS 2.2
(8)	FULLWORD	4		Reserved - must not be deleted
(C)	HALFWORD	2	SCTESVCI	INSTRUCTION TO INVOKE CICS SVC - offset must never change (SDB, batch DPL)
(E)	ADDRESS	1	SCTEVER#	SCTE version no. - indicates level of associated DFHIRP control blocks
(E)	SIGNED	0	SCTEVER1	"1" SCTE version 1 - CICS 4.1
(E)	SIGNED	0	SCTEVER2	"2" SCTE version 2 - CICS 5.1
(E)	SIGNED	0	SCTEVER3	"3" SCTE version 3 - CICS/TS 2.2
(F)	BITSTRING	1	SCTEFLGS	Various flags
(F)	BITSTRING	0	SCTEFSP4	"X'80'" MVS includes XCF support (SP4 plus)

Table 550. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F)	BITSTRING	0	SCTEFXCF	"X'40'" XCF level satisfies all IRP's needs
(F)		0	SCTELEN	"*-SCTE" LENGTH OF SCTE ENTRY

SDG Dump domain global statistics

```
CONTROL BLOCK NAME = DFHSDGDS
DESCRIPTIVE NAME  = CICS Dump Domain Global Statistics
                       (System dumps)
    @BANNER_START 02
                        DFHSDGDS
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION = A record containing Dump Domain Global Statistics
        This DSECT describes the global system dump statistics
        Produced by the Dump Domain. A single instance of the data
        is produced by the Dump Domain. Additional copies may be
        created by the statistics domain, statistics utility
        programs or user programs.
        The data consists of a header plus a block of statistics
        for the Dump domain.
LIFETIME = Created when the Dump Domain is initialised and
            exists for the lifetime of the domain manager.
STORAGE CLASS = varies
LOCATION = User is passed a pointer to the storage
INNER CONTROL BLOCKS = None
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
  -------------------------------------------------------------------
  EXTERNAL REFERENCES = None
      DATA AREAS = None
      CONTROL BLOCKS = In Dump Domain
      GLOBAL VARIABLES (Macro pass) = None
  -------------------------------------------------------------------
```

Table 551.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSDGDS	System Dump Global statistics
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	SDGLEN	Length of data area
(0)	SIGNED	0	SDGIDE	"90" System dump global stats id mask
(2)	ADDRESS	2	SDGID	System dump global stats id
(2)	BITSTRING	0	SDGVERS	"X'01'" Stats version number mask
(4)	CHARACTER	1	SDGDVERS	Dump domain global stats version

Table 551. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	SYS_DUMPS_TAKEN	Number of system dumps taken
(C)	FULLWORD	4	SYS_DUMPS_SUPPR	Number of system dumps suppressed
(C)		0	SDGEND	"*"
(C)		0	SDGCLEN	"*-DFHSDGDS" Length of DSECT

SDR Dump domain system dump statistics

```
                        CONTROL BLOCK NAME = DFHSDRDS
                        DESCRIPTIVE NAME  = CICS Dump Domain System Dump Statistics
                                        (by dumpcode)
                           @BANNER_START 02

                                        DFHSDRDS
                           Licensed Materials - Property of IBM
                           "Restricted Materials of IBM"
                           5655-S97
                           @BANNER_END
                        FUNCTION = A record containing Dump Domain System Dump Stats
                                This DSECT describes the statistics produced by the Dump
                                Domain for each system dumpcode. There will be one
                                instance of the data for each dumpcode for which statistics
                                were requested.
                                The data consists of a header plus a block of statistics
                                for the Dump domain.
                        LIFETIME = Created when the Dump Domain is initialised and
                                    exists for the lifetime of the Dump Domain.
                        STORAGE CLASS =
                        LOCATION = User is passed a pointer to the storage
                        INNER CONTROL BLOCKS = None
                        NOTES :
                           DEPENDENCIES = S/370
                           RESTRICTIONS = None
                           MODULE TYPE = Control block definition
                        -------------------------------------------------------------------
                        EXTERNAL REFERENCES = None
                            DATA AREAS = None
                            CONTROL BLOCKS = In Dump Domain
                            GLOBAL VARIABLES (Macro pass) = None
                        -------------------------------------------------------------------
```

Table 552.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSDRDS	Dump domain system dump stats
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	SDRLEN	Length of data area
(0)	SIGNED	0	SDRIDE	"88" Dump domain system stats id mask
(2)	ADDRESS	2	SDRID	Dump domain system stats id

Offset Hex	Type	Len	Name (dim)	Description
(2)	BITSTRING	0	SDRVERS	"X'01'" DSECT version number
(4)	CHARACTER	1	SDRDVERS	Domain data format version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	SDRCODE	Dumpcode
(10)	FULLWORD	4	SDRSTKN	Number of system dumps taken
(14)	FULLWORD	4	SDRSSUPR	Number of system dumps suppressed
(18)	FULLWORD	4	SDRTTKN	Number of tran dumps taken (unused)
(1C)	FULLWORD	4	SDRTSUPR	Number of tran dumps suppressed
(1C)		0	SDREND	"*"
(1C)		0	SDRCLEN	"*-SDRLEN" Length

SETCC SET Storage Control (in FLAB and FRTE) *LGC

```
CONTROL BLOCK NAME = DFHSETCC
DESCRIPTIVE NAME  = CICS Set Storage Control
 @BANNER_START 02
                      DFHSETCC
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     DFHSSC describes the DSECT for the Set Storage Control
     area. This area describes the address, length, location
     (above or below) and key (CICS or USER) of storage that
     is returned in response to requests that specify the
     keyword SET.
     The Set Storage Control dsect is intended to be imbedded
     within other dsects. It may be used by any component
     that allocates SET storage.
     For example, the Set Storage Control dsect is used by File
     Control. It is imbedded within the FRTE, where it is used
     to describe SET storage acquired by READ UPDATE SET,
     READNEXT SET and READPREV SET requests. It is also
     imbedded within the FLAB where it is used to describe
     storage acquired by READ SET requests.
LIFETIME =
     Lifetime of control block that imbeds DFHSETCC. See
     comments in description of appropriate control block.
STORAGE CLASS =
     See control block that imbeds DFHSETCC.
LOCATION =
     See control block that imbeds DFHSETCC.
INNER CONTROL BLOCKS =
     None.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition.
```

Table 553.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	DFHSSC	
(0)	ADDRESS	4	SSC_SET_ADDRESS	Set storage address
(4)	HALFWORD	2	SSC_SET_LENGTH	Set storage length
(6)	BIT(8)	1	SSC_SET_FLAGS	Flag byte
	1...		SSC_SET_BELOW	Storage below line
	.1..		SSC_SET_CICS	Storage in CICS key
	..11 1111		*	Reserved
(7)	CHARACTER	1	*	Reserved

SIP System initialization program

```
MODULE NAME = DFHSIPDS
DESCRIPTIVE NAME  = CICS SYSTEM INITIALIZATION PROGRAM
                              COMMUNICATION AREA
   @BANNER_START 02
                       DFHSIPDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = COMMUNICATION AREA FOR INITIALIZATION.
 MACROS = DFHSIPD
```

Table 554.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSIPDS	
(0)	DBL WORD	8	SIPCOM (0)	LABEL FOR ADDRESSABILITY
INITIALIZATION SUBROUTINE ADDRESSES				
(0)	ADDRESS	4	SIPOSUP	ADDRESS OF OVERLAY SUPERVISOR
(4)	ADDRESS	4		Reserved
(8)	ADDRESS	4	SIPLDER	ADDRESS OF LOADER ROUTINE IN APSIP
(C)	ADDRESS	4	SIPPUT	ADDRESS OF CONSOLE PUT ROUTINE
(10)	ADDRESS	4	SIPCORE	ADDRESS OF GETMAIN ROUTINE
CONTROL AREA AND PROGRAM ADDRESSES				
(14)	ADDRESS	4	SIPCSA	ADDRESS OF DFHCSA
(18)	ADDRESS	4	SIPSIT	ADDRESS OF DFHSIT
(1C)	ADDRESS	4	SIPBASER	DFHSIP BASE ADDRESS

Table 554. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	ADDRESS	4	SIPDMSTK	A (kernel stack) at entry to SIP
(24)	ADDRESS	4	SIPDMPLP	kernel plist pointer at entry to SIP
(28)	ADDRESS	4	SIPSTACK	A(kernel stack) for task entering one of the closed subroutines in DFHSIP
(2C)	ADDRESS	4	(6)	Reserved
(44)	ADDRESS	4	SIPDMSRA	A(SIPDMSR) = DOMAIN MANAGER TASK SYNCHRONIZATION ROUTINE
(48)	ADDRESS	4	(3)	Reserved
(54)	ADDRESS	4	SIPDMPRA	A(SIPGFTCT - the routine which posts APDM task when insufficient storage detected by TCP task
(58)	ADDRESS	4	(2)	Reserved
REGISTER SAVE AREAS FOR USE BY DFHSIP				
(60)	FULLWORD	4	SIPSAVE (16)	GENERAL REGISTER SAVE AREA
(A0)	FULLWORD	4	SIPUTSV (16)	PUTSAVE REGISTER SAVE AREA
Flag bytes for controlling program loading These same equates are used in SIPNUCTB in DFHSIB1				
(E0)	BITSTRING	2		Reserved
(E2)	BITSTRING	1	SIPFLAG	FLAG BYTE
(E2)	BITSTRING	0	SIPBLNUC	"X'80'" .. BLDL FOR NUCLEUS MODULE
(E2)	BITSTRING	0	SIPPRVMD	"X'40'" .. MODULE MUST BE IN PRIVATE AREA (AND NOT SHARED)
(E2)	BITSTRING	0	SIPSHRMD	"X'20'" .. MODULE MUST BE IN SHARED AREA
(E2)	BITSTRING	0	SIPSHRPL	"X'10'" .. SHARED PL/I MODULES FLAG
(E2)	BITSTRING	0	SIPBLNAB	"X'04'" .. NUCLEUS-BUILD ABEND FLAG
(E2)	BITSTRING	0	SIPBLERR	"X'02'" .. MODULE NOT FOUND

Table 554. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E2)	BITSTRING	0	SIPERR	"X'02'" .. ERROR RESPONSE
(E2)	BITSTRING	0	SIPSFXBL	"X'01'" .. SUFFIXABLE MODULE FLAG
(E3)	BITSTRING	1	SIPERFLG	INITIALIZATION/ ERROR FLAGS
(E3)	BITSTRING	0	SIPCNCLR	"X'80'" .. CANCEL REQUESTED AFTER MSG DFH1596
(E3)	BITSTRING	0	SIPLDERR	"X'08'" .. LOAD ERROR FLAG (OS-ONLY)
(E4)	BITSTRING	1	SIPFLAG3	Flag Byte 3
(E4)	BITSTRING	0	SIP2PLT	"X'80'" .. A PLT PROGRAM EXISTS THAT RUNS DURING THE 2ND STAGE OF INITIALIZATION
(E4)	BITSTRING	0	SIP3PLT	"X'40'" .. A PLT PROGRAM EXISTS THAT RUNS DURING THE 3RD STAGE OF INITIALIZATION
(E5)	BITSTRING	1	SIPFLAG4	FLAG BYTE 4
(E5)	BITSTRING	0	SIPF31B	"X'10'" ..GET DOMAIN STORAGE FROM 31BIT SUBPOOL
(E5)	BITSTRING	0	SIPFDOSA	"X'02'" ..GETMAIN TO RETURN ADDR PAST LENGTH FD
	PARAMETER PASSING FIELDS			
(E8)	FULLWORD	4	SIPARMP1	PARAMETER PASS FIELDS
(EC)	FULLWORD	4	SIPARMP2	PARAMETER PASS FIELDS
(F0)	FULLWORD	4	SIPARMP3	PARAMETER PASS FIELDS
(F4)	FULLWORD	4	SIPARMP4	PARAMETER PASS FIELDS
(F8)	FULLWORD	4	SIPARMP5	PARAMETER PASS AREA
(FC)	FULLWORD	4	SIPARMP6	PARAMETER PASS AREA
(100)	FULLWORD	4	SIPARMP7	PARAMETER PASS AREA

Table 554. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(104)	FULLWORD	4	SIPARMP8	PARAMETER PASS AREA
(108)	FULLWORD	4	SIPARMP9	PARAMETER PASS AREA
Program Loader / Overlay Supervisor -- Work & parameters				
(10C)	CHARACTER	8	SILISTID	PROGRAM ID
Multitasking control areas				
(114)	FULLWORD	4		Reserved
(118)	FULLWORD	4	SIPDMTEC	DOMAIN MANAGER TASK ECB
SM Domain domain storage tokens				
(11C)	CHARACTER	8	SIPDS24B	storage token CICS key & below 16M
(124)	CHARACTER	8	SIPDSANY	storage token CICS key & above 16M
(12C)	CHARACTER	16	SIPDS64A	storage token CICS key & above bar
(13C)	CHARACTER	8	SIPDU24B	storage token User key & below 16M
(144)	CHARACTER	8	SIPDUANY	storage token User key & above 16M
(14C)	CHARACTER	16	SIPDU64A	storage token User key & above bar
COMMUNICATION AREA - DFHSIH1 TO DFHSII1 TO DFHSIJ1				
(15C)	FULLWORD	4	CHKRLSAV	SAVE SIPBAR
(160)	ADDRESS	4	SIPCICNA	
(164)	ADDRESS	4	SIPITCAP	A(TCA acquired during initialization)
(168)	FULLWORD	4	SIPPLTAD	ADDRESS OF PLTPI ENTRY POINT
(16C)	FULLWORD	4	(4)	Reserved
(17C)	FULLWORD	4	SIPPLTE1	Early PLT complete ECB
(180)	FULLWORD	4	SIPPLTE2	Start late PLT ECB
(184)	FULLWORD	4	SIPPLTE3	Late PLT complete ECB
(184)		0	SIPCOMEA	"*" END OF INITIALIZATION COMMUNICATIONS AREA

SIT System initialization table

```
                CONTROL BLOCK NAME = DFHSITPS
                DESCRIPTIVE NAME  = CICS SYSTEM INITIALIZATION TABLE
                @BANNER_START 02
                                    DFHSITPS
                Licensed Materials - Property of IBM
                "Restricted Materials of IBM"
                5655-S97
                @BANNER_END
                FUNCTION =
                        Mapping of the CICS System Initialization Table
                NOTES :
                 DEPENDENCIES = S/370
                 RESTRICTIONS = NONE
                 REGISTER CONVENTIONS = NOT APPLICABLE
                 PATCH LABEL = NOT APPLICABLE
                 MODULE TYPE = MACRO
                 MODULE SIZE = NOT APPLICABLE
                 ATTRIBUTES = NOT APPLICABLE
                MACROS : None
               ------------------------------------------------------------
               ------------------------------------------------------------
               ------------------------------------------------------------
```

Table 555.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	3752	DFHSITPS	System Initialization Table
(0)	CHARACTER	0	SITPSBA	Table entry point
OPERATING SYSTEM AND CICS LEVELS				
(0)	CHARACTER	1	SITOPSYS	Operating System
(1)	CHARACTER	1	SITOPREL	Operating System Release
(2)	CHARACTER	1	SITCICS	CICS system
(3)	UNSIGNED	1	SITCIREL	CICS release
(4)	UNSIGNED	1	SITCIMOD	CICS modification level
(5)	CHARACTER	3	*	Reserved
LENGTHS OF SIT AND CWA				
(8)	HALFWORD	2	SITLEN	Length of SIT
(A)	HALFWORD	2	SITCWA	Required CWA size
(C)	FULLWORD	4	*	Reserved
ADDRESS CONSTANTS				
(10)	ADDRESS	4	DFHDLL	Address of DL/I link list
(14)	FULLWORD	4	DFHAPT	Reserved
(18)	ADDRESS	4	SITCOMA	Communications area address

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	ADDRESS	4	SITOVRPM	Address of override parms
(20)	ADDRESS	4	SITINTPM	Address of SITINIT parms
(24)	ADDRESS	4	SITSRPAE	Reserved
(28)	ADDRESS	4	SITPRVMA	Address of prvmod list
	TIME CONTROL VALUES			
(2C)	HALFWORD	2	SITWBTIP	Web terminal-I/O period
(2E)	HALFWORD	2	SITWBGCI	Web garbage-collect intrvl
(30)	HALFWORD	2	*	Reserved
(32)	HALFWORD	2	SITTSDTI	Terminal scan delay
(34)	FULLWORD	4	SITRICVL	Runaway task time interval
(38)	FULLWORD	4	SITICVAL	System time interval
(3C)	UNSIGNED	2	SITDFINT	LG defer interval
(3E)	HALFWORD	2	*	Reserved
	MISCELLANEOUS SIZES, COUNTERS AND FLAGS			
(40)	FULLWORD	4	SITESDSA	ESDSASZE
(44)	FULLWORD	4	SITERDSA	ERDSASZE
(48)	FULLWORD	4	SITOPTIM	Write to operator timeout value
(4C)	FULLWORD	4	SITTRTSZ	Trace table # of entries
(50)	CHARACTER	1	*	reserved
(51)	CHARACTER	1	SIT_PS_TYPE	M if MNPS
(52)	UNSIGNED	2	SITAKPFR	Activity keypoint freq
(54)	CHARACTER	1	SIT_VT_PREFIX	Common Client terminal pfx
(55)	BIT(8)	1	SITTRNTY	Tran dump trace option
	1...		SITTRALL	Option ALL
	.111 1111		*	Unused
(56)	BIT(8)	1	SITSRCVY	Stg. recovery byte
	1...		SITSRYES	St. recovery requested
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		*	Reserved
(57)	UNSIGNED	1	SITTCSWT	TC Shutdown Wait
(58)	BIT(8)	1	SITTCSAN	TC Shutdown Action
	1...		SITTCSUB	TC Shut Act, Unbind
	.1..		SITTCSFO	TC Shut Act, Force
	..11 1111		*	Reserved
(59)	CHARACTER	4	SITVDLY	Autoinstall delete delay time
(5D)	BIT(8)	1	SITCHTSK	CHKSTSK option
	1...		*	Reserved
	.1..		SITTSKCR	Check current task storage
	..11 1111		*	Reserved
(5E)	BIT(8)	1	SITCHTRM	CHKSTRM option
	1...		SITTRMCR	Check current terminal storage
	.111 1111		*	Reserved
(5F)	BIT(8)	1	SITRRMS	RRMS options
	1...		SITRRMSYES	RRMS=YES
	.111 1111		*	
(60)	FULLWORD	4	SITPSDI	PSDI option (HHMMSS)
	SUPERVISOR CALL LIST			
(64)	UNSIGNED	1	SITSVSNO	Service svc number
(65)	UNSIGNED	1	SITSISNO	Service init. svc number
(66)	HALFWORD	2	*	Reserved
(68)	HALFWORD	2	*	Reserved
	MISCELLANEOUS OPTIONS			
(6A)	BIT(8)	1	SITSTRCD	STATistics Recrding ON/OFF
	1...		SITSTRCDO	
	.111 1111		*	Reserved
(6B)	CHARACTER	1	SITTCUA	TCTTE User Area Location
(6C)	UNSIGNED	2	SITPMULT	Dispatcher priority multiplier
(6E)	UNSIGNED	1	SITSBTSK	No. of subtasks
(6F)	CHARACTER	1	SITPMIR	MROLRM: SESSION RETAINS MIR
(70)	HALFWORD	2	SITDMPRT	Dump Retry value (DURETRY=)

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(72)	CHARACTER	1	SITMROB	MRO BATCHING VALUE
(73)	UNSIGNED	1	SITASW	Aux trace autoswitch option
	1...		SITASWC	Aux trace autoswitch continuous
	.1..		SITASW1	Aux trace autoswitch once
	..11 1111		*	Reserved
(74)	CHARACTER	4	SITFLDSP	Field sep chars
(78)	CHARACTER	1	SITFLDST	Field start char
(79)	UNSIGNED	1	SITCONF	CONF field options
	1...		SITCONFTXT_YES	CONFTXT=YES
	.1..		SITCONFDATA_ HIDETC	
				CONFDATA=HIDETC
	..11 11..		*	Reserved
	11		SITENCST	ENCRYPTION=STRONG
	.... ..1.		SITENCNM	ENCRYPTION=NORMAL
	1		SITENCWK	ENCRYPTION=WEAK
(7A)	UNSIGNED	1	SITTROP	Trace option
	1...		SITITRO	Internal trace required
	.1..		*	Reserved
	..1.		SITUTRO	User trace required
	...1		SITSTRO	System trace required
	.... 1...		SITATRO	Aux trace required
	.... .1..		SITATPE	Aux trace tape device (DOS)
	.... ..1.		SITGTRO	GTF trace required
	1		*	Reserved
(7B)	BIT(8)	1	SITSMDNO	System dump option (DUMP=)
	1...		SITSMDYS	Dump=yes
	.1..		SITDAE	DAE=yes
	..11 1111		*	Reserved
(7C)	CHARACTER	1	SITDMPDS	Dump dataset suffix or X
(7D)	UNSIGNED	1	SITDMPSW	Tran dump autoswitch option
	1...		SITDSWY	Autoswitch required
	.111 1111		*	Reserved
(7E)	UNSIGNED	1	SITPRINT	Print key option

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7F)	CHARACTER	1	SITMSGLV	Console msg level indicator
(80)	BIT(8)	1	SITRUWA	LE stg management opts
	1...		SITRUWPL	ruwapool yes
	.1..		SITAUTST	autodst yes
	..11 1111		*	Unused
(81)	CHARACTER	1	*	reserved
(82)	BIT(8)	1	SITMSGCS	Message Case Indicator
	1...		SITMSGUP	Uppercase messages only
	.1..		SITMSGMX	Mixed Case messages.
	..11 1111		*	Reserved
(83)	BIT(8)	1	SITDATFM	CSA date format
	1...		*	Reserved
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		SITDTYMD	YYMMDD
	.... ..1.		SITDTDMY	DDMMYY
	1		SITDTMDY	MMDDYY
(84)	CHARACTER	1	SITFRCQR	FORCEQR option
(85)	CHARACTER	1	SITIRCS	IRC session startup option
(86)	CHARACTER	1	SITHPO	HPO option
(87)	CHARACTER	1	SITLPA	Link pack area option
(88)	UNSIGNED	1	SITFERS	Reserved
(89)	CHARACTER	1	SITEODI	Sequ. devices EOD Indicator.
(8A)	CHARACTER	1	*	Reserved
(8B)	CHARACTER	1	SITDTBO	DTB buffers (M|A) (DOS only)
(8C)	BIT(8)	1	SITTRAP	F.E. trap option
	1...		SITTRAPO	Global trap required
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		*	Reserved
	1		*	Reserved
(8D)	BIT(8)	1	SITMONCL	Monitor options
	1...		SITMONY	Monitor=on
	.1..		SITMONPR	Performance class required
	..1.		SITMONEX	Exception class required
	...1		SITMONRS	Resource class required
	.... 1...		SITMONID	Identity class required
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	1		*	Reserved
(8E)	BIT(8)	1	SITMONOP	Monitor operations
	1...		SITMONCO	Converse mon required
	.1..		SITMONSY	Syncpoint mon required
	..1.		SITMONTM	Monitor time in local STCK
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	1		*	Reserved
(8F)	CHARACTER	4	SITMONFR	MN frequency (0HHMMSSC)
(93)	CHARACTER	8	*	Was MNSUBSYS (Obsolete)
(9B)	CHARACTER	8	SITGRPLI	SPI grouplist id
Security Options				
(A3)	CHARACTER	7	SITXPSB	Classname for PSB
(AA)	CHARACTER	7	SITXTRAN	Classname for TRANSATTACH
(B1)	CHARACTER	7	SITXFCT	Classname for FILE
(B8)	CHARACTER	7	SITXJCT	Classname for JOURNALNAME
(BF)	CHARACTER	7	SITXDCT	Classname for TDQUEUE
(C6)	CHARACTER	7	SITXTST	Classname for TSQUEUE

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(CD)	CHARACTER	7	SITXPPT	Classname for PROGRAM
(D4)	CHARACTER	7	SITXPCT	Classname for TRANSACTION
(DB)	CHARACTER	7	SITXRES	Classname for generics
(E2)	CHARACTER	7	SITXCMD	Classname for SPCOMMAND
(E9)	CHARACTER	8	SITXDB2E	Classname for DB2ENTRY
(F1)	CHARACTER	3	*	Reserved
(F4)	BIT(8)	1	SITSECFL	Security flag byte
	1...		SITSECEX	External security requested
	.1..		SITSECPR	Resource prefix required
	..1.		*	Reserved
	...1		SITXAPPC	RACLIST class APPCLU reqd
	.... 1...		SITESMIN	ESM INSTLN data required
	.... .1..		SITXUSER	Surrogate User Check reqd
	.... ..1.		SITRESSE	Always enact resrce check
	1		SITCMDSE	Always enact command check
(F5)	BIT(8)	1	SITSECF2	SECURITY FLAG BYTE NO. 2
	1...		SITXEJB	EJB SECURITY REQUESTED
	.1..		SITXHFS	HFS file security required
	..11 1111		*	Reserved
(F6)	BIT(8)	1	SITPLTSC	PLTPI Security options
	1...		SITPLTCM	Command level checking
	.1..		SITPLTRS	Resource level checking
	..11 1111		*	Reserved
(F7)	UNSIGNED	1	SITSCOPE	Signon Scope Checking
(F8)	CHARACTER	8	SITDFUSR	Default Security userid

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(100)	HALFWORD	2	SITUDTIM	Tuning parm value for User Directory Timeout
(102)	HALFWORD	2	SITLUIT	LUIT tuning parm value
(104)	CHARACTER	8	SITSECPX	Security Resource Prefix
(10C)	CHARACTER	8	SITPLTID	PLTPI User id
(114)	CHARACTER	16	SITEJBPF	EJB ROLE PREFIX
(124)	CHARACTER	1	SITEMIR	MROFSE: retain mirror
(125)	CHARACTER	3	*	RESERVED
DUMP OPTIONS				
(128)	FULLWORD	4	SITTRNSZ	Size of tran dmp trace
(12C)	CHARACTER	2	*	RESERVED
BASIC MAPPING SUPPORT OPTIONS				
(12E)	UNSIGNED	1	SITPGCHN	Pgchain length
(12F)	CHARACTER	7	*	Pgchain data
(136)	UNSIGNED	1	SITPGCPY	Pgcopy length
(137)	CHARACTER	7	*	Pgcopy data
(13E)	UNSIGNED	1	SITPGPRG	Pgpurge length
(13F)	CHARACTER	7	*	Pgpurge data
(146)	UNSIGNED	1	SITPGRET	Pgret length
(147)	CHARACTER	7	*	Pgret data
(14E)	CHARACTER	2	SITFCOMP	Reserved
(150)	BIT(24)	3	SITPRGD	Purge delay interval HHMM
(153)	BIT(8)	1	SITPOPT	BMS process options
	1...		*	Reserved
	.1..		SITALGN	Default map aligned
	..1.		SITNDDS	No device-dependent suffixing
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	1		*	Reserved
(154)	CHARACTER	1	SITBMSO	BMS option (M I S I F)
END OF BMS OPTIONS				
(155)	CHARACTER	1	SITDISM	Disable Trans after ASRD
TABLE SUFFICES				

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(156)	CHARACTER	2	*	Reserved
(158)	CHARACTER	2	*	Reserved
(15A)	CHARACTER	2	SITFCTSF	File control table
(15C)	CHARACTER	2	*	Reserved
(15E)	CHARACTER	2	*	Reserved
(160)	CHARACTER	2	*	Reserved
(162)	CHARACTER	2	SITPLTPI	PLT (program initialization)
(164)	CHARACTER	2	SITPLTSD	PLT (shutdown)
(166)	CHARACTER	2	*	Reserved
(168)	CHARACTER	2	SITSRTSF	System recovery table
(16A)	CHARACTER	2	SITTCTSF	Terminal control table
(16C)	CHARACTER	2	SITTSTSF	Temporary storage table
(16E)	CHARACTER	2	SITXLTSF	Transaction list table
(170)	CHARACTER	2	SITMCTSF	Monitor control table
(172)	CHARACTER	2	*	Reserved
DSA sizes, cushion sizes and storage protect parms				
(174)	FULLWORD	4	SITDSA	Upper DSA limit
(178)	FULLWORD	4	SITEDSA	Upper EDSA limit
(17C)	FULLWORD	4	SITCDSA	CDSASZE
(180)	FULLWORD	4	SITUDSA	UDSASZE
(184)	FULLWORD	4	SITSDSA	SDSASZE
(188)	FULLWORD	4	SITRDSA	RDSASZE
(18C)	FULLWORD	4	SITECDSA	ECDSASZE
(190)	FULLWORD	4	SITEUDSA	EUDSASZE
(194)	FULLWORD	4	SITTRDUMAX	Dump table maximum
(198)	FULLWORD	4	SITSYDUMAX	Dump table maximum
(19C)	BIT(8)	1	SITCICSF	Storage protection flags
	1...		SITSTPRO	STGPROT 0=NO 1=YES
	.1..		SITCWAKY	CWAKEY 0=USER 1=CICS
	..1.		SITTCTUA	TCTUAKEY 0=USER 1=CICS
	...1		SITRNTPGM	RENTPGM 0=PROT 1=NOPROT
	.... 1...		SITTRNISO	TRANISO 0=NO 1=YES

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		SITCMDPRO	CMDPROT 0=NO 1=YES
The SLD SIT parameter can only be specified as an override. It cannot be specified in the SIT. It is for test only and will be hidden from the customer.				
	.... ..1.		SITSLDYES	SLD? 0=NO 1=YES
	1		*	Reserved
(19D)	UNSIGNED	1	*	Reserved
(19E)	CHARACTER	2	*	Reserved
TS main limit				
(1A0)	UNSIGNED	4	SITTSLM	TS main storage limit
NUCLEUS MODULE SUFFICES THE FOLLOWING 7 FIELDS ARE USED BY CICS BUT THEY ARE NOT AVAILABLE TO THE USER				
(1A4)	CHARACTER	2	SITMCPSF	BMS MCP suffix set by CICS
(1A6)	CHARACTER	2	SITRLRSF	BMS RLR suffix set by CICS
(1A8)	CHARACTER	2	SITPBPSF	BMS PBP suffix set by CICS
(1AA)	CHARACTER	2	SITM32SF	BMS M32 suffix set by CICS
(1AC)	CHARACTER	2	SITTPPSF	BMS TPP suffix set by CICS
(1AE)	CHARACTER	2	SITIIPSF	BMS IIP suffix set by CICS
(1B0)	CHARACTER	2	SITDSBSF	BMS DSB suffix set by CICS
(1B2)	CHARACTER	2	SITTCPSF	Terminal control pgm (BTAM)
(1B4)	CHARACTER	2	*	Reserved
(1B6)	CHARACTER	2	*	Reserved
(1B8)	CHARACTER	2	*	Reserved
(1BA)	CHARACTER	2	SITDIPSF	Data interchange option/suffix
(1BC)	CHARACTER	2	*	Reserved
(1BE)	CHARACTER	2	SITDL1	DL/I suffix
SIT PARAMETERS FOR ISC				
(1C0)	CHARACTER	2	SITISCSF	General ISC suffix
(1C2)	CHARACTER	2	*	Reserved
(1C4)	CHARACTER	2	*	Reserved
(1C6)	CHARACTER	2	*	Reserved
SIT OPTION FOR EXECUTION INTERFACE				
(1C8)	CHARACTER	2	*	Reserved

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1CA)	CHARACTER	6	*	Reserved
(1D0)	CHARACTER	8	SITTBPX6	TBP exit program 6
(1D8)	CHARACTER	8	SITGRNME	Generic resource applid
(1E0)	CHARACTER	8	SITTBPX1	TBP exit program 1
(1E8)	CHARACTER	8	SITTBPX2	TBP exit program 2
(1F0)	CHARACTER	6	*	Reserved
START-UP OPTIONS				
(1F6)	CHARACTER	1	SITSTRTA	ALL specified on START(Y|N) *
(1F7)	CHARACTER	1	SITSTART	CICS/ESA start-up option

`'A' - START=AUTO`
`'U' - START=(AUTO,ALL)`
`'S' - START=STANDBY`
`'T' - START=(STANDBY,ALL)`
`'C' - START=COLD`
`'I' - START=(COLD,ALL)`
`'I' - START=INITIAL`
`'I' - START=(INITIAL,ALL)`
`'E' - START=EMER`
`'R' - START=(EMER,ALL)`
`'W' - START=WARM`
`'H' - START=(WARM,ALL)`				

(1F8)	CHARACTER	1	SITIND	Emergency indicator
(1F9)	CHARACTER	1	SITFEPOP	FEPI required Y/N
`SITFEPIN CONSTANT('Y') - required` `SITFEPOU CONSTANT('N') - absent`				
(1FA)	CHARACTER	1	SITSINIT	START=INITIAL indicator
`SITSINIY CONSTANT('Y') - Yes, qualifies SITSTART=I` `SITSININ CONSTANT('N') - No`				
(1FB)	BIT(8)	1	SITSOFFS	OFFSITE settings:-
	1...		SITOFFSI	This is an offsite restart
	.111 1111		*	Reserved
(1FC)	BIT(8)	1	SITDCTOP	TDINTRA option status
	1...		SITINTRA	TDINTRA=EMPTY specified
	.111 1111		*	Reserved
(1FD)	BIT(8)	1	SITFSSTA	Function ship start option
	1...		SITFSSTY	Link affinity required
	.111 1111		*	Reserved
(1FE)	BIT(8)	1	SITTDST	TD subtasking
	1...		SITTDSTO	

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.111 1111		*	
(1FF)	UNSIGNED	1	SITICPOP	Start-up option
(200)	UNSIGNED	1	SITTSPOP	Start-up option
(201)	CHARACTER	1	SITDBCOP	DBCTL connect required Y|N
(202)	CHARACTER	1	SITDB2OP	DB2 connect required Y|N
(203)	UNSIGNED	1	SITBMSOP	Start-up option
(204)	CHARACTER	1	SITMQOP	MQ connect required Y|N
(205)	BIT(8)	1	SITFEAT	Miscellaneous features
	1...		SITFEAWB	Web Interface feature
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	1		*	Reserved
(206)	UNSIGNED	1	SITPSOPT	System spooling option
(207)	CHARACTER	1	SITPSID	Special feature ident.
(208)	CHARACTER	1	SITPSCLS	Special feature class.
(209)	CHARACTER	4	SITGMMNM	Good Morning Transaction
(20D)	CHARACTER	4	SITGNITE	Good Night Transaction
MAXIMUM TASK COUNTS				
(211)	UNSIGNED	1	*	Reserved
(212)	HALFWORD	2	SITMXOTS	Max Open TCBs limit
(214)	HALFWORD	2	SITMXTSK	Max task count, packed decimal *
SHUTDOWN ASSIST TRANSACTION				
(216)	CHARACTER	4	SITSDTRN	SHUT DOWN TRANSACTION
(21A)	CHARACTER	8	SITNCPLD	NAMED COUNTER POOL DEFAULT
(222)	CHARACTER	8	SITCODPG	Default document codepage
VALUES FROM OLD DFHTCT TYPE=INITIAL MACRO				

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(22A)	CHARACTER	2	*	Reserved
(22C)	ADDRESS	4	SITGMTAD	Address of good morning message
(230)	CHARACTER	4	SITSYSID	Local system entry name
(234)	HALFWORD	2	SITRAPL	VTAM receive any RPL count
(236)	HALFWORD	2	SITRAMAX	Max i/o area for receive any's
(238)	HALFWORD	2	SITOPNDL	Max opndst/clsdst count
(23A)	BIT(8)	1	SITACMTH	Access Method flags
	1...		SITVTAM	VTAM=YES
	.1..		SITLGNMS	LOGONMSG=YES
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		SITTCPIP	TCPIP=YES
	.... .1..		SITIIOPLISTENER	IIOPLISTENER=YES
	.... ..1.		*	Reserved
	1		*	Reserved
(23B)	BIT(8)	1	SITRESP	Logical Unit Response type
	1...		SITFME	Function management end
	.1..		SITRRN	Reached recovery node
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	1		*	Reserved
SINGLE KEY RETRIEVAL TABLE				
(23C)	CHARACTER	624	SITSKRTB	39key x 16byte SKR cmd table
FURTHER MISCELLANEOUS SIZES AND COUNTERS				
(4AC)	HALFWORD	2	SITTDBNO	No. of buffers for I/P TD
(4AE)	HALFWORD	2	SITTDSNO	No. of strings for I/P TD
(4B0)	HALFWORD	2	SITTSBNO	No. of buffers for aux TS
(4B2)	HALFWORD	2	SITTSSNO	No. of strings for aux TS

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4B4)	FULLWORD	4	SITVMXWE	Max # autoinstall WE's
(4B8)	CHARACTER	8	SITVAXIT	Autoinstall user-program name
(4C0)	CHARACTER	8	SITTBPX3	TBP exit program 3
(4C8)	CHARACTER	8	SITTBPX4	TBP exit program 4
(4D0)	CHARACTER	8	SITTBPX5	TBP Exit Program 5
(4D8)	CHARACTER	8	SITUOWNQ	UOW network qual (VTAM=NO)
(4E0)	CHARACTER	1	SITVAICN	Console autoI (YES|NO|AUTO)
(4E1)	BIT(8)	1	SITCSMOP	CPSMCONN req/type
	1...		SITCSMCM	
	.1..		SITCSMNO	
	..1.		SITCSMLM	
	...1		SITCSMWU	
	.... 1...		SITCSMRM	
	.... .1..		*	Reserved for CPSM
	.... ..1.		*	Reserved for CPSM
	1		*	Reserved for CPSM
(4E2)	CHARACTER	2	*	RESERVED
	XRF - DEFINITIONS FOR ACTIVE AND BACKUP			
(4E4)	CHARACTER	1	SITXRFFN	XRF function
(4E5)	CHARACTER	1	SITXRSNS	CICS (XRF) signon state
(4E6)	CHARACTER	8	SITGAPLD	Generic applid
(4EE)	CHARACTER	8	SITSAPLD	Specific applid
	XRF - DEFINITIONS FOR ACTIVE			
(4F6)	HALFWORD	2	*	Reserved
(4F8)	FULLWORD	4	SITPDI	Action delay interval
	XRF - DEFINITIONS FOR BACKUP			
(4FC)	CHARACTER	1	SITTAKE	Takeovr option
(4FD)	CHARACTER	8	SITCLT	Command list table
(4FD)	CHARACTER	6	*	- prefix
(503)	CHARACTER	2	SITCLTSF	- suffix
(505)	CHARACTER	3	*	Reserved
(508)	FULLWORD	4	SITADI	Action delay interval
(50C)	FULLWORD	4	SITJDI	JES delay interval

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(510)	CHARACTER	4	SITRMTRN	Recovery transaction
	XRF - DEFINITIONS FOR BOTH AND XRF=NO			
(514)	FULLWORD	4	SITACOND	Autoconnect delay
	RESERVED FOR RESTRUCTURE			
(518)	BIT(8)	1	SITPMERR	Initialization parameter errors
	1...		SITPMACT	op
	.1..		SITPMIGN	
	..1.		SITPMABN	
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	1		*	Reserved
(519)	BIT(8)	1	SITNEW	NEWSIT= override?
	1...		SITNEWY	
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	1		*	Reserved
(51A)	BIT(8)	1	SITXSIGN	XRF sign-on byte
	1...		SITXSFRC	Force sign-on requested
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	1		*	Reserved
(51B)	BIT(8)	1	SITMISC	Miscellaneous bits
	1...		SITRAPLF	RAPOOL FORCE specified
	.1..		SITICMNR	AUTORESETTIME specified
(51C)	FULLWORD	4	SITXSFI	PS/XRF signon timeout
(520)	FULLWORD	4	*	Reserved

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(524)	CHARACTER	8	SITAXI	AXI table
(524)	CHARACTER	6	*	- prefix (DFHAXI or blanks)
(52A)	CHARACTER	2	SITAXISF	- suffix
(52C)	CHARACTER	8	SITDRPGN	Dynamic Routing Program
(534)	HALFWORD	2	SITHRAPL	HPO rapool value
(536)	HALFWORD	2	*	Reserved
(538)	CHARACTER	4	SITRTRN2	XRF signed-on transaction
(53C)	CHARACTER	4	SITDRTRN	Dynamic Routing Transaction *
SIT OVERRIDE EXISTENCE BITS - one per SIT field				
(540)	CHARACTER	32	SIT_EXISTENCE_ BITS	
(540)	BIT(8)	1	*	
	1...		SITOPSYS_X	Operating system level
	.1..		SITOPREL_X	Operating system release
	..1.		SITCICS_X	CICS system
	...1		SITCIREL_X	CICS release
	.... 1...		SITLEN_X	SIT length
	.... .1..		SITCWA_X	WRKAREA= existence bit
	.... ..1.		DFHDLL_X	Addr of DL/I link list
	1		DFHAPT_X	Reserved
(541)	BIT(8)	1	*	
	1...		SITCOMA_X	Communications area addr
	.1..		SITOVRPM_X	Addr of override para
	..1.		*	Reserved
	...1		SITSRPAE_X	Reserved
	.... 1...		SITPRVMA_X	PRVMOD= existence bit
	.... .1..		SITICVAL_X	ICV= existence bit
	.... ..1.		SITRICVL_X	ICVR= existence bit
	1		SITDFINT_X	Reserved for LGDFINT= bit
(542)	BIT(8)	1	*	
	1...		SITTSDTI_X	ICVTSD= existence bit

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		SITFTIMO_X	FTIMEOUT= existence bit
	..1.		SITQTIMO_X	QUIESTIM= existence bit
	...1		SITSYDUMAX_X	SYDUMAX= existence bit
	.... 1...		SITTRDUMAX_X	TRDUMAX= existence bit
	.... .1..		SITTRTSZ_X	TRTABSZ= existence bit
	.... ..1.		*	Reserved
	1		SITAKPFR_X	AKPFREQ= existence bit
(543)	BIT(8)	1	*	
	1...		SITDBLBL_X	DBP= existence bit
	.1..		SITSRCVY_X	STGRCVY= existence bit
	..1.		*	Reserved
	...1		SITPSDI_X	PSDI= existence bit
	.... 1...		*	Reserved
	.... .1..		SITTSTG_X	
	.... ..1.		SITSVSNO_X	SVC= existence bit
	1		SITSISNO_X	SRBSVC= existence bit
(544)	BIT(8)	1	*	
	1...		SITFLDSP_X	FLDSEP= existence bit
	.1..		SITSTR_X	SYSTR= existence bit
	..1.		SITUTR_X	USERTR= existence bit
	...1		SITITR_X	INTTR= existence bit
	.... 1...		SITGTR_X	GTFTR= existence bit
	.... .1..		SITATR_X	AUXTR= existence bit
	.... ..1.		SITASW_X	AUXTRSW= existence bit
	1		*	Reserved
(545)	BIT(8)	1	*	DUMP existence bits
	1...		SITSDUMP_X	DUMP= existence bit
	.1..		SITDMPDS_X	DUMPDS= existence bit
	..1.		SITDMPRT_X	DURETRY= existence bit
	...1		SITDMPSW_X	DUMPSW= existence bit

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		SITMSGCS_X	MSGCASE= existence bit
	.... .1..		SITGRNME_X	GRNAME= existence bit
	.... ..1.		SITDAE_X	DAE= existence bit
	1		*	Reserved
(546)	BIT(8)	1	*	
	1...		SITPRINT_X	PRINT= existence bit
	.1..		SITMSGLV_X	MSGLVL= existence bit
	..1.		SITPL1_X	
	...1		SITRUWPL_X	RUWAPOOL existence
	.... 1...		SITDTYMD_X	DATFORM=YYMMDD existence
	.... .1..		SITDTDMY_X	DATFORM=DDMMYY existence
	.... ..1.		SITDTMDY_X	DATFORM=MMDDYY existence
	1		SITVSPLI_X	
(547)	BIT(8)	1	*	
	1...		SITIRCS_X	IRC= existence bit
	.1..		SITHPO_X	HPO= existence bit
	..1.		SITLPA_X	LPA= existence bit
	...1		*	Reserved
	.... 1...		SITEODI_X	EODI= existence bit
	.... .1..		SITTCAMO_X	TCAM= existence bit
	.... ..1.		*	Reserved
	1		SITTRAPO_X	TRAP= existence bit
(548)	BIT(8)	1	*	
	1...		SITMONY_X	MN= existence bit
	.1..		SITMONPR_X	MNPER= existence bit
	..1.		SITMONEX_X	MNEXC= existence bit
	...1		SITMONRS_X	MNRES= existence bit
	.... 1...		SITMONID_X	MNIDN= existence bit
	.... .1..		SITPGCPY_X	PGCOPY= existence bit
	.... ..1.		SITPGPRG_X	PGPURGE= existence bit

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		SITPGRET_X	PGRET= existence bit
(549)	BIT(8)	1	*	
	1...		SITFCOMP_X	
	.1..		SITPRGD_X	PRGDLAY= existence bit
	..1.		SITALGN_X	ALIGN= existence bit
	...1		SITNDDS_X	NODDS= existence bit
	.... 1...		SITMCTSF_X	MCT= existence bit
(54A)	BIT(8)	1	*	
	1...		SITCDSA_X	CDSASZE existence bit
	.1..		SITUDSA_X	UDSASZE existence bit
	..1.		SITSDSA_X	SDSASZE existence bit
	...1		SITRDSA_X	RDSASZE existence bit
	.... 1...		SITECDSA_X	ECDSASZE existence bit
	.... .1..		SITEUDSA_X	EUDSASZE existence bit
	.... ..1.		SITESDSA_X	ESDSASZE existence bit
	1		SITERDSA_X	ERDSASZE existence bit
(54B)	CHARACTER	1	*	Reserved *
(54C)	FULLWORD	4	*	Reserved
(550)	BIT(8)	1	*	
	1...		*	Reserved
	.1..		SITSTRTA_X	
	..1.		*	Reserved
	...1		SITSTART_X	START= existence bit
	.... 1...		SITIND_X	
	.... .1..		SITTCTOP_X	TCT startup option
	.... ..1.		SITDCTOP_X	DCT startup option
	1		*	Reserved
(551)	BIT(8)	1	*	
	1...		SITPPTOP_X	PPT startup option
	.1..		SITPCTOP_X	PCT startup option
	..1.		SITCSAOP_X	CSA startup option
	...1		SITICPOP_X	ICP startup option

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		SITTSPOP_X	TSP startup option
	.... .1..		*	Reserved
	.... ..1.		SITBMSOP_X	BMS startup option
	1		*	Reserved
(552)	BIT(8)	1	*	
	1...		SITMXSTS_X	MAXSSLTCBS override coded
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		SITPMULT_X	PYTRAGE= existence bit
	.... ..1.		SITSBTSK_X	SUBTSKS= existence bit
	1		SITGMMNM_X	GMTRAN= existence bit
(553)	BIT(8)	1	*	
	1...		*	Reserved (wbhttp not needed
	.1..		SITMXTSK_X	MXT= existence bits
	..1.		SITWBTIP_X	WEBDELAY(1) existence bit
	...1		SITWBGCI_X	WEBDELAY(2) existence bit
	.... 1...		SITFEAT1_X	Miscellaneous feature 1
	.... .1..		SITFEAT2_X	Miscellaneous feature 2
	.... ..1.		SITFEAT3_X	Miscellaneous feature 3
	1		SITFEAT4_X	Miscellaneous feature 4
(554)	BIT(8)	1	*	
	1...		SITFEAT5_X	Miscellaneous feature 5
	.1..		SITFEAT6_X	Miscellaneous feature 6
	..1.		SITFEAT7_X	Miscellaneous feature 7
	...1		SITFEAT8_X	Miscellaneous feature 8
	.... 1...		SITGMTAD_X	CSECT address
	.... .1..		SITSYSID_X	SYSIDNT= existence bit

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		SITRAPL_X	RAPOOL= existence bit
	1		SITHRAPL_X	HPO RAPOOL= existence bit
(555)	BIT(8)	1	*	
	1...		SITOPNDL_X	OPNDLIM= existence bit
	.1..		SITVTAM_X	VTAM= existence bit
	..1.		SITLGNMS_X	LGNMSG= existence bit
	...1		SITSKRTB_X	SKRxxxx= existence bit
	.... 1...		SITTDBNO_X	TD= existence bit 1st
	.... .1..		SITTDSNO_X	TD= existence bit 2nd
	.... ..1.		SITTSBNO_X	TS= existence bit buffers
	1		SITTSSNO_X	TS= existence bit start
(556)	BIT(8)	1	*	
	1...		SITVMXWE_X	AIQMAX= existence bit
	.1..		SITVAXIT_X	AIEXIT= existence bit
	..1.		SITRAPLF_X	RAPOOL FORCE existence
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		SITUOWNQ_X	UOWNETQL existence bit
	.... ..1.		SITXRFFN_X	XRF= existence bit
	1		SITXRSNS_X	
(557)	BIT(8)	1	*	
	1...		SITGAPLD_X	APPLID= existence 1st
	.1..		SITSAPLD_X	APPLID= existence 2nd
	..1.		SITPDI_X	PDI= existence bit
	...1		SITTAKE_X	TAKEOVR= existence bit
	.... 1...		SITCLT_X	CLT= existence bit
	.... .1..		SITCLTSF_X	CLT= existence bit
	.... ..1.		SITADI_X	ADI= existence bit
	1		SITJDI_X	JESDI= existence bit
(558)	BIT(8)	1	*	

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		SITRMTRN_X	RMTRAN= existence bit
	.1..		SITPMERR_X	PARMERR= existence bit
	..1.		SITNEW_X	NEWSIT= existence bit
	...1		SITDSRPM_X	DSRTPGM= existence bit
	.... 1...		SITTRNTY_X	TRTRANTY = existence bit
	.... .1..		SITTRNSZ_X	TRTRANSZ = existence bit
	.... ..1.		SITAXI_X	RST= existence bit
	1		SITLANGS_X	NATLANG= existence bit
(559)	BIT(8)	1	*	
	1...		SITGTRST_X	STNTR= existence bit stan
	.1..		SITGTRSP_X	STNTR= existence bit spec
	..1.		SITMROB_X	MRO BATCHING PARAMETER
	...1		SITTCUA_X	TCTUALOC existence bit
	.... 1...		SITINIT_X	INITPARM existence bit
	.... .1..		SITDISM_X	DISMACP existence bit
	.... ..1.		SITSTRCD_X	STATRCD existence bit
	1		SITUDTIM_X	UDTIM existence bit
(55A)	BIT(8)	1	*	
	1...		SITLUIT_X	LUITTIME existence bit
	.1..		SITDSA_X	DSALIM existence bit
	..1.		SITEDSA_X	EDSALIM existence bit
	...1		SITLLACP_X	LLACOPY existence bit
	.... 1...		SITSLD_X	SLD existence flag
	.... .1..		SITGRPL2_X	GRPLIST = existence bit 2
	.... ..1.		SITGRPL3_X	GRPLIST = existence bit 3
	1		SITGRPL4_X	GRPLIST = existence bit 4

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(55B)	BIT(8)	1	*	
	1...		SITREMDL_X	Remote delete idle
	.1..		SITREMDI_X	Remote delete interval
	..1.		SITCMDPRO_X	CMDPROT existence
	...1		SITTCUAKY_X	TCTUAKEY existence
	.... 1...		SITCWAKY_X	CWAKEY existence
	.... .1..		SITSTPRO_X	STORPROT existence
	.... ..1.		SITRNTPGM_X	RENTPGM existence
	1		SITTRNISO_X	TRANISO existence
(55C)	BIT(8)	1	*	
	1...		SITMONCO_X	Converse monitoring exist
	.1..		SITMONSY_X	Syncpoint monitoring exist
	..1.		SITMONTM_X	MNTIME exists
	...1		SITMONFR_X	Frequency monitoring exist
	.... 1...		*	Was MNSUBSYS (Obsolete)
	.... .1..		SITAPGM_X	PG autoinstall state
	.... ..1.		SITACTG_X	PG autoinstall catalog
	1		SITAPXT_X	PG autoinstall exit
(55D)	BIT(8)	1	*	
	1...		SITFRCQR_X	FORCEQR override coded
	.1..		SITMXOTS_X	MAXOPENTCBS override coded
	..1.		SITMXJTS_X	MAXJVMTCBS override coded
	...1		SITMXXTS_X	MAXXPTCBS override coded
	.... 1...		SITMXSOC_X	MAXSOCKETS override coded
	.... .1..		SITSTEOD_X	STATEOD override coded
	.... ..1.		SITSTINT_X	STATINT override coded
	1		SITAUTST_X	AUTODST override coded
(55E)	BIT(8)	1	*	
	1...		SITJVMT0_X	JVMLEVEL0TRACE overd coded

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		SITJVMT1_X	JVMLEVEL1TRACE overd coded
	..1.		SITJVMT2_X	JVMLEVEL2TRACE overd coded
	...1		SITJVMTU_X	JVMUSERTRACE overd coded
	.... 1...		*	Reserved
	.... .1..		SITJVMCI_X	JVMCCSIZE overide coded
	.... ..1.		SITJVMCS_X	JVMCCSTART override coded
	1		SITICMNR_X	AUTORESETTIME overd coded
(55F)	BIT(8)	1	*	
	1...		SITDEBU0_X	DEBUGTOOL override coded
	.1..		SITINFO_X	INFOCENTER override coded
	..1.		SITTSMLM_X	TSMAINLIMIT value coded
	...1 1111		*	Reserved
The following table defines 64 Trace Selectivity Bits for standard trace. There is one bit for each domain.				
(560)	BIT(64)	8	SITTRXST	Standard Trace Existence
The following table defines 64 Trace Selectivity Bits for special trace. There is one bit for each domain.				
(568)	BIT(64)	8	SITTRXSP	Special Trace Existence
TRACE SELECTIVITY TABLE				
(570)	CHARACTER	1024	SITTRSTB	Beginning of table
(570)	BIT(64)	8	SITTRSTN (4294967360:263757416)	Standard trace flags
(770)	BIT(64)	8	SITTRSPC (4294967360:263617520)	Special trace flags
NATIONAL LANGUAGES LIST				
(970)	CHARACTER	36	SITLANGS	National Languages list
CSD PARAMETERS				
(994)	CHARACTER	44	SITCSDSN	CSDDSN ie 44 char DSNAME
(9C0)	FULLWORD	4	SITCSDST	CSDSTRNO
(9C4)	FULLWORD	4	SITCSDBI	CSDBUFNI
(9C8)	FULLWORD	4	SITCSDBD	CSDBUFND
(9CC)	HALFWORD	2	SITCSDLS	CSDLSRNO

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9CE)	HALFWORD	2	SITCSDJI	CSDJID
(9D0)	HALFWORD	2	SITCSDFR	CSDFRLOG
(9D2)	BIT(8)	1	SITCSDRC	CSDRECOV
(9D3)	BIT(8)	1	SITCSIMG	CSDIMAGE
(9D4)	BIT(8)	1	SITCSDAC	CSDACC
(9D5)	BIT(8)	1	SITCSDIS	CSDDISP
(9D6)	BIT(8)	1	*	RLS flags
	1...		SITCSRLS	CSD uses RLS
	.1..		SITCSNRI	Integrity=uncommitted
	..1.		SITCSCR	Integrity=consistent
	...1		SITCSRR	Integrity=repeatable
	 1111		*	Reserved
(9D7)	BIT(8)	1	SITFCFLG	FC Flags
	1...		SITRLS	RLS enabled for this CICS
	.1..		SITRTOL	RLS files in pool build
	..1.		SITFCNRR	NonRLS ignore LOG
	...1 1...		*	Reserved
	.... .1..		SITFCTH	FC Threasafe Enabled
	.... ..1.		*	Reserved
	1		SITCILK	CI lock set for this CICS
AILDELAY KEYWORD				
(9D8)	CHARACTER	4	SITDDLY	AIDELAY DELETE DELAY TIME
CLSDSTP KEYWORD				
(9DC)	CHARACTER	1	SITCLSP	CLSDST NOTIFY/NONOTIFY
LLACOPY KEYWORD				
(9DD)	BIT(8)	1	SITLLACP	LLACOPY OPTION
	1...		SITLLAY	LLACOPY=YES
	.1..		SITLLAN	LLACOPY=NO
	..1.		SITLLANC	LLACOPY=NEWCOPY
PGAIPGM KEYWORD				
(9DE)	CHARACTER	1	SITAPGM	PG autoinstall state
PGAICTLG KEYWORD				

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9DF)	CHARACTER	1	SITACTG	PG autoinstall catalog
PGAIEXIT KEYWORD				
(9E0)	CHARACTER	8	SITAPXT	PG autoinstall exit
Extended GRPLIST parameter				
(9E8)	CHARACTER	8	SITGRPL2	SPI grouplist 2
(9F0)	CHARACTER	8	SITGRPL3	SPI grouplist 3
(9F8)	CHARACTER	8	SITGRPL4	SPI grouplist 4
Terminal idle keyword				
(A00)	UNSIGNED	4	SITREMDL	Remote delete idle
Interval keyword				
(A04)	CHARACTER	4	SITREMDI	Remote delete interval
RLS Section of SIT				
(A08)	UNSIGNED	2	SITFTIMO	RLS timeout
(A0A)	UNSIGNED	2	SITQTIMO	RLS quiesce timeout
Distributed routing program				
(A0C)	CHARACTER	8	SITDSPGN	Distributed routing pgm
SECURE SOCKETS LAYER parameters				
(A14)	UNSIGNED	4	SITSSLTI	SSL V3 timeout value
(A18)	UNSIGNED	1	SITSSCCH	SSLCACHE 1=CICS 2=Sysplex
(A19)	UNSIGNED	3	*	Reserved
(A1C)	HALFWORD	2	SITSSCRP	CRL server port number
(A1E)	HALFWORD	2	SITSSCRN	Length of CRL server
(A20)	CHARACTER	256	SITSSCRL	Name of CRL LDAP server
(B20)	CHARACTER	48	SITSSKYF	SSL Keyring
(B50)	HALFWORD	2	SITMXSSL	Max S8 TCBs (MAXSSLTCBS)
(B52)	HALFWORD	2	*	reserved
MAXSOCKET parameter				
(B54)	UNSIGNED	4	SITMAXSOCKS	MAXSOCKETS
(B58)	FULLWORD	4	*	Alignment
(B5C)	UNSIGNED	4	SITBRMAXKEEPTIME	BRMAXKEEPTIME
(B60)	CHARACTER	1	SITAIBRIDGE	AIBRIDGE Yes/Auto
(B61)	CHARACTER	3	*	Reserved
(B64)	CHARACTER	4	SITSTEOD	ST End-of-Day (0HHMMSSC)
(B68)	CHARACTER	4	SITSTINT	ST Interval (0HHMMSSC)

Table 555. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B6C)	CHARACTER	8	*	Reserved
DISPATCHER Parameters				
(B74)	HALFWORD	2	SITMXJTS	Max JVM TCBs limit
(B76)	HALFWORD	2	SITMXXTS	Max XPLink TCBs limit
(B78)	CHARACTER	8	*	Reserved
JVM Trace Option Strings				
(B80)	ADDRESS	4	SITJVMTS	JVM Trace Option Strings
JVMPROFILEDIR - Directory in HFS for JVM profiles				
(B84)	CHARACTER	244	SITJVMPD	JVMPROFILEDIR
JVM classcache				
(C78)	CHARACTER	8	*	Reserved
(C80)	CHARACTER	8	SITJVMCI	JVMCCSIZE
(C88)	CHARACTER	1	SITJVMCS	JVMCCSTART
(C89)	CHARACTER	3	*	Reserved for alignment
DEBUGTOOL and INFOCENTER keywords				
(C8C)	BIT(8)	1	SITDBTL	DEBUGTOOL setting
	1...		SITDBTLY	Debug Tool is required
	.1..		SITINFOY	Infocentre URL specified
	..11 1111		*	Reserved
(C8D)	BIT(24)	3	*	Reserved
(C90)	CHARACTER	256	SITINFOC	URL for infocentre
System defaults for DFHCNV				
(D90)	FULLWORD	4	SITCLICP	Default CLINTCP index
(D94)	FULLWORD	4	SITSRVCP	Default SRVERCP index
LOCAL CCSID Parameter				
(D98)	FULLWORD	4	SITCCSID	Region wide default CCSID
XCF Group Name				
(D9C)	CHARACTER	8	SITXCFGP	XCF Group Name
(DA4)	CHARACTER	4	*	Reserved
USSHOME directory name				
(DA8)	UNSIGNED	1	SITCHOML	Length of USSHOME
(DA9)	CHARACTER	255	SITCHOME	USSHOME directory
(EA8)	CHARACTER	0	DFHSITEA	End of table label

TRACE SELECTIVITY TABLE REDEFINED

Table 556.

Offset Hex	Type	Len	Name (dim)	Description
(570)	STRUCTURE	1024	SITTRSTA	Redefine the table
(570)	BIT(64)	8	SITTRST1 (4294967311:263794336)	Standard trace flags for first 15 domains
(5E8)	BIT(64)	8	SITAPSTN	AP Standard trace flags
(5F0)	BIT(64)	8	SITRMSTN	RM Standard trace flags
(5F8)	BIT(64)	8	SITA2STN	A2 Standard trace flags
(600)	BIT(64)	8	SITTRST2 (4294967342:263794336)	Standard trace flags for next 46 domains
(770)	BIT(64)	8	SITTRSP1 (4294967311:263794336)	Special trace flags for first 15 domains
(7E8)	BIT(64)	8	SITAPSPC	AP Special trace flags
(7F0)	BIT(64)	8	SITRMSPC	RM Special trace flags
(7F8)	BIT(64)	8	SITA2SPC	AP Special trace flags
(800)	BIT(64)	8	SITTRSP2 (4294967342:263797816)	Special trace flags for next 46 domains

DL/I EXTENSION OF SIT

Table 557.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	DFHLISTA	
(0)	BIT(8)	1	DLIFLG	Flag value
	1...		*	Reserved
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		DLIPSBCK	PSB checking required
	1		*	Reserved
(1)	BIT(8)	1	*	Reserved
(2)	CHARACTER	2	DLPDIRSF	PDIR suffix

GOOD MORNING MESSAGE

Table 558.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	248	DFHGMMS	
(0)	HALFWORD	2	SITGMTXL	Message length
(2)	CHARACTER	246	SITGMTXT	
(2)	CHARACTER	13	*	Message number

Table 558. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F)	CHARACTER	19	*	Default message
(22)	CHARACTER	5	*	Trailer
(27)	CHARACTER	209	*	Filler
(F8)	CHARACTER	0	SITGMTXE	Message end

JVM Trace Option Strings

Table 559.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	968	DFHJVMTS	
(0)	HALFWORD	2	SITJVM0L	Level 0 Option length
(2)	CHARACTER	240	SITJVM0T	Level 0 Option test
(F2)	HALFWORD	2	SITJVM1L	Level 1 Option length
(F4)	CHARACTER	240	SITJVM1T	Level 1 Option test
(1E4)	HALFWORD	2	SITJVM2L	Level 2 Option length
(1E6)	CHARACTER	240	SITJVM2T	Level 2 Option test
(2D6)	HALFWORD	2	SITJVMUL	User Option length
(2D8)	CHARACTER	240	SITJVMUT	User Option test

INITPARM chain structure

Table 560.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	SITINIT	
(0)	ADDRESS	4	INITCPTR	PTR to next entry on chain
(4)	CHARACTER	8	INITPGMID	The INIT program ID name
(C)	UNSIGNED	1	INITPSLEN	The INIT Parm String length
(D)	CHARACTER	*	INITPSTRG	The INIT Parm String

PRVMOD list

Table 561.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHPRVMOD	
(0)	FULLWORD	4	SITPRVML	List length
(4)	FULLWORD	4	SITPRVMN	Number of modules
(8)	CHARACTER	*	SITPRVMNAME	Module names are here

Start-up indicators in SITICPOP, SITSPOP and SITBMSOP

Table 562.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1	SITSTOPT	
	1...		WARMST	Warm start
	.1..		COLDST	Cold start
	..1.		*	
	...1		COLDEX	Cold execution
	.... 1...		*	
	.... .1..		EMEREX	Emergency start
	11		*	

Constants

Table 563.

Len	Type	value	Name	Description
Constants TCUALOC (TCTTE User Area Location) constants. SITTCUA				
1	CHARACTER	B	SITTCUAB	Below
1	CHARACTER	A	SITTCUAA	Any
Operating System Constants. SITOPSYS				
1	CHARACTER	X	SITMVX	MVS/XA

Release Level Constants. SITOPREL
  The list of constants below is not exhaustive.
  Other possible values for OPREL are similarly
  constructed from the official product name of
  the control program.				

1	HEX	11	SITE11	DOS/VSE release 1.1
1	HEX	12	SITE12	DOS/VSE release 1.2
1	HEX	13	SITE13	DOS/VSE release 1.3
1	HEX	37	SITM37	OS/MVS release 3.7
1	HEX	38	SITM38	OS/MVS release 3.8
1	HEX	17	SITX17	MVS/XA release 2.1.7
1	HEX	20	SITX20	MVS/XA release 2.2.0
1	HEX	21	SITX21	MVS/XA release 2.2.1
1	HEX	10	SITE10	MVS/ESA release 3.1.0
1	HEX	22	SITE22	MVS/ESA release 4.2.2
CICS System Constants. SITCICS				
1	CHARACTER	E	SITELS	Reserved
1	CHARACTER	F	SITFULL	Full CICS
CICS Release Constants. SITCIREL				
1	HEX	14	SITC14	Vers.1, release 4
1	HEX	15	SITC15	Vers.1, release 5
1	HEX	16	SITC16	Vers.1, release 6

Table 563. (continued)

Len	Type	value	Name	Description
1	HEX	17	SITC17	Vers.1, release 7
1	HEX	21	SITC21	Vers.2, release 1
1	HEX	31	SITC31	Vers.3, release 1
1	HEX	32	SITC32	Vers.3, release 2
1	HEX	33	SITC33	Vers.3, release 3
1	HEX	41	SITC41	Vers.4, release 1
1	HEX	51	SITC51	Vers.5, release 1
1	HEX	52	SITC52	Vers.5, release 2
1	HEX	53	SITC53	Vers.5, release 3
1	HEX	61	SITC61	Vers.6, release 1
1	HEX	62	SITC62	Vers.6, release 2
1	HEX	63	SITC63	Vers.6, release 3
1	HEX	64	SITC64	Vers.6, release 4
1	HEX	65	SITC65	Vers.6, release 5
1	HEX	66	SITC66	Vers.6, release 6
1	HEX	67	SITC67	Vers.6, release 7
CICS Modification Level constants. SITCIMOD				
1	HEX	00	SITMOD00	Mod level 0
1	HEX	01	SITMOD01	Mod level 1
1	HEX	02	SITMOD02	Mod level 2
1	HEX	03	SITMOD03	Mod level 3
Spooler Control Constants. SITPSOPT				
1	HEX	80	YSPOOL	Spooling = yes
1	HEX	00	NSPOOL	Spooling = no
XRF Function and Sign on state Constants. SITXRFFN and SITXRSNS				
1	CHARACTER	Y	SITXRFY	XRF Function enabled
1	CHARACTER	N	SITXRFN	XRF Function Disabled
1	CHARACTER	N	SITXRNO	Not signed on
1	CHARACTER	A	SITXRACT	Signed on as active
1	CHARACTER	B	SITXRALT	Signed on as alternate
XRF Takeover Constants. SITTAKE				
1	CHARACTER	A	SITTAKEA	Auto takeover
1	CHARACTER	C	SITTAKEC	Command takeover
1	CHARACTER	M	SITTAKEM	Manual takeover
CSD Constants for SITCSDRC, SITCSDAC and SITCSDIS				
1	HEX	80	SITCSRCA	All
1	HEX	40	SITCSRCN	None
1	HEX	20	SITCSRCB	Backout only
1	HEX	00	SITCSSHA	Static

Table 563. (continued)

Len	Type	value	Name	Description
1	HEX	80	SITCSFUZ	Dynamic
1	HEX	80	SITCSDRO	Read only
1	HEX	40	SITCSDRW	Read Write
1	HEX	80	SITCSDSH	Shr
1	HEX	40	SITCSDOL	Old
	Front-End Programming Interface Constants for SITFEPOP			
1	CHARACTER	Y	SITFEPIN	FEPI required
1	CHARACTER	N	SITFEPOU	FEPI absent
	Constants for SITSINIT (START=INITIAL). SITSINIT qualifies a SITSTART='I' denoting whether its a cold start or an initial start.			
1	CHARACTER	Y	SITSINIY	Start=initial
1	CHARACTER	N	SITSININ	Not start=initial
	DBCTL connect required constants for SITDBCOP			
1	CHARACTER	Y	SITDBCTY	required
1	CHARACTER	N	SITDBCTN	not required
	DB2 connect required constants for SITDB2OP			
1	CHARACTER	Y	SITDB2Y	required
1	CHARACTER	N	SITDB2N	not required
	MQ connect required constants for SITMQOP			
1	CHARACTER	Y	SITMQY	required
1	CHARACTER	N	SITMQN	not required
	SECURITY CONSTANTS FOR SITSCOPE			
1	DECIMAL	1	SITSNS_N	SIGNON SCOPE=NONE
1	DECIMAL	2	SITSNS_C	SIGNON SCOPE=CICS
1	DECIMAL	3	SITSNS_M	SIGNON SCOPE=MVSIMAGE *
1	DECIMAL	4	SITSNS_S	SIGNON SCOPE=SYSPLEX
	PROGRAM MANAGER CONSTANTS			
1	CHARACTER	I	SITAPGMI	INACTIVE
1	CHARACTER	A	SITAPGMA	ACTIVE
1	CHARACTER	M	SITACTGM	MODIFY
1	CHARACTER	N	SITACTGN	NONE
1	CHARACTER	A	SITACTGA	ALL

SJCON Java VM domain control blocks

Table 564.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	704	SJA	
!:refstep.sja_prefix -------------------------------- DFHSJCON 302 - ! ! Block header ! !--				
(0)	CHARACTER	16	SJA_PREFIX	===> eyecatcher <===
(0)	HALFWORD	2	SJA_LENGTH	length of sja
(2)	CHARACTER	14	SJA_PREFIX_TEXT	>DFHSJAnchor
!:erefstep.sja_prefix --- !:refstep.sja_domain_state -------------------------- DFHSJCON 310 - ! ! Domain state information ! !--				
			-- -! All doubleword-aligned fields start here ! -------------- --!	
(10)	CHARACTER	8	SJA_GENERAL_ SPTOKEN	
				general subpool
(18)	CHARACTER	8	SJA_SJTCB_ SPTOKEN	sjtcb subpool
(20)	CHARACTER	8	SJA_SJPTE_ SPTOKEN	Profile table
(28)	CHARACTER	8	SJA_SJCCH_ SPTOKEN	sjcch subpool
(30)	CHARACTER	8	SJA_SJUSR_ SPTOKEN	User key subpool
(38)	CHARACTER	8	SJA_CACHE_SIZE	Class Cache Size
(38)	UNSIGNED	4	SJA_CACHE_ SIZE_HI	high order word
(3C)	UNSIGNED	4	SJA_CACHE_ SIZE_LO	lo order word
			-- -! All fullword-aligned fields start here ! ----------------- ---!	
(40)	ADDRESS	4	SJA_LOCK_TOKEN	global lock token
(44)	ADDRESS	4	SJA_JVMPOOL_ LOCK_TOKEN	
				jvmpool lock token
(48)	ADDRESS	4	SJA_CACHE_ LOCK_TOKEN	
				Classscache lock tkn

Table 564. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	ADDRESS	4	SJA_JVMPOOL_ ANCHOR	JVMPOOL SJTCB list
(50)	ADDRESS	4	SJA_CLASSCACHE_ ANCHOR	
				Class Cache list
(54)	ADDRESS	4	SJA_SJPTE_ANCHOR	Profile table
(58)	ADDRESS	4	SJA_CELQPIPI_ ENTRY	celqpipi entry point
(5C)	ADDRESS	4	SJA_JVM_ TRACE_OPTIONS (4294967300:130580408)	
				4 trace option strs
(6C)	FULLWORD	4	SJA_PROFILE_ DIR_LEN	
				len JVMPROFILEDIR
(70)	CHARACTER	52	SJA_STATS_DATA	SJ statistics data
(70)	ADDRESS	4	SJA_STATS_ BUFFER_PTR	
				Statistics buffer
(74)	CHARACTER	8	SJA_STATS_ LAST_RESET_TIME	
				Stats last reset tim
(7C)	FULLWORD	4	SJA_CURRENT_ JVMS	Current number of JVMs
(80)	FULLWORD	4	SJA_PEAK_JVMS	Peak number of JVMs
(84)	FULLWORD	4	SJA_CURRENT_ CCACHE_JVMS	
				Current Class Cache JVMs
(88)	FULLWORD	4	SJA_PEAK_ CCACHE_JVMS	
				Peak Class Cache JVMs
(8C)	FULLWORD	4	SJA_JVM_ REQUESTS_TOTAL	
				Total JVM program reqs
(90)	FULLWORD	4	SJA_JVM_ REQUESTS_REUSE	
				JVM reqs - reuse mode
(94)	FULLWORD	4	SJA_JVM_ REQUESTS_INIT	
				JVM reqs - init
(98)	FULLWORD	4	SJA_JVM_ REQUESTS_MISMATCH	

Table 564. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				JVM reqs - mismatch
(9C)	FULLWORD	4	SJA_JVM_ REQUESTS_ TERMINATE	
				JVM reqs - terminate
(A0)	FULLWORD	4	SJA_JVM_ REQUESTS_CACHE	
				JVM reqs - classcache
Master control block for JVMServers !@M6A jcb = JVMServer Control Block !				
(A4)	ADDRESS	4	SJA_JCB_PTR	
(A8)	ADDRESS	4	SJA_DFHSJOI_ ENTRY	OSGi ICM entry pt
-- -! All halfword-aligned fields start here ! ----------------- ---!				
(AC)	HALFWORD	2	SJA_JVM_ TRACE_OPTIONL (4294967300:130580408)	
				4 trace option lens
(B4)	HALFWORD	2	SJA_CACHE_ GENERATION	
				Cache generation no.
-- -! All unaligned fields start here ! ----------------------- --------------------------------------!				
(B6)	CHARACTER	244	SJA_PROFILE_DIR	SIT JVMPROFILEDIR
(1AA)	CHARACTER	9	SJA_APPLID	Null-terminated
(1AA)	CHARACTER	8	SJA_APPLID_AREA	Applid + nulls
(1B2)	CHARACTER	1	SJA_APPLID_ TERMINATOR	
				For 8 byte applid
(1B3)	UNSIGNED	1	SJA_SJ_STATE	SJ domain state initialised, quiesced or terminated
(1B4)	UNSIGNED	1	SJA_FLAGS	Flags
	1...		SJA_COLD_START	1=CICS cold started
	.1..		SJA_STORAGE_ PROTECT	
				1=Storage protection on
	..1.		SJA_MVS_ STG_THRESHOLD_ BREACHED	
				1=Storage constrained

Table 564. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		SJA_MVS_ STG_CUSHION_ BREACHED	
				1=short on storage
	.... 1...		SJA_FIRST_JVM	1=first JVM not run
	.... .1..		SJA_DESTROY_ STALE_CACHE	
				1=destroy old cache
	.... ..1.		SJA_EXPIRE_ CACHES	1=destroy expired shared caches
	1		SJA_STATE	1=JVM server active
(1B5)	UNSIGNED	1	SJA_JVMPOOL_ FLAGS	Stats last reset time
	1...		SJA_JVMPOOL_ ENABLED	
				1=jvmpool is enabled
	.111 1111		*	Reserved
(1B6)	UNSIGNED	1	SJA_CACHE_FLAGS	Cache flags
	1...		SJA_CACHE_ AUTOSTART	
				1 = autostart ok
	.1..		SJA_CACHE_ INIT_START	
				1 = start at init
	..11 1111		*	Reserved
(1B7)	UNSIGNED	1	SJA_USER_ EXEC_KEY	Copy of CSAUSKEY
(1B8)	UNSIGNED	1	SJA_CICS_ EXEC_KEY	Copy of CSACIKEY
(1B9)	UNSIGNED	1	SJA_CACHE_ EXEC_KEY	cache exec key
(1BA)	CHARACTER	1	*	Reserved
(1BB)	CHARACTER	255	SJA_USS_HOME_DIR	USSHOME SIT PARM
(2BA)	UNSIGNED	1	SJA_USS_HOME_LEN	Length of USSHOME
(2BB)	CHARACTER	5	*	Reserved
!:erefstep.sja_domain_state --				
(2C0)	CHARACTER	0	SJA_END	

Constants

Table 565.

Len	Type	value	Name	Description
!:refstep.sj_msg_numbers --------------------------- DFHSJCON 850 - ! ! @BANNER_START 04 ! ! OCO Source Materials DFHSJTRC ! ! ! ! ! The source code for the program is not published ! or otherwise divested of its trade secrets, ! irrespective of what has been deposited with the ! ! ! ! ! @BANNER_END ! Generated on 30 Mar 2011 (2011/03/30) from file DFHSJCON ! ! Message numbers and system dumpcode values ! !--				
1	DECIMAL	1	MNO_ABEND	
8	CHARACTER	SJ0001	DCD_ABEND	
1	DECIMAL	2	MNO_SEVERE_ERROR	
8	CHARACTER	SJ0002	DCD_SEVERE_ERROR	
1	DECIMAL	3	MNO_NO_STORAGE	
8	CHARACTER	SJ0003	DCD_NO_STORAGE	
8	CHARACTER	SJ0004	DCD_LOOP	
1	DECIMAL	4	MNO_LOOP	
SJDM 101 - 199				
2	DECIMAL	101	MSG_SJDM_INIT_START	
2	DECIMAL	102	MSG_SJDM_INIT_END	
2	DECIMAL	103	MSG_SJDM_INIT_FAIL	
8	CHARACTER	SJ0103	MSG_SJDM_ INIT_FAIL_ABEND	
SJIN 201 - 299				
2	DECIMAL	201	MSG_SJIN_ INIT_SUB_FAILED	
8	CHARACTER	SJ0201	DCD_SJIN_ INIT_SUB_FAILED	
2	DECIMAL	202	MSG_SJIN_TERM_FAILED	
8	CHARACTER	SJ0202	DCD_SJIN_ TERM_FAILED	
2	DECIMAL	203	MSG_SJIN_ CALL_SUB_0_FAILED	
8	CHARACTER	SJ0203	DCD_SJIN_ CALL_SUB_0_FAILED	

Table 565. (continued)

Len	Type	value	Name	Description
2	DECIMAL	204	MSG_SJIN_ CALL_SUB_1_FAILED	
8	CHARACTER	SJ0204	DCD_SJIN_ CALL_SUB_1_FAILED	
2	DECIMAL	205	MSG_SJIN_ CALL_SUB_2_FAILED	
8	CHARACTER	SJ0205	DCD_SJIN_ CALL_SUB_2_FAILED	
2	DECIMAL	206	MSG_SJIN_ RTOPTS_TOO_LONG	
2	DECIMAL	207	MSG_SJIN_ RUNNING_JAVA_VERSION	
2	DECIMAL	210	MSG_SJIN_ START_JVM_FAILED	
2	DECIMAL	211	MSG_SJIN_ START_JVM_THREW_ EXCEPTION	
2	DECIMAL	212	MSG_SJIN_ JVM_TERMINATION_ ERROR	
2	DECIMAL	213	MSG_SJIN_ TERM_JVM_THREW_ EXCEPTION	
2	DECIMAL	214	MSG_SJIN_ SYSTEM_EXIT_INVOKED	
2	DECIMAL	215	MSG_SJIN_ OSGI_INIT_EXCEPTION	
SJIS 301 – 399 dcl msg_sjis_xxxxx fixed bin (16) constant (301); SJST 401 – 499 dcl msg_sjst_xxxxx fixed bin (16) constant (401); SJCS 501 – 599				
2	DECIMAL	501	MSG_SJCS_NO_WRAPPER	
2	DECIMAL	502	MSG_SJCS_ CHDIR_FAILED	
2	DECIMAL	503	MSG_SJCS_ DLLLOAD_FAILED	
2	DECIMAL	505	MSG_SJCS_ OPEN_FAILED_A	
2	DECIMAL	506	MSG_SJCS_ UNKNOWN_PARM	
2	DECIMAL	507	MSG_SJCS_ UNKNOWN_OPTION	
2	DECIMAL	508	MSG_SJCS_ OPTION_IGNORED	
2	DECIMAL	509	MSG_SJCS_ OPEN_FAILED_B	

Table 565. (continued)

Len	Type	value	Name	Description
2	DECIMAL	510	MSG_SJCS_ FETCH_URM_FAILED	
2	DECIMAL	511	MSG_SJCS_ WORK_DIR_READONLY	
2	DECIMAL	512	MSG_SJCS_ CONCAT_FOUND_EOF	
2	DECIMAL	513	MSG_SJCS_ CANT_BUILD_SACP	
2	DECIMAL	514	MSG_SJCS_ PROB_IN_PROFILE	
2	DECIMAL	515	MSG_SJCS_ PROB_IN_SYSPROP	
2	DECIMAL	516	MSG_SJCS_ CREATEJVM_FAILED	
8	CHARACTER	SJ0516	DCD_SJCS_ CREATEJVM_FAILED	
2	DECIMAL	517	MSG_SJCS_ MISSING_PARM	
2	DECIMAL	518	MSG_SJCS_ GETJVMEXT_FAILED	
8	CHARACTER	SJ0518	DCD_SJCS_ GETJVMEXT_FAILED	
			!	
2	DECIMAL	521	MSG_SJCS_TM_PREFIX	
2	DECIMAL	522	MSG_SJCS_TM_SUFFIX	
2	DECIMAL	523	MSG_SJCS_CLASSPATH	
2	DECIMAL	524	MSG_SJCS_ OBSOLETE_JVM_MODE	
2	DECIMAL	525	MSG_SJCS_ XRESETTABLE_IGNORED	
2	DECIMAL	526	MSG_SJCS_ OBSOLETE_PROPERTY	
2	DECIMAL	527	MSG_SJCS_ OBSOLETE_OPTION	
2	DECIMAL	528	MSG_SJCS_ MAX_RESETS_DEPRECATED	
2	DECIMAL	529	MSG_SJCS_ INVALID_GC_THRESHOLD	
2	DECIMAL	530	MSG_SJCS_ INVALID_TIMEOUT	
2	DECIMAL	531	MSG_SJCS_ JAVA_HOME_ERROR	
2	DECIMAL	532	MSG_SJCS_ JAVA_HOME_EACCES	
2	DECIMAL	533	MSG_SJCS_ JAVA_INSTALL_BAD	

Table 565. (continued)

Len	Type	value	Name	Description
2	DECIMAL	534	MSG_SJCS_ CICS_DIR_HOME	
2	DECIMAL	535	MSG_SJCS_ USSHOME_ERROR	
2	DECIMAL	536	MSG_SJCS_ USSHOME_EACCES	
2	DECIMAL	537	MSG_SJCS_ CICS_INSTALL_BAD	
2	DECIMAL	538	MSG_SJCS_LIBPATH	
2	DECIMAL	539	MSG_SJCS_ DEPRECATED_OPTION	
2	DECIMAL	540	MSG_SJCS_ USSHOME_NONE	
2	DECIMAL	541	MSG_SJCS_ NO_CICS_UNIX_DIR	
2	DECIMAL	542	MSG_SJCS_ WILDCARD_OVERFLOW	
2	DECIMAL	900	MSG_SJCS_ BAD_JAVA_VERSION	
SJCC 601 - 699 dcl msg_sjcc_xxxxx fixed bin (16) constant (601); SJSC 1001 - 1099				
2	DECIMAL	1001	MSG_SJSC_ ATTACH_THREAD_ FAILED	
2	DECIMAL	1002	MSG_SJSC_ CLASS_NOT_FOUND	
2	DECIMAL	1003	MSG_SJSC_ METHOD_NOT_FOUND	
2	DECIMAL	1004	MSG_SJSC_ JVM_THREW_EXCEPTION	
2	DECIMAL	1005	MSG_SJSC_ DETACH_THREAD_ FAILED	
Message reason constants for MSG SJ0210 (Start JVM failed)				
1	DECIMAL	1	MSG_SJIN_ ERROR_PROCESSING_ PROFILE	
1	DECIMAL	2	MSG_SJIN_ ERROR_OPENING_ JVM_DLL	
1	DECIMAL	3	MSG_SJIN_ JNI_CREATE_NOT_ FOUND	
1	DECIMAL	4	MSG_SJIN_ SETUP_CLASS_NOT_ FOUND	

Table 565. (continued)

Len	Type	value	Name	Description
1	DECIMAL	5	MSG_SJIN_ TERMINATION_CLASS_ NOT_FOUND	
1	DECIMAL	6	MSG_SJIN_ CREATE_JVM_FAILED	
1	DECIMAL	7	MSG_SJIN_ CHDIR_FAILED	
1	DECIMAL	8	MSG_SJIN_ WORK_DIR_READONLY	
1	DECIMAL	9	MSG_SJIN_ ERROR_LOCATING_ MAIN	
1	DECIMAL	10	MSG_SJIN_ ATTACH_FAILED	
1	DECIMAL	11	MSG_SJIN_ SETUP_CLASS_TIMEDOUT	
1	DECIMAL	12	MSG_SJIN_ ENCLAVE_INIT_FAILED	
1	DECIMAL	20	MSG_SJIN_ INTERNAL_ERROR	
Message reason constants for MSG SJ0212 (JVM termination error)				
1	DECIMAL	1	MSG_SJIN_ TERM_CLASS_NOT_ FOUND	
1	DECIMAL	2	MSG_SJIN_ TERM_ERROR_LOCATING_ MAIN	
1	DECIMAL	3	MSG_SJIN_ TERM_INTERNAL_ ERROR	
1	DECIMAL	4	MSG_SJIN_ TERM_CLASS_TIMEDOUT	
SJRL 1100 - 1149 ! Assume 50 SRJL msgs ample				
2	DECIMAL	1100	MSG_BUNDLE_ INSTALL_FAILED	
2	DECIMAL	1101	MSG_BUNDLE_ ENABLE_FAILED	
2	DECIMAL	1102	MSG_BUNDLE_ DISABLE_FAILED	
2	DECIMAL	1103	MSG_BUNDLE_ DISCARD_FAILED	
2	DECIMAL	1104	MSG_BUNDLE_ JVMSERVER_DISABLED	
Message reason constants for MSG SJ1100 (OSGi bundle install err)				
1	DECIMAL	1	MSG_BUNDLE_ INSTALL_UNKNOWN_ ERROR	

Table 565. (continued)

Len	Type	value	Name	Description
1	DECIMAL	2	MSG_BUNDLE_ INSTALL_NO_JVMSERVER	
1	DECIMAL	3	MSG_BUNDLE_ INSTALL_EXC_FROM_ JVMSERVER	
				QDXC
1	DECIMAL	4	MSG_BUNDLE_ INSTALL_NO_OSGI	
1	DECIMAL	5	MSG_BUNDLE_ INTERNAL_ERROR	
1	DECIMAL	6	MSG_BUNDLE_ DUPLICATE_BUNDLE	
Message reason constants for MSG SJ1101 (OSGi bundle enable err)				
1	DECIMAL	1	MSG_BUNDLE_ ENABLE_NO_JVMSERVER	
1	DECIMAL	2	MSG_BUNDLE_ ENABLE_EXC_FROM_ JVMSERVER	
Message reason constants for MSG SJ1102 (OSGi bundle enable err)				
1	DECIMAL	1	MSG_BUNDLE_ DISABLE_NO_JVMSERVER	
1	DECIMAL	2	MSG_BUNDLE_ DISABLE_EXC_FROM_ JVMSERVER	
!::erefstep.sj_msg_numbers --				
2	HEX	0101	TID_SJDM_ENTRY	
2	HEX	0102	TID_SJDM_EXIT	
2	HEX	0103	TID_SJDM_RECOVERY	
2	HEX	0104	TID_SJDM_ INVALID_FORMAT	
2	HEX	0105	TID_SJDM_ INVALID_FUNCTION	
2	HEX	0106	TID_SJDM_ RELEASE_LOCK_ERROR	
2	HEX	0107	TID_SJDM_ NO_STORAGE_FOR_ SJA	
2	HEX	0108	TID_SJDM_ NO_STORAGE_FOR_ STATS	
2	HEX	010A	TID_SJDM_ INQ_STGPROT_FAILED	
2	HEX	010B	TID_SJDM_ NO_STORAGE_FOR_ JCB	
2	HEX	0201	TID_SJIN_ENTRY	

Table 565. (continued)

Len	Type	value	Name	Description
2	HEX	0202	TID_SJIN_EXIT	
2	HEX	0203	TID_SJIN_RECOVERY	
2	HEX	0204	TID_SJIN_ INVALID_FORMAT	
2	HEX	0205	TID_SJIN_ INVALID_FUNCTION	
2	HEX	0206	TID_SJIN_ GET_LOCK_ERROR	
2	HEX	0207	TID_SJIN_ RELEASE_LOCK_ERROR	
2	HEX	0208	TID_SJIN_ INVALID_DSAT_FUNCTION	
2	HEX	0209	TID_SJIN_ INTERNAL_ERROR	
2	HEX	020C	TID_SJIN_ SYSTEM_EXIT_FROM_ JVM	
2	HEX	020E	TID_SJIN_ RUNNING_JAVA_VERSION	
2	HEX	0213	TID_SJIN_ ADD_TO_JVMPOOL	
2	HEX	0214	TID_SJIN_ REMOVE_FROM_JVMPOOL	
2	HEX	0215	TID_SJIN_ INIT_SUB_FAILED	
2	HEX	0217	TID_SJIN_ CALL_SUB_0_FAILED	
2	HEX	0218	TID_SJIN_ CALL_SUB_1_FAILED	
2	HEX	0219	TID_SJIN_ CALL_SUB_2_FAILED	
2	HEX	021A	TID_SJIN_ JVM_ABENDED	
2	HEX	0221	TID_SJIN_ DESTROY_ENCLAVE	
2	HEX	0223	TID_SJIN_ CALL_SUB_3_FAILED	
2	HEX	0224	TID_SJIN_ INVOKE_WRAPPER	
2	HEX	0225	TID_SJIN_ RTOPTS_TOO_LONG	
2	HEX	0226	TID_SJIN_ INVOKE_SYSTEM_GC	
2	HEX	0227	TID_SJIN_ INIT_SCCACHE	
2	HEX	0228	TID_SJIN_ DESTROY_SCCACHE	

Table 565. (continued)

Len	Type	value	Name	Description
JVMSERVER-related tracepoints in DFHSJIN				
2	HEX	0239	TID_SJIN_ PTHREAD_CREATE_ FAIL	
2	HEX	023A	TID_SJIN_ ERROR_PROCESSING_ PROFILE	
2	HEX	023B	TID_SJIN_ ERROR_OPENING_ JVM_DLL	
2	HEX	023C	TID_SJIN_ JNI_CREATE_NOT_ FOUND	
2	HEX	023D	TID_SJIN_ SETUP_CLASS_NOT_ FOUND	
2	HEX	023E	TID_SJIN_ CREATE_JVM_FAILED	
2	HEX	023F	TID_SJIN_ CHDIR_FAILED	
2	HEX	0240	TID_SJIN_ WORK_DIR_READONLY	
2	HEX	0241	TID_SJIN_ ERROR_LOCATING_ MAIN	
2	HEX	0242	TID_SJIN_ MAIN_METHOD_EXCEPTION	
2	HEX	0243	TID_SJIN_ TERMINATION_CLASS_ NOT_FOUND	
2	HEX	0244	TID_SJIN_ ATTACH_FAILED	
2	HEX	0245	TID_SJIN_ SETUP_CLASS_TIMEDOUT	
2	HEX	0246	TID_SJIN_ TERM_CLASS_TIMEDOUT	
2	HEX	0247	TID_SJIN_ ENCLAVE_INIT_FAILED	
2	HEX	0248	TID_SJIN_ OSGI_INIT_FAILED	
2	HEX	0301	TID_SJIS_ENTRY	
2	HEX	0302	TID_SJIS_EXIT	
2	HEX	0303	TID_SJIS_RECOVERY	
2	HEX	0304	TID_SJIS_ INVALID_FORMAT	
2	HEX	0305	TID_SJIS_ INVALID_FUNCTION	

Table 565. (continued)

Len	Type	value	Name	Description
2	HEX	0306	TID_SJIS_ GET_LOCK_ERROR	
2	HEX	0307	TID_SJIS_ RELEASE_LOCK_ERROR	
2	HEX	0308	TID_SJIS_ PHASING_OUT_JVM	
2	HEX	0309	TID_SJIS_ CANCEL_TASK_ERROR1	
2	HEX	030A	TID_SJIS_ CANCEL_TASK_ERROR2	
2	HEX	030B	TID_SJIS_ CANCEL_TASK_ERROR3	
2	HEX	030D	TID_SJIS_ JVMTRACE_SET_OPT	
2	HEX	030E	TID_SJIS_ JVMTRACE_GET_OPT	
2	HEX	0401	TID_SJST_ENTRY	
2	HEX	0402	TID_SJST_EXIT	
2	HEX	0403	TID_SJST_RECOVERY	
2	HEX	0404	TID_SJST_ INVALID_FORMAT	
2	HEX	0405	TID_SJST_ INVALID_FUNCTION	
2	HEX	0406	TID_SJST_ INVALID_PARMS	
2	HEX	0407	TID_SJST_ GET_EXC_LOCK_ERROR	
2	HEX	0408	TID_SJST_ RELEASE_EXC_LOCK_ ERROR	
2	HEX	0409	TID_SJST_ GET_SHR_LOCK_ERROR	
2	HEX	0410	TID_SJST_ RELEASE_SHR_LOCK_ ERROR	
2	HEX	0411	TID_SJST_ RECOVERY_RELEASE_ LOCK_ERROR	
2	HEX	0412	TID_SJST_ UNKNOWN_KE_ERROR_ CODE	
2	HEX	0501	TID_SJCS_ SJCSBLD_ENTRY	
2	HEX	0502	TID_SJCS_ SJCSBLD_EXIT	
2	HEX	0503	TID_SJCS_ SJCSCALL_ENTRY	

Table 565. (continued)

Len	Type	value	Name	Description
2	HEX	0504	TID_SJCS_ SJCSCALL_EXIT	
2	HEX	0505	TID_SJCS_ SJCSDES_ENTRY	
2	HEX	0506	TID_SJCS_ SJCSDES_EXIT	
2	HEX	0507	TID_SJCS_ INITCC_ENTRY	
2	HEX	0508	TID_SJCS_ CHDIR_FAILED	
2	HEX	0509	TID_SJCS_ CREATEJVM_BEFORE	
2	HEX	050A	TID_SJCS_ CREATEJVM_AFTER	
2	HEX	050C	TID_SJCS_ CREATEJVM_FAILED	
2	HEX	050D	TID_SJCS_ FINDCLASS_BEFORE	
2	HEX	050E	TID_SJCS_ FINDCLASS_AFTER	
2	HEX	050F	TID_SJCS_ FINDCLASS_FAILED	
2	HEX	0510	TID_SJCS_ GETMETHOD_BEFORE	
2	HEX	0511	TID_SJCS_ GETMETHOD_AFTER	
2	HEX	0512	TID_SJCS_ GETMETHOD_FAILED	
2	HEX	0513	TID_SJCS_ BUILDARGS_BEFORE	
2	HEX	0514	TID_SJCS_ BUILDARGS_AFTER	
2	HEX	0515	TID_SJCS_ BUILDARGS_FAILED	
2	HEX	0516	TID_SJCS_ EXECUTECLASS_BEFORE	
2	HEX	0517	TID_SJCS_ EXECUTECLASS_AFTER	
2	HEX	0518	TID_SJCS_ WRAPPER_EXCEPTION	
2	HEX	0519	TID_SJCS_ INIT_CLASS_CACHE	
2	HEX	051A	TID_SJCS_ CLASS_CACHE_FAILED	
2	HEX	051B	TID_SJCS_ DESTROYJVM_BEFORE	

Table 565. (continued)

Len	Type	value	Name	Description
2	HEX	051C	TID_SJCS_ DESTROYJVM_AFTER	
2	HEX	051D	TID_SJCS_ INITCC_EXIT	
2	HEX	051F	TID_SJCS_ ADD_RECOVERY_FAILED	
2	HEX	0520	TID_SJCS_ FETCHURM_BEFORE	
2	HEX	0521	TID_SJCS_ FETCHURM_AFTER	
2	HEX	0523	TID_SJCS_ INVURM_BEFORE	
2	HEX	0524	TID_SJCS_ INVURM_AFTER	
2	HEX	0525	TID_SJCS_ DLLLOAD_FAILED	
2	HEX	0526	TID_SJCS_ SETVMARGS_ENTRY	
2	HEX	0527	TID_SJCS_ SETVMARGS_EXIT	
2	HEX	0528	TID_SJCS_ INVALID_PROFILE	
2	HEX	0529	TID_SJCS_ FETCH_URM_FAILED	
2	HEX	052A	TID_SJCS_ WORK_DIR_READONLY	
2	HEX	052D	TID_SJCS_ SET_JVMTRACE_BEFORE	
2	HEX	052E	TID_SJCS_ SET_JVMTRACE_OPTION	
2	HEX	052F	TID_SJCS_ SET_JVMTRACE_MEMERR	
2	HEX	0530	TID_SJCS_ SET_JVMTRACE_JNIERR	
2	HEX	0531	TID_SJCS_ SET_JVMTRACE_RASERR	
2	HEX	0532	TID_SJCS_ SET_JVMTRACE_AFTER	
2	HEX	0533	TID_SJCS_ DFHSJCSL_SWITCH	
2	HEX	0534	TID_SJCS_ ENVPARMS_UNRECOG	
2	HEX	0535	TID_SJCS_ GETJVMEXT_FAILED	
2	HEX	0536	TID_SJCS_JVMOPT	
2	HEX	0537	TID_SJCS_ SET_TIMEOUT_FAILED	

Table 565. (continued)

Len	Type	value	Name	Description
2	HEX	0538	TID_SJCS_ SCHEDULE_GC_FAILED	
2	HEX	0601	TID_SJCC_ENTRY	
2	HEX	0602	TID_SJCC_EXIT	
2	HEX	0603	TID_SJCC_RECOVERY	
2	HEX	0604	TID_SJCC_ INVALID_FORMAT	
2	HEX	0605	TID_SJCC_ INVALID_FUNCTION	
2	HEX	0606	TID_SJCC_ GET_LOCK_ERROR	
2	HEX	0607	TID_SJCC_ RELEASE_LOCK_ERROR	
2	HEX	060B	TID_SJCC_ ADD_TO_CLASSCACHE	
2	HEX	060C	TID_SJCC_ REMOVE_FROM_CLASSCACHE	
2	HEX	060D	TID_SJCC_ INVALID_CC_STATE	
2	HEX	060E	TID_SJCC_ CANCEL_TASK_ERROR1	
2	HEX	060F	TID_SJCC_ CANCEL_TASK_ERROR2	
2	HEX	0610	TID_SJCC_ CANCEL_TASK_ERROR3	
2	HEX	0612	TID_SJCC_ INIT_SCCACHE_FAILED	
2	HEX	0613	TID_SJCC_ DESTROY_SCCACHE_ FAILED	
2	HEX	0901	TID_SJSM_ENTRY	
2	HEX	0902	TID_SJSM_EXIT	
2	HEX	0A01	TID_SJDS_ENTRY	
2	HEX	0A02	TID_SJDS_EXIT	
2	HEX	0A03	TID_SJDS_RECOVERY	
2	HEX	0A04	TID_SJDS_ INVALID_FORMAT	
2	HEX	0A05	TID_SJDS_ INVALID_FUNCTION	
2	HEX	0A06	TID_SJDS_ INTERNAL_ERROR	
2	HEX	0A07	TID_SJDS_ EXCEPTION_DATA	
2	HEX	0B01	TID_SJJS_ENTRY	
2	HEX	0B02	TID_SJJS_EXIT	

Table 565. (continued)

Len	Type	value	Name	Description
2	HEX	0B03	TID_SJJS_ INVALID_FORMAT	
2	HEX	0B04	TID_SJJS_ INVALID_FUNCTION	
2	HEX	0B05	TID_SJJS_ RECOVERY_ENTERED	
2	HEX	0B06	TID_SJJS_FAILURE	
2	HEX	0B07	TID_SJJS_ INTERNAL_ERROR	
2	HEX	0B08	TID_SJJS_ LE_RUNOPTS	
2	HEX	0C01	TID_SJTH_ENTRY	
2	HEX	0C02	TID_SJTH_EXIT	
2	HEX	0C03	TID_SJTH_ INVALID_FORMAT	
2	HEX	0C04	TID_SJTH_ INVALID_FUNCTION	
2	HEX	0C05	TID_SJTH_ RECOVERY_ENTERED	
2	HEX	0C06	TID_SJTH_FAILURE	
2	HEX	0C07	TID_SJTH_ UNKNOWN_KE_ERROR_ CODE	
2	HEX	0C08	TID_SJTH_ LOCK_ERROR	
2	HEX	0C09	TID_SJTH_ UNLOCK_ERROR	
2	HEX	0C0A	TID_SJTH_ RETURN_FROM_NATIVE	
2	HEX	0C0B	TID_SJTH_ INTERNAL_ERROR	
2	HEX	0D01	TID_SJSC_ NATIVE_ENTRY	
2	HEX	0D02	TID_SJSC_ NATIVE_EXIT	
2	HEX	0D03	TID_SJSC_ ATTACH_THREAD_ FAILED	
2	HEX	0D04	TID_SJSC_ CLASS_NOT_FOUND	
2	HEX	0D05	TID_SJSC_ METHOD_NOT_FOUND	
2	HEX	0D06	TID_SJSC_ JVM_THREW_EXCEPTION	
2	HEX	0D07	TID_SJSC_ DETACH_THREAD_ FAILED	

Table 565. (continued)

Len	Type	value	Name	Description
2	HEX	0D10	TID_SJSC_ PTHREAD_ENTRY	
2	HEX	0D11	TID_SJSC_ PTHREAD_EXIT	
2	HEX	0D12	TID_SJSC_ PTHREAD_WAIT_FOR_ WORK	
2	HEX	0D13	TID_SJSC_ INVOKING_SJ_PTHREAD	
2	HEX	0D14	TID_SJSC_ SJ_PTHREAD_RC	
2	HEX	0E01	TID_SJRL_ENTRY	
2	HEX	0E02	TID_SJRL_EXIT	
		Error trace points in DFHSJRL		
2	HEX	0E03	TID_SJRL_ INVALID_FORMAT	
2	HEX	0E04	TID_SJRL_ INVALID_FUNCTION	
2	HEX	0E05	TID_SJRL_ RECOVERY_ENTERED	
2	HEX	0E06	TID_SJRL_FAILURE	
2	HEX	0E07	TID_SJRL_ UNKNOWN_KE_ERROR_ CODE	
2	HEX	0E08	TID_SJRL_ LOCK_ERROR	
2	HEX	0E09	TID_SJRL_ UNLOCK_ERROR	
2	HEX	0E0A	TID_SJRL_ OSGIXML_GETMAIN_ FAILED	
2	HEX	0E0B	TID_SJRL_ OSGIBPART_GETMAIN_ FAILED	
2	HEX	0E0C	TID_SJRL_ CONVERT_FAILED	
2	HEX	0E0D	TID_SJRL_ BAD_XML_DATA	
2	HEX	0E0E	TID_SJRL_ LDLD_DEFINE_FAILED	
2	HEX	0E0F	TID_SJRL_ LDLD_ACQUIRE_FAILED	
2	HEX	0E10	TID_SJRL_ CREATE_CHANNEL_ FAILED	
2	HEX	0E11	TID_SJRL_ OSGI_INSTALL_FAILED	

Table 565. (continued)

Len	Type	value	Name	Description
2	HEX	0E12	TID_SJRL_ OSGI_ENABLE_FAILED	
2	HEX	0E13	TID_SJRL_ OSGI_DISABLE_FAILED	
2	HEX	0E14	TID_SJRL_ OSGI_DISCARD_FAILED	
2	HEX	0E15	TID_SJRL_ JVMSERVER_NOT_ FOUND	
Success trace points in DFHSJRL				
2	HEX	0E30	TID_SJRL_ PARSED_XML	
2	HEX	0E31	TID_SJRL_ OSGIBUNDLE_INFO	
SJBD traces from SJRL				
2	HEX	0E40	TID_SJRL_ NEW_BUNDLE_EVENT	
2	HEX	0E41	TID_SJRL_ DUPLICATE_BUNDLE_ FOUND	
2	HEX	0E61	TID_SJBD_ENTRY	
2	HEX	0E62	TID_SJBD_EXIT	
Error trace points in DFHSJBD				
2	HEX	0E63	TID_SJBD_ INVALID_FORMAT	
2	HEX	0E64	TID_SJBD_ INVALID_FUNCTION	
2	HEX	0E65	TID_SJBD_ RECOVERY_ENTERED	
2	HEX	0E66	TID_SJBD_FAILURE	
2	HEX	0E67	TID_SJBD_ UNKNOWN_KE_ERROR_ CODE	
2	HEX	0E68	TID_SJBD_ LOCK_ERROR	
2	HEX	0E69	TID_SJBD_ UNLOCK_ERROR	
2	HEX	0E6A	TID_SJBD_ INTERNAL_ERROR	
2	HEX	4D00	TID_APJVMT_ JVMTRACE_PLUGIN	
2	HEX	4D01	TID_APJVMT_ JVMTRACE_TRACEPOINT	
2	HEX	4D02	TID_APJVMT_ FORMATTED_TRACEPOINT	
4	CHARACTER	ASJA	ABEND_ASJA	

Table 565. (continued)

Len	Type	value	Name	Description
4	CHARACTER	ASJB	ABEND_ASJB	
4	CHARACTER	ASJC	ABEND_ASJC	
4	CHARACTER	ASJD	ABEND_ASJD	
4	CHARACTER	ASJE	ABEND_ASJE	
4	CHARACTER	ASJF	ABEND_ASJF	
4	CHARACTER	ASJG	ABEND_ASJG	
4	CHARACTER	ASJH	ABEND_ASJH	
4	CHARACTER	ASJJ	ABEND_ASJJ	
4	CHARACTER	ASJK	ABEND_ASJK	
4	CHARACTER	ASJL	ABEND_ASJL	
4	CHARACTER	ASJM	ABEND_ASJM	
4	CHARACTER	ASJN	ABEND_ASJN	
4	CHARACTER	ASJR	ABEND_ASJR	
4	CHARACTER	ASJS	ABEND_ASJS	
4	CHARACTER	ASJ1	ABEND_ASJ1	
4	CHARACTER	ASJ2	ABEND_ASJ2	
4	CHARACTER	ASJ3	ABEND_ASJ3	
4	CHARACTER	ASJ4	ABEND_ASJ4	
4	CHARACTER	ASJ5	ABEND_ASJ5	
4	CHARACTER	ASJ6	ABEND_ASJ6	
4	CHARACTER	ASJ7	ABEND_ASJ7	
4	CHARACTER	ASJ8	ABEND_ASJ8	
4	CHARACTER	ASJ9	ABEND_ASJ9	
4	DECIMAL	0	RC_SJCS_OK	
4	DECIMAL	0	RC_SJJL_OK	
4	DECIMAL	1	RC_SJCS_NO_PROFILE	
4	DECIMAL	2	RC_SJCS_NO_ PROPERTIES	
4	DECIMAL	3	RC_SJCS_NO_AUTOSTART	
4	DECIMAL	4	RC_SJCS_INVALID_ INDEX	
4	DECIMAL	5	RC_SJJL_DLLLOAD_ FAILED	
4	DECIMAL	6	RC_SJJL_MASTER_ JVM_ABENDED	
4	DECIMAL	13	RC_SJCS_ABORT_DRIVEN	
4	DECIMAL	998	RC_SJJL_DISASTER	
4	DECIMAL	999	RC_SJCS_DISASTER	
4	DECIMAL	0	IX_SJCS_BUILD	

Table 565. (continued)

Len	Type	value	Name	Description
4	DECIMAL	1	IX_SJCS_DESTROY	
4	DECIMAL	2	IX_SJCS_CALL	
4	DECIMAL	3	IX_SJCS_INVOKE_GC	
4	DECIMAL	4	IX_SJCS_INIT_SCCACHE	
4	DECIMAL	5	IX_SJCS_DESTROY_ SCCACHE	
	Supported Java version as null-terminated string "6.0.1"			
6	CHAR HEX	F64BF04BF100	SJ_JAVA_VERSION	
8	CHARACTER	SYSTEM	DEFINESOURCE_ SYSTEM	
8	CHAR HEX	0000000000000000	NULL_TIME	
2	DECIMAL	0	AMSIG_UNKNOWN_AGENT	
2	DECIMAL	1	AMSIG_CSDAPI	
2	DECIMAL	2	AMSIG_CSDBATCH	
2	DECIMAL	3	AMSIG_DREPAPI	
2	DECIMAL	4	AMSIG_CREATE_SPI	
2	DECIMAL	5	AMSIG_GRPLIST	
2	DECIMAL	6	AMSIG_AUTOINSTALL	
2	DECIMAL	7	AMSIG_SYSTEM	
2	DECIMAL	8	AMSIG_DYNAMIC	
2	DECIMAL	9	AMSIG_BUNDLE	
2	DECIMAL	10	AMSIG_TABLE	
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	
!:erefstep.sjcat_record --- !:refstep.sj_domain_states -------------------------- DFHSJCON 747 - ! ! SJ Domain States (printed in formatted dump) ! !--				
1	DECIMAL	1	SJ_STATE_ INITIALISING	
1	DECIMAL	2	SJ_STATE_INITIALISED	
1	DECIMAL	3	SJ_STATE_QUIESCING	
1	DECIMAL	4	SJ_STATE_QUIESCED	
1	DECIMAL	5	SJ_STATE_TERMINATED	
!:erefstep.sj_domain_states -- !:refstep.sj_cache_states -------------------------- DFHSJCON 757 - ! ! ClassCache states ! !--				
1	DECIMAL	1	SJ_CACHE_STOPPED	

Table 565. (continued)

Len	Type	value	Name	Description
1	DECIMAL	2	SJ_CACHE_STARTED	
1	DECIMAL	3	SJ_CACHE_STARTING	
1	DECIMAL	4	SJ_CACHE_READY	
!:erefstep.sj_cache_states -- !:refstep.sj_literals ------------------------------ DFHSJCON 791 - ! ! Literals ! !--				
2	CHARACTER	SJ	COMPID	
8	CHARACTER	SJGENRAL	SPNAME_GENERAL	
8	CHARACTER	SJSJTCB	SJ_SJTCB_SP	
8	CHARACTER	SJSCCHS	SJ_SJCCH_SP	
8	CHARACTER	SJSJPTE	SJ_SJPTE_SP	
8	CHARACTER	SJUSERKY	SJ_SJUSR_SP	
14	CHARACTER	>DFHSJANCHOR	SJA_EYE_CATCHER	
14	CHARACTER	>DFHSJ-SJTCB	SJTCB_EYE_CATCHER	
8	CHARACTER	HISTORY	SJTCB_HL_EYECATCH	
14	CHARACTER	>DFHSJ-SJCCH	SJCCH_EYE_CATCHER	
14	CHARACTER	>DFHSJ-SJVMS	SJVMS_EYE_CATCHER	
8	CHARACTER	SJGLOBAL	SJ_LOCK	
8	CHARACTER	SJVMPOOL	SJ_JVMPOOL_LOCK	
8	CHARACTER	SJCCACHE	SJ_CCACHE_LOCK	
8	CHARACTER	JCB_LOCK	SJ_JCB_LOCK	
4	DECIMAL	1	SJ_JVM_LEVEL0_TRACE	
4	DECIMAL	2	SJ_JVM_LEVEL1_TRACE	
4	DECIMAL	3	SJ_JVM_LEVEL2_TRACE	
4	DECIMAL	4	SJ_JVM_USER_TRACE	
4	CHARACTER	NONE	SJ_JVM_TRACE_NONE	
1	CHARACTER	*	SJ_JVM_TRACE_RESET	
6	CHARACTER	LEVEL0	SJ_JVM_LEVEL0_ TRACE_OPTION	
6	CHARACTER	LEVEL1	SJ_JVM_LEVEL1_ TRACE_OPTION	
6	CHARACTER	LEVEL2	SJ_JVM_LEVEL2_ TRACE_OPTION	
4	CHARACTER	NONE	SJ_JVM_USER_ TRACE_OPTION	

Table 565. (continued)

Len	Type	value	Name	Description
!:erefstep.sj_literals -- !:refstep.sj_misc_constants ------------------------- DFHSJCON 766 - ! ! Misc. constants ! !--				
4	DECIMAL	4096	SJ_STATS_BUFFER_SIZE	
4	DECIMAL	32	SJ_HISTORY_LIST_SIZE	
2	DECIMAL	16384	SJ_JVMPROF_SIZE	
!:erefstep.sj_misc_constants --- !:refstep.sj_error_codes ---------------------------- DFHSJCON 829 - ! ! Error codes (for DFHKERN RECOVERY_REQUEST) ! !--				
4	CHARACTER	ASJA	LOCK_ERROR_CODE	
4	CHARACTER	ASJB	UNLOCK_ERROR_CODE	
42	CHARACTER	http://www.ibm.com/xmlns/prod/cics/bundle/	CICS_BUNDLE_NAMESPACE	
52	CHARACTER	http://www.ibm.com/xmlns/prod/cics/bundle/OSGIBUNDLE	SJ_BUNDLE_TYPE_NAME	
!:refstep.sjth_threadset_instance -------------------- DFHSJTH 1419 - ! ! @BANNER_START 04 ! ! OCO Source Materials DFHSJTHC ! ! ! ! ! The source code for the program is not published ! or otherwise divested of its trade secrets, ! irrespective of what has been deposited with the ! ! ! ! ! @BANNER_END ! Generated on 04 May 2011 (2011/05/04) from file DFHSJTH ! ! The threadset is a simple array of threads. Up to 256 thread are ! supported, although the JVMServer resource definition can specify ! an initial operational limit lower than that. This limit can be ! varied by SPI command. ! ! Each thread in the array is a record of the Dispatcher T8 TCB ! (identified by etoken) and its current owner (or nulls if it is ! free). ! !-- Each JVMServer has a fixed array of 256 thread slots.				
4	DECIMAL	256	SJTH_THREAD_ARRAY_DIM	

Table 565. (continued)

Len	Type	value	Name	Description
8	CHAR HEX	0000000000000000	NULL_THREAD	
4	CHAR HEX	00000000	NO_OWNER	
1	NUMB HEX	00	RESET_NO	
1	NUMB HEX	01	RESET_YES	
1	NUMB HEX	00	DATA_NO	
1	NUMB HEX	01	DATA_YES	
1	DECIMAL	0	NORMAL_THREAD	
1	DECIMAL	1	SYS_THREAD	
4	DECIMAL	1	SJ_OK	
4	DECIMAL	2	SJ_EXCEPTION	
4	DECIMAL	3	SJ_DISASTER	
4	DECIMAL	4	SJ_INVALID	
4	DECIMAL	6	SJ_PURGED	
4	DECIMAL	1	SJ_DUPBUNDLE	
4	DECIMAL	2	SJ_JVMSERVER_ NOT_ENABLED	
!:erefstep.sj_user_defined_types ------------------------------------- !:refstep.sj_constants ----------------------------- DFHSJCON 244 - ! ! 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	
1	DECIMAL	9	USER_KEY	
1	DECIMAL	8	CICS_KEY	
2	DECIMAL	1024	MAXTHRDTCBS	
2	DECIMAL	1	RESERVED_ SYSTEM_THREADS	
4	CHARACTER	AKC3	PURGED_ABCODE	

SJGDS JVMPOOL Global Statistics *O8A

```
CONTROL BLOCK NAME = DFHSJGDS
DESCRIPTIVE NAME  = CICS Jvmpool Global Statistics
   @BANNER_START 02

                        DFHSJGDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
```

```
                          @BANNER_END
                    FUNCTION =
                            This data area contains the jvmpool global statistics
                            provided by the JVM Domain.
                            It is provided for use in users monitoring applications
                            to map the statistics returned via the API or the
                            statistics global user exit.
                            There is a single instance of this data block.
                    LIFETIME =
                            This data block is created by the JVM Domain to store
                            statistics to be passed to the user in response to a
                            request for jvmpool statistics. The storage is released
                            when the user task is detached.
                            The DSECT also maps the contents of part of the SMF buffer
                            created by the statistics domain and is used in the
                            statistics exit.
                    STORAGE CLASS =
                    LOCATION =
                            The user is passed a pointer to the head of the storage
                            block.
                    INNER CONTROL BLOCKS = None
                    NOTES :
                       DEPENDENCIES = S/370
                       RESTRICTIONS = None
                       MODULE TYPE = Control block definition
                    -------------------------------------------------------------
                    ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHSJGDS IS
                    NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
                    PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 566.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSJGDS	Jvmpool Global stats record
(0)	HALFWORD	2	SJGDS_LEN	Jvmpool Global stats record length
(2)	ADDRESS	2	SJGDS_ID	Jvmpool Global stats id
(2)	SIGNED	0	SJGIDR	"117" Global Jvmpool stats id mask
(4)	CHARACTER	1	SJGDS_VERS	Jvmpool Global stats version
(4)	BITSTRING	0	SJGVERS	"X'01'" Current version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	SJG_CURRENT_JVMS	Current JVMs
(C)	FULLWORD	4	SJG_PEAK_JVMS	Peak JVMs
(10)	FULLWORD	4	SJG_JVM_REQS_TOTAL	Total JVM program requests
(14)	FULLWORD	4	SJG_JVM_REQS_REUSE	JVM requests - with JVM reuse
(18)	FULLWORD	4	SJG_JVM_REQS_INIT	JVM requests - JVM initialised
(1C)	FULLWORD	4	SJG_JVM_REQS_MISMATCH	
				JVM requests - JVM mismatch

Table 566. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	FULLWORD	4	SJG_JVM_ REQS_TERMINATE	
				JVM requests - JVM terminated
(24)	FULLWORD	4		Reserved (was JVM reset)
(28)	FULLWORD	4	SJG_CURRENT_ CACHE_JVMS	
				Current Class Cache JVMs
(2C)	FULLWORD	4	SJG_PEAK_ CACHE_JVMS	
				Peak Class Cache JVMs
(30)	FULLWORD	4		Reserved
(34)	FULLWORD	4	SJG_JVM_ REQS_CACHE	JVM requests - Class Cache
(38)	FULLWORD	4		Reserved
(3C)	CHARACTER	8		Reserved
(3C)		0	SJGDS_END	"*"
(3C)		0	SJGDS_LENGTH	"*-SJGDS_LEN" Jvmpool stats record length

SJRDS JVMPROFILE Resource Statistics

```
CONTROL BLOCK NAME = DFHSJRDS
DESCRIPTIVE NAME  = CICS ....
   @BANNER_START 02

                    DFHSJRDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This data area contains the Jvmprofile statistics provided
      by the SJ Domain.
      It is provided for use in users monitoring applications
      to map the statistics returned via the API or the
      statistics global user exit.
      There is a single instance of this data block.
LIFETIME =
      This data block is created by the SJ Domain to store
      statistics to be passed to the user in response to a
      for JVMPROFILE statistics. The storage is released when
      the user task is detached.
      The DSECT also maps the contents of part of the SMF buffer
      created by the statistics domain and is used in the
      statistics exit.
STORAGE CLASS =
LOCATION =
      The user is passed a pointer to the head of the storage
      block.
INNER CONTROL BLOCKS = None
```

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

Table 567.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSJRDS	Jvmprofile Resid stats record
(0)	HALFWORD	2	SJRDS_LEN	Jvmprofile stats record length
(2)	ADDRESS	2	SJRDS_ID	Jvmprofile stats id
(4)	CHARACTER	1	SJRDS_VERS	Jvmprofile stats version
(5)	CHARACTER	3		Reserved
(5)		0	SJRDS_HDR_END	"*" End of stats record header
(5)		0	SJRDS_HDR_LEN	"*-SJRDS_LEN" Stats record header length

Table 568.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SJR_PROFILE_HEADER	Jvmprofile Stats Header
(0)	CHARACTER	8	SJR_PROFILE_NAME	Jvmprofile Name
(8)	CHARACTER	255	SJR_PROFILE_PATH_NAME	
				Jvmprofile HFS Path Name
(107)	BITSTRING	1		Reserved
(108)	BITSTRING	1	SJR_PROFILE_CLASS_CACHE	
				Jvmprofile Class Cache Setting
(109)	BITSTRING	3		Reserved
(10C)	BITSTRING	8		Reserved
(114)	HALFWORD	2	SJR_PROFILE_MODES	No. Jvmprofile modes
(116)	BITSTRING	2		Reserved
(116)		0	SJR_PROFILE_HDR_END	
				"*" End of jvmprofile stats header
(116)		0	SJR_PROFILE_HDR_LEN	
				"*-SJR_PROFILE_HEADER" Jvmprofile header len

Table 569.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SJR_PROFILE_ MODE_STATS	
				Jvmprofile Mode Stats
(0)	BITSTRING	1	SJR_STORAGE_KEY	Jvmprofile Storage key (CICS/USER)
(1)	BITSTRING	3		Reserved
(4)	FULLWORD	4	SJR_PROFILE_ REQUESTS	
				Jvmprofile Request count
(8)	FULLWORD	4	SJR_CURR_ PROFILE_USE	
				Current jvmprofile use count
(C)	FULLWORD	4	SJR_PEAK_ PROFILE_USE	
				Peak jvmprofile use count
(10)	FULLWORD	4	SJR_NEW_ JVMS_CREATED	
				New JVMs created
(14)	FULLWORD	4		Reserved -was #JVMs unresettable
(18)	FULLWORD	4	SJR_MISMATCH_ STEALER	
				No. times mismatch stealer
(1C)	FULLWORD	4	SJR_MISMATCH_ VICTIM	
				No. times mismatch victim
(20)	FULLWORD	4	SJR_LE_HEAP_HWM	LE heap hwm used by JVMs
(24)	FULLWORD	4	SJR_JVM_HEAP_HWM	Nonsystem heap hwm used by JVMs
(28)	FULLWORD	4	SJR_JVMS_ DESTROYED_SOS	
				Times JVMs destroyed by 'SOS' action
(2C)	FULLWORD	4	SJR_GC_COUNT	Times GC requested
(30)	BITSTRING	8		Reserved
(38)	CHARACTER	8	SJR_PROFILE_ XMX_VALUE	
				Jvmprofile -Xmx value

Table 569. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	BITSTRING	8		Reserved
(40)		0	SJR_PROFILE_ MODE_END	
				"*" End of a jvmprofile mode stats
(40)		0	SJR_PROFILE_ MODE_LEN	
				"*- SJR_PROFILE_MODE_STATS" Jvmprofile mode len
(40)		0	SJRDS_END	"*"
(40)		0	SJRDS_LENGTH	"SJRDS_HDR_LEN+SJR_PROFILE_HDR_
Constants that denote a SJ Jvmprofile stats record				
(0)	SIGNED	0	SJR_IDR	"118" Jvmprofile resid stats id
(0)	BITSTRING	0	SJR_VERS	"X'01'" Record version number
Equates for testing SJR_PROFILE_CLASS_CACHE				
(0)	SIGNED	0	SJR_CLASS_ CACHE_NO	"1"
(0)	SIGNED	0	SJR_CLASS_ CACHE_YES	
				"2"
Equates for testing SJR_STORAGE_KEY				
(0)	SIGNED	0	SJR_CICS_KEY	"1"
(0)	SIGNED	0	SJR_USER_KEY	"2"
Equate for Number of Modes				
(0)	SIGNED	0	SJR_NUM_MODES	"2"

SJSDS JVMSERVER Resource Statistics

```
CONTROL BLOCK NAME = DFHSJSDS
DESCRIPTIVE NAME  = CICS JVMSERVER statistics record
   @BANNER_START 02
                       DFHSJSDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This data area contains the JVMSERVER statistics
      provided by the SJ Domain.
      It is provided for use in users monitoring applications
      to map the statistics returned via the API or the
      statistics global user exit.
      There is a single instance of this data block.
LIFETIME =
      This data block is created by the SJ Domain to store
      statistics to be passed to the user in response to a
      for JVMSERVER statistics. The storage is released when
```

```
                 the user task is detached.
                 The DSECT also maps the contents of part of the SMF buffer
                 created by the statistics domain and is used in the
                 statistics exit.
         STORAGE CLASS =
         LOCATION =
                 The user is passed a pointer to the head of the storage
                 block.
         INNER CONTROL BLOCKS = None
         NOTES :
            DEPENDENCIES = S/370
            RESTRICTIONS = None
            MODULE TYPE = Control block definition
      -------------------------------------------------------------------
```

Table 570.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSJSDS	JVMSERVER Resid stats record
(0)	HALFWORD	2	SJSDS_LEN	JVMSERVER stats record length
(2)	ADDRESS	2	SJSDS_ID	JVMSERVER stats id
(4)	CHARACTER	1	SJSDS_VERS	JVMSERVER stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	SJS_JVMSERVER_ NAME	JVMSERVER name
(10)	CHARACTER	8	SJS_JVMSERVER_ JVMPROFILE	
				JVMSERVER JVMPROFILE
(18)	CHARACTER	8	SJS_JVMSERVER_ LE_RUNOPTS	
				JVMSERVER LE RUNOPTS
(20)	BITSTRING	8		Reserved
(28)	FULLWORD	4	SJS_JVMSERVER_ USE_COUNT	
				JVMSERVER use count
(2C)	CHARACTER	1	SJS_JVMSERVER_ STATE	
				JVMSERVER state
(2D)	BITSTRING	3		Reserved
User threads				
(30)	FULLWORD	4	SJS_JVMSERVER_ THREAD_LIMIT	
				Max no. threads
(34)	FULLWORD	4	SJS_JVMSERVER_ THREAD_CURRENT	
				Current threads

Table 570. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	FULLWORD	4	SJS_JVMSERVER_ THREAD_HWM	
				Peak threads
(3C)	FULLWORD	4	SJS_JVMSERVER_ THREAD_WAITS	
				No. thread waits
(40)	BITSTRING	8	SJS_JVMSERVER_ THREAD_WAIT_TIME	
				Total thread wait time
(48)	FULLWORD	4	SJS_JVMSERVER_ THREAD_WAIT_CUR	
				Current waiting threads
(4C)	FULLWORD	4	SJS_JVMSERVER_ THREAD_WAIT_HWM	
				Peak waiting threads
(50)	CHARACTER	32		Reserved
RDO				
(70)	CHARACTER	8	SJS_JVMSERVER_ DEFINE_SOURCE	
				Group installed from
(78)	BITSTRING	8	SJS_JVMSERVER_ CHANGE_TIME	
				Change/create time
(80)	CHARACTER	8	SJS_JVMSERVER_ CHANGE_USERID	
				Change userid
(88)	BITSTRING	2	SJS_JVMSERVER_ CHANGE_AGENT	
				Change agent
(8A)	BITSTRING	2	SJS_JVMSERVER_ INSTALL_AGENT	
				Install agent
(8C)	BITSTRING	8	SJS_JVMSERVER_ INSTALL_TIME	
				Install/Create time
(94)	CHARACTER	8	SJS_JVMSERVER_ INSTALL_USERID	
				Install userid
System threads				
(9C)	FULLWORD	4	SJS_JVMSERVER_ SYS_USE_COUNT	
				System thread use-count

Table 570. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	FULLWORD	4	SJS_JVMSERVER_ SYS_WAITED	
				No. waited on sys thrd
(A4)	BITSTRING	8	SJS_JVMSERVER_ SYS_WAITED_TIME	
				Total time waited
(AC)	FULLWORD	4	SJS_JVMSERVER_ SYS_WAIT_CUR	
				No. waiting on sys thrd
(B0)	FULLWORD	4	SJS_JVMSERVER_ SYS_WAIT_HWM	
				Peak waiting on sys thrd
(B4)	BITSTRING	8	SJS_JVMSERVER_ JVM_CREATION_GMT	
				JVM creation time GMT
(BC)	BITSTRING	8	SJS_JVMSERVER_ JVM_CREATION_LCL	
				JVM creation LOCAL
Heap stats				
(C4)	BITSTRING	4		Reserved
(C8)	BITSTRING	8	SJS_JVMSERVER_ CURRENT_HEAP	
				Current heap
(D0)	BITSTRING	8	SJS_JVMSERVER_ INITIAL_HEAP	
				Initial heap
(D8)	BITSTRING	8	SJS_JVMSERVER_ MAX_HEAP	
				Max heap
(E0)	BITSTRING	8	SJS_JVMSERVER_ PEAK_HEAP	
				Peak heap
(E8)	BITSTRING	8	SJS_JVMSERVER_ OCCUPANCY	
				Heap Occupancy
Garbage collection related stats				
(F0)	CHARACTER	32	SJS_JVMSERVER_ GC_POLICY	
				GC Policy
Major collections				

Table 570. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(110)	FULLWORD	4	SJS_JVMSERVER_ MJR_GC_EVENTS	
				No. major GC collections
(114)	BITSTRING	4		Reserved
(118)	BITSTRING	8	SJS_JVMSERVER_ MJR_GC_CPU	
				Elapsed time in major GC
(120)	BITSTRING	8	SJS_JVMSERVER_ MJR_HEAP_FREED	
				Storage freed by GC
Minor collections (gencon only)				
(128)	FULLWORD	4	SJS_JVMSERVER_ MNR_GC_EVENTS	
				No. minor collections
(12C)	BITSTRING	4		
(130)	BITSTRING	8	SJS_JVMSERVER_ MNR_GC_CPU	
				Elapsed time in minor GC
(138)	BITSTRING	8	SJS_JVMSERVER_ MNR_HEAP_FREED	
				Storage freed by GC
(138)		0	SJSDS_END	"*"
(138)		0	SJSDS_LENGTH	"*-SJSDS_LEN" JVMSERVER record length
Constants that denote an SJ JVMSERVER stats record				
(138)	SIGNED	0	SJSIDR	"116" JVMSERVER resid stats id
(138)	BITSTRING	0	SJS_VERS	"X'01'" Record version number Change Agents
(138)	SIGNED	0	SJS_CSDAPI_ CHANGE	"0001" CSD API
(138)	SIGNED	0	SJS_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(138)	SIGNED	0	SJS_DREPAPI_ CHANGE	"0003" DREP API
(138)	SIGNED	0	SJS_CREATE_ CHANGE	"0004" EXEC CREATE SPI Install Agents
(138)	SIGNED	0	SJS_CSDAPI_ INSTALL	"0001" CSD API

Table 570. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(138)	SIGNED	0	SJS_CREATE_INSTALL	"0004" EXEC CREATE SPI
(138)	SIGNED	0	SJS_GRPLIST_INSTALL	
				"0005" GRPLIST
(138)	SIGNED	0	SJS_JVMSERVER_STATE_DISABLED	
				"01"
(138)	SIGNED	0	SJS_JVMSERVER_STATE_ENABLED	
				"02"
(138)	SIGNED	0	SJS_JVMSERVER_STATE_DISCARDING	
				"03"
(138)	SIGNED	0	SJS_JVMSERVER_STATE_DISABLING	
				"04"
(138)	SIGNED	0	SJS_JVMSERVER_STATE_ENABLING	
				"05"

SKA SKP subtask control area

```
CONTROL BLOCK NAME = DFHSKAPS
DESCRIPTIVE NAME  = CICS (SKP) Subtask Control Area.
 @BANNER_START 02
                          DFHSKAPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     Describe 'per-subtask' storage definition.
     DFHSKAPS belong to the General Purpose Subtasking facility
     of CICS.
     Each instance of this control block describes the state
     of one subtask.
LIFETIME =
     That of CICS static storage.
STORAGE CLASS = CICS static storage.
LOCATION =
     Located in the static storage for module DFHSKP.
INNER CONTROL BLOCKS = None.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
EXTERNAL REFERENCES = None.
   DATA AREAS = None.
   CONTROL BLOCKS = None.
   GLOBAL VARIABLES (Macro pass) = None.
                     SUBTASK CONTROL AREA
```

Table 571.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	176	DFHSKAPS	Subtask control area
SKASKENA contains the entry point of DFHSKE - the subtask executor. This field must remain at the start of DFHSKAPS. It is set by SKC and referenced by SIP on MVS, and by SKC on DOS.				
(0)	ADDRESS	4	SKASKENA	DFHSKENA entry point
SKASTGP contains the address of automatic storage to be used by SKE.				
(4)	ADDRESS	4	SKASTGP	add of subtask auto storage
SKAQUES contain the WQE queues for the subtask. SKAWORKQ contains WQEs as yet unprocessed by the subtask. SKAPROGQ contains WQEs currently being processed. SKAWAITQ contains WQEs that have issued a DFHSK CTYPE= WAIT macro.				
(8)	CHARACTER	12	SKAQUES	WQE queues for subtask
(8)	ADDRESS	4	SKAWORKQ	work
(C)	ADDRESS	4	SKAPROGQ	in_progress
(10)	ADDRESS	4	SKAWAITQ	waiting
SKAINWQE contains the address of the WQE currently being processed by SKE.				
(14)	ADDRESS	4	SKAINWQE	WQE being processed
SKAEWRK is the work ECB for the subtask. It is posted by SKM when it adds a WQE onto the work queue. When SKE has no work to do, it waits on this ECB.				
(18)	UNSIGNED	4	SKAEWRK	work ECB for subtask
SKASCOMP is the subtask completion ECB. It is waited on by SKC, and is posted by the operating system when the subtsk terminates.				
(1C)	CHARACTER	4	SKASCOMP	subtask completion ECB
SKADTECB is posted by SKC when either it DETACHes the subtask(MVS) or the subtask DETACHes itself(DOS). SKM, processing a DFHSK CTYPE=TERMINATE waits for subtasks to go away, before allowing DFHSTP to continue.				
(20)	UNSIGNED	4	SKADTECB	MVS DETACH issued for subtask
SKAINECB is an ECB that is posted by the subtask to indicate it has been attached. SKC waits for this to be posted before assuming the subtask is running.				
(24)	UNSIGNED	4	SKAINECB	ECB for sub initialisation
SKASRETC contains the completion code of the subtask and is used to indicate to SKC the type of completion.				
(28)	UNSIGNED	1	SKASRETC	subtask completion code

Table 571. (continued)

Offset Hex	Type	Len	Name (dim)	Description
SKAESFCD contains the completion code of an ESTAE or STXIT AB macro if not zero. SKC examines this field and outputs it in a message if the exit macro failed in the subtask.				
(29)	UNSIGNED	1	SKAESFCD	ESTAE/STXIT failure code
SKAFAILS is a count of failures that occur when SKE code is executing (not SK exit code). It is set and referenced by SKE.				
(2A)	HALFWORD	2	SKAFAIL	count of our code failures
SKAFLAG1 IS A FLAG BYTE. UPDATED BY DFHSKC ONLY				
(2C)	BIT(8)	1	SKAFLAG1	flags - TRUE means..
SKAFLAG1 HAS BEEN SPLIT OVER FLAG1,2 AND 3 TO OVERCOME MULTIPLE PROCESSORS UPDATING SHARED STORAGE CONCURRENTLY. Following 5 flags are spare.				
	1...		*	moved to FLAG2
deleted by APAR deleted by APAR				
	.1..		*	moved to FLAG2
deleted by APAR deleted by APAR deleted by APAR				
	..1.		*	moved to FLAG2
deleted by APAR deleted by APAR				
	...1		*	moved to FLAG3
--------------------------- deleted by APAR FOLLOWING FLAG IS SPARE. deleted by APAR				
	.... 1...		*	reserved
SKASINIT indicates that this subtask has been initialised and is running.				
	.... .1..		SKASINIT	subtask is initialised
deleted by APAR Following flag is spare.				
	.... ..1.		*	moved to FLAG2
SKASDEAD indicates the subtask has encountered an error preventing further execution. It is set by SKC and referenced by SKM.				
	1		SKASDEAD	subtask is dead
SKAFLAG2 IS A FLAG BYTE UPDATED BY DFHSKE ONLY				
(2D)	BIT(8)	1	SKAFLAG2	FLAGS - TRUE MEANS..
SKARGPSW indicates the presence of the regs and PSW at the time of failure in DFHSKAPS. It is set by the SKE exit code, and tested thereafter in SKE mainline code.				
	1...		SKARGPSW	regs&psw are in SKA

Table 571. (continued)

Offset Hex	Type	Len	Name (dim)	Description
SKAABCP indicates the presence of the operating system abend code in DFHSKAPS.				
	.1..		SKAABCP	abend code is in SKA
SKARUNNG is set by SKE on entry, and turned off on exit from SKE. SKC references this field to see if the subtask was running when it terminated.				
	..1.		SKARUNNG	subtask running
Following 3 flags are spare.				
	...1 11..		*	spare flags
SKAUSCOD indicates this subtask is currently executing an SK exit routine.				
	.... ..1.		SKAUSCOD	user code in progress
Following flag is spare.				
	1		*	spare flag
SKAFLAG3 IS A FLAG BYTE UPDATED BY DFHSKM ONLY				
(2E)	BIT(8)	1	SKAFLAG3	FLAGS - TRUE MEANS..
Following 3 flags are spare.				
	111.		*	spare flags
SKAQUIES is set by SKM to indicate that the subtask should terminate processing.				
	...1		SKAQUIES	quiesce requested
Following 4 flags are spare.				
	 1111		*	spare flags
SKAMWLST is a list of pointers used for an operating system multiple wait. It is used by DFHSKE. On MVS the list is terminated by the top bit in the last ECB ptr being on, and on DOS the byte after the last ECB ptr is non-zero ('FF'X).				
(30)	ADDRESS	4	SKAMWLST (4294967302:130370736)	multiple WAIT list
(30)	CHARACTER	1	SKAMFB	first byte of each address
	1...		SKAMEOL	first bit thereof
SKASAV13 is set by SKE on entry to point to the MVS save area.				
(48)	UNSIGNED	4	SKASAV13	ADDR(MVS save area)
SKAPICA is an MVS Program Interrupt Control Area used by SKE.				
(4C)	UNSIGNED	4	SKAPICA (4294967300:130363392)	subtask MVS PICA (ESPIE)
SKAABC contains the operating system abend code, and is used by SKE. An existance bit is in SKAFLAG1.				
(5C)	CHARACTER	4	SKAABC	operating system abend code

Table 571. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	SKAPSAV contains the registers at time of failure, and is used by SKE. An existance bit is in SKAFLAG1.			
(60)	CHARACTER	64	SKAPSAV	program check save area
(60)	FULLWORD	4	* (4294967312:130363392)	registers
	SKAPSW contains the PSW at time of failure, and is used by SKE. An existance bit is in SKAFLAG1.			
(A0)	CHARACTER	8	SKAPSW	EC mode program check PSW
	SKAINT contains extran interrupt information, and is used by SKE.			
(A8)	CHARACTER	8	SKAINT	interrupt information
(A8)	HALFWORD	2	SKAINTL	instruction length
(AA)	HALFWORD	2	SKAINTC	instruction code
(B0)	CHARACTER	0	SKAEND	end of DFHSKAPS

SKRQ Subtask management parameter block

Table 572.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSKRQ	,

```
FUNCTION =
        The Subtask Management Parameter Block (SKRQ) is the
        parameter list for the subtask management module.
```

Table 573.

Offset Hex	Type	Len	Name (dim)	Description
(0)	BITSTRING	1	SKRQTR	V*1 FUNCTION REQUEST BYTE
REQUEST TYPE VALUES				
(0)	BITSTRING	0	SKRQPER	"X'01'" PERFORM
(0)	BITSTRING	0	SKRQWAIT	"X'02'" WAIT
(0)	BITSTRING	0	SKRQRET	"X'03'" RETURN
(0)	BITSTRING	0	SKRQTER	"X'04'" TERMINATE
(0)	BITSTRING	0	SKRQDWE	"X'05'" DWE TO BE PROCESSED
(1)	BITSTRING	1	SKRQRM	V*2 REQUEST MODIFIER
BITS DEFINED FOR REQUEST MODIFIER				
(1)	BITSTRING	0	SKRQAY	"X'01'" AUTH=YES SPECIFIED
(1)	BITSTRING	0	SKRQCI	"X'02'" CLASS=I/O SPECIFIED

Table 573. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(1)	BITSTRING	0	SKRQSS	"X'04'" SAVAREA SPECIFIED
(1)	BITSTRING	0	SKRQSY	"X'08'" SYNC=YES SPECIFIED
(2)	BITSTRING	1		V*3 RESERVED
(3)	BITSTRING	1	SKRQRC	V*4 RESPONSE CODE
RESPONSE CODE VALUES				
	....		SKRQNORM	"0" NORMAL RESPONSE
(3)	SIGNED	0	SKRQUCF	"4" USER CODE FAILED
(3)	SIGNED	0	SKRQSCF	"8" SUBTASK CODE FAILED
(3)	SIGNED	0	SKRQUPR	"12" UNABLE TO PERFORM REQUEST
(3)	SIGNED	0	SKRQRNC	"16" REQUEST NEVER COMPLETED
(3)	SIGNED	0	SKRQINV	"20" INVALID REQUEST
(3)	SIGNED	0	SKRQIES	"24" INVALID ECB ADDRESS SUPPLIED
(3)	SIGNED	0	SKRQTWC	"28" USER TASK WAS CANCELLED
SUBTASK IDENTIFIERS				
(3)	SIGNED	0	SKSUBXX1	"1" GENERAL SUBTASK/ FALLBACK
(3)	SIGNED	0	SKSUBFS1	"2" FILE CONTROL/ SECURITY SUBTASK
(3)	SIGNED	0	SKSUBSP1	"3" SPOOLER SUBTASK NUMBER 1
(3)	SIGNED	0	SKSUBSP2	"4" SPOOLER SUBTASK NUMBER 2
(4)	ADDRESS	4	SKRQRTN	ADDRESS OF ROUTINE TO EXECUTE
(8)	FULLWORD	4	SKRQPARM	ADDRESS OF PARM FIELD
(C)	ADDRESS	4	SKRQECBA	ADDRESS OF ECB
(10)	ADDRESS	4	SKRQTACB	ADDRESS OF TACB SLOT
(14)	ADDRESS	4	SKRQSUBI	ADDRESS OF SUBTASK ID FIELD

Table 573. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	ADDRESS	4	SKRQPRTY	ADDRESS OF PRIORITY HALFWORD
(18)		0	SKRQSIZE	"*-DFHSKRQ" SIZE IN BYTES

SKW SKP work queue element

```
CONTROL BLOCK NAME = DFHSKWPS
DESCRIPTIVE NAME  = CICS (SKP) Work Queue Element (WQE)
 @BANNER_START 02
                          DFHSKWPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = PLS structure describing WQE.
            This structure is used by the CICS General Purpose
            Subtasking mechanism.
            Each instance of this control block represents a piece
            of work to be performed (usually by a subtask).
            One instance of the WQE is created per DFHSK PERFORM
            macro invocation.
LIFETIME = Space for WQEs is allocated in DFHSKP static storage.
      Further WQEs as necessary are obtained during CICS execution
      The WQEs are freed at CICS termination.
STORAGE CLASS =
      Static initially, and subsequent WQEs are obtained in SHARED
      storage.
LOCATION =
      WQEs reside on queues controlled by the Subtask Manager(SKM)
      and the subtask executor(SKE). The queues are anchored from
      static storage (nb CICS STATIC STORAGE) belonging to SKP.
INNER CONTROL BLOCKS =
      None.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
-----------------------------------------------------------------
EXTERNAL REFERENCES = None.
  DATA AREAS = None.
  CONTROL BLOCKS = None.
  GLOBAL VARIABLES (Macro pass) = None.
-----------------------------------------------------------------
                  WORK QUEUE ELEMENT
```

Table 574.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	100	DFHSKWPS	Work Queue Element (WQE)
SKWCHAIN - contains the address of the next WQE in chain				
(0)	ADDRESS	4	SKWCHAIN	chain to next WQE
SKWUPARM - contains the contents of the PARM field specified in the DFHSK CTYPE=PERFORM macro.				
(4)	ADDRESS	4	SKWUPARM	PARM specified on SK wait

Table 574. (continued)

Offset Hex	Type	Len	Name (dim)	Description
SKWUCADD - contains the address of SK EXIT routine - the label specified in the ROUTINE keyword on the SK CTYPE=PERFORM macro.				
(8)	ADDRESS	4	SKWUCADD	user code address to execute
SKWSREGS - used by to save the registers before branching to the SK EXIT routine by SKM (synchronous) and SKE (asynchronous)				
(C)	CHARACTER	64	SKWSREGS	SKM/SKE register save area
SKWCECB - this is the ECB used to communicate between SKM and SKE. SKM waits on it when the WQE has been put onto a subtask work queue. SKE posts it when the WQE has been processed.				
(4C)	UNSIGNED	4	SKWCECB	CICS work complete ECB
SKWOECB - this contains the address of the ECB specified on the SK CTYPE=WAIT macro issued by the SK EXIT routine.				
(50)	ADDRESS	4	SKWOECBA	ptr to ECB for SK WAIT
SKWOABC - contains the operating system abend code when the abend exit was entered in SKE.				
(54)	UNSIGNED	4	SKWOABC	operating system abend code
SKWOABSP - contains the address of a piece of operating system storage obtained by SKE to hold info about a program check or abend. Its contents are copied to a TACB by SKM.				
(58)	ADDRESS	4	SKWOABSP	ptr to os abend storage
SKWESAVE - contains the address of the save area specified by the SK EXIT routine when it issued an SK CTYPE=WAIT macro.				
(5C)	ADDRESS	4	SKWESAVE	A(save area for sk exit regs)
SKWFLAGS - flag byte				
(60)	BIT(8)	1	SKWFLAGS	flags - TRUE means..
SKWTCANC - set by SKM when the CICS task it is running on behalf of has been purged. SKE ceases to process the WQE when it notices this set.				
	1...		SKWTCANC	CICS task has been cancelled
SKWFABST - set by SKM to indicate that the storage containing regs and PSW at time of failure can be freed by SKE when it next sees the WQE				
	.1..		SKWFABST	os abend stg requires freeing
SKWWAIT - set by SKE to indicate this the SK EXIT has requested SKE waits on an ECB.				
	..1.		SKWWAIT	WQE is on WAIT queue

Table 574. (continued)

Offset Hex	Type	Len	Name (dim)	Description
SKWTACBE - indicates presence of operating storage containing regs and PSW at time of error.				
	...1		SKWTACBE	TACB is chained (in os stg)
SKWRC - return code from execution of WQE by SKE to SKM				
(61)	UNSIGNED	1	SKWRC	return code
(62)	CHARACTER	2	*	fullword alignment

SLDC System logical device code table

```
CONTROL BLOCK NAME = DFHSLDC
DESCRIPTIVE NAME  = CICS System Logical Device Code Table.
   @BANNER_START 02
                      DFHSLDC
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
The Logical Device Code (LDC) structure is the mechanism used by
CICS to identify the output message destination in an SNA
environment. The SLDC table is generated by the DFHTCT TYPE=LDC
macro instruction. It contains an entry for each LDC mnemonic
used by the system. The logical page size, page disposition and
terminal type are used by BMS to control the format of the output
message.
```

Table 575.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSLDC	
(0)	CHARACTER	2	SLDCMN	LDC MNEMONIC
(2)	BITSTRING	1	SLDCCD	LOGICAL DEVICE CODE
(3)	BITSTRING	1	SLDCTM	TERMINAL MODEL (MEDIA)...
3601				
(3)	BITSTRING	0	SLD3604	"X'11'" KEYBOARD DISPLAY
(3)	BITSTRING	0	SLD3610	"X'17'" DOCUMENT PRINTER
(3)	BITSTRING	0	SLD3612	"X'19'" PASSBOOK & DOCUMENT PRINTER
(3)	BITSTRING	0	SLD3618	"X'20'" ADMINISTRATIVE LINE PRINTER
(3)	BITSTRING	0	SLD3618P	"X'21'" LINE PRINTER PRIMARY CARRIAGE

Table 575. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	BITSTRING	0	SLD3618S	"X'22'" LINE PRINTER SECONDARY CARRIAGE
(3)	BITSTRING	0	SLD3618B	"X'23'" LINE PRINTER BOTH CARRIAGES
	....		SLDCBLCO	"X'00'" CONSOLE (DEFAULT IF NO LDC)
(3)	BITSTRING	0	SLDCBLD1	"X'10'" DISK 1
(3)	BITSTRING	0	SLDCBLD2	"X'11'" DISK 2
(3)	BITSTRING	0	SLDCBLR1	"X'20'" READER (INPUT ONLY)
(3)	BITSTRING	0	SLDCBLH1	"X'20'" PUNCH (OUTPUT ONLY)
(3)	BITSTRING	0	SLDCBLP1	"X'30'" PRINTER (OUTPUT ONLY)
(3)	BITSTRING	0	SLDCWPM1	"X'80'" WORD PROCESSING MEDIUM 1
(3)	BITSTRING	0	SLDCWPM2	"X'90'" WORD PROCESSING MEDIUM 2
(3)	BITSTRING	0	SLDCWPM3	"X'A0'" WORD PROCESSING MEDIUM 3
(3)	BITSTRING	0	SLDCWPM4	"X'C0'" WORD PROCESSING MEDIUM 4
(4)	ADDRESS	1	SLDCROW	NUMBER OF DISPLAY ROWS
(5)	ADDRESS	1	SLDCCLM	NUMBER OF DISPLAY COLUMNS
(6)	BITSTRING	1	SLDCSTAT	LDC STATUS BYTE
(6)	BITSTRING	0	SLDCSPGP	"X'80'" PAGE STATUS
(7)	CHARACTER	8	SLDCDSN	DESTINATION NAME
(F)	BITSTRING	1	SLDCDSP	DATA STREAM PROFILE ...
	....		SLDCPDEF	"X'00'" DEFAULT PROFILE
(F)	BITSTRING	0	SLDCPBS	"X'01'" BASE PROFILE
(F)	BITSTRING	0	SLDCPJOB	"X'03'" JOB PROFILE
(F)	BITSTRING	0	SLDCPRAW	"X'04'" WP RAW PROFILE
(F)	BITSTRING	0	SLDCPOI1	"X'06'" OII LEVEL 1

Table 575. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F)	BITSTRING	0	SLDCPOI2	"X'07'" OII LEVEL 2
(F)	BITSTRING	0	SLDCPOI3	"X'08'" OII LEVEL 3
Other values are reserved				
(F)		0	SLDCEND	"*" END OF SYSTEM LDC ENTRY
(F)		0	SLDCLEN	"*-DFHSLDC" LENGTH OF SYSTEM LDC ENTRY

SMD domain subpool storage statistics

```
          CONTROL BLOCK NAME = DFHSMDDS
          DESCRIPTIVE NAME  = CICS Storage statistics for domain
      subpools.
              @BANNER_START 02

                              DFHSMDDS
          Licensed Materials - Property of IBM
          "Restricted Materials of IBM"
          5655-S97
          @BANNER_END
      FUNCTION = This DSECT describes the Domain subpool statistics
                  provided by the storage manager.
                  It is provided for use in users monitoring applications
                  to map the statistics returned via the statistics exit
                  or SMF.
                  An instance of this data area may represent the
                  statistics for any one of the domain subpools.
                  There is a single instance of this data block.
      LIFETIME = This data block is created by the storage manager to
                  hold domain subpool statistics. It is released when the
                  request for statistics has been satisfied.
      LOCATION = Caller is passed a pointer to the head of the block.
      INNER CONTROL BLOCKS = None
      NOTES :
          DEPENDENCIES = S/370
          RESTRICTIONS = none
          MODULE TYPE = Control block definition
      --------------------------------------------------------------------
      EXTERNAL REFERENCES = None
          DATA AREAS = None
          CONTROL BLOCKS From storage manager domain.
          GLOBAL VARIABLES (Macro pass) = None
      --------------------------------------------------------------------
```

Table 576.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSMDDS	Domain subpool statistics
(0)	FULLWORD	4	(0)	Fullword allignment
(0)	HALFWORD	2	SMDLEN	Length of data area
(0)	SIGNED	0	SMDIDE	"19" Domain subpool id mask
(2)	ADDRESS	2	SMDID	Domain subpool stats id

Table 576. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	BITSTRING	0	SMDVERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	SMDDVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	SMDSPN	Subpool name
(10)	CHARACTER	8	SMDDSANAME	DSA name
(18)	BITSTRING	1	SMDETYPE	Element type (fixed/variable?)
(19)	CHARACTER	3		Reserved
(1C)	FULLWORD	4	SMDFLEN	Length (if fixed)
(20)	BITSTRING	1	SMDELCHN	Element chaining (yes/no?)
(21)	CHARACTER	3		Reserved
(24)	FULLWORD	4	SMDBNDRY	Boundary
(28)	BITSTRING	1	SMDLOCN	Above/below 16 meg line
(29)	BITSTRING	1	SMDACCESS	Access
(2A)	BITSTRING	1	SMDDSAINDEX	DSA index
(2B)	CHARACTER	1		Reserved
(2C)	FULLWORD	4	SMDIFREE	Initial free value
(30)	FULLWORD	4	SMDGMREQ	Number of Getmain reqs
(34)	FULLWORD	4	SMDFMREQ	Number of Freemain reqs
(38)	FULLWORD	4	SMDCES	Sum of all element lengths
(3C)	FULLWORD	4	SMDCPS	Current page storage
(40)	FULLWORD	4	SMDCELEM	Current number of elements
(44)	FULLWORD	4	SMDHWMPS	High Water Mark Page Storage
(48)	FULLWORD	4		Reserved
(4C)	FULLWORD	4		Reserved
(4C)		0	SMDEND	"*"
(4C)		0	SMDCLEN	"*-SMDLEN" Length of DSECT
Equates for testing SMDETYPE.				
(4C)	SIGNED	0	SMDFIXED	"1"
(4C)	SIGNED	0	SMDVARIABLE	"2"
Equates for testing SMDLOCN.				
(4C)	SIGNED	0	SMDBELOW	"1"
(4C)	SIGNED	0	SMDABOVE	"2"

Table 576. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	SIGNED	0	SMDABOVEBAR	"3"
Equates for testing SMDACCESS.				
(4C)	SIGNED	0	SMDCICS	"1"
(4C)	SIGNED	0	SMDUSER	"2"
(4C)	SIGNED	0	SMDREADONLY	"3"
(4C)	SIGNED	0	SMDTRUSTED	"4"
Equates for testing SMDDSAINDEX.				
(4C)	SIGNED	0	SMDCDSA	"1"
(4C)	SIGNED	0	SMDSDSA	"3"
(4C)	SIGNED	0	SMDRDSA	"4"
(4C)	SIGNED	0	SMDECDSA	"9"
(4C)	SIGNED	0	SMDESDSA	"11"
(4C)	SIGNED	0	SMDERDSA	"12"
(4C)	SIGNED	0	SMDETDSA	"13"
(4C)	SIGNED	0	SMDGCDSA	"17"
(4C)	SIGNED	0	SMDGSDSA	"19"

SMF SMF header and SMF product section

```
CONTROL BLOCK NAME = DFHSMFDS
DESCRIPTIVE NAME  = CICS SMF Header and SMF Product Section
        DSECT for the SMF 110 records written by Journaling,
        Monitoring, and Statistics.
    @BANNER_START 02
                        DFHSMFDS
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION =
        This DSECT describes the various formats of the SMF Header
        and SMF Product Section for the SMF 110 records written
        by CICS to SMF. These SMF records are created by Journaling,
        Monitoring, and Statistics and read by the CICS monitoring
        DFHSTUP.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
INNER CONTROL BLOCKS = None
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
  -------------------------------------------------------------------
  EXTERNAL REFERENCES = None
      DATA AREAS = None
      CONTROL BLOCKS = None
      GLOBAL VARIABLES (Macro pass) = None
  -------------------------------------------------------------------
                                    time & user ID in SMF
```

Table 577.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSMFDS	
(0)	BITSTRING	2	SMFLEN	Record length
(2)	BITSTRING	2	SMFSEG	Segment descriptor
(4)	BITSTRING	1	SMFFLG	Operating system indicator
(4)	BITSTRING	0	SMFESA	"X'C0'" MVS/ESA fixed indicators
(5)	BITSTRING	1	SMFRTY	Record type 110 for CICS
(6)	BITSTRING	4	SMFTME	Time record moved
(A)	BITSTRING	4	SMFDTE	Date record moved (0CYYDDD+)
(E)	BITSTRING	4	SMFSID	System identification
(12)	CHARACTER	4	SMFSSI	Sub-system identification
(16)	BITSTRING	2	SMFSTY	Record subtype
	....		SMFJCSTY	"X'0000'" - X'0000' For journaling
(16)	BITSTRING	0	SMFMNSTY	"X'0001'" - X'0001' For monitoring
(16)	BITSTRING	0	SMFSTSTY	"X'0002'" - X'0002' For statistics
(16)	BITSTRING	0	SMFXQSTY	"X'0003'" - X'0003' For TS datasharing
(16)	BITSTRING	0	SMFCFSTY	"X'0004'" - X'0004' For CFDT server stats
(16)	BITSTRING	0	SMFNCSTY	"X'0005'" - X'0005' For named ctr server
(18)	BITSTRING	2	SMFTRN	Number of triplets in record
(1A)	BITSTRING	2		Reserved
(1C)	BITSTRING	4	SMFAPS	Offset to CICS product section
(20)	BITSTRING	2	SMFLPS	Length of CICS product section
(22)	BITSTRING	2	SMFNPS	Number of CICS product sections
(24)	BITSTRING	4	SMFASS	Offset to CICS data section
(28)	BITSTRING	2	SMFASL	Length of CICS data section
(2A)	BITSTRING	2	SMFASN	Number of CICS data sections

```
        End of SMF-Header.
        Start of JC SMF Product-section.
```

Table 577. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	BITSTRING	2	SMFPSRVN	Record version format x'0vrm' v = version r = release m = modification
(2E)	CHARACTER	8	SMFPSPRN	Product name (Generic APPLID)
(36)	CHARACTER	8	SMFPSSPN	Specific APPLID
(3E)	BITSTRING	2	SMFPSMFL	Record maintenance indicator
(40)	BITSTRING	2		Reserved
The JC SMF Product-section fields SMFPSRSN, SMFPSJID, SMFPSBKN, SMFPSLBW and SMFPSBAL apply to CICS/ESA Version 4.1 and previous CICS/ESA Version 3.x releases. The JC SMF Product-section field SMFPSJNM is applicable from CICS/ESA Version 5.1.				
(42)		4	SMFPSRSN	Record-number within Journal
(46)	BITSTRING	1	SMFPSJID	Journal identifier
(47)		3	SMFPSBKN	Record-number within Data Set
(4A)	BITSTRING	4	SMFPSLBW	Last-record address (Format is TTR0 under MVS)
(4E)	ADDRESS	2	SMFPSBAL	Track balance in BYTES
(50)	BITSTRING	38		Reserved
(76)	CHARACTER	8	SMFPSJNM	Journal Name
(7E)	CHARACTER	8	SMFPSJBN	Jobname
(86)	BITSTRING	4	SMFPSRSD	Job date
(8A)	BITSTRING	4	SMFPSRST	Job time
(8E)	CHARACTER	8	SMFPSUIF	User identification
(96)	CHARACTER	8	SMFPSPDN	Operating system product level
(96)		0	SMFJCIDA	"*"
End of JC SMF Product-section. Start of MN SMF Product-section.				
(2C)	BITSTRING	2	SMFMNRVN	Record version format x'0vrm' v = version r = release m = modification
(2E)	CHARACTER	8	SMFMNPRN	Product name (Generic APPLID)
(36)	CHARACTER	8	SMFMNSPN	Specific APPLID
(3E)	BITSTRING	2	SMFMNMFL	Record maintenance indicator
(40)	BITSTRING	2		Reserved
(42)	BITSTRING	2	SMFMNCL	Class of data

Table 577. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	BITSTRING	4	SMFMNDCA	Offset to CICS field connectors
(48)	BITSTRING	2	SMFMNDCL	Length of each CICS field connector
(4A)	BITSTRING	2	SMFMNDCN	Number of CICS field connectors
(4C)	BITSTRING	4	SMFMNDRA	Offset to first CICS Data record
(50)	BITSTRING	2	SMFMNDRL	Length of each CICS Data record
(52)	BITSTRING	2	SMFMNDRN	Number of CICS Data records
(54)	BITSTRING	18		Reserved
(66)	BITSTRING	2	SMFMNCRL	Compressed record length
(68)	BITSTRING	4	SMFMNTAD	Local TOD clock adjustment
(6C)	BITSTRING	8	SMFMNLSO	Leap Second Offset TOD format
(74)	BITSTRING	8	SMFMNDTO	Local Time/Date Offset
(7C)	BITSTRING	1		Reserved
(7D)	BITSTRING	1	SMFMNOPN	Monitoring Options
(7D)	BITSTRING	0	SMFMNAPL	"X'80'" ... APPLNAME=YES
(7D)	BITSTRING	0	SMFMNRMI	"X'40'" ... RMI=YES
(7D)	BITSTRING	0	SMFMNCMP	"X'20'" ... COMPRESS=YES
(7E)	CHARACTER	8	SMFMNJBN	Jobname
(86)	BITSTRING	4	SMFMNRSD	Job date
(8A)	BITSTRING	4	SMFMNRST	Job time
(8E)	CHARACTER	8	SMFMNUIF	User identification
(96)	CHARACTER	8	SMFMNPDN	Operating system product level
(96)		0	SMFMNIDA	"*"
End of MN SMF Product-section. Start of ST SMF Product-section. Statistics produced by the TS datasharing server (XQ), CFDT server (CF) and named counter server (NC) use the same layout, but the server type (DFHXQ, DFHCF or DFHNC) and pool name are stored instead of the APPLIDs.				
(2C)	BITSTRING	2	SMFSTRVN	Record version format x'0vrm' v = version r = release m = modification
(2E)	CHARACTER	8	SMFSTPRN	Product name (Generic APPLID)

Table 577. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(36)	CHARACTER	8	SMFSTSPN	Specific APPLID
(3E)	BITSTRING	2	SMFSTMFL	Record maintenance indicator
(40)	BITSTRING	2		Reserved
(42)	BITSTRING	2		Reserved
(44)	BITSTRING	4	SMFSTDTK	Domain token
(48)	CHARACTER	2	SMFSTDID	Domain ID
(4A)	CHARACTER	3	SMFSTRQT	USS/EOD/REQ/ INT/RRT Stats type
(4D)	CHARACTER	3	SMFSTICD	YES if incomplete data recorded
(50)	CHARACTER	8	SMFSTDAT	Collection date MMDDYYYY
(58)	CHARACTER	6	SMFSTCLT	Collection time HHMMSS
(5E)	CHARACTER	6	SMFSTINT	Interval HHMMSS
(64)	BITSTRING	4	SMFSTINO	Interval NUMBER
(68)	BITSTRING	8	SMFSTRTK	Request token
(70)	CHARACTER	6	SMFSTLRT	Last reset time HHMMSS
(76)	BITSTRING	8	SMFSTCST	CICS start time STCK
(7E)	CHARACTER	8	SMFSTJBN	Jobname
(86)	BITSTRING	4	SMFSTRSD	Job date
(8A)	BITSTRING	4	SMFSTRST	Job time
(8E)	CHARACTER	8	SMFSTUIF	User identification
(96)	CHARACTER	8	SMFSTPDN	Operating system product level
(96)		0	SMFSTIDA	"*"
	End of ST SMF Product-section.			

SMS pagepool storage statistics

```
CONTROL BLOCK NAME = DFHSMSDS
DESCRIPTIVE NAME  = CICS Storage statistics for Pagepools and
                                  subspaces.
    @BANNER_START 02
                       DFHSMSDS
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION = This DSECT describes the DSA statistics, Storage Manager
           state data and the subspace statistics provided by the
           Storage Manager.
           It is provided for use in users monitoring applications
           to map the statistics returned via the statistics exit
           or SMF.
           An instance of this data area may represent the
           statistics for any of the DSAs.
```

```
                   LIFETIME = This data block is created by the storage manager to
                              hold pagepool statistics, state data and the subspace
                              statistics. It is released when the request for
                              statistics has been satisfied.
                   LOCATION = Caller is passed a pointer to the head of the block.
                   INNER CONTROL BLOCKS = None
                   NOTES :
                       DEPENDENCIES = S/370
                       RESTRICTIONS = none
                       MODULE TYPE = Control block definition
                  --------------------------------------------------------------------
                   EXTERNAL REFERENCES = None
                       DATA AREAS = None
                       CONTROL BLOCKS From storage manager domain.
                       GLOBAL VARIABLES (Macro pass) = None
                  --------------------------------------------------------------------
```

Table 578.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSMSDS	Storage statistics header
(0)	FULLWORD	4	(0)	Fullword allignment
(0)	HALFWORD	2	SMSLEN	Length of data area
(0)	SIGNED	0	SMSIDE	"29" DSA storage stats id mask
(2)	ADDRESS	2	SMSID	DSA storage stats id
(2)	BITSTRING	0	SMSVERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	SMSDVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(5)		0	SMSHEND	"*" End of Statistics Header
(5)		0	SMSHLEN	"*-SMSLEN" Length of Statistics HEader

```
                   SMSGLEN includes the length of the (standard statistics record hdr
                   of 8 bytes + SMSHDR + SMSSTATS) effectively giving the offset to
                   the first entry in the SMSBODY array.
```

Table 579.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SMSGLOBAL	
(0)	FULLWORD	4	SMSHDR (0)	Storage Mgr Global Stats Header
(0)	HALFWORD	2	SMSGBLLEN	Global stats length
(2)	HALFWORD	2	SMSNPAGP	Number of Pagepools
(4)	BITSTRING	1	SMSSTGPROT	State of STGPROT
(5)	BITSTRING	1	SMSRENTPGM	State of RENTPGM
(6)	BITSTRING	1	SMSTRANISO	State of TRANISO
(7)	BITSTRING	1	SMSMEMLIMITSRC	MEMLIMIT Source
Storage Manager Stats fields begin here.				

Table 579. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	FULLWORD	4	SMSSTATS (0)	Storage Mgr Global Stats
(8)	FULLWORD	4	SMSUSSCUR	Current number of unique subspace users
(C)	FULLWORD	4	SMSUSSCUM	Cumulative number of unique subspace users
(10)	FULLWORD	4	SMSUSSHWM	HWM of unqiue subspace users
(14)	FULLWORD	4	SMSCSSCUR	Current number of common subspace users
(18)	FULLWORD	4	SMSCSSCUM	Cumulative number of common subspace users
(1C)	FULLWORD	4	SMSCSSHWM	HWM of common subspace users
(20)	FULLWORD	4	SMSDSALIMIT	Current DSA limit
(24)	FULLWORD	4	SMSEDSALIMIT	Current EDSA limit
(28)	FULLWORD	4	SMSDSATOTAL	Current DSA total
(2C)	FULLWORD	4	SMSEDSATOTAL	Current EDSA total
(30)	FULLWORD	4	SMSHWMDSATOTAL	HWM DSA total
(34)	FULLWORD	4	SMSHWMEDSATOTAL	HWM EDSA total
(38)	CHARACTER	8	SMSTIMEWAITMVS	total time waiting for MVS storage
(40)	FULLWORD	4	SMSMVSSTGREQWAITS	Number of requests for MVS storage causing wait
(44)	FULLWORD	4		Reserved
(48)	FULLWORD	4		Reserved
(4C)	FULLWORD	4		Reserved
(50)	BITSTRING	8	SMSMEMLIMIT	MEMLIMIT Size
(58)	BITSTRING	8	SMSGETSTORSIZE	GETSTOR request size
(60)	BITSTRING	8	SMSASACTIVE	Current Address Space addres'ble
(68)	BITSTRING	8	SMSHWMASACTIVE	HWM Address Space addressable
(70)	BITSTRING	8	SMSGDSAACTIVE	Current GDSA active
(78)	BITSTRING	8	SMSHWMGDSAACTIVE	HWM GDSA active
(80)	BITSTRING	8	SMSGDSAALLOC	Current GDSA allocated
(88)	BITSTRING	8	SMSHWMGDSAALLOC	HWM GDSA allocated
(90)	FULLWORD	4		Reserved

Table 579. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(94)	FULLWORD	4		Reserved
(98)	BITSTRING	8		Reserved
(A0)	BITSTRING	8		Reserved
(A8)	BITSTRING	8		Reserved
(B0)	BITSTRING	8	SMSLVABYTES	Bytes Allocated to Private Memory Objects
(B8)	BITSTRING	8	SMSLVHBYTES	Bytes Hidden within Private Memory Objects
(C0)	BITSTRING	8	SMSLVGBYTES	HWM Bytes Usable within Private Memory Objects
(C8)	BITSTRING	8	SMSLVNMEMOBJ	Number of Private Memory Objects
(D0)	BITSTRING	8		Reserved
(D8)	BITSTRING	8	SMSFROMGUARDFAIL	Number of FROMGUARD Failures
(E0)	BITSTRING	8	SMSFROMGUARDFAILSIZE	FROMGUARD Failure Size
(E8)	BITSTRING	8		Reserved
(F0)	BITSTRING	8	SMSLVSHRBYTES	Shared Bytes from Large Memory Objects
(F8)	BITSTRING	8	SMSLVSHRGBYTES	HWM Shared Bytes within Large Memory Objects
(100)	BITSTRING	8	SMSLVSHRNMEMOBJ	Number of Shared Memory Objects
(108)	BITSTRING	8		Reserved
(110)	BITSTRING	8	SMSHVAUXSLOTS	Auxiliary slots to back 64-bit Private Memory Objects
(118)	BITSTRING	8	SMSHVGAUXSLOTS	HWM Auxiliary slots to back 64-bit Private Memory Objects
(120)	BITSTRING	8	SMSHVPAGESINREAL	Real Frames to back 64-bit Private Memory Objects
(128)	BITSTRING	8	SMSHVGPAGESINREAL	HWM Real Frames to back 64-bit Private Memory Objects
(130)	BITSTRING	8	SMSLARGEMEMOBJ	Number of Large Memory Objects
(138)	BITSTRING	8	SMSLARGEPAGESINREAL	

Table 579. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Number of Large Pages Backed in Real Storage
(140)	BITSTRING	8		Reserved
(148)	BITSTRING	8		Reserved
(150)	BITSTRING	8		Reserved
(158)	BITSTRING	8		Reserved
(158)		0	SMSGEND	"*" The end.
(158)		0	SMSGLEN	"*-SMSGLOBAL" Length of global area

Table 580.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SMSBODY	Storage statistics body
(0)	CHARACTER	8	SMSDSANAME	DSA name
(8)	BITSTRING	1	SMSLOCN	Location (below/above/ abovebar)
(9)	BITSTRING	1	SMSACCESS	Access
(A)	BITSTRING	1	SMSDSAINDEX	DSA index
(B)	CHARACTER	1		Reserved
(C)	FULLWORD	4	SMSDSASZ	Current size of DSA
(10)	FULLWORD	4	SMSHWMDSASZ	HWM Size of DSA
(14)	FULLWORD	4	SMSCSIZE	Current cushion size
(18)	FULLWORD	4	SMSGMREQ	Number of Getmain reqs
(1C)	FULLWORD	4	SMSFMREQ	Number of Freemain reqs
(20)	FULLWORD	4	SMSASR	Number of Add-subpool reqs
(24)	FULLWORD	4	SMSDSR	Number of Del-subpool reqs
(28)	FULLWORD	4	SMSCRISS	Cond reqs returning insufficient stg
(2C)	FULLWORD	4	SMSUCSS	Uncond reqs suspended
(30)	FULLWORD	4	SMSCSS	Curr reqs susp for storage
(34)	FULLWORD	4	SMSHWMSS	HWM reqs susp for storage
(38)	FULLWORD	4	SMSPWWS	Number of tasks purged, waiting storage

Table 580. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	FULLWORD	4	SMSCREL	Number of cushion releases
(40)	FULLWORD	4	SMSSOS	Times SOS occurred
(44)	FULLWORD	4		Reserved
(48)	DBL WORD	8	SMSTSOS	Total time SOS
(50)	FULLWORD	4	SMSCSUBP	Current Number of subpools
(54)	FULLWORD	4	SMSFSTG	Free storage (inc cushion)
(58)	FULLWORD	4	SMSHWMFSTG	HWM free storage (inc cushion)
(5C)	FULLWORD	4	SMSLWMFSTG	LWM free storage (inc cushion)
(60)	FULLWORD	4	SMSLFA	Largest free area in DSA
(64)	FULLWORD	4	SMSSV	Number of of storage violations
(68)	FULLWORD	4	SMSEXTS	Current number of extents
(6C)	FULLWORD	4	SMSEXTSA	Number of extents added
(70)	FULLWORD	4	SMSEXTSR	Number of extents released
(74)	FULLWORD	4		Reserved
(78)	FULLWORD	4		Reserved
(7C)	FULLWORD	4		Reserved
(7C)		0	SMSBEND	"*"
(7C)		0	SMSBLEN	"*-SMSBODY" Length of Body
Equates for testing SMSSTGPROT.				
	....		SMSSTGPROTNA	"0" STGPROT not active
(7C)	SIGNED	0	SMSSTGPROTA	"1" STGPROT active
Equates for testing SMSRENTPGM.				
	....		SMSRENTPGMNP	"0" RENTPGM noprotect
(7C)	SIGNED	0	SMSRENTPGMP	"1" RENTPGM protect
Equates for testing SMSSTRANISO.				
	....		SMSTRANISONA	"0" TRANISO not active
(7C)	SIGNED	0	SMSTRANISOA	"1" TRANISO active
Equates for testing SMSMEMLIMITSRC				
(7C)	SIGNED	0	SMSMEMLSRCSMF	"1" MEMLIMIT Set by SMFPRMxx

Table 580. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7C)	SIGNED	0	SMSMEMLSRCJCL	"2" MEMLIMIT Set by JCL
(7C)	SIGNED	0	SMSMEMLSRCREG	"3" MEMLIMIT Set by JCL Region
(7C)	SIGNED	0	SMSMEMLSRCUSI	"4" MEMLIMIT Set by IEFUSI Exit
(7C)	SIGNED	0	SMSMEMLSRCAUTH	"9" MEMLIMIT Set by AUTHORISED CODE
(7C)	SIGNED	0	SMSMEMLSRCURG	"10" MEMLIMIT Set by IEFUSI REGION
Equates for testing SMSLOCN				
(7C)	SIGNED	0	SMSBELOW	"1"
(7C)	SIGNED	0	SMSABOVE	"2"
(7C)	SIGNED	0	SMSABOVEBAR	"3"
Equates for testing SMSACCESS				
(7C)	SIGNED	0	SMSCICS	"1"
(7C)	SIGNED	0	SMSUSER	"2"
(7C)	SIGNED	0	SMSREADONLY	"3"
(7C)	SIGNED	0	SMSTRUSTED	"4"
Equates for testing SMSDSAINDEX				
(7C)	SIGNED	0	SMSCDSA	"1"
(7C)	SIGNED	0	SMSUDSA	"2"
(7C)	SIGNED	0	SMSSDSA	"3"
(7C)	SIGNED	0	SMSRDSA	"4"
(7C)	SIGNED	0	SMSECDSA	"9"
(7C)	SIGNED	0	SMSEUDSA	"10"
(7C)	SIGNED	0	SMSESDSA	"11"
(7C)	SIGNED	0	SMSERDSA	"12"
(7C)	SIGNED	0	SMSETDSA	"13"
(7C)	SIGNED	0	SMSGCDSA	"17"

SMT storage subpool storage statistics

```
CONTROL BLOCK NAME = DFHSMTDS
DESCRIPTIVE NAME  = CICS Storage statistics for task subpools.
   @BANNER_START 02

                       DFHSMTDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = This DSECT describes the task subpool statistics
           provided by the storage manager.
           It is provided for use in users monitoring applications
           to map the statistics returned via the statistics exit
           or SMF.
```

An instance of this data area may represent the
statistics for either the task subpools above the 16 meg
line or those below the 16 meg line.
There is a single instance of this data block.
LIFETIME = This data block is created by the storage manager to
hold task subpool statistics. It is released when the
request for statistics has been satisfied.
LOCATION = Caller is passed a pointer to the head of the block.
INNER CONTROL BLOCKS = None
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Control block definition

EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS From storage manager domain.
    GLOBAL VARIABLES (Macro pass) = None

Table 581.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSMTDS	Task subpool statistics header
(0)	FULLWORD	4	(0)	Fullword allignment
(0)	HALFWORD	2	SMTLEN	Length of data area
(0)	SIGNED	0	SMTIDE	"20" Task subpool id mask
(2)	ADDRESS	2	SMTID	Task subpool stats id
(2)	BITSTRING	0	SMTVERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	SMTDVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(5)		0	SMTHEND	"*" End of header
(5)		0	SMTHLEN	"*-SMTLEN" Header length

Table 582.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SMTGLOBAL	Global statistics
(0)	HALFWORD	2	SMTNTASK	No. of task subpools
(2)	HALFWORD	2		reserved
(2)		0	SMTGEND	"*" The end
(2)		0	SMTGLEN	"*-SMTGLOBAL" length of global area

Table 583.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SMTBODY	Task subpool statistics body
(0)	CHARACTER	8	SMTDSANAME	DSA name

Table 583. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	BITSTRING	1	SMTLOCN	Location - Above/below the line
(9)	BITSTRING	1	SMTACCESS	Access - CICS/USER
(A)	BITSTRING	1	SMTDSAINDEX	DSA index
(B)	CHARACTER	1		Reserved
(C)	FULLWORD	4	SMTGMREQ	No. Getmain reqs
(10)	FULLWORD	4	SMTFMREQ	No. Freemain reqs
(14)	FULLWORD	4	SMTCES	Sum of all element lengths
(18)	FULLWORD	4	SMTCPS	Current page storage
(1C)	FULLWORD	4	SMTCNE	Current No. elements
(20)	FULLWORD	4	SMTHWMPS	High Water Mark Page storage
(20)		0	SMTBEND	"*" End of body
(20)		0	SMTBLEN	"*-SMTBODY" Length of body DSECT
Equate for testing SMTLOCATION.				
(20)	SIGNED	0	SMTBELOW	"1"
(20)	SIGNED	0	SMTABOVE	"2"
Equates for testing SMTACCESS				
(20)	SIGNED	0	SMTCICS	"1"
(20)	SIGNED	0	SMTUSER	"2"
Equates for testing SMTDSAINDEX.				
(20)	SIGNED	0	SMTCDSA	"1"
(20)	SIGNED	0	SMTUDSA	"2"
(20)	SIGNED	0	SMTECDSA	"9"
(20)	SIGNED	0	SMTEUDSA	"10"

SNEX Signon Extension Block *LBA

```
CONTROL BLOCK NAME = DFHSNEXC
DESCRIPTIVE NAME  = CICS Sign-on Extension to the TCTTE
 @BANNER_START 02
                       DFHSNEXC
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
        The Signon Extension is owned by the Signon
        component of the AP Domain and contains information
        related to the Signon and Terminal Timeout processes.
        Each TCTTE has its own Signon Extension which is
        pointed to by the TCTESNEX pointer.
LIFETIME =
        A SNEX is created at the same time that a TCTTE is
        created when a terminal definition is installed.
STORAGE CLASS =
```

```
                             CICS storage, above the 16Mb line in the subpool
                             'SNEX'. No element chaining.
                LOCATION =
                             A SNEX is located by using the TCTESNEX pointer in
                             the TCTTE.
                NOTES :
                 DEPENDENCIES = S/390
                 MODULE TYPE = Control block definition
            -----------------------------------------------------------------
```

Table 584.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	DFHSNEX	Start of SNEX control block

`Userid:`
`  SNEX_USERID:`
 	
`            This field is used to contain the`
`            preset userid for macro defined`
`            terminals only. When the terminal`
`            has been installed, and the userid`
`            has been signed on, this field is`
`            overlaid by the principal user`
`            token and session user token (null).`
`            The flag SNEX_PRESET_USERID_PRESENT`
`            indicates whether this field`
`            currently contains a userid or`
`            tokens.`				

(0)	CHARACTER	8	SNEX_USERID	

`User Tokens:`
`  SNEX_PRINCIPAL_USER_TOKEN:`
`            This field contains the user token`
`            associated with the user currently`
`            signed on at this terminal.`
`  SNEX_SESSION_USER_TOKEN:`
 	
`            If this terminal represents a`
`            session, this field contains the`
`            user token associated with the`
`            userid signed on at this terminal.`				

(0)	UNSIGNED	4	SNEX_PRINCIPAL_USER_TOKEN	
(4)	UNSIGNED	4	SNEX_SESSION_USER_TOKEN	

Table 584. (continued)

Offset Hex	Type	Len	Name (dim)	Description

Terminal Timeout Information:
  SNEX_TIMEOUT_TIME:
 	
                      This is the time (in STCK format)
                      that this terminal is next due to
                      timeout.
  SNEX_TIMEOUT_INTERVAL:
 	
                      This is the timeout interval for
                      the currently signed on user
                      expressed as the top word of a STCK
                      value.
  SNEX_TIMEOUT_FLAGS:
   SNEX_TIMEOUT_ELIGIBLE This flag is on only if the terminal
                      is eligible for timeout processing.
                      To be eligible, the terminal must:
                      - not be defined with SIGNOFF=NO
                      - not have preset security
                      - be signed on
                      - be signed on by a userid that
                        has a non-zero timeout interval
                      - not be performing transaction
                        routing unless under the CRTE
                        transaction
  SNEX_TIMEOUT_ENABLED:
 	
                      When ON this flag indicates that the
                      terminal is in the TIMEOUT ENABLED
                      state. When OFF this flag indicates
                      that the terminal is in the
                      TIMEOUT DISABLED state.
  SNEX_TIMEOUT_TIMEDOUT:
 	
                      When ON this flag indicates that the
                      terminal is currently being timed
                      out.
  SNEX_SAVED_ATI_STATUS:
 	
                      This flag is used to save the
                      setting of the ATI status of the
                      terminal while the goodnight
                      transaction is being scheduled.				

(8)	CHARACTER	8	SNEX_TIMEOUT_ TIME	
(8)	UNSIGNED	4	HIGH_WORD	
(C)	UNSIGNED	4	LOW_WORD	
(10)	UNSIGNED	4	SNEX_TIMEOUT_ INTERVAL	
(14)	BIT(8)	1	SNEX_TIMEOUT_ FLAGS	
	1...		SNEX_TIMEOUT_ ELIGIBLE	
	.1..		SNEX_TIMEOUT_ ENABLED	
	..1.		SNEX_TIMEOUT_ TIMEDOUT	
	...1		SNEX_SAVED_ ATI_STATUS	
	 1111		*	Reserved

Table 584. (continued)

Offset Hex	Type	Len	Name (dim)	Description
XRF Information SNEX_XRF_FLAGS: SNEX_XRF_REFLECTABLE: This flag indicates whether the terminal should have its signon state reflected on an ALTERNATE XRF system. For this flag to be ON, the XRFSOFF SIT parameter must be set to NOFORCE, the XRFSIGNOFF flag in the terminal's TYPETERM definition must be set to NOFORCE and the users CICS segment in RACF must show that the user is not to be signed off after an XRF takeover. If any of the above conditions are false, this flag is set OFF.				
(15)	BIT(8)	1	SNEX_XRF_FLAGS	
	1...		SNEX_XRF_ REFLECTABLE	
	.1..		SNEX_SIGNON_ CATLGD	
				User data written to catalog for PS restart
	..1.		SNEX_AWAITING_ SIGNON	
				Not yet signed on after PS restart
	...1 1111		*	
Userid Length SNEX_USERID_LENGTH This field contains the length of the userid contained in SNEX_USERID. This field is only valid for macro defined terminals. Once the terminal has been installed by CICS this field is returned to zeros.				
(16)	UNSIGNED	1	SNEX_USERID_ LENGTH	
(17)	CHARACTER	1	*	Reserved
Transaction Statistics Information SNEX_TXN_COUNT: Keeps tally of the number of txns run by this user at this terminal for the duration of the current signon. SNEX_TXN_ERROR_COUNT: Keeps tally of the number of txn errors in this signon session.				
(18)	FULLWORD	4	SNEX_TXN_COUNT	
(1C)	FULLWORD	4	SNEX_TXN_ ERROR_COUNT	

Table 584. (continued)

Offset Hex	Type	Len	Name (dim)	Description

	Miscellaneous Flags
	SNEX_PRESET_SECURITY: Flag used to signal if this
	    terminal has preset security. This
	    flag is also set on for sessions
	    that have a preset session userid.
	SNEX_SESSION_SIGNED_ON: Flag used to signal that this
	    session has been session (link)
	    signed on.
	SNEX_PRESET_USERID_PRESENT: Flag used to indicate that a preset
	    userid exists in the SNEX_USERID
	    field. This is used to perform a
	    preset signon when the terminal is
	    installed. This is only used in the
	    case of macro defined terminals.
	SNEX_SESSION_SIGNED_ON_AS_DEFAULT: Flag used to signal that this
	    session has been session
	    (link) signed on with default
	    attributes. This is used in
	    signoff session userid to
	    stop unnecessary delete user
	    processing.
	SNEX_SESSION_USER_TOKEN_X: Flag used to indicate that this
	    SNEX contains a valid user token in
	    the SNEX_SESSION_USER_TOKEN field.
	    The session user token might be
	    null, but this can still be a valid
	    session user token. This happens
	    in the cases where it is necessary
	    to enforce a link security check
	    against the default user.
	SNEX_LUIT_TABLE_UPDATED: Flag used to indicate whether during
	    a signon_attach_header the LUIT
	    table was updated. This flag should
	    only be set on during a signon
	    attach header for a persistent
	    verification FMH-5. When this
	    terminal is attach signed off, then
	    this flag should be turned off ready
	    for the next user of this terminal.
	SNEX_EQUIVALENT_SYSTEMS: Flag used to let DFHZNCA know that
	    although this session does not
	    have the snex preset security flag
	    on, it did however have a preset
	    session userid, but it was the same
	    as this system's jobstep userid.
	    This is known as equivalent systems
	    for LU6.1 and LU6.2, but a different
	    check is made for MRO for equivalent
	    systems. Namely that the link
	    security name is the same as the
	    jobstep userid of the connecting
	    system. Hence this flag is not
	    required for MRO, because we can
	    only make the equivalence check
	    when we know the connectee's userid.
	    This is done in DFHCRNP when the
	    connection is acquired.			

(20)	CHARACTER	1	SNEX_FLAGS	
	1...		SNEX_PRESET_ SECURITY	

Table 584. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		SNEX_SESSION_ SIGNED_ON	
	..1.		SNEX_PRESET_ USERID_PRESENT	
	...1		SNEX_SESSION_ SIGNED_ ON_AS_DEFAULT	
	.... 1...		SNEX_SESSION_ USER_TOKEN_X	
	.... .1..		SNEX_LUIT_ TABLE_UPDATED	
	.... ..1.		SNEX_EQUIVALENT_ SYSTEMS	
	1		*	Reserved
(21)	CHARACTER	1	SNEX_FLAGS2	

Console support flags
SNEX_CONSOLE_REFLECT_FIRST_USER: Set if user specified
            USERID(FIRST) on the TERMINAL
            definition for the console. On
            install the real user that MVS
            has nominated in the CIB is
            signed on as a preset userid.
SNEX_CONSOLE_REFLECT_EVERY_USER: Set if user specified
            USERID(EVERY) on the TERMINAL
            definition for the console. On
            install and on every following
            message the user is signed-on
            (if it has changed) as a
            preset userid.				

(21)	CHARACTER	1	SNEX_CONSOLE	
	1...		SNEX_CONSOLE_ REFLECT_ FIRST_USER	
	.1..		SNEX_CONSOLE_ REFLECT_ EVERY_USER	
	..11 1111		*	Reserved
(22)	CHARACTER	1	SNEX_LUIT_ USERID_LEN	
				Len of PV userid
(23)	CHARACTER	8	SNEX_LUIT_USERID	PV userid
(2B)	CHARACTER	1	*	Reserved
(2C)	ADDRESS	4	SNEX_SIGNON_ DATA_ADDR	
				Data address for PS signon retention
(30)	HALFWORD	2	SNEX_SIGNON_ DATA_LENGTH	

Table 584. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Data length for PS signon retention
(32)	UNSIGNED	2	SNEX_ERR_ RESPONSE	Response code for msg
(34)	UNSIGNED	2	SNEX_ERR_REASON	Reason code for msg
(36)	CHARACTER	2	*	Reserved
(38)	CHARACTER	0	SNEX_END	End of SNEX

SNGN GNTRAN Stub Parameter List for CEGN

```
!:refstep.Cegn_parameter_list_copybook --------------- DFHCESC 1902 -
!
!
! DFHSNGNC Copybook
!
!-------------------------------------------------------------------
```

Table 585.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	DFHSNGN	CEGN Parameter List
(0)	CHARACTER	8	CEGN_EYECATCHER	Ensures CEGN started by CESC
(8)	CHARACTER	8	CEGN_TIMEOUT_ TIME	Timeout time in STCK format
(10)	ADDRESS	4	CEGN_TCTTE_ADDR	-> TCTTE of timed-out terminal
(14)	CHARACTER	1	CEGN_TIMEOUT_ REASON	
				Mechanism causing timeout
(15)	CHARACTER	3	*	Reserved
(18)	CHARACTER	0	*	End of parameter list

Constants

Table 586.

Len	Type	value	Name	Description
8	CHARACTER	>>CEGN>>	CEGN_EYECATCHER_ VALUE	

SNGS Goodnight Transaction Parameter List

```
!:refstep.Sngs_parameter_list_copybook --------------- DFHCESC 2975 -
!
!
! DFHSNGSC Copybook
!
!-------------------------------------------------------------------
```

Table 587.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHSNGS	GNTRAN Parameter List
(0)	CHARACTER	64	DFHSNGS_FIXED	Fixed part
(0)	CHARACTER	4	GNTRAN_ START_TRANSID	
				Always equal to "CEGN"
(4)	CHARACTER	1	GNTRAN_ PSEUDO_CONV_FLAG	
				Terminal was in pseudo conversation when it was timed out: 'Y' or 'N'
(5)	CHARACTER	1	GNTRAN_ SCREEN_TRUNCATED	
				3270 screen buffer had to be truncated:'Y' or 'N'
(6)	CHARACTER	1	GNTRAN_ TRANSLATE_TIOA	
				Flag to indicate that TIOA input to GNTRAN needs upper case translation.
(7)	CHARACTER	9	*	Reserved
(10)	CHARACTER	8	GNTRAN_ TIMEOUT_TIME	
				Time that the terminal timed out in CICS ABSTIME format.
(18)	CHARACTER	1	GNTRAN_ TIMEOUT_REASON	
				Mechanism causing timeout: 'T' for terminal timeout or 'X' for XRF takeover timeout
(19)	CHARACTER	11	*	Reserved
(24)	CHARACTER	4	GNTRAN_ PSEUDO_ CONV_TRANSID	
				Next transaction to run at this terminal had it not been timed out.
(28)	HALFWORD	2	GNTRAN_ SCREEN_LENGTH	

Table 587. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Length of screen buffer left by previous transaction
(2A)	HALFWORD	2	GNTRAN_ CURSOR_POSITION	
				Cursor position left by previous transaction
(2C)	HALFWORD	2	GNTRAN_ SCREEN_WIDTH	
				Width of screen left by previous transaction
(2E)	HALFWORD	2	GNTRAN_ SCREEN_HEIGHT	
				Height of screen left by previous transaction
(30)	CHARACTER	16	GNTRAN_ USER_FIELD	Available to user
(40)	CHARACTER	*	DFHSNGS_VARIABLE	Variable part
(40)	CHARACTER	*	GNTRAN_ SCREEN_BUFFER	
				Variable length field containing the contents of the screen.

SNSTA Sign-on LUIT and SNT statistics

```
CONTROL BLOCK NAME = DFHSNSTA
DESCRIPTIVE NAME  = CICS (SIGNON)
 @BANNER_START 02
                        DFHSNSTA
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     This control block is used to store statistics produced
     by the management of the LUIT tables during SIGNONs
     involving LU6.2 type connections.
     The storage for this control block is GETMAINed in DFHTCRP.
     This is only one instance of this control block per CICS
     system, and it is updated everytime a user is added/reused
     or deleted from the LUIT.
LIFETIME =
     The storage is GETMAINed during security initialisation,
     and it is released when CICS terminates.
STORAGE CLASS =
     This control block is AMODE(31) RMODE(ANY)
LOCATION =
     This control block is chained off the CSA.
INNER CONTROL BLOCKS = None
NOTES :
 DEPENDENCIES = S/370
```

```
                    RESTRICTIONS = None
                    MODULE TYPE = Control block definition
             --------------------------------------------------------------
              EXTERNAL REFERENCES = None
                 DATA AREAS = None
                 CONTROL BLOCKS = None
                 GLOBAL VARIABLES (Macro pass) = None
             --------------------------------------------------------------
```

Table 588.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	DFHSNSTA	Stats for SNT & LUIT tables

2 SNT_TOTAL_REUSES BIN(31 DELETED BY APAR
                    DELETED BY APAR
2 SNT_TOTAL_TIMEOUTS BIN(31 DELETED BY APAR
                    DELETED BY APAR
2 SNT_AV_REUSE_TIME BIN(31 EN DELETED BY APAR
                    DELETED BY APAR				

(0)	FULLWORD	4	LUIT_TOTAL_ REUSES	Total number of entries * * reused in LUIT tables
(4)	FULLWORD	4	LUIT_TOTAL_ TIMEOUTS	
				Total number of entries * * timed out in LUIT tables
(8)	FULLWORD	4	LUIT_AV_ REUSE_TIME	Average reuse time between * * entries in the LUIT table

Constants

Table 589.

Len	Type	value	Name	Description
2	DECIMAL	12	SNSTA_LENGTH	

SOGDS Sockets Global Statistics *NTA

```
                    CONTROL BLOCK NAME = DFHSOGDS
                    DESCRIPTIVE NAME  = CICS Sockets Global Statistics
                      @BANNER_START 02
                                      DFHSOGDS
                      Licensed Materials - Property of IBM
                      "Restricted Materials of IBM"
                      5655-S97
                      @BANNER_END
                    FUNCTION =
                          This data area contains the sockets global statistics
                          provided by the Sockets Domain.
                          It is provided for use in users monitoring applications
                          to map the statistics returned via the API or the
                          statistics global user exit.
                          There is a single instance of this data block.
                    LIFETIME =
                          This data block is created by the Sockets Domain to store
                          statistics to be passed to the user in response to a
                          request for sockets statistics. The storage is released
```

```
                    when the user task is detached.
                    The DSECT also maps the contents of part of the SMF buffer
                    created by the statistics domain and is used in the
                    statistics exit.
            STORAGE CLASS =
            LOCATION =
                    The user is passed a pointer to the head of the storage
                    block.
            INNER CONTROL BLOCKS = None
            NOTES :
                DEPENDENCIES = S/370
                RESTRICTIONS = None
                MODULE TYPE = Control block definition
          -------------------------------------------------------------------
            ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHSOGDS IS
            NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
            PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 590.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSOGDS	Sockets Global stats record
(0)	HALFWORD	2	SOGDS_LEN	Sockets Global stats record length
(2)	ADDRESS	2	SOGDS_ID	Sockets Global stats id
(4)	CHARACTER	1	SOGDS_VERS	Sockets Global stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	SOG_MAXSOCKETS_ LIMIT	
				Maxsockets limit
(C)	FULLWORD	4	SOG_CURR_ INBOUND_SOCKETS	
				Current Inbound sockets
(10)	FULLWORD	4	SOG_PEAK_ INBOUND_SOCKETS	
				Peak Outbound sockets
(14)	FULLWORD	4	SOG_CURR_ OUTB_SOCKETS	
				Current Outbound sockets
(18)	FULLWORD	4	SOG_PEAK_ OUTB_SOCKETS	
				Peak Outbound sockets
(1C)	FULLWORD	4	SOG_CURR_ PERS_OUTB_SOCKETS	
				Current Persistent Outb sockets
(20)	FULLWORD	4	SOG_PEAK_ PERS_OUTB_SOCKETS	

Table 590. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Peak Persistent Outb sockets
(24)	FULLWORD	4	SOG_INB_ SOCKETS_CREATED	
				Number Inbound sockets created
(28)	FULLWORD	4	SOG_OUTB_ SOCKETS_CREATED	
				Number Outbound sockets created
(2C)	FULLWORD	4	SOG_OUTB_ SOCKETS_CLOSED	
				Number of Outb sockets closed
(30)	FULLWORD	4	SOG_TIMES_ AT_MAX_SOCKETS	
				Number of times at maxsockets
(34)	FULLWORD	4	SOG_DELAYED_ AT_MAX_SOCKETS	
				Total delayed at maxsockets
(38)	CHARACTER	8	SOG_QTIME_ AT_MAX_SOCKETS	
				Total delay time at maxsockets
(40)	FULLWORD	4	SOG_TIMEDOUT_ AT_MAX_SOCKETS	
				Timeouts whilst at maxsockets
(44)	FULLWORD	4	SOG_CURR_ DELAYED_AT_MAX	
				Current delayed at maxsockets
(48)	FULLWORD	4	SOG_PEAK_ DELAYED_AT_MAX	
				Peak delayed at maxsockets
(4C)	CHARACTER	8	SOG_CURRENT_ QTIME_AT_MAX	
				Current delay time at maxsockets
(54)	CHARACTER	8		Reserved
(5C)	BITSTRING	1	SOG_SSLCACHE	SSLCACHE setting
(5D)	CHARACTER	7		Reserved
(64)	CHARACTER	8		Reserved

Table 590. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(64)		0	SOGDS_END	"*"
(64)		0	SOGDS_LENGTH	"*-SOGDS_LEN" Sockets stats record length
Constants that denote a SO Global stats record				
(64)	SIGNED	0	SOGIDR	"107" Sockets global stats id
(64)	BITSTRING	0	SOG_VERS	"X'01'" Record version number
(64)	BITSTRING	0	SOG_SSLCACHE_ CICS	"X'01'" SSLCACHE = CICS
(64)	BITSTRING	0	SOG_SSLCACHE_ SYSPLEX	
				"X'02'" SSLCACHE = SYSPLEX

SORDS TCP/IP Service (Sockets) Statistics

```
CONTROL BLOCK NAME = DFHSORDS
DESCRIPTIVE NAME  = CICS TCP/IP Service (Sockets) Statistics
   @BANNER_START 02
                        DFHSORDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
       This data area contains the tcp/ip service (sockets)
       statistics provided by the Sockets Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the
       statistics global user exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the Sockets Domain to store
       statistics to be passed to the user in response to a
       for tcp/ip service statistics. The storage is released
       when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 ------------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHSORDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 591.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSORDS	TCP/IP Service Resid stats record
(0)	HALFWORD	2	SORDS_LEN	TCP/IP Service stats record length
(2)	ADDRESS	2	SORDS_ID	TCP/IP service stats id
(4)	CHARACTER	1	SORDS_VERS	TCP/IP Service stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	SOR_SERVICE_NAME	TCP/IP Service name
(10)	FULLWORD	4	SOR_TRANS_ ATTACHED	No. of Transactions Attached
(14)	FULLWORD	4	SOR_CURRENT_ CONNS	Current number of Connections
(18)	FULLWORD	4	SOR_PEAK_CONNS	Peak number of Connections
(1C)	BITSTRING	8	SOR_OPEN_GMT	Service Open Time (GMT)
(24)	BITSTRING	8	SOR_OPEN_LOCAL	Service Open Time (Local)
(2C)	BITSTRING	8	SOR_CLOSE_GMT	Service Close Time (GMT)
(34)	BITSTRING	8	SOR_CLOSE_LOCAL	Service Close Time (Local)
(3C)	BITSTRING	2	SOR_PORT_NUMBER	TCP/IP Service Port Number
(3E)	BITSTRING	1	SOR_SSL_SUPPORT	TCP/IP Service SSL Support
(3F)	BITSTRING	1		Reserved
(40)	FULLWORD	4	SOR_BACKLOG	TCP/IP Service Backlog
(44)	FULLWORD	4	SOR_SENDS	No. of Sends (all sockets)
(48)	BITSTRING	8	SOR_BYTES_SENT	No. of Bytes Sent (all sockets)
(50)	FULLWORD	4	SOR_RECEIVES	No. of Receives (all sockets)
(54)	BITSTRING	8	SOR_BYTES_ RECEIVED	No. of Bytes Received (all sockets)
(5C)	BITSTRING	16		Reserved DS
(6C)	CHARACTER	18	SOR_WLM_GROUP	TCP/IP Service Reserved
(7E)	CHARACTER	2		Reserved
(80)	CHARACTER	8	SOR_PROTOCOL	TCP/IP Service Protocol

Table 591. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	BITSTRING	1	SOR_AUTHENTICATE	TCP/IP Service Authenticate
(89)	BITSTRING	1	SOR_PRIVACY	TCP/IP Service Privacy
(8A)	BITSTRING	1	SOR_ATTACHSEC	TCP/IP Service Attachsec
(8B)	CHARACTER	5		Reserved
(90)	CHARACTER	8		Reserved
(98)	FULLWORD	4	SOR_MAXDATA_ LENGTH	TCP/IP Service Maxdata length
(9C)	CHARACTER	4	SOR_TCPIPS_ TRANID	TCP/IP service Transaction ID
(A0)	CHARACTER	8	SOR_TCPIPS_URM	TCP/IP service URM
(A8)	FULLWORD	4	SOR_TCPIPS_ MAX_PERSIST	
				Maximum Persistent Connections
(AC)	FULLWORD	4	SOR_TCPIPS_ NON_PERSIST	
				No. Non-Persistent Connections
(B0)	CHARACTER	8		Reserved
(B8)	CHARACTER	8		Reserved
(C0)	CHARACTER	39	SOR_IP_ADDRESS	IP Address of TCP/IP Service
(E7)	CHARACTER	1	SOR_IP_FAMILY	IP family
(E8)	CHARACTER	116	SOR_HOSTNAME	Hostname
(15C)	CHARACTER	4		Reserved
(160)	CHARACTER	8	SOR_DEFINE_ SOURCE	Group installed from
(168)	BITSTRING	8	SOR_CHANGE_TIME	Change/create time
(170)	CHARACTER	8	SOR_CHANGE_ USERID	Change userid
(178)	BITSTRING	2	SOR_CHANGE_AGENT	Change agent
(17A)	BITSTRING	2	SOR_INSTALL_ AGENT	Install agent
(17C)	BITSTRING	8	SOR_INSTALL_TIME	Install/Create time
(184)	CHARACTER	8	SOR_INSTALL_ USERID	Install userid
(18C)	CHARACTER	32		Reserved
(18C)		0	SORDS_END	"*"
(18C)		0	SORDS_LENGTH	"*-SORDS_LEN" TCP/IP Service record length
Constants that denote a SO tcp/ip service stats record				

Table 591. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18C)	SIGNED	0	SORIDR	"108" TCP/IP Service resid stats id
(18C)	BITSTRING	0	SOR_VERS	"X'01'" Record version number
(18C)	BITSTRING	0	SOR_SSL_YES	"X'01'" SSL = Yes
(18C)	BITSTRING	0	SOR_SSL_NO	"X'02'" SSL = No
(18C)	BITSTRING	0	SOR_SSL_CLI_AUTH	"X'03'" SSL = Client Authentication
	....		SOR_AUTHENT_NONE	"X'00'" Authenticate = None
(18C)	BITSTRING	0	SOR_AUTHENT_ BASIC	"X'01'" Authenticate = Basic
(18C)	BITSTRING	0	SOR_AUTHENT_CERT	"X'02'" Authenticate = Certificate
(18C)	BITSTRING	0	SOR_AUTHENT_ AUTOREG	
				"X'03'" Authenticate = Autoregister
(18C)	BITSTRING	0	SOR_AUTHENT_AUTO	"X'04'" Authenticate = Automatic
(18C)	BITSTRING	0	SOR_AUTHENT_ ASSERTED	
				"X'05'" Authenticate = Asserted
	....		SOR_PRIVACY_ NOTSUPPORTED	
				"X'00'" Privacy = NotSupported
(18C)	BITSTRING	0	SOR_PRIVACY_ SUPPORTED	
				"X'01'" Privacy = Supported
(18C)	BITSTRING	0	SOR_PRIVACY_ REQUIRED	
				"X'02'" Privacy = Required
(18C)	BITSTRING	0	SOR_ATTACHSEC_ LOCAL	
				"X'01'" Attachsec = Local
(18C)	BITSTRING	0	SOR_ATTACHSEC_ VERIFY	
				"X'02'" Attachsec = Verify
	....		SOR_IP_ FAMILY_UNKNOWN	

Table 591. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				"X'00'" IP family = Unknown
(18C)	BITSTRING	0	SOR_IP_ FAMILY_IPV4	"X'01'" IP family = IPv4
(18C)	BITSTRING	0	SOR_IP_ FAMILY_IPV6	"X'02'" IP family = IPv6
(18C)	SIGNED	0	SOR_CSDAPI_ CHANGE	"0001" CSD API
(18C)	SIGNED	0	SOR_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(18C)	SIGNED	0	SOR_DREPAPI_ CHANGE	"0003" DREP API
(18C)	SIGNED	0	SOR_CREATE_ CHANGE	"0004" EXEC CREATE SPI
(18C)	SIGNED	0	SOR_SYSTEM_ CHANGE	"0007" SYSTEM Install Agents
(18C)	SIGNED	0	SOR_CSDAPI_ INSTALL	"0001" CSD API
(18C)	SIGNED	0	SOR_CREATE_ INSTALL	"0004" EXEC CREATE SPI
(18C)	SIGNED	0	SOR_GRPLIST_ INSTALL	
				"0005" GRPLIST

SRA SRB interface mapping

```
MODULE NAME = DFHSRADS
DESCRIPTIVE NAME  = CICS SRB INTERFACE MAPPING
   @BANNER_START 02
                         DFHSRADS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
       SRB INTERFACE CONTROL AREA
```

Table 592.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSRADS	
(0)	BITSTRING	1	SRAFLAGS	FLAGS FIELD
NB BIT SRAVTAM IS REFERENCED BY DFHDSSUB AND MUST NOT BE MOVED!!!				
(0)	BITSTRING	0	SRAVTAM	"X'80'" VTAM AUTH. PATH INSTALLED
NB BIT SRAVTAM IS REFERENCED BY DFHDSSUB AND MUST NOT BE MOVED!!!				
(0)	BITSTRING	0	SRAICIP	"X'40'" VSAM ICIP INSTALLED
(1)	BITSTRING	1	SRAFLAG2	FLAGS FIELD

Table 592. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	BITSTRING	0	SRASCHED	"X'80'" SRB SCHEDULED FLAG
(2)	BITSTRING	2		RESERVED
(4)	ADDRESS	4		Reserved - was SRANXHTA
(8)	DBL WORD	8	(0)	DOUBLE WORD ALIGN FOR CDS
(8)	ADDRESS	4	SRARQCHN	HEAD OF SRB REQUEST CHAIN
(C)	FULLWORD	4		COUNTER FOR CDS PAIR
(10)	ADDRESS	4	SRARQEND	LAST ITEM IN REQUEST CHAIN
(14)	ADDRESS	4	(2)	RESERVED
(1C)	ADDRESS	4	SRASRXA	ADDRESS OF SRX BLOCK
(20)	FULLWORD	4		RESERVED
COUNTERS TO CONTROL SRB SCHEDULING				
(24)	FULLWORD	4	SRALRQCT	OUTSTANDING LONG REQUESTS
(28)	DBL WORD	8	(0)	ALIGN ON DWORD BOUNDARY. FOLLOWING TWO FIELDS FORM A CDS PAIR
(28)	FULLWORD	4	SRASRQXS	EXCESS OF OUTSTANDING SHORT REQUESTS OVER LIMIT (SET INITIALLY TO -SRARQLIM)
(2C)	FULLWORD	4	SRASHORT	EXCESS OF SHORT RUN SRBS OVER LIMIT (INIT -SRASRLIM)
(30)	FULLWORD	4	SRATOTAL	TOTAL RUNNING SRB'S
(34)	FULLWORD	4	SRARQLIM	SHORT TERM REQUEST THRESHOLD
(38)	FULLWORD	4	SRASRLIM	SHORT TERM SRB THRESHOLD
(38)	SIGNED	0	SRARQLMV	"2" REQUEST COUNT THRESHOLD
(38)	SIGNED	0	SRASRLMV	"2" SHORT RUN SRB THRESHOLD

Table 592. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)		0	SRAAD	"*-DFHSRADS" LENGTH OF SRA

SRED System recovery error data

```
CONTROL BLOCK NAME = DFHSREDS
DESCRIPTIVE NAME  = CICS System Recovery Error Data
 @BANNER_START 02
                      DFHSREDS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = Declares the SRP_ERROR_DATA structure. This
           contains information about an MVS abend, and is
           passed to global user exit XSRAB.
 ----------------------------------------------------------------
```

Table 593.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	796	SRP_ERROR_DATA	SRP error data
(0)	CHARACTER	4	SRP_ERROR_TYPE	Abend type 'ASRB'
(4)	BIT(16)	2	SRP_SYS_ABCODE	System abend code
(6)	BIT(16)	2	SRP_USER_ABCODE	User abend code
(8)	CHARACTER	4	SRP_ERROR_TRANID	Transaction id
(C)	CHARACTER	8	SRP_ERROR_ STACK_NAME	
				Kernel stack program
(14)	CHARACTER	8	SRP_ERROR_ PPT_NAME	PPT program
(1C)	FULLWORD	4	SRP_ERROR_OFFSET	Offset in program
(20)	BIT(8)	1	SRP_ERROR_FLAGS	Flags
	1...		SRP_CICS_CODE	Abend in CICS code
	.1..		SRP_USER_CODE	Abend in user code
	..1.		SRP_PPT_ENTRY	PPT program present
	...1		SRP_VALID_ OFFSET	Valid offset present
	.... 1...		SRP_VALID_ REASON	Abend reason present
	.... .1..		SRP_NOT_CICS_RB	CICS RB not in control at time of error
	11		*	Reserved
(21)	CHARACTER	4	SRP_ERROR_REASON	Abend reason code
(25)	CHARACTER	3	*	Reserved
(28)	CHARACTER	152	SRP_CICS_ ERROR_DATA	
				CICS error data

Table 593. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	CHARACTER	8	SRP_CICS_EC_PSW	CICS EC PSW
(28)	CHARACTER	2	*	Padding
(2A)	1...		SRP_CICS_AR_MODE	AR mode?
(30)	CHARACTER	8	SRP_CICS_EC_INT	CICS interrupt data
(38)	CHARACTER	64	SRP_CICS_REGST	CICS GP regs
(78)	CHARACTER	64	SRP_CICS_AC_REGST	CICS Access Regs
(B8)	UNSIGNED	1	SRP_CICS_EXEC_KEY	CICS PSW key N in form X'0N'
(B9)	CHARACTER	7	*	Reserved
(C0)	CHARACTER	152	SRP_SYSTEM_ERROR_DATA	
				System error data
(C0)	CHARACTER	8	SRP_SYSTEM_EC_PSW	System EC PSW
(C0)	CHARACTER	2	*	Padding
(C2)	BIT(8)	1	*	Padding
(C3)	1...		SRP_SYSTEM_AR_MODE	
				AR mode ?
(C8)	CHARACTER	8	SRP_SYSTEM_EC_INT	System interrupt data
(D0)	CHARACTER	64	SRP_SYSTEM_REGST	System GP regs
(110)	CHARACTER	64	SRP_SYSTEM_AC_REGST	
				System Access regs
(150)	UNSIGNED	1	SRP_SYSTEM_EXEC_KEY	
				System PSW key N in form X'0N'
(151)	CHARACTER	7	*	Reserved
(158)	CHARACTER	32	SRP_ERROR_FP_REGS	FP regs
(158)	CHARACTER	8	SRP_FP_REG_0	FP reg 0
(160)	CHARACTER	8	SRP_FP_REG_2	FP reg 2
(168)	CHARACTER	8	SRP_FP_REG_4	FP reg 4
(170)	CHARACTER	8	SRP_FP_REG_6	FP reg 6
(178)	CHARACTER	16	SRP_ERROR_SUBSPACE_INFO	
(178)	CHARACTER	4	SRP_ALET	ALET
(17C)	CHARACTER	8	SRP_SUBSPACE_TOKEN	

Table 593. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Subspace token
(184)	BIT(8)	1	SRP_SUBSPACE_ FLAGS	
	1...		SRP_SUBSPACE_ ACTIVE	
				Subspace/basespace
	.111 1111		*	Reserved
(185)	CHARACTER	3	*	Reserved
(188)	CHARACTER	8	*	Reserved
(190)	CHARACTER	264	SRP_ADDITIONAL_ REGS_INFO	
(190)	BIT(8)	1	SRP_ADDITIONAL_ REGS_FLAGS	
				data existence flg
	1...		SRP_CICS_ GPR64_AVAIL	
	.1..		SRP_SYSTEM_ GPR64_AVAIL	
	..1.		SRP_ADDITIONAL_ FPR_AVAIL	
	...1 1111		*	
(191)	CHARACTER	7	*	
(198)	CHARACTER	128	SRP_CICS_ GP64_REGS	
				cics 64-bit gpr !
(218)	CHARACTER	128	SRP_SYSTEM_ GP64_REGS	
				system 64-bit gpr !
(298)	CHARACTER	132	SRP_ADDITIONAL_ FPR_INFO	
(298)	CHARACTER	128	SRP_FP_REGS	all FP registers !
(318)	CHARACTER	4	SRP_FPC_REG	fpc register !

SRT System recovery table

```
CONTROL BLOCK NAME = DFHSRTDS
DESCRIPTIVE NAME  = CICS System Recovery Table.
   @BANNER_START 02
                          DFHSRTDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
   The System Recovery Table contains a list of System Abend
   codes that are intercepted by the Recovery program (DFHSRP).
```

The user has the option of modifying the Table to meet his
special requirements by use of the DFHSRT macros.
The Table is loaded at CICS/MVS initialization.

Table 594.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSRTDS	SYSTEM RECOVERY TABLE DSECT
(0)	CHARACTER	4	SRTABCID	ABEND CODE IDENTIFICATION
(0)		0	SRTED	"(*-DFHSRTDS)" ENDING DISPLACEMENT

SRB Service request block

```
%PLSSRB1:;
  START OF SPECIFICATIONS
  01 PROPRIETARY STATEMENT =
              LICENSED MATERIALS - PROPERTY OF IBM
              THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
  01 STATUS: HBB5520
  01 DESCRIPTIVE NAME: Service Request Block =
  02 ACRONYM: SRB
  01 EXTERNAL CLASSIFICATION:
  02 DMTI:BASE
  02 GUPI:FIELDS
                  SRBASCB
                  SRBCPAFF
                  SRBEP
                  SRBFRRA
                  SRBID
                  SRBPARM
                  SRBPASID
                  SRBPKF
                  SRBPTCB
                  SRBRMTR
  01 END OF EXTERNAL CLASSIFICATION:
  01 MACRO NAME: IHASRB
  01 DSECT NAME:
      SRBSECT
  01 COMPONENT: SUPERVISOR CONTROL (SC1C5)
  01 EYE-CATCHER: SRB
  02 OFFSET: 0
  02 LENGTH: 4
  01 STORAGE ATTRIBUTES:
  02 SUBPOOL: Common, Fixed Storage
  02 KEY: 0
  02 RESIDENCY: ABOVE OR BELOW THE 16M LINE
  01 SIZE: 44 BYTES
  01 CREATED BY:
      Control program routines
  01 POINTED TO BY:
      Built and initialized in user-allocated storage and
      passed as a parameter to the SCHEDULE macro.
      Pointed to by register 0 on entry to the SRB routine
      whose address is in SRBEP.
      ASCBXMPQ FIELD OF THE ASCB DATA AREA
      ASXBFSRB FIELD OF THE ASXB DATA AREA
      ASXBLSRB FIELD OF THE ASXB DATA AREA
      IOSSRB FIELD OF THE IOSB DATA AREA
      PCBSRB FIELD OF THE PCB DATA AREA
      SRBFLNK FIELD OF THE SRB DATA AREA
```

```
            SVTGSMQ FIELD OF THE SVT DATA AREA
            SVTLSMQ FIELD OF THE SVT DATA AREA
            SVTSRBA FIELD OF THE SVT DATA AREA
            TQESRB FIELD OF THE TQE DATA AREA
            TVCSSRBA FIELD OF THE TVCS DATA AREA
            WEBUPTR field of the WEB data area
      01 SERIALIZATION:
            Owner-serialized.
      01 FUNCTION:
            Used as input to the SCHEDULE macro when scheduling a
            routine for asynchronous execution.
      01 METHOD OF ACCESS =
            BAL- DSECT ALWAYS PRODUCED, PERFORM USING ON SRBSECT
            BAL LISTING - SPECIFY LIST=YES OR NO ON MACRO CALL
            PL/S - SRBSECT WILL BE BASED(SRBPTR) .
               1. IF YOU WISH TO APPEND THE SRB TO THE END OF
                  ANOTHER CONTROL BLOCK, SET %SRBLEVEL='N'
                  WHERE N IS AN INTEGER BETWEEN 2 AND 3,INCLUSIVE.
                  SRBSECT WILL THEN BE AN UNBASED LEVEL N VARIABLE.
               2. IF YOU WISH TO APPEND ANOTHER CONTROL BLOCK TO THE END
                  OF THE SRB, SET %SRB9999=',', AND THE SEMICOLON AT
                  THE END OF THE SRB WILL BE REPLACED WITH A COMMA.
               EXAMPLE OF PLACING SRB BETWEEN TWO OTHER BLOCKS:
                  %SRBLEVEL='2'
                  %SRB9999=','
            DECLARE 1 MYBLOCK,
               2 MYFIELD,
               %INCLUDE SYSLIB(IHASRB)
               2 MYFIELD2
            PL/S LISTING - SPECIFY %IHALIST='YES' BEFORE %INCLUDE
      01 COMPONENT = SC1C5 (SUPERVISOR CONTROL)
      01 DISTRIBUTION LIBRARY = AMACLIB
       END OF SPECIFICATIONS
            %GOTO PLSSRB2;
```

Table 595.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SRBSECT	
(0)	ADDRESS	4	SRB (0)	
(0)	CHARACTER	4	SRBID	EBCDIC ACRONYM FOR SRB OR SSRB.
(4)	ADDRESS	4	SRBFLNK	FORWARD CHAIN FIELD
(8)	ADDRESS	4	SRBASCB (0)	PTR TO ASCB OF ADDRESS SPACE SRB IS TO BE DISPATCHED TO
(8)	BITSTRING	1		RESERVED. DO NOT USE.
(9)	ADDRESS	3	SRBASC24	24-bit ASCB address
(C)	CHARACTER	8	SRBFLC (0)	SRB AREA MOVED TO LOW CORE
(C)	BITSTRING	2	SRBCPAFF	CPU AFFINITY MASK
(E)	HALFWORD	2	SRBPASID	PURGEDQ ASID IDENTIFIER
(10)	ADDRESS	4	SRBPTCB	PURGEDQ TCB IDENTIFIER

Table 595. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	ADDRESS	4	SRBEP (0)	ENTRY POINT OF ROUTINE
(14)	ADDRESS	4	SRBEPA	ADDRESS OF ENTRY POINT (31-BIT USERS)
(14)	BITSTRING	0	SRBMODE	"X'80'" ADDRESSING MODE INDICATOR
(18)	ADDRESS	4	SRBRMTR (0)	ADDRESS OF RESOURCE MANAGER ROUTINE
(18)	ADDRESS	4	SRBRMTRA	ADDRESS OF RESOURCE MANAGER ROUTINE (31-BIT USERS)
(18)	BITSTRING	0	SRBRMODE	"X'80'" ADDRESSING MODE INDICATOR
(1C)	ADDRESS	4	SRBPARM	USER PARAMETER
(20)	ADDRESS	4	SRBWEB (0)	Address of this SRB's WEB. SERIALIZATION: None OWNERSHIP: Supervisor Control
(20)	ADDRESS	4	SRBSAVE	Reserved. Must be Zero. SERIALIZATION: None OWNERSHIP: Supervisor Control
(24)	BITSTRING	1	SRBPKF	PROTECT KEY INDICATION
(25)	BITSTRING	1	SRBPRIOR (0)	PRIORITY LEVEL INDIC
(25)	BITSTRING	1	SRBFLGS	SRB OPTION FLAGS
(25)	BITSTRING	0	SRBLLREQ	"X'80'" LOCAL LOCK REQUIRED
(25)	BITSTRING	0	SRBLLHLD	"X'40'" LOCAL LOCK HELD
(25)	BITSTRING	0	SRBFRREQ	"X'20'" FRR REQUESTED
(25)	BITSTRING	0	SRBFRRCL	"X'10'" THIS BIT IS OBSOLETE SINCE FRR PARM AREA ALWAYS CLEARED BY DISPATCHER. RETAINED FOR COMPATIBILITY.
(25)	BITSTRING	0	SRBSUSP	"X'08'" SUSPENDED SRB ONLY ON FOR SSRB

Table 595. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(25)	BITSTRING	0	SRBPNONQ	"X'04'" NON QUIESCABLE SRB
	....		SRBPSYS	"X'00'" SYSTEM PRIORITY LEVEL
(26)	BITSTRING	1	SRBHLHI	INDICATION OF SUSPEND LOCKS HELD AT SRB SUSPENSION
(27)	BITSTRING	1	SRBFLGS1	SRB TYPE FLAGS.
(27)	BITSTRING	0	SRBMAIN	"X'80'" SRB/SSRB MUST BE FREEMAINED.
(27)	BITSTRING	0	SRBSP245	"X'40'" SRB/SSRB FROM SUBPOOL 245.
(27)	BITSTRING	0	SRBBLK24	"X'20'" SRB BELOW THE LINE
(27)	BITSTRING	0	SRBXESF	"X'10'" Mode=primary FRR - only meaningful if SRBFRREQ is set.
(27)	BITSTRING	0	SRB1STS	"X'08'" This SSRB represents the initial schedule of a workunit and has never been dispatched.
(27)	BITSTRING	0	SRBPMCS	"X'04'" This SRB is in process-must complete mode
(27)	BITSTRING	0	SRBMSCHD	"X'02'" This SRB was schduled via the IEAMSCHD macro
(27)	BITSTRING	0	SRBTOKNP	"X'01'" This SSRB belongs to the pool created for SUSPEND with SPTOKEN.
(28)	ADDRESS	4	SRBFRRA	FRR ROUTINE ADDRESS
(2C)	FULLWORD	4	SRBEND (0)	END OF SRB
(2C)		0	SRBSIZE	"SRBEND-SRBSECT" SIZE OF SRB
	....		DFHSRXDS	"SRBSECT" CICS NAME FOR SECTION
(30)	DBL WORD	8	(0)	ALIGN START OF CICS FIELDS ON DOUBLE WORD BOUNDARY
START OF CICS EXTENSION AREA				

Table 595. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	ADDRESS	4	SRXRTNA	MVS SRB RETURN ADDRESS
(34)	ADDRESS	4	SRXCSAA	ADDRESS OF CICS CSA
(38)	ADDRESS	4	SRXEXLA	ADDRESS OF VTAM EXIT LIST, WHICH IS PROTECTED FOR SRB MODE USE
(3C)	ADDRESS	4	SRXKCSPA	ADDRESS OF KCSP ENTRY LIST
(40)	ADDRESS	4	SRXRSCA	ADDRESS OF OS REGISTER SAVE AREA POOL CONTROL AREA
(44)	ADDRESS	4	SRXVAA	ATTACH-SRB VALIDATION
(48)	ADDRESS	4	SRXVEA	ENTER-SRB VALIDATION
(4C)	ADDRESS	4	SRXVTA	VTAM VALIDATION DATA
(50)	ADDRESS	4	SRXVSA	VSAM VALIDATION DATA
(54)	BITSTRING	1	SRXPPKEY	CICS PP STATE PROTECT KEY
(58)	DBL WORD	8	(0)	DOUBLE WORD ALIGN FOR CDS
(58)	ADDRESS	4	SRXNXSVA	HEAD OF FREE SAVE AREA
(5C)	FULLWORD	4		CHAIN AND COUNTER (CDS PAIR) *
(60)	FULLWORD	4	SRXSAVE (16)	SAVE AREA FOR KCSP FOR BRANCH ENTRY TO POST *
(A0)	DBL WORD	8	(0)	ROUND UP TO DOUBLE WORD
(A0)		0	SRXAAD	"*-DFHSRXDS" LENGTH OF SRX
(A0)	SIGNED	0	SRXSBPL	"245" SUBPOOL FOR SRX (SQA)
DEFINITIONS OF OFFSETS IN SAVE AREAS				
(A0)	SIGNED	0	RSCSVCHN	"72" FREE CHAIN FIELD (HEAD OF CHAIN IS IN SRXNXSVA) *
(A0)	SIGNED	0	RSCSVFRR	"72" FRR PARAMETER AREA ADDR WHEN SAVE AREA IN USE *

Table 595. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	SIGNED	0	RSCSVLTH	"80" LENGTH OF SAVE AREA
(A0)	SIGNED	0	RSCSBPL	"252" SUBPOOL FROM WHICH SAVE AREAS ARE OBTAINED *
	Definitions of offsets in FRR Parm Area			
(A0)	SIGNED	0	FRRPSRX	"4" SRX Address
(A0)	SIGNED	0	FRRPRSCS	"8" OS reg save area address
(A0)	SIGNED	0	FRRPRSA	"12" Reg save area used by FRR code
(A0)	SIGNED	0	FRRPISDW	"23" SDWA indicator
(A0)	BITSTRING	0	FRRPSDW	"X'0C'" SDWA was not passed

SSA Static storage area address list

```
MACRO NAME = DFHSSAD
DESCRIPTIVE NAME  = CICS STATIC STORAGE AREA ADDRESS LIST
  @BANNER_START 02

                        DFHSSAD
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = DFHSSAD GENERATES THE DSECT THAT IS USED BY CICS/ESA
            TO REFERENCE THE LIST OF STATIC STORAGE AREA ADDRESSES.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NOT APPLICABLE
 MODULE TYPE = MACRO
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE
   MACRO NAME = DFHSSAD
   DESCRIPTIVE NAME  = STATIC STORAGE AREA ADDRESS LIST
   DSECT NAME: DFHSSADS
   FUNCTION =
   The Static Storage Area Address List is a list of addresses
   of the static storage areas used by various CICS modules.
   CSASSA in the CSA Optional Features List (CSAOPFL) addresses
   the SSA address list.
```

Table 596.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSSADS	STATIC STORAGE AREA ADDRESS LIST
(0)	ADDRESS	4	SSACPI	CPI static storage address
(4)	ADDRESS	4	SSAAITM	AITM static storage address

Table 596. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	ADDRESS	4	SSAPRM	Partner Manager static storage address
(C)	ADDRESS	4	SSAEC	Event Capture static storage address
(10)	ADDRESS	4	SSADLI	DLP PARAMETER AREA & DFHDLI STORAGE ADDRESS
(14)	ADDRESS	4	SSATMP	TABLE MANAGER STATIC STORAGE AREA ADDRESS
(18)	BITSTRING	1	SSAPCFLG	DFHPCPC2 static storage flag
(18)	BITSTRING	0	PCSCOBGM	"X'80'" Cobol getmain in progress
(19)	BITSTRING	3		Reserved
(1C)	ADDRESS	4	SSACRL	anchor block for DFHCRL (only used during emergency restart)
(20)	ADDRESS	4	SSATSP	TEMPORARY STORAGE STATIC STORAGE AREA ADDRESS (VSAM ACB)
(24)	ADDRESS	4	SSAAPRD	APRD address of RDAB
(28)	ADDRESS	4	SSAKCP	Transaction Manager static storage addr
(2C)	ADDRESS	4	SSASKM	SUBTASK MANAGER STATIC STORAGE ADDR
(30)	ADDRESS	4	SSASZ	Front-End Programming Interface Static
(34)	ADDRESS	4	SSADB2	CICS/DB2 static storage
(38)	ADDRESS	4	SSARCP	RECOVERY CONTROL STATIC STORAGE ADDR
(3C)	ADDRESS	4	SSAWU	SM Restful API static storage address
(40)	ADDRESS	4	SSAXRF	XRF static storage area addr
(44)	ADDRESS	4	SSAXRP	XRP static storage area addr (storage allocated by XRA)
(48)	ADDRESS	4	SSAAPLX	APLX static storage area addr

Table 596. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	ADDRESS	4	SSAICP	ICP static storage area addr
(50)	ADDRESS	4	SSAAPDM	DFHAPDM's static storage area addr
(54)	ADDRESS	4	SSAMQ	CICS/MQ static storage
(58)	FULLWORD	4	SSASTOP	END STOPPER
(58)		0	SSALEN	"*-DFHSSADS" LENGTH OF STATIC AREA ADDRESS LIST

STG Statistics domain statistics

```
CONTROL BLOCK NAME = DFHSTGDS
DESCRIPTIVE NAME  = CICS Statistics domain statistics
   @BANNER_START 02

                         DFHSTGDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This DSECT describes the statistics maintained by the
      statistics domain on its own operation.
      This control block belongs to the Statistics Domain. There
      is a single instance of the control block which is copied
      to SMF at each statistics interval.
LIFETIME =
      This control block is created when the Statistics Domain is
      initialized and is destroyed when the domain is shut down.
STORAGE CLASS =
LOCATION =
      This control block is part of the Statistics domain
      anchor block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
 -----------------------------------------------------------------
 EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = none
    GLOBAL VARIABLES (Macro pass) = none
 -----------------------------------------------------------------
```

Table 597.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSTGDS	Statistics domain statistics
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	STGLEN	Length of data
(0)	SIGNED	0	STGIDE	"66" Stats domain id mask

Table 597. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	ADDRESS	2	STGID	Stats domain id
(2)	BITSTRING	0	STGVERS	"X'01'" Stats version number mask
(4)	CHARACTER	1	STGDVERS	Stats version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	STGNC	Number of Interval Collections
(C)	FULLWORD	4	STGSMFW	Number of SMF Writes
(10)	FULLWORD	4	STGLDW	Length of Statistics Data Written
(14)	FULLWORD	4		Reserved
(18)	FULLWORD	4	STGSMFS	Number of SMF Writes Suppressed
(1C)	FULLWORD	4	STGSMFE	No. SMF errors
(20)	FULLWORD	4	STGINTR	No. INT statistics records
(24)	FULLWORD	4	STGEODR	No. EOD statistics records
(28)	FULLWORD	4	STGUSSR	No. USS statistics records
(2C)	FULLWORD	4	STGREQR	No. REQ statistics records
(30)	FULLWORD	4	STGRRTR	No. RRT statistics records
(34)	FULLWORD	4		Reserved
(38)	BITSTRING	8	STGCSTRT	Statistics CICS Start Time
(40)	BITSTRING	8	STGLRT	Statistics Last Reset Time
(48)	BITSTRING	8	STGINTVL	Statistics Collection Interval
(50)	CHARACTER	6	STGEODT	Statistics End-of-Day Time
(56)	BITSTRING	1	STGSTRCD	STATRCD setting
(57)	BITSTRING	1		Reserved
(57)		0	STGEND	"*"
(57)		0	STGCLEN	"*-STGLEN" Length of stats

STI Statistics record identifiers

```
CONTROL BLOCK NAME = DFHSTIDS
DESCRIPTIVE NAME  = CICS Statistics Record Identifiers.
   @BANNER_START 02
                     DFHSTIDS
   Licensed Materials - Property of IBM
```

```
                    "Restricted Materials of IBM"
                    5655-S97
                    @BANNER_END
              FUNCTION = This copybook contains the common 5 byte header for
                     statistics records and a list ( as equates ) of all the
                     valid statistics record ids for the CICS SMF record type
                     110, subtype 2 statistics records. The statistics record
                     ids for the CICS SMF record type 110, subtypes 3, 4 and
                     5 are only noted in CICS Statistics chapter of the
                     Customization Guide, but not in this dsect.
                     This copybook is provided for use by both CICS and user
                     transactions to identify the source of a statistics record
                     appearing at the Stats Exit, the SMF dataset or the EXEC API.
              LIFETIME = There is no storage dedicated to this copybook
              STORAGE CLASS = n/a
              LOCATION = n/a
              INNER CONTROL BLOCKS = None
              NOTES :
                 DEPENDENCIES = S/370
                 RESTRICTIONS = None
                 MODULE TYPE = Control block definition
           ---------------------------------------------------------------
              EXTERNAL REFERENCES = None
                 DATA AREAS = None
                 CONTROL BLOCKS = None
                 GLOBAL VARIABLES (Macro pass) = None
           ---------------------------------------------------------------
```

Table 598.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHSTIDS	Stats record header
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	STILEN	Length of the record
(2)	ADDRESS	2	STID	Stats id
(4)	CHARACTER	1	STIVERS	Stats record version
(4)	SIGNED	0	STIXMG	"10" Transaction manager (Globals) id
(4)	SIGNED	0	STIXMR	"11" Transaction manager (Trans) id
(4)	SIGNED	0	STIXMC	"12" Transaction manager (Tclass) id
(4)	SIGNED	0	STIFEPIP	"16" FEPI pool id
(4)	SIGNED	0	STIFEPIC	"17" FEPI connection id
(4)	SIGNED	0	STIFEPIT	"18" FEPI target id
(4)	SIGNED	0	STISMD	"19" Storage mgr domain subpool id
(4)	SIGNED	0	STISMT	"20" Storage manager task subpool id
(4)	SIGNED	0	STIVT	"21" VTAM stats id
(4)	SIGNED	0	STIPAUTO	"23" Program Autoinstall id
(4)	SIGNED	0	STIAUTO	"24" Terminal Autoinstall stats id
(4)	SIGNED	0	STILDR	"25" Loader (Resid) id

Table 598. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	SIGNED	0	STIDBUSS	"28" DBCTL USS id
(4)	SIGNED	0	STISMDSA	"29" Storage manager DSA id
(4)	SIGNED	0	STILDG	"30" Loader (Globals) id
(4)	SIGNED	0	STILDB	"31" Library (Resource) id
(4)	SIGNED	0	STITCR	"34" Terminal control (Resid) id
(4)	SIGNED	0	STILSRR	"39" LSRPOOL pool stats (resid) id
(4)	SIGNED	0	STILSRFR	"40" LSRPOOL File stats (by file) id
(4)	SIGNED	0	STITDQR	"42" TDQUEUE (Resid) id
(4)	SIGNED	0	STITDQG	"45" TDQUEUE (Globals) id
(4)	SIGNED	0	STITSQ	"48" TSQUEUE stats id
(4)	SIGNED	0	STICONSR	"52" ISC/IRC system entry (resid) id
(4)	SIGNED	0	STICONSS	"54" ISC connection - System Security
(4)	SIGNED	0	STIDS	"60" Dispatcher stats id
(4)	SIGNED	0	STIUSG	"61" User Domain stats id
(4)	SIGNED	0	STITM	"63" Table manager stats id
(4)	SIGNED	0	STIDST	"64" Dispatcher TCB (Global) id
(4)	SIGNED	0	STIDSR	"65" Dispatcher TCB (Resource) id
(4)	SIGNED	0	STIST	"66" Stats stats id
(4)	SIGNED	0	STIFCR	"67" File Control (Resid) id
(4)	SIGNED	0	STIMQG	"74" MQ Connection stats (Global) id
(4)	SIGNED	0	STICONMR	"76" ISC/IRC mode entry (resid) id
(4)	SIGNED	0	STIM	"81" Monitoring stats (Global) id
(4)	SIGNED	0	STIMNR	"84" Monitoring stats (Resid) id
(4)	SIGNED	0	STITDR	"85" Transaction dump (Resid) id

Table 598. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	SIGNED	0	STITDG	"87" Transaction dump (Global) id
(4)	SIGNED	0	STISDR	"88" System dump (Resid) id
(4)	SIGNED	0	STISDG	"90" System dump (Global) id
(4)	SIGNED	0	STILGG	"92" Logstream stats (Global) id
(4)	SIGNED	0	STILGR	"93" Logger stats (Resource) id
(4)	SIGNED	0	STILGS	"94" Logstream stats (Resource) id
(4)	SIGNED	0	STINQG	"97" ENQ Manager stats (Global) id
(4)	SIGNED	0	STIRMG	"99" Recovery Mgr stats (Global) id
(4)	SIGNED	0	STIRLR	"100" BUNDLEs (Resource) id
(4)	SIGNED	0	STIWBG	"101" URIMAPs (Global) id
(4)	SIGNED	0	STID2G	"102" DB2 Connection stats (Global) id
(4)	SIGNED	0	STID2R	"103" DB2 Entry stats (Resource) id
(4)	SIGNED	0	STIWBR	"104" URIMAPs (Resource) id
(4)	SIGNED	0	STIPIR	"105" PIPELINE (Resource) id
(4)	SIGNED	0	STIPIW	"106" WEBSERVICE (Resource) id
(4)	SIGNED	0	STISOG	"107" TCP/IP (Global) id
(4)	SIGNED	0	STISOR	"108" TCP/IP Services (Resource) id
(4)	SIGNED	0	STIISR	"109" IPCONN (Resource) id
(4)	SIGNED	0	STIW2R	"110" ATOMSERVICE (Resource) id
(4)	SIGNED	0	STIIIR	"111" Requestmodel (Resource) id
(4)	SIGNED	0	STIDHD	"112" Doctemplate (Resource) id
(4)	SIGNED	0	STIMLR	"113" XMLTRANSFORM (Resource) id
(4)	SIGNED	0	STIEJR	"114" CorbaServer (Resource) id

Table 598. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	SIGNED	0	STIEJB	"115" Bean stats (Resource) id
(4)	SIGNED	0	STISJS	"116" JVMSERVER stats (Resource) id
(4)	SIGNED	0	STISJG	"117" JVMPOOL stats (Global) id
(4)	SIGNED	0	STISJR	"118" JVMPROFILE stats (Resource) id
(4)	SIGNED	0	STIPGR	"119" JVMPROGRAM stats (Resource) id
(4)	SIGNED	0	STIPGD	"120" PROGRAMDEF stats (Resource) id
(4)	SIGNED	0	STIECG	"140" EVENTBINDINGs (Global) id
(4)	SIGNED	0	STIECR	"141" EVENTBINDINGs (Resource) id
(4)	SIGNED	0	STIEPG	"142" EVENTPROCESS (Global) id
(4)	SIGNED	0	STIECC	"143" CAPTURESPECs (Resource) id
(4)	SIGNED	0	STIEPR	"144" EPADAPTERs (Resource) id
(4)		0	STIEND	"*"
(4)		0	STICLEN	"*-STILEN" Length of DSECT

TACB Transaction abend control block

```
CONTROL BLOCK NAME = DFHTACBS
DESCRIPTIVE NAME  = CICS Transaction Abend Control Block
@BANNER_START 02
                    DFHTACBS
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
FUNCTION =
A Transaction Abend Control Block is built, usually by DFHPCP,
when abend processing is performed. It contains details of the
abend, such as the abend code. The address of
the latest TACB for a task is in TCAPCACB in the TCA. If
multiple abends occur, one TACB per abend is built.
TACBs are chained together using ABNDNXT in the TACB.
Note that for ASRA, ASRB, ASRD and AICA abends the TACB is
built by DFHSRP, so we can capture (1) the PSW and registers at
the time of the program check, MVS abend or runaway, and (2)
the diagnostics provided by DFHSRP such as storage hit
by 0C4, and offset of program check or MVS abend in program.
Note that abends in a remote DPL server program are re-issued
```

with the same abend code on the local system. The PSW and
registers are not valid for such re-issued abends, and the TACB
contains a REMOTE eyecatcher to indicate this. The TACB for
such abends is built by DFHEPC.

Table 599.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	612	DFHABND	Transaction Abend Control Block
(0)	CHARACTER	8	*	Eyecatcher information
(0)	HALFWORD	2	ABNDSAAC	- Length of dsect.
(2)	CHARACTER	1	ABNDSAAS	- Arrow(>)
(3)	CHARACTER	5	ABNDSAAL	- DSECT name ('TACB ')
(8)	ADDRESS	4	ABNDNXT	A(NEXT TACB) OR 0
(C)	HALFWORD	2	*	RESERVED
(E)	CHARACTER	2	ABNDFLGS	
(E)	CHARACTER	1	ABNDFLG1	- VALID FIELDS
	1...		ABNDREQI	- REQUEST ID
	.1..		ABNDNXTI	- NEXT TACB
	..1.		ABNDRSRI	- FAILING RESOURCE
	...1		ABNDPRGI	- FAILING PROGRAM
	.... 1...		ABNDREGI	- ABEND REGISTERS
	.... .1..		ABNDSNSI	- SENSE BYTES
	.... ..1.		ABNDMSGI	- A(MESSAGE)
	1		ABNDSYSI	- SYSID
(F)	CHARACTER	1	ABNDFLG2	- VALID FIELDS
	1...		ABNDRABD	- LOWER LEVEL ABEND
	.1..		ABNDCDE	- ABEND CODE SET
	..1.		ABNDOCDE	- OP SYS AB CODE SET
	...1		ABNDREMT	- RE-ISSUING AN ABEND THAT ORIGINATED IN DPL SERVER PROGRAM
	.... 1...		ABNDIGNORE	- IGNORE HANDLES
	.... .1..		ABNDSTART	- ABEND RECORD COMPLETE, START_ABEND ISSUED
	.... ..1.		ABNDDMP	- DUMP REQUESTED
	1		ABND_DUMP_ TAKEN	- dump taken

Table 599. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	CHARACTER	8	ABNDNAME	'DFHTACB' EYECATCHER
(18)	CHARACTER	4	ABNDSTAT	STATUS FLAGS
(18)	BIT(8)	1	ABNDSYAB	- CONTENTS OF TCASYABI
(19)	BIT(16)	2	ABNDPCTR	- CONTENTS OF TCAPCTR
(1B)	BIT(8)	1	ABNDCAXI	- CONTENTS OF TCAPCAXI
(1C)	CHARACTER	4	ABNDCODE	ABEND CODE
(20)	CHARACTER	8	ABNDPRG	FAILING PROGRAM
(20)	CHARACTER	8	ABNDPGM	- ALIAS
(28)	CHARACTER	4	ABNDREQ	REQUEST ID
(2C)	CHARACTER	8	ABNDRSRC	FAILING RESOURCE
(34)	CHARACTER	4	ABNDSYST	IF ABNDREMT IS SET, THIS FIELD CONTAINS THE SYSID OF THE SYSTEM FROM WHICH THE DPL SERVER ABEND WAS RECEIVED
(38)	ADDRESS	4	ABNDSETX	SETXIT FLAGS/ADDRESS
(3C)	CHARACTER	4	ABNDSENS	SENSE BYTES
(3C)	BIT(8)	1	ABNDSSN1	- SYSTEM SENSE 1
(3D)	BIT(8)	1	ABNDSSN2	- SYSTEM SENSE 2
(3E)	BIT(8)	1	ABNDUSN1	- USER SENSE 1
(3F)	BIT(8)	1	ABNDUSN2	- USER SENSE 2
(40)	CHARACTER	6	*	ERROR MESSAGE DATA
(40)	ADDRESS	4	ABNDAMSG	- A(ERROR MESSAGE)
(44)	HALFWORD	2	ABNDMLEN	- L(ERROR MESSAGE)
(46)	CHARACTER	2	*	EXTRA ASRA/ASRB INFO
(46)	UNSIGNED	1	ABNDKEY	- EXECUTION KEY N AT ABEND, HELD IN FORM X'N0'. (ASRA AND ASRB)
(47)	UNSIGNED	1	ABNDSTG	- STORAGE TYPE HIT BY 0C4. (ASRA ONLY)
(48)	CHARACTER	4	ABNDOCOD	OP SYS ABEND CODE

Table 599. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	FULLWORD	4	ABNDOFF	OFFSET OF ERROR IN FAILING PROGRAM. 'FFFFFFFF' MEANS ERROR OCCURRED OUTSIDE PROG. (ASRA, ASRB, ASRD)
(50)	CHARACTER	152	*	
(50)	CHARACTER	8	ABNDPSNM	'regs&psw' EYECATCHER
(58)	CHARACTER	64	ABNDGPRS	GP REGISTERS 0 - 15 ON ENTRY TO ABEND
(58)	CHARACTER	64	ABNDREGS	
(58)	FULLWORD	4	ABNDREGX (15:130376312)	
(98)	CHARACTER	64	ABNDGPRH	GP REGISTERS 0 - 15 - HIGH WRDS ON ENTRY TO ABEND
(98)	CHARACTER	64	ABNDREGH	
(98)	FULLWORD	4	ABNDRGXH (15:130376312)	
(D8)	CHARACTER	8	ABNDPSW	EC MODE PSW ON ENTRY TO ABEND (ASRA, ASRB, ASRD, AICA)
(E0)	CHARACTER	8	ABNDINT	ADDITIONAL EC MODE INFO (ASRA, ASRB, ASRD, AICA)
(E8)	CHARACTER	32	ABNDFPRS	FP REGISTERS 0,2,4,6 (ASRA, ASRB, ASRD, AICA)
(E8)	CHARACTER	8	ABNDFPR0	- FP REGISTER 0
(F0)	CHARACTER	8	ABNDFPR2	- FP REGISTER 2
(F8)	CHARACTER	8	ABNDFPR4	- FP REGISTER 4
(100)	CHARACTER	8	ABNDFPR6	- FP REGISTER 6
(108)	CHARACTER	64	ABNDACRS	Access registers
(108)	FULLWORD	4	ABNDACREGS (15:130365624)	
(148)	CHARACTER	4	ABNDALET	ALET at time of abend
(14C)	CHARACTER	8	ABNDSTOKEN	STOKEN at time of abend *
(154)	CHARACTER	1	ABNDSPACE	space (basespace/subspace * at time of abend as passed on ABAB interface

Table 599. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(155)	CHARACTER	1	ABNDFLGX	
(155)	CHARACTER	1	ABNDFLG3	- VALID FIELDS
	1...		ABNDREGV	- ABEND REGISTERS - HIGH *
	.1..		ABNDGPR64A	64 bit general register values on entry to abend available
	..1.		ABNDAFPRA	Additional FP register values on entry to abend available
	...1		ABNDGPR32A	32 bit general register values on entry to abend available
	.... 1...		ABNDOFPRA	Original floating point register (0, 2, 4 & 6) values on entry to abend available
	.... .1..		ABNDACRA	Access register values on entry to abend available
	.... ..1.		ABNDAFPCA	FPC register value on entry to abend available
	1		*	- RESERVED
(156)	CHARACTER	2	*	reserved
(158)	CHARACTER	8	ABNDBEAR	Breaking Event Address
(160)	CHARACTER	128	ABNDGPR64	
(160)	CHARACTER	8	ABNDREG64 (15:130365624)	64 bit general register (0-15) values on entry to abend, if ABNDGPR64A on
(1E0)	CHARACTER	132	ABNDAFPR	Additional floating point
(1E0)	CHARACTER	8	ABNDAFPREGS (15:130383544)	values (0-15) on entry to abend, if ABNDAFPRA on
(260)	FULLWORD	4	ABNDFPCR	Floating point control register value on entry to abend, if ABNDAFPRA on
(264)	CHARACTER	0	ABNDMSGT	MESSAGE TEXT (IF ANY)

Constants

Table 600.

Len	Type	value	Name	Description
	ABNDSTG values			
1	DECIMAL	0	ABNDNOHIT	No hit or not 0C4
1	DECIMAL	1	ABNDCDSA	CDSA hit
1	DECIMAL	2	ABNDECDSA	ECDSA hit
1	DECIMAL	3	ABNDERDSA	ERDSA hit
1	DECIMAL	4	ABNDRDSA	RDSA hit
1	DECIMAL	5	ABNDEUDSA	EUDSA hit
1	DECIMAL	6	ABNDUDSA	UDSA hit
	ABNDKEY values			
1	DECIMAL	144	ABNDUSERKEY	USER key x'90'
1	DECIMAL	128	ABNDCICSKEY	CICS key x'80'

TACLE Terminal abnormal condition line entry

```
CONTROL BLOCK NAME = DFHTCTLE
DESCRIPTIVE NAME  = CICS Terminal Abnormal Condition Line
Entry
    @BANNER_START 02
                    DFHTACLE
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION =
            Terminal Control Table Line Entry Prefix.
```

Table 601.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTCTLE	DUMMY SECTION - LINE PREFIX
(0)	FULLWORD	4	TCTLEPSA	Storage accounting area
(4)	FULLWORD	4	TCTLEPCH	Error chain pointer
	TERMINAL ERROR CODES			
(8)	CHARACTER	1	TCTLEPFL	Error flags
(8)	BITSTRING	0	TCECTIO	"X'01'" Terminal I/O error code
(8)	BITSTRING	0	TCEMCMTL	"X'81'" Message too long error code
(8)	BITSTRING	0	TCEMCTCT	"X'84'" TCT search error code
(8)	BITSTRING	0	TCEMCROT	"X'85'" Output rejected - read only
(8)	BITSTRING	0	TCEMCUI	"X'87'" Unsolicited input on control UN
(8)	BITSTRING	0	TCEMCIER	"X'88'" Input event rejected error code

Table 601. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	BITSTRING	0	TCEMCOER	"X'8C'" Output event rejected code
(8)	BITSTRING	0	TCEMCOLZ	"X'8D'" Output length of zero error
(8)	BITSTRING	0	TCEMCNOA	"X'8E'" No output area error code
(8)	BITSTRING	0	TCEMCOAE	"X'8F'" Output area exceeded error code
(8)	BITSTRING	0	TCEMCUC	"X'94'" Unit check
(8)	BITSTRING	0	TCEMCUCS	"X'95'" Unit check - should not occur
(8)	BITSTRING	0	TCEMCUE	"X'96'" Unit exception
(8)	BITSTRING	0	TCEMCUES	"X'97'" Unit exception should not occur
(8)	BITSTRING	0	TCEMCUDT	"X'99'" Undetermined unit error
(8)	BITSTRING	0	TCEMIDR	"X'9F'" Invalid DEST -- TCAM return
(9)	CHARACTER	1	TCTLEPF2	Flags 2
(9)	BITSTRING	0	TCEIDTD	"X'01'" Dummy term displacement indicator
(9)	BITSTRING	0	TCEIRE	"X'02'" Repeating error indicator
(9)	BITSTRING	0	TACCUER	"X'04'" Control unit error flag
(9)	BITSTRING	0	TACNPRO	"X'08'" Non-process error flag
(9)	BITSTRING	0	TCTECHLE	"X'10'" Error chain last entry flag
(9)	BITSTRING	0	TACNTEP	"X'20'" Last TEP call indicator
(A)	HALFWORD	2		Reserved
(C)	FULLWORD	4	TCTLEPTE	Terminal entry address
(C)		0	TCTLEPRE	"*-DFHTCTLE" Prefix length

TCADY Task Control Area - System Area

```
DESCRIPTIVE NAME  = TASK CONTROL AREA - SYSTEM AREA
FUNCTION = The DFHTCADY structure is repeated to provide
           the offsets when it is addressed separately.
```

Table 602.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	384	DFHTCADY	

Table 602. (continued)

Offset Hex	Type	Len	Name (dim)	Description
SYSTEM AREA				
(0)	CHARACTER	0	DFHSYTCA	
(0)	CHARACTER	8	TCACPROG	Current program name
TASK CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSKC DESCRIPTIVE NAME = CICS DFHKC system overlay of the DFHTCA @BANNER_START 02 DFHTCSKC Licensed Materials - Property of IBM "Restricted Materials of IBM" 5655-S97 @BANNER_END				
(8)	CHARACTER	4	TCATXNUM	TXN MGR transaction num
(8)	BIT(8)	1	*	X'00'
(9)	CHARACTER	3	TCAKCTTA	TASK IDENTIFICATION NUM
(C)	CHARACTER	8	TCASPOOL	TCA subpool id
(14)	ADDRESS	4	*	Reserved
(18)	ADDRESS	4	TCARSTSK	RESUME TASK'S T C A ADDRESS
(1C)	ADDRESS	4	TCADWLBA	DEFERRED WORK LIST BEGIN ADDRESS
INTERVAL CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSIC DESCRIPTIVE NAME = CICS DFHIC System Overlay of the DFHTCA @BANNER_START 02 DFHTCSIC Licensed Materials - Property of IBM "Restricted Materials of IBM" 5655-S97 @BANNER_END INTERVAL CONTROL SECTION				
(20)	ADDRESS	4	TCAICEAD	INTERVAL CONTROL ELEMENT ADDRESS
(24)	ADDRESS	4	*	Reserved
PROGRAM CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSPC DESCRIPTIVE NAME = CICS Section used by PROGRAM CONTROL @BANNER_START 02 DFHTCSPC Licensed Materials - Property of IBM "Restricted Materials of IBM" 5655-S97 @BANNER_END				

Table 602. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	ADDRESS	4	TCAPCSA	Head of chain of PESAs used to stack ap info over a link
(2C)	CHARACTER	12	TCAPCTWA	PROGRAM CONTROL WORK AREA
(2C)	ADDRESS	4	*	Reserved
(30)	ADDRESS	4	TCAPCHS	HIGH-LEVEL-LANGUAGE SAVE AREA ADDRESS
TCAPCDSA IS THE HEAD OF THE CHAIN OF DYNAMIC STORAGE USED BY APPLICATION PROGRAMS TO MAKE THEM REENTRANT. FOR PL/I IT IS THE CHAIN OF PL/I DSA'S FOR COBOL IT IS THE TGT AND(FOR EXEC)WS FOR ASSEMBLER(EXEC ONLY) IT IS THE DFHEISTG STORAGE HEADER FOR RPG IT IS THE ENTIRE PROGRAM				
(34)	ADDRESS	4	TCAPCDSA	DYNAMIC STORAGE HEADER ADDRESS
(38)	ADDRESS	4	TCALEDT	Address of data to be
added to the transaction dump				
(3C)	CHARACTER	8	TCAPCIPN	Name of invoking program after DPL from client
TRANSIENT DATA SECTION				
CONTROL BLOCK NAME = DFHTCSTD DESCRIPTIVE NAME = CICS DFHTD system overlay of the DFHTCA @BANNER_START 02 DFHTCSTD Licensed Materials - Property of IBM "Restricted Materials of IBM" 5655-S97 @BANNER_END TRANSIENT DATA SECTION				
(44)	ADDRESS	4	TCAIDAA	INTRAPARTITION DATA AREA
BASIC MAPPING SUPPORT				
CONTROL BLOCK NAME = DFHTCSBM DESCRIPTIVE NAME = CICS DFHBMS System Overlay of the DFHTCA @BANNER_START 02 DFHTCSBM Licensed Materials - Property of IBM "Restricted Materials of IBM" 5655-S97 @BANNER_END BASIC MAPPING SUPPORT				
(48)	ADDRESS	4	TCAOSPWA	OUTPUT SERVICE PROCESSOR WORK AREA ADDRESS (BMS)
(4C)	CHARACTER	3	*	Reserved
(4F)	BIT(8)	1	TCADLII	DL/I INDICATOR

Table 602. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		TCADLISI	DL/I SCHEDULING INITIATED
	.111 1111		*	Reserved
RECOVERY / RESTART SECTION				

CONTROL BLOCK NAME = DFHTCSSP
DESCRIPTIVE NAME = CICS DFHSP SYSTEM OVERLAY OF THE DFHTCA
 @BANNER_START 02
               DFHTCSSP
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
     RECOVERY / RESTART SECTION				

(50)	BIT(8)	1	TCAZLUWD	TASK'S LOGICAL UNIT OF WORK (LUW) DEFINITION
	1...		TCAZAKPT	Activity keypoint
	.111 1111		*	Reserved
(51)	BIT(8)	1	TCAZLUWT	TASK'S LUW STATUS
	1...		TCAZRRD	A READ HAS OCCURRED IN THIS LUW
	.1..		TCAZRWRT	A WRITE HAS OCCURRED IN THIS LUW
	..1.		TCAZINDT	Next SHUNT is 'in-doubt'
	...1 1...		*	Reserved
	.... .1..		TCAZDLIC	DL/I-SYNCHRONOUS 4 COMMUNICATION ESTABLISHED
	11		*	Reserved
(52)	BIT(8)	1	TCABRPS	Rollback status
	1...		*	RESERVED
	.1..		TCATXBCK	TEXCI BACKOUT
	..1.		TCABRPSR	Backout-Reqd prog state
	...1 1111		*	Reserved
(53)	CHARACTER	1	*	Reserved
(54)	ADDRESS	4	TCADWASV	SAVE ADDR OF DWE CHN.
(58)	CHARACTER	12	*	Reserved
(64)	CHARACTER	4	TCAORABC	ORIGINAL ABEND CODE
(64)	CHARACTER	4	TCADBABC	ABEND CODE OF APPLICATION.

Table 602. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(68)	BIT(8)	1	TCATRTO	TERMINAL READ TIME OUT VALUE
(69)	BIT(8)	1	TCAFLAGS	MISCELLANEOUS FLAGS
	1...		*	Reserved
	.1..		TCANOTRC	SUPPRESS TRACE FOR TASK
	..1.		*	Reserved
	...1		TCASZUSE	FEPI Access in Task
	.... 1...		*	Reserved
	.... .1..		TCAUKCAL	MAKE CALL IN USER KEY
	11		*	Reserved
(6A)	BIT(8)	1	TCASCS	SCREEN SIZE SELECTION ETC
	1...		TCAFASTL	FAST LINK to DFHMIRS
	.111		*	
	.... 1...		TCASCSA	ALTERNATE SCREEN SIZE
	.... .1..		*	
	.... ..1.		TCAPRTCM	BMS TEXT PRINTER COMPATIBILITY
	1		TCATCABT	DFHACP abending flag
(6B)	BIT(8)	1	TCAIRTCD	INTER REGION RETURN CODE
(6C)	ADDRESS	4	TCARLB	Address of TMP lock block
(70)	ADDRESS	4	TCAEMSSV	SAVE AREA FOR DFHEMS
(74)	CHARACTER	3	*	Reserved
(77)	BIT(8)	1	TCAEISFL	EXEC CICS I/F FLAG
(78)	ADDRESS	4	TCAEISA	EXEC CICS I/F STRUCT ADDR
(7C)	ADDRESS	4	TCACAAAD	LE/370 Anchor Address
(80)	ADDRESS	4	TCACEEPT	LE/370 Parameter List Address *
(84)	ADDRESS	4	TCAREGPT	EXEC CICS registers
(88)	ADDRESS	4	TCAIIIRE	III task return addr
(8C)	ADDRESS	4	*	Reserved
(90)	FULLWORD	4	TCAXXTCB	XPTCB or SJTCB blk addr

Table 602. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(94)	ADDRESS	4	*	Reserved
(98)	CHARACTER	4	TCAKCTTI	Assigned transaction id
(9C)	ADDRESS	4	TCATCUCN	TCTTE USER CHAIN FIELD.
(A0)	ADDRESS	4	TCAXFS23	XFSTG FOR TRANSFORMATION 2 AND 3
(A4)	ADDRESS	4	TCARSBA	ADDRESS OF REMOTE SCHEDULING BLOCK
(A8)	CHARACTER	4	TCAKCOID	ID WHICH ORIGINATED TASK
(AC)	BIT(8)	1	TCADLIST	DLI STATUS INFORMATION
	1...		TCAUIBAQ	UIB ACQUIRED
	.111		*	Reserved
	.... 1...		TCAEXDLI	EXEC DLI
	.... .1..		*	Reserved
	.... ..1.		TCAREMOT	REMOTE
	1		TCADBCTL	DBCTL
(AD)	CHARACTER	2	TCAACMSG	DFHACP MSG NUMBER
(AF)	BIT(8)	1	TCAAPFLG	AP DOMAIN FLAGS @BA81573C
	1...		TCARSREQ	RESUME REQUIRED
	.1..		TCAXMSOT	APXMI should invoke APXM
	..1.		TCAROUTE	Transaction route attach has been sent to a remote CICS system
	...1 1111		*	Reserved
(B0)	CHARACTER	3	*	Reserved
(B3)	BIT(8)	1	TCAAAM	APPLICATION ADDRESSING MODE NB BITS 1 - 6 OF BYTE TCAAAM MUST BE ZERO
	1...		TCAAAM31	31-BIT MODE
	.1..		TCAAAM64	64-BIT MODE
(B4)	ADDRESS	4	*	Reserved
(B8)	CHARACTER	4	TCACRABC	CURRENT ABEND CODE

Table 602. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B8)	CHARACTER	4	TCAPCABC	CURRENT ABEND CODE
(BC)	CHARACTER	3	*	Reserved
(BF)	CHARACTER	1	TCAIACB	ABEND CONTROL BLOCK STATUS *
(C0)	ADDRESS	4	TCAPCACB	ABEND CONTROL BLOCK ADDRESS
(C4)	CHARACTER	4	TCASENSE	SENSE FIELDS
(C4)	CHARACTER	2	TCASS1	SYSTEM SENSE
(C6)	CHARACTER	2	TCAUS1	USER MSG NO.
(C8)	ADDRESS	4	TCATIEBA	TIE CHAIN FOR API ROUTER
(CC)	ADDRESS	4	TCADMTLA	ADDRESS OF CSD MANAGER TASK LOCAL STORAGE
(D0)	FULLWORD	4	TCATRRC	Transaction Routing RC
(D4)	CHARACTER	3	*	Reserved
(D7)	CHARACTER	5	TCAJVM	JVM information
(D7)	BIT(8)	1	TCACJVMF	DFHCJVM flags
	1...		TCAFURM	Fetching URM DFHJVMAT
	.1..		TCACURM	Calling URM DFHJVMAT
	..1.		TCAJVMXT	System.exit from JVM
	...1 1111		*	Reserved
(D8)	CHARACTER	4	TCAJVMTK	Token for JVM instance
(DC)	ADDRESS	4	TCAPCXA	PROGRAM LOAD POINT ADDRESS
(E0)	CHARACTER	8	TCATRRSN	RESOURCE NAME
BASIC MAPPING SUPPORT FAST PATH FIELDS.				
(E8)	CHARACTER	8	TCABMMSN	SUFFIXED NAME OF MOST RECENTLY LOADED BMS MAPSET
(F0)	ADDRESS	4	TCABMMSA	ADDRESS OF MOST RECENT BMS MAPSET
(F4)	CHARACTER	1	TCABMMW	WIDTH OF MOST RECENT BMS MAP
(F5)	CHARACTER	1	TCABMMH	HEIGHT OF MOST RECENT BMS MAP
(F6)	CHARACTER	1	TCABMMC	COLUMN POSITION MOST RECENT BMS MAP

Table 602. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F7)	CHARACTER	1	TCABMML	LINE POSITION MOST RECENT BMS MAP
	LU6.2 INFORMATION			
(F8)	ADDRESS	4	TCAALUCX	ADDRESS OF LU6.2 EXTENSION
(FC)	FULLWORD	4	TCATMRLP	TMP read lock list addr.
(100)	CHARACTER	4	TCAICREQ	REQID from an IC START
	TASK CONTROL - TABLE MANAGER INTERFACE			
(104)	BIT(8)	1	TCAALFLG	Flag byte used by DFHALP
	1...		TCAALRES	A RESUME is required
	.111 1111		*	Reserved
(105)	CHARACTER	3	*	Reserved
(108)	ADDRESS	4	TCADOMPM	USED as plist addr
(10C)	CHARACTER	8	*	Reserved
(114)	CHARACTER	8	TCATRIDQ	TRACE ID QUALIFIER
	TRANSIENT DATA			

	CONTROL BLOCK NAME = DFHTC2TD
	DESCRIPTIVE NAME = CICS DFHTD system overlay of the DFHTCA
	 @BANNER_START 02
	                DFHTC2TD
	 Licensed Materials - Property of IBM
	 "Restricted Materials of IBM"
	 5655-S97
	 @BANNER_END
	            TRANSIENT DATA - NEW 1.7 FIELDS			

(11C)	CHARACTER	4	TCADSTID	TRANSIENT DATA DESTID
	SPECIAL FEATURES			
(120)	ADDRESS	4	TCAPSDBA	BASE POINTER FOR TASK PDB CHAIN FOR MVS *
(124)	CHARACTER	2	*	Reserved
	Transaction Routing parameters (DFHAPRT->DFHZIS2) & ATI routing for PF starts			
(126)	BIT(8)	1	TCAAPRTF	Transaction Routing parameter flags
	1...		TCAPRIP	Priority is to be passed to the AOR
	.1..		TCASYSNP	Applid present
	..1.		TCARTST	Routable start

Table 602. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		TCATRMNP	Terminal netname present
	 1111		*	Reserved
(127)	UNSIGNED	1	TCATRPRI	Priority value to pass to AOR
(128)	ADDRESS	4	TCADSBA	DBCTL SCHEDULING BLOCK ADDRESS *
(12C)	CHARACTER	4	TCADLUIB	USER INTERFACE BLOCK (UIB) *
(12C)	ADDRESS	4	TCADLIBA	UIB ADDRESS
(130)	ADDRESS	4	TCAAPRET	return address for DETACH
(134)	CHARACTER	8	TCAPLAN	DB2 plan in use if any
(13C)	CHARACTER	8	TCATRMNE	Terminal netname
(144)	CHARACTER	4	TCASUTOK	suspend/resume token for general AP use
(148)	ADDRESS	4	TCAEIUSA	A(EIUS). The user part of the EXEC CICS interface structure
(14C)	CHARACTER	8	TCASYSNE	Applid of owning Terminal
CPI-C				
(154)	ADDRESS	4	TCACPCCN	base pointer for CPC chain
(158)	ADDRESS	4	TCATRU24	Head of TRUE save area
(15C)	CHARACTER	1	TCAFCNOM	Copy of FCN OLDMODE
(15D)	CHARACTER	3	*	Reserved
FIELDS FOR USE BY DFHSRP (24 BYTES)				
(160)	CHARACTER	24	TCASRDAT	Fields for SRP use only
(160)	CHARACTER	8	TCASRPGM	Name of abended program
(168)	CHARACTER	8	TCASRPCD	Kernel error code xxx/yyyy
(168)	CHARACTER	3	TCASYABD	xxx
(16B)	CHARACTER	1	*	/
(16C)	CHARACTER	4	TCATRABD	yyyy
(170)	FULLWORD	4	TCASROFF	Offset of abend in program

Table 602. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(170)	ADDRESS	4	TCAKEDAD	-> Kernel error data copy
(174)	BIT(8)	1	TCASRFLG	SRP flag byte
	1...		TCASRDMP	System dump required
	.1..		TCAEMSIC	EMS deliberate prog check
	..1.		TCACELCK	LIP deliberate prog check
	...1		TCASRPLI	PCP deliberate prog check
	.... 1...		TCASRAP	AP0001 abend issued by DFHSRP
	.... .1..		TCACHKAD	EDF DELIBERATE ABEND
	.... ..1.		TCAFCNFO	FCN abend on FO TCB
	1		TCACNCHK	Channel storage check ... ... in progress
(175)	UNSIGNED	1	TCASRLOC	Abend in application?
(176)	BIT(16)	2	TCASREXC	EXC trace point id
FIELDS FOR THE REMOTE SYSTEM AND TRANSACTION NAMES				
(178)	CHARACTER	4	TCARMTRA	Remote Transaction name
(17C)	CHARACTER	4	TCARMSYS	Remote System name
END OF SYSTEM AREA				
(180)	CHARACTER	0	TCAEND	T C A STORAGE AREA DISPLACEMENT

TCA Task Control Area

```
CONTROL BLOCK NAME = DFHTCAPS
DESCRIPTIVE NAME  = CICS TASK CONTROL AREA
 @BANNER_START 02
                    DFHTCAPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = The DFHTCAPS copybook declares the structure
           for the TASK CONTROL AREA (TCA). The TCA is the
           primary control block used by CICS to represent a
           transaction within AP domain.
           The TCA is a single area of storage described
           by structure DFHUSTCA. However, it is also
           possible to access the TCA as two separate
           structures, DFHUSTCA (User area) and DFHTCADY
           (System area). Field TCASYAA in DFHUSTCA
           contains the address of DFHTCADY, for this purpose.
           When reading code that deals with TCA fields, it is
```

```
                       important to know which method of access is used.
            NOTES :
             DEPENDENCIES = S/370
             RESTRICTIONS = NONE
             REGISTER CONVENTIONS = NOT APPLICABLE
             PATCH LABEL = NOT APPLICABLE
             MODULE TYPE = COPY
             MODULE SIZE = NOT APPLICABLE
             ATTRIBUTES = NOT APPLICABLE
                                       : and REMOVE TCAASRD
            PRODUCT-SENSITIVE PROGRAMMING INTERFACE
            The following field forms part of the Product-Sensitive
            Programming Interface:
            TCAICTR
```

Table 603.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	640	DFHUSTCA	
TASK CONTROL AREA				
(0)	ADDRESS	4	TCASYAA	T C A SYSTEM AREA ADDRESS
(4)	BIT(8)	1	TCAXMSRF	XM secondary request flags *
	1...		TCAENQ31	1 - ENQ arg is above the line * 0 - ENQ arg is below the line
	.1..		TCAENQTA	1 - MAXLIFETIME=TASK 0 - MAXLIFETIME=LUW
(5)	UNSIGNED	1	TCATCQL4	ENQ arg len (31 bit args)
(5)	UNSIGNED	1	TCATCQLN	ENQ arg len (24 bit args)
(6)	UNSIGNED	1	TCAGFLG1	TCA general flag1
	1...		TCAACPAC	DFHACP active for WEB
	.1..		TCASDTSK	Shutdown task
	..11 1111		*	Reserved
(7)	BIT(8)	1	TCAFCI	facility control indicator x'00' indicates NONE.
	111.		*	Reserved
	...1		TCAFCAID	AID FACILITY MASK.
	.... 1...		TCAFCDCM	Destination Control indicator *
	.... .1..		TCAFCICM	Interval Control indicator *
	.... ..1.		TCAFCMCM	K C P MACRO FILE MASK
	1		TCAFCTRM	Terminal Control indicator *

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	ADDRESS	4	TCAFCAAA	FACILITY CONTROL AREA ADDRESS, CONTENTS RELATED TO THE SYSTEM OR TASK-DEPENDENT FACILITY ASSOCIATED WITH THE TASK
(8)	ADDRESS	4	TCAFCPTR	facility control area address *
(C)	ADDRESS	4	TCACSOAD	A(CSA OPTIONAL FEATURES LIST)
(10)	ADDRESS	8	TCALCDSA	A(CURRENT KERNEL STACK ENTRY)
	TASK CONTROL SECTION			
(18)	CHARACTER	0	TCAKCPBA	
(18)	CHARACTER	4	TCATCTFA	TCTTE ADDRESS,DCI=TERMINAL
(18)	CHARACTER	4	TCATCEA	TASK CONTROL EVENT CONTROL BLOCK ADDRESS
(18)	ADDRESS	4	TCATCQA4	ENQ arg addr (31 bit)
(18)	ADDRESS	4	TCATCQA	ENQ arg addr (24 bit)
(1C)	CHARACTER	1	TCATCEI	TASK CONTROL EVENT CONTROL INDICATOR
(1C)	BIT(8)	1	TCATCDC	TASK CONTROL DISPATCH CONTROL INDICATOR MASK MASK ABEND REQUESTED
(1D)	BIT(8)	1	TCATCTR	TASK CONTROL TYPE OF REQUEST
	111.		*	Reserved
	...1		TCATOM	Attach request
	 1111		*	Reserved
(1E)	CHARACTER	1	*	Reserved
(1F)	CHARACTER	1	TCAPCABR	PROGRAM CONTROL TASK ABEND REQUEST
(1F)	BIT(8)	1	TCAPCDMP	PROGRAM CONTROL TASK DUMPED INDICATOR
(20)	BIT(8)	1	TCAPURGI	TASK PURGE INDICATOR

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		*	Reserved (was TCATPURG)
	.1..		TCASPURG	system purgeable mask
	..11 1...		*	Reserved
	.... .1..		TCAJOURN	Journalling in control
	11		*	Reserved (was TCASTGFZ)
(21)	CHARACTER	2	*	Reserved
(23)	BIT(8)	1	TCASYABI	SYSTEM ABEND REQUEST INDICATOR
	1...		TCAABIPM	ABEND IN PROGRESS MASK used during task termination
	.1..		TCAABREC	ABEND RECOVERY IN PROGRESS * used to detect looping abends
	..1.		TCAABDPM	ABEND DUMP IN PROGRESS MASK
	...1		TCAABRAM	RECURSIVE ABEND MASK
	.... 11..		*	Reserved
	.... ..1.		TCAA0C4	HANDLING 0C4 ABEND
	1		*	Reserved
Miscellaneous				
(24)	CHARACTER	0	*	
(24)	CHARACTER	4	TCATXNO	XM supplied txn number
(28)	CHARACTER	4	TCASVTRN	TRANSID saved
(2C)	BIT(8)	1	TCASAVE1	
	1...		TCASVEFT	Facility type saved
	.111 1111		*	
(2D)	BIT(8)	1	TCAJDBC	Used by JDBC syncpoints
	1...		TCASYNCP	Syncpoint has occurred
	.1..		TCAROLLB	Rollback has occurred
	..11 1111		*	
(2E)	HALFWORD	2	TCAECSEQ	Event capture seq. no.
STORAGE CONTROL SECTION				

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
CONTROL BLOCK NAME = DFHTCUSC DESCRIPTIVE NAME = CICS DFHSC USER OVERLAY OF THE DFHTCA @BANNER_START 02 DFHTCUSC Licensed Materials - Property of IBM "Restricted Materials of IBM" 5655-S97 @BANNER_END				
(30)	ADDRESS	4	TCASCSA	ADDRESS OF STORAGE AFTER IT HAS BEEN OBTAINED BY STORAGE CONTROL AND INITIALIZED TO REQUESTED CONFIGURATION
(34)	BIT(8)	1	TCASCTR	STORAGE CONTROL TYPE OF REQUEST
	1...		TCASCGET	Getmain request
	.1..		TCASCFRE	Freemain request
	..11 1...		*	Reserved
	.... .1..		TCASCUSR	User storage freemain
	11		*	Reserved
(35)	CHARACTER	1	TCASCIB	VALUE TO WHICH STORAGE IS TO BE INITIALIZED: ZERO, BLANKS, ETC.
(36)	UNSIGNED	2	TCASCNB	16-BIT UNSIGNED BINARY INTEGER REPRESENTING NUMBER OF BYTES REQUESTED FOR NON-PROGRAM STORAGE OR NUMBER OF DOUBLEWORDS REQUESTED FOR PROGRAM STORAGE.
	REGISTER STORAGE			
(38)	ADDRESS	4	TCASCRS (4294967304:263675720)	STORAGE CONTROL REGISTER STORAGE AREA: STORES REGISTERS 14 - 5
	COMMON CONTROL			

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	FULLWORD	4	TCACCCA (4294967309:263675720)	common control communication area used by some AP Domain modules as a parameter area *
(8C)	FULLWORD	4	TCACCRS (4294967301:263675720)	common control register save area used by some AP Domain modules.
(A0)	ADDRESS	8	TCARTNSV	Internal return register save area
(A8)	ADDRESS	8	TCALGR1	Save area for R1 and
(B0)	ADDRESS	8	TCALGR14	R14 in DFHLFM UNSTACK
(B8)	FULLWORD	4	* (4294967299:263675720)	Reserved
(C4)	HALFWORD	2	TCACCSV1	SAVE AREA FOR BYTES OVERLAID BY DFHDC
(C6)	HALFWORD	2	*	Reserved
(C8)	FULLWORD	4	TCACCSV2	SAVE AREA FOR BYTES OVERLAID BY DUMP CODE
(CC)	CHARACTER	0	TCACCEA	COMMON CONTROL ENDING ADDRESS
TRACE				
CONTROL BLOCK NAME = DFHTCUTR DESCRIPTIVE NAME = CICS DFHTR USER OVERLAY OF THE DFHTCA @BANNER_START 02 DFHTCUTR Licensed Materials - Property of IBM "Restricted Materials of IBM" 5655-S97 @BANNER_END				
(CC)	CHARACTER	8	TCATRF	Data area 1 and 2
(CC)	FULLWORD	4	TCATRF1	TRACE ENTRY DATA AREA 1
(D0)	FULLWORD	4	TCATRF2	TRACE ENTRY DATA AREA 2
(D4)	BIT(8)	1	TCATRTR	TYPE OF TRACE REQUEST
	11..		TCATRET	Entry type '00' Make trace entry '01' Turn trace off '10' Turn trace on '11' Extended interface
	..1.		TCATRSM	System macro request
	...1		*	Reserved

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	 1111		TCATRST	Request sub-type X'F' Reserved X'E' Reserved X'D' Trace on/off X'C' Reserved X'B' Reserved X'A' Reserved X'9' Reserved
	.... 1...		*	X'8' PP entry X'7' Reserved X'6' Reserved X'5' LIFO exit trace
	.... .1..		TCATRSYS	X'4' System trace X'3' LIFO enter trace
	.... ..1.		TCATRUSE	X'2' User trace
	1		*	X'1' Reserved X'0' Reserved
(D5)	BIT(8)	1	TCATRID	TRACE ENTRY IDENTIFICATION
(D6)	BIT(8)	1	TCATRMF	TCA TRACE CONTROL
	1...		TCATRSI	User trace for single task
	.111 1111		*	Reserved
(D7)	BIT(8)	1	TCATRID1	TRACE ENTRY I.D.EXTENSION
(D8)	ADDRESS	4	TCAEISTG	COMMAND LEVEL ASSEMBLER EXEC STORAGE
(DC)	ADDRESS	4	TCAJCAAD	JOURNAL CONTROL AREA (JCA) ADDRESS
(E0)	ADDRESS	4	TCACSAAD	CSA address
(E4)	FULLWORD	4	*	Reserved
(E8)	FULLWORD	4	*	Reserved
(EC)	ADDRESS	4	TCATWAAD	Address of TWA in User storage *
(F0)	FULLWORD	4	TCATWALN	Length of TWA
(F4)	ADDRESS	4	TCAPCMEA	XPCTA, XPCHAIR, XPCFTCH modified address
(F8)	BIT(8)	1	TCAPCRFL	XPCTA retry execution key
(F9)	BIT(8)	1	TCAPCSTG	Storage hit by ASRA 0C4
(FA)	BIT(8)	1	TCAPCARO	XSRAB abend recovery option
(FB)	BIT(8)	1	TCAMFLAG	Miscellaneous flags
	1...		TCADUPAB	Duplicate abend

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		TCAADPTY	Adapter fields set
	..1.		TCAADPTN	Adapter fields not set
	...1 1111		*	Reserved
(FC)	ADDRESS	4	TCAPRUWA	APLI ruwa pool
(100)	CHARACTER	0	*	End of User area
(100)	CHARACTER	0	DFHTCADY	
	SYSTEM AREA			
(100)	CHARACTER	0	DFHSYTCA	
(100)	CHARACTER	8	TCACPROG	Current program name
	TASK CONTROL SECTION			
CONTROL BLOCK NAME = DFHTCSKC DESCRIPTIVE NAME = CICS DFHKC system overlay of the DFHTCA @BANNER_START 02 DFHTCSKC Licensed Materials - Property of IBM "Restricted Materials of IBM" 5655-S97 @BANNER_END				
(108)	CHARACTER	4	TCATXNUM	TXN MGR transaction num
(108)	BIT(8)	1	*	X'00'
(109)	CHARACTER	3	TCAKCTTA	TASK IDENTIFICATION NUM
(10C)	CHARACTER	8	TCASPOOL	TCA subpool id
(114)	ADDRESS	4	*	Reserved
(118)	ADDRESS	4	TCARSTSK	RESUME TASK'S T C A ADDRESS
(11C)	ADDRESS	4	TCADWLBA	DEFERRED WORK LIST BEGIN ADDRESS
	INTERVAL CONTROL SECTION			

CONTROL BLOCK NAME = DFHTCSIC
DESCRIPTIVE NAME = CICS DFHIC System Overlay of the DFHTCA
 @BANNER_START 02
               DFHTCSIC
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
          INTERVAL CONTROL SECTION				

(120)	ADDRESS	4	TCAICEAD	INTERVAL CONTROL ELEMENT ADDRESS
(124)	ADDRESS	4	*	Reserved
	PROGRAM CONTROL SECTION			

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
CONTROL BLOCK NAME = DFHTCSPC DESCRIPTIVE NAME = CICS Section used by PROGRAM CONTROL @BANNER_START 02 　　　　　　　　　　　DFHTCSPC Licensed Materials - Property of IBM "Restricted Materials of IBM" 5655-S97 @BANNER_END				
(128)	ADDRESS	4	TCAPCSA	Head of chain of PESAs used to stack ap info over a link
(12C)	CHARACTER	12	TCAPCTWA	PROGRAM CONTROL WORK AREA
(12C)	ADDRESS	4	*	Reserved
(130)	ADDRESS	4	TCAPCHS	HIGH-LEVEL-LANGUAGE SAVE AREA ADDRESS
TCAPCDSA IS THE HEAD OF THE CHAIN OF DYNAMIC STORAGE USED BY APPLICATION PROGRAMS TO MAKE THEM REENTRANT. FOR PL/I IT IS THE CHAIN OF PL/I DSA'S FOR COBOL IT IS THE TGT AND(FOR EXEC)WS FOR ASSEMBLER(EXEC ONLY) IT IS THE DFHEISTG STORAGE HEADER FOR RPG IT IS THE ENTIRE PROGRAM				
(134)	ADDRESS	4	TCAPCDSA	DYNAMIC STORAGE HEADER ADDRESS
(138)	ADDRESS	4	TCALEDT	Address of data to be
added to the transaction dump				
(13C)	CHARACTER	8	TCAPCIPN	Name of invoking program after DPL from client
TRANSIENT DATA SECTION				
CONTROL BLOCK NAME = DFHTCSTD DESCRIPTIVE NAME = CICS DFHTD system overlay of the DFHTCA @BANNER_START 02 　　　　　　　　　　　DFHTCSTD Licensed Materials - Property of IBM "Restricted Materials of IBM" 5655-S97 @BANNER_END 　　　　　TRANSIENT DATA SECTION				
(144)	ADDRESS	4	TCAIDAA	INTRAPARTITION DATA AREA
BASIC MAPPING SUPPORT				
CONTROL BLOCK NAME = DFHTCSBM DESCRIPTIVE NAME = CICS DFHBMS System Overlay of the DFHTCA @BANNER_START 02 　　　　　　　　　　　DFHTCSBM Licensed Materials - Property of IBM "Restricted Materials of IBM" 5655-S97 @BANNER_END 　　　　　　BASIC MAPPING SUPPORT				

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(148)	ADDRESS	4	TCAOSPWA	OUTPUT SERVICE PROCESSOR WORK AREA ADDRESS (BMS)
(14C)	CHARACTER	3	*	Reserved
(14F)	BIT(8)	1	TCADLII	DL/I INDICATOR
	1...		TCADLISI	DL/I SCHEDULING INITIATED
	.111 1111		*	Reserved
RECOVERY / RESTART SECTION				

CONTROL BLOCK NAME = DFHTCSSP DESCRIPTIVE NAME = CICS DFHSP SYSTEM OVERLAY OF THE DFHTCA @BANNER_START 02
 	
                DFHTCSSP Licensed Materials - Property of IBM "Restricted Materials of IBM" 5655-S97 @BANNER_END
     RECOVERY / RESTART SECTION				

(150)	BIT(8)	1	TCAZLUWD	TASK'S LOGICAL UNIT OF WORK (LUW) DEFINITION
	1...		TCAZAKPT	Activity keypoint
	.111 1111		*	Reserved
(151)	BIT(8)	1	TCAZLUWT	TASK'S LUW STATUS
	1...		TCAZRRD	A READ HAS OCCURRED IN THIS LUW
	.1..		TCAZRWRT	A WRITE HAS OCCURRED IN THIS LUW
	..1.		TCAZINDT	Next SHUNT is 'in-doubt'
	...1 1...		*	Reserved
	.... .1..		TCAZDLIC	DL/I-SYNCHRONOUS 4 COMMUNICATION ESTABLISHED
	11		*	Reserved
(152)	BIT(8)	1	TCABRPS	Rollback status
	1...		*	RESERVED
	.1..		TCATXBCK	TEXCI BACKOUT
	..1.		TCABRPSR	Backout-Reqd prog state
	...1 1111		*	Reserved
(153)	CHARACTER	1	*	Reserved

Table 603. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(154)	ADDRESS	4	TCADWASV	SAVE ADDR OF DWE CHN.
(158)	CHARACTER	12	*	Reserved
(164)	CHARACTER	4	TCAORABC	ORIGINAL ABEND CODE
(164)	CHARACTER	4	TCADBABC	ABEND CODE OF APPLICATION.
(168)	BIT(8)	1	TCATRTO	TERMINAL READ TIME OUT VALUE
(169)	BIT(8)	1	TCAFLAGS	MISCELLANEOUS FLAGS
	1...		*	Reserved
	.1..		TCANOTRC	SUPPRESS TRACE FOR TASK
	..1.		*	Reserved
	...1		TCASZUSE	FEPI Access in Task
	.... 1...		*	Reserved
	.... .1..		TCAUKCAL	MAKE CALL IN USER KEY
	11		*	Reserved
(16A)	BIT(8)	1	TCASCS	SCREEN SIZE SELECTION ETC
	1...		TCAFASTL	FAST LINK to DFHMIRS
	.111		*	
	.... 1...		TCASCSA	ALTERNATE SCREEN SIZE
	.... .1..		*	
	.... ..1.		TCAPRTCM	BMS TEXT PRINTER COMPATIBILITY
	1		TCATCABT	DFHACP abending flag
(16B)	BIT(8)	1	TCAIRTCD	INTER REGION RETURN CODE
(16C)	ADDRESS	4	TCARLB	Address of TMP lock block
(170)	ADDRESS	4	TCAEMSSV	SAVE AREA FOR DFHEMS
(174)	CHARACTER	3	*	Reserved
(177)	BIT(8)	1	TCAEISFL	EXEC CICS I/F FLAG
(178)	ADDRESS	4	TCAEISA	EXEC CICS I/F STRUCT ADDR
(17C)	ADDRESS	4	TCACAAAD	LE/370 Anchor Address

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(180)	ADDRESS	4	TCACEEPT	LE/370 Parameter List Address *
(184)	ADDRESS	4	TCAREGPT	EXEC CICS registers
(188)	ADDRESS	4	TCAIIIRE	III task return addr
(18C)	ADDRESS	4	*	Reserved
(190)	FULLWORD	4	TCAXXTCB	XPTCB or SJTCB blk addr
(194)	ADDRESS	4	*	Reserved
(198)	CHARACTER	4	TCAKCTTI	Assigned transaction id
(19C)	ADDRESS	4	TCATCUCN	TCTTE USER CHAIN FIELD.
(1A0)	ADDRESS	4	TCAXFS23	XFSTG FOR TRANSFORMATION 2 AND 3
(1A4)	ADDRESS	4	TCARSBA	ADDRESS OF REMOTE SCHEDULING BLOCK
(1A8)	CHARACTER	4	TCAKCOID	ID WHICH ORIGINATED TASK
(1AC)	BIT(8)	1	TCADLIST	DLI STATUS INFORMATION
	1...		TCAUIBAQ	UIB ACQUIRED
	.111		*	Reserved
	.... 1...		TCAEXDLI	EXEC DLI
	.... .1..		*	Reserved
	.... ..1.		TCAREMOT	REMOTE
	1		TCADBCTL	DBCTL
(1AD)	CHARACTER	2	TCAACMSG	DFHACP MSG NUMBER
(1AF)	BIT(8)	1	TCAAPFLG	AP DOMAIN FLAGS @BA81573C
	1...		TCARSREQ	RESUME REQUIRED
	.1..		TCAXMSOT	APXMI should invoke APXM
	..1.		TCAROUTE	Transaction route attach has been sent to a remote CICS system
	...1 1111		*	Reserved
(1B0)	CHARACTER	3	*	Reserved

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1B3)	BIT(8)	1	TCAAAM	APPLICATION ADDRESSING MODE NB BITS 1 - 6 OF BYTE TCAAAM MUST BE ZERO
	1...		TCAAAM31	31-BIT MODE
	.1..		TCAAAM64	64-BIT MODE
(1B4)	ADDRESS	4	*	Reserved
(1B8)	CHARACTER	4	TCACRABC	CURRENT ABEND CODE
(1B8)	CHARACTER	4	TCAPCABC	CURRENT ABEND CODE
(1BC)	CHARACTER	3	*	Reserved
(1BF)	CHARACTER	1	TCAIACB	ABEND CONTROL BLOCK STATUS *
(1C0)	ADDRESS	4	TCAPCACB	ABEND CONTROL BLOCK ADDRESS
(1C4)	CHARACTER	4	TCASENSE	SENSE FIELDS
(1C4)	CHARACTER	2	TCASS1	SYSTEM SENSE
(1C6)	CHARACTER	2	TCAUS1	USER MSG NO.
(1C8)	ADDRESS	4	TCATIEBA	TIE CHAIN FOR API ROUTER
(1CC)	ADDRESS	4	TCADMTLA	ADDRESS OF CSD MANAGER TASK LOCAL STORAGE
(1D0)	FULLWORD	4	TCATRRC	Transaction Routing RC
(1D4)	CHARACTER	3	*	Reserved
(1D7)	CHARACTER	5	TCAJVM	JVM information
(1D7)	BIT(8)	1	TCACJVMF	DFHCJVM flags
	1...		TCAFURM	Fetching URM DFHJVMAT
	.1..		TCACURM	Calling URM DFHJVMAT
	..1.		TCAJVMXT	System.exit from JVM
	...1 1111		*	Reserved
(1D8)	CHARACTER	4	TCAJVMTK	Token for JVM instance
(1DC)	ADDRESS	4	TCAPCXA	PROGRAM LOAD POINT ADDRESS
(1E0)	CHARACTER	8	TCATRRSN	RESOURCE NAME
BASIC MAPPING SUPPORT FAST PATH FIELDS.				
(1E8)	CHARACTER	8	TCABMMSN	SUFFIXED NAME OF MOST RECENTLY LOADED BMS MAPSET

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1F0)	ADDRESS	4	TCABMMSA	ADDRESS OF MOST RECENT BMS MAPSET
(1F4)	CHARACTER	1	TCABMMW	WIDTH OF MOST RECENT BMS MAP
(1F5)	CHARACTER	1	TCABMMH	HEIGHT OF MOST RECENT BMS MAP
(1F6)	CHARACTER	1	TCABMMC	COLUMN POSITION MOST RECENT BMS MAP
(1F7)	CHARACTER	1	TCABMML	LINE POSITION MOST RECENT BMS MAP
	LU6.2 INFORMATION			
(1F8)	ADDRESS	4	TCAALUCX	ADDRESS OF LU6.2 EXTENSION
(1FC)	FULLWORD	4	TCATMRLP	TMP read lock list addr.
(200)	CHARACTER	4	TCAICREQ	REQID from an IC START
	TASK CONTROL - TABLE MANAGER INTERFACE			
(204)	BIT(8)	1	TCAALFLG	Flag byte used by DFHALP
	1...		TCAALRES	A RESUME is required
	.111 1111		*	Reserved
(205)	CHARACTER	3	*	Reserved
(208)	ADDRESS	4	TCADOMPM	USED as plist addr
(20C)	CHARACTER	8	*	Reserved
(214)	CHARACTER	8	TCATRIDQ	TRACE ID QUALIFIER
	TRANSIENT DATA			

	CONTROL BLOCK NAME = DFHTC2TD
	DESCRIPTIVE NAME = CICS DFHTD system overlay of the DFHTCA
	 @BANNER_START 02
	                  DFHTC2TD
	 Licensed Materials - Property of IBM
	 "Restricted Materials of IBM"
	 5655-S97
	 @BANNER_END
	          TRANSIENT DATA - NEW 1.7 FIELDS				

(21C)	CHARACTER	4	TCADSTID	TRANSIENT DATA DESTID
	SPECIAL FEATURES			
(220)	ADDRESS	4	TCAPSDBA	BASE POINTER FOR TASK PDB CHAIN FOR MVS *
(224)	CHARACTER	2	*	Reserved

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Transaction Routing parameters (DFHAPRT->DFHZIS2) & ATI routing for PF starts				
(226)	BIT(8)	1	TCAAPRTF	Transaction Routing parameter flags
	1...		TCAPRIP	Priority is to be passed to the AOR
	.1..		TCASYSNP	Applid present
	..1.		TCARTST	Routable start
	...1		TCATRMNP	Terminal netname present
	 1111		*	Reserved
(227)	UNSIGNED	1	TCATRPRI	Priority value to pass to AOR
(228)	ADDRESS	4	TCADSBA	DBCTL SCHEDULING BLOCK ADDRESS *
(22C)	CHARACTER	4	TCADLUIB	USER INTERFACE BLOCK (UIB) *
(22C)	ADDRESS	4	TCADLIBA	UIB ADDRESS
(230)	ADDRESS	4	TCAAPRET	return address for DETACH
(234)	CHARACTER	8	TCAPLAN	DB2 plan in use if any
(23C)	CHARACTER	8	TCATRMNE	Terminal netname
(244)	CHARACTER	4	TCASUTOK	suspend/resume token for general AP use
(248)	ADDRESS	4	TCAEIUSA	A(EIUS). The user part of the EXEC CICS interface structure
(24C)	CHARACTER	8	TCASYSNE	Applid of owning Terminal
CPI-C				
(254)	ADDRESS	4	TCACPCCN	base pointer for CPC chain
(258)	ADDRESS	4	TCATRU24	Head of TRUE save area
(25C)	CHARACTER	1	TCAFCNOM	Copy of FCN OLDMODE
(25D)	CHARACTER	3	*	Reserved
FIELDS FOR USE BY DFHSRP (24 BYTES)				
(260)	CHARACTER	24	TCASRDAT	Fields for SRP use only
(260)	CHARACTER	8	TCASRPGM	Name of abended program

Table 603. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(268)	CHARACTER	8	TCASRPCD	Kernel error code xxx/yyyy
(268)	CHARACTER	3	TCASYABD	xxx
(26B)	CHARACTER	1	*	/
(26C)	CHARACTER	4	TCATRABD	yyyy
(270)	FULLWORD	4	TCASROFF	Offset of abend in program
(270)	ADDRESS	4	TCAKEDAD	-> Kernel error data copy
(274)	BIT(8)	1	TCASRFLG	SRP flag byte
	1...		TCASRDMP	System dump required
	.1..		TCAEMSIC	EMS deliberate prog check
	..1.		TCACELCK	LIP deliberate prog check
	...1		TCASRPLI	PCP deliberate prog check
	.... 1...		TCASRAP	AP0001 abend issued by DFHSRP
	.... .1..		TCACHKAD	EDF DELIBERATE ABEND
	.... ..1.		TCAFCNFO	FCN abend on FO TCB
	1		TCACNCHK	Channel storage check ... ... in progress
(275)	UNSIGNED	1	TCASRLOC	Abend in application?
(276)	BIT(16)	2	TCASREXC	EXC trace point id
FIELDS FOR THE REMOTE SYSTEM AND TRANSACTION NAMES				
(278)	CHARACTER	4	TCARMTRA	Remote Transaction name
(27C)	CHARACTER	4	TCARMSYS	Remote System name
END OF SYSTEM AREA				
(280)	CHARACTER	0	TCAEND	T C A STORAGE AREA DISPLACEMENT

```
                 CONTROL BLOCK NAME = DFHTCUKC
                 DESCRIPTIVE NAME  = CICS DFHKC USER OVERLAY OF THE DFHTCA
                  @BANNER_START 02
                                       DFHTCUKC
                  Licensed Materials - Property of IBM
                  "Restricted Materials of IBM"
                  5655-S97
                  @BANNER_END
```

Table 604.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	36	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	CHARACTER	1	TCAKCRC	SYST.MACRO RTN.CODE FROM CHANGE FROM ATT/AVAIL/REDISP
	1111 11..		*	
(59)	CHARACTER	1	TCAKCSRB	SECONDARY REQUEST BYTE
(5A)	CHARACTER	1	TCAKCRC2	Secondary response indicator (macro compatibility XMxx reason) *
(5B)	CHARACTER	1	TCATOMOP	Attach options
	1...		TCATOMCN	Conditional attach
	.1..		TCATOMEP	Entrypoint attach
	..1.		TCATOMST	Attach of a system task
	...1		TCATOTON	Tracking data override no
	.... 1...		TCATOTOY	Tracking data override yes
	.... .111		*	Reserved
(5C)	ADDRESS	4	TCAKCEPA	ENTRY POINT ADDRESS
(5C)	CHARACTER	9	TCAKCSSF	SECURITY SUBFIELD
(5C)	UNSIGNED	1	TCAKCUIL	
(5D)	CHARACTER	8	TCAKCUID	
(60)	CHARACTER	8	*	reserved
(68)	CHARACTER	4	TCAKCDST	T.D. DESTINATION ID
(6C)	ADDRESS	4	TCAKCPA	ATTPARM address
(6C)	CHARACTER	4	TCAKCSYS	REMOTE SYSTEM IDENTIFICATION *
(70)	CHARACTER	4	TCAKCTI	TRANSACTION IDENTIFICATION
(74)	UNSIGNED	1	TCAKCPL	ATTPARM length
(75)	CHARACTER	2	*	RESERVED
(77)	BIT(8)	1	TCAKCFI	FACILITY CONTROL INDICATOR *
	111.		*	RESERVED

Table 604. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		TCAKCAID	AID FACILITY MASK.
	.... 1...		TCAKCDCM	DESTINATION CONTROL TABLE
	.... .1..		TCAKCICM	NON-TERMINAL FACILITY MASK *
	.... ..1.		TCAKCMCM	K C P MACRO FILE MASK
	1		TCAKCTRM	TERMINAL FACILITY MASK
(78)	CHARACTER	4	TCAKCTA	TASK CONTROL AREA ADDRESS
(78)	ADDRESS	4	TCAKCFA	FACILITY CONTROL ADDRESS
(78)	ADDRESS	4	TCAKCPTR	FACILITY CONTROL ID

```
CONTROL BLOCK NAME = DFHTCUIC
DESCRIPTIVE NAME  = CICS DFHIC USER OVERLAY OF THE DFHTCA
 @BANNER_START 02
                        DFHTCUIC
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
The following field is product sensitive:-
TCAICTR
```

Table 605.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	52	*	
(58)	CHARACTER	1	TCAICTR	TYPE OF REQUEST/ RESPONSE
(59)	CHARACTER	3	*	RESERVED
(5C)	CHARACTER	4	TCAICTEC	ICP 'POST' TIMER EVENT CONTROL ADDRESS
(5C)	ADDRESS	4	TCAICDA	ICP MACRO SERVICE-DATA ADDRESS
(60)	CHARACTER	8	TCAICQPX	REQUEST ID PREFIX
(60)	CHARACTER	8	TCAICQID	ICP REQUEST IDENTIFICATION
(68)	FULLWORD	4	TCAICRT	REQUESTED TIME INTERVAL OR EXPIRATION TIME-OF-DAY
(6C)	CHARACTER	4	TCAICFA	ICP FACILITY CONTROL ADDR.

Table 605. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6C)	CHARACTER	4	TCAICTI	ICP TRANSACTION IDENT.
(70)	CHARACTER	4	TCAICUSA	ADDRESS OF US PARAMETER STORAGE WHICH IS 11 BYTE FIELD OF: 1 BYTE USERID LENGTH 10 BYTE FIELD FOR USERID
(70)	CHARACTER	4	TCAICTID	ICP SYMBOLIC TERMINAL IDENTIFICATION
(74)	CHARACTER	1	TCAICCLS	UNIQUE ID OF REQUESTED ID
(75)	CHARACTER	1	TCAICTR2	SECOND REQUEST/ RESPONSE BYTE
	1...		TCAICHDR	DATA RETURNED BY IC GET CONTAINS A USER-BUILT HDR. (INTERNAL)
	.1..		TCAICHSZ	FEPI start - startcode SZ
	..1.		TCAICTKX	XM Transaction token flag
	...1		TCAICRTC	Router commarea present
	.... 1...		TCAICUSS	Userid is that of system
	.... .1..		TCAICUSR	US domain parameter
	.... ..1.		TCAICDFS	Deferred dynamic start
	1		TCAICCRX	correlator present
(76)	HALFWORD	2	TCAICRTL	Routers commarea length
(78)	ADDRESS	4	TCAICRTR	Router's commarea address
(7C)	ADDRESS	4	TCAICTKA	XM Transaction token address. *
(80)	UNSIGNED	4	TCAICITK	Channel token
(84)	ADDRESS	4	TCAICADP	adapter fields pointer
(88)	ADDRESS	4	TCAICCOR	correlator pointer

```
CONTROL BLOCK NAME = DFHTCUTC
DESCRIPTIVE NAME  = CICS DFHTC USER OVERLAY OF THE DFHTCA
 @BANNER_START 02
            DFHTCUTC
```

Table 606.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	40	*	ORIGIN TO COMMON COMMUNICATION AREA
	This area (from TCATP_TRACE to TCATP_TRACE_LEN) is traced in some ZC level 1 trace formats			
(58)	CHARACTER	32	TCATP_TRACE	TCA parm list trace area
(58)	BIT(8)	1	TCATPAPR	APPLICATION REQUEST RESPONSE CODE
(58)	BIT(8)	1	TCATPLRC	LOCATE RETURN CODE FOR PAGE STATUS TERMINAL INTERPARTITION SESSION
	1...		TCATPEB	END BRACKET RECEIVED (ISC) *
	.1..		TCATPSNC	PREPARE/SPR RECEIVED (ISC) *
	..1.		*	
	...1		TCATPR10	CANCELLED DURING ALLOC
	.... 1...		TCATPRC8	BAD REQUEST RETURN
	.... .1..		TCATPRC4	POSSIBLE RETRY RETURN
(59)	BIT(8)	1	*	RESERVED
(5A)	BIT(8)	1	TCATPOS1	EXTERNAL OPERATOR REQUEST - byte 1
(5B)	BIT(8)	1	TCATPOS2	EXTERNAL OPERATOR REQUEST - byte 2
	Overlaid by the LDC - level 4 For ZARQ (Application requests) - level 5 For ZISP - levels 6 and 7			
(5B)	BIT(8)	1	TCATPLDC	Logical Device Code
	1...		TCATPOER	ERASE REQUEST
	1...		TCATPQAF	ALLOC OP FREE @USER SYNC
	1...		TCATPFSY	FREE OP implicit free
	.1..		TCATPOSS	SAVE TERMINAL STORAGE

Table 606. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		*	Reserved
	..1.		TCATPOLA	LINE ADDRESSING REQUEST
	..1.		TCATPQAR	ALLOC OP FREE AT RESTART
	...1		TCATPORR	READ REQUEST
	...1		TCATPQAU	ALLOC OP NOT PROTECTED AT
	.... 1...		TCATPODR	DISCONNECT REQUEST
	.... 1...		TCATPQUE	QUEUE REQUEST(0=NQ)
	.... .1..		TCATPOSR	SYNCHRONIZATION REQUEST
	.... .1..		*	Reserved
	.... ..1.		TCATPCVS	CONVERSE REQUEST
	.... ..1.		*	Reserved
	1		TCATPOWR	WRITE REQUEST
	1		TCATPIDT	ID IS CHAR (0=ADDR SPEC)
(5C)	BIT(8)	1	TCATPCS1	EXTERNAL CONTROL REQUEST - byte 1
For ZARQ (Application requests) - level 4 For ZSTU (Status change) - level 5				
	1...		TCATPNNI	NOATNI=YES
	1...		TCATPPG	PAGE
	.1..		TCATPNAB	NOABEND=YES
	.1..		TCATPAU	AUTOMATIC PAGING
	..11 1...		*	reserved
	.1..		TCATPINP	INPUT
	...1		TCATPNOP	NO POLL
	.... 1...		TCATPSAI	AUTOMATIC INITIATION
	.... .1..		TCATPBPQ	BYP QUIESCE FOR PASS
	.... .1..		TCATPTSA	TRANSACTION
	11		*	reserved
	.... ..1.		TCATPINS	IN SERVICE
	1		TCATPOOS	OUT OF SERVICE
(5D)	BIT(8)	1	TCATPCS2	EXTERNAL CONTROL REQUEST - byte 2

Table 606. (continued)

Offset Hex	Type	Len	Name (dim)	Description
For ZARQ (Application requests) - level 4 For ZSTU (Status change) - level 5				
	1...		TCATPCRB	READ BUFFER REQUEST
	1...		TCATNVTA	DON'T ISSUE VTAM CMDS
	.1..		TCATPCEU	ERASE ALL UNPROTECTED
	.1..		TCATALGI	REQUEST INTLOG
	..1.		TCATPCWL	WRITE LOCK REQUEST
	..1.		TCATNLGI	REQUEST NOINTLOG
	...1		TCATPCRL	READ LOCK REQUEST
	...1		TCATTFOR	FORCEPURGE
	.... 1...		TCATPCPY	COPY REQUEST
	.... 1...		TCATTPUR	PURGE TASK
	.... .1..		TCATPCPT	PRINT REQUEST
	.... .1..		TCATPREL	RELEASE
	.... ..1.		TCATPCNT	NOTRANSLATE REQUEST
	.... ..1.		TCATPRSO	RESYNCHRONIZATION OVERRIDE
	1		TCATPCPB	PSEUDO BINARY MODE
	1		TCATPACQ	ACQUIRE
(5E)	BIT(8)	1	TCATPOC1	OPERATION CONTROL BYTE 1
For ZARQ (Application requests) - see constants below For ZSTU (Status change) - see constants below				
(5F)	BIT(8)	1	TCATPOC2	OPERATION CONTROL BYTE 2
For ZARQ (Application requests) - level 4				
	1...		TCATPFRC	FORCE=YES
	.1..		TCATPWSR	WAIT ON INBOUND SIGNAL
	..1.		TCATPLMP	LOGICAL DEVICE CODE (LDC) MNEMONIC PRESENT
	...1		TCATPFPD	FUNCTION MANAGEMENT HEADER (FMH) PROVIDED WITH DATA

Table 606. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		TCATPLWT	LAST WRITE FROM TASK
	.... .1..		TCATPOAO	OVERRIDE ASYNCHRONOUS OPERATION NOT USED
	.... ..1.		TCATPOSO	OVERRIDE SYNCHRONOUS OPERATION NOT USED
	1		TCATPWRO	WAIT REQUEST WITH OPERATION
(60)	CHARACTER	2	TCATPLDM	LOGICAL DEVICE MNEMONIC
(62)	BIT(8)	1	TCATPCON	CONNECTION TYPE FLAG
	1111 111.		*	
	1		TCATPNCM	NON-COMMUNICATION INDICATOR
(63)	BIT(8)	1	TCATPOC3	OPERATION CONTROL BYTE 3
For ZARQ (Application requests) - level 4 For ZLOC (Status change) - level 5				
	1...		TCATPNEC	WRITE WITH CCOMPL=NO
	1...		TCATTMID	TRMIDNT VALUE SUPPLIED
	.1..		TCATPTTA	TCTTE ADDRESS SUPPLIED.
	.1..		TCATSTAT	STATUS KEYWORD SUPPLIED
	..1.		TCATPCND	CONDITIONAL REQUEST FLAG.
	..1.		TCATSELC	SELECT KEYWORD SUPPLIED
	...1		TCATPOWS	WRITE STRFIELD
	...1		TCATTRMT	TRMTYPE SUPPLIED
	.... 1...		TCATPTTO	TRANSP TIOA OBTAINED
	.... 1...		TCATOPNW	OPTION=NOWAIT REQUESTED
	.... .1..		TCATPDWR	DEFER REQUEST FLAG
	.... .1..		TCATCMPN	TCTCOMP=NO REQUESTED
	.... ..1.		TCATPINV	INVITE REQUEST FLAG

Table 606. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		TCATSIND	SCAN INDIRECTS,DOM'N=SYS
	1		*	X'01' RESERVED
	1		*	X'01' RESERVED
(64)	CHARACTER	20	TCATPPNM	PROGRAM NAME FIELD
(64)	ADDRESS	4	TCATPTA	TMNL ID OR A(FULL|MODEL TE)
(68)	CHARACTER	16	TCATPREQ	REQUEST ID PARAMETER.
(68)	CHARACTER	16	TCATPAID	AID ADDRESS
(68)	ADDRESS	4	TCATPLDA	LOGIC DEVICE CODE ELEMENT ADDRESS
(6C)	CHARACTER	12	TCATPRMT	REMOTENAME OF FOUND TERM'L
(6C)	ADDRESS	4	TCATPPFL	TERMINAL PROFILE ADDRESS
(70)	CHARACTER	8	TCATPAPL	APPLID OF REMOTE REGION
(70)	CHARACTER	4	TCATPSYS	SYSID OF REMOTE REGION
(74)	ADDRESS	4	TCATPSKA	A(SKELETON TCTTE)
(74)	ADDRESS	4	TCATPFS	FS parameters plist
TCATP_TRACE_LEN End of parm list trace area				
(78)	CHARACTER	8	TCATPZTR	ZC trace work area
(78)	CHARACTER	4	TCATPZT1	Copy TCT exit footprints
(7C)	ADDRESS	4	TCATPZT2	Copy TCT address

```
CONTROL BLOCK NAME = DFHTCUPC
DESCRIPTIVE NAME  = CICS DFHPC USER OVERLAY OF THE DFHTCA
 @BANNER_START 02
                        DFHTCUPC
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
 @BANNER_END
```

Table 607.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	36	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	CHARACTER	1	TCAPCTR	TYPE OF REQUEST / RESPONSE

Table 607. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(59)	CHARACTER	1	TCAPCSR	PROGRAM CONTROL SECONDARY REQUEST
(5A)	CHARACTER	2	*	Reserved
(5C)	CHARACTER	8	TCAPCPI	PROGRAM IDENTIFICATION
(5C)	CHARACTER	4	TCAPCERA	ABEND EXIT RETURN ENTRY ADDRESS
(64)	CHARACTER	4	TCAPCEA	LOADED PROGRAM ENTRY ADDRESS AND PC BROWSE ENTRY ADDRESS
(64)	CHARACTER	4	TCAPCAC	ABNORMAL TERMINATION CODE
(68)	ADDRESS	4	TCAPCLA	LOADED PROGRAM BEGINNING ADDRESS
(6C)	ADDRESS	4	TCAPGENT	Program entry point (GLUE)
(70)	ADDRESS	4	TCAPGTKN	Program token (GLUE)
(74)	CHARACTER	8	TCAPCEPI	Progam that abended APCT

```
CONTROL BLOCK NAME = DFHTCUPH
DESCRIPTIVE NAME  = CICS DFHPH User Overlay of the DFHTCA
 @BANNER_START 02
                       DFHTCUPH
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
 @BANNER_END
```

Table 608.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	22	*	OVERLAY THE TCA COMMON COMMUNICATION AREA
(58)	CHARACTER	22	TCAPH	FOR ZEROING REQUEST BYTES
(58)	ADDRESS	4	TCAPHRC	ADDRESS OF RETURN CODE
(5C)	ADDRESS	4	TCAPHPSN	ADDRESS OF PRTNSET NAME
(60)	ADDRESS	4	TCAPHPN	ADDRESS OF PARTITION NAME

Table 608. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(64)	ADDRESS	4	TCAPHPID	ADDRESS OF PARTITION ID
(68)	ADDRESS	4	TCAPHTIO	ADDRESS OF TIOA
(6C)	CHARACTER	1	TCAPHTR	REQUEST TYPE
(6D)	CHARACTER	1	TCAPHRCV	RETURN CODE VALUE

```
              CONTROL BLOCK NAME = DFHTCUBM
              DESCRIPTIVE NAME  = CICS DFHBMS USER OVERLAY OF THE DFHTCA
               @BANNER_START 02
                                  DFHTCUBM
              Licensed Materials - Property of IBM
               "Restricted Materials of IBM"
               5655-S97
               @BANNER_END
```

Table 609.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	8	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	BIT(8)	1	TCAMSRC1	RETURN CODE BYTE ONE
	1...		TCAMSRF	ROUTE FAILED - NO RESOLUTIONS
	.1..		TCAMSRW	ROUTE WORKED - SOME RESOLUTIONS
	..1.		TCAMSIET	INVALID ERROR TERMINAL
	...1		*	
	.... 1...		TCAMSMTL	MAP TOO LARGE
	.... .1..		TCAMSCBM	I/O AREA CANNOT BE MAPPED
	.... ..1.		TCAMSPRI	PAGE RETURNED INDICATOR
	1		TCAMSIR	INVALID REQUEST
(59)	BIT(8)	1	TCAMSRC2	RETURN CODE BYTE TWO
	1...		TCAMSTSE	TEMP STORAGE I/O ERROR
	.1..		TCAMSRCD	REQUEST CHANGE DIRECN ERROR
	..1.		TCAMSUXI	UNEXPECTED INPUT
	...1		TCAMSIMN	INVALID LDC MNEMONIC

Table 609. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		TCAMSIPS	INVALID PARTITION SET NAME
	.... .1..		TCAMSIPN	INVALID PARTITION NAME
	.... ..1.		TCAMSIPF	PARTNFAIL ERROR
	1		TCAMSDSS	DATASET STATUS CHANGE
(5A)	BIT(8)	1	TCAMSRC3	RETURN CODE BYTE THREE
	111.		*	
	...1		TCAMSIGR	SPECIFIED 'REQID' IGNORED
	.... 1...		TCAMSEOC	END-OF-CHAIN IN LAST INPUT
	.... .1..		TCAMSEOD	END-OF-DATA-SET LAST INPUT
	.... ..1.		TCAMSIFH	INBOUND FMH IN LAST INPUT
	1		TCAMSOI	PAGE OVERFLOW INDICATOR
(5B)	BIT(8)	1	TCAMSRI1	RETURN INFORMATION BYTE ONE
(5C)	CHARACTER	4	TCAMSPOF	PAGEBLD OVERFLO INFORMATION
(5C)	HALFWORD	2	TCAMSPGN	CURRENT PAGE NUMBER
(5E)	HALFWORD	2	TCAMSOCN	OVERFLOW CONTROL NUMBER

Table 610.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	64	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	BIT(8)	1	TCAMSTR1	TYPE REQUEST BYTE ONE
	1...		TCAMSTRR	TYPE = ROUTE
	.1..		TCAMSEO	ERRTERM = ORIG
	..1.		TCAMSETI	ERRTERM = TERMINAL ID
	...1		TCAMSRI	INTRVAL = NUMERIC VALUE

Table 610. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		TCAMSRT	TIME = NUMERIC VALUE
	.... .1..		TCAMSRA	LIST = ALL
	.... ..1.		TCAMSRSA	LIST = SYMBOLIC ADDRESS
	1		TCAMSROC	OPCLASS = OPERATOR CLASS
(59)	BIT(8)	1	TCAMSTR2	TYPE REQUEST BYTE TWO
	1...		TCAMSRTL	TITLE = SYMBOLIC ADDRESS
	.1..		TCAMSOPT	PROPT = NLEOM
	..1.		TCAMSRQI	REQID = ALPHANUMERIC VALUE
	...1		TCAMSTLD	LDC = MNEMONIC OR YES
	.... 1...		TCAMSIOT	IOTYPE = IMMED
	.... .1..		TCAMSLPS	SEND PARTNSET
	.... ..1.		TCAMSRIN	RECV INTO EXEC COMMAND
	1		TCAMSTRG	TYPE = PURGE
(5A)	BIT(8)	1	TCAMSTR3	TYPE REQUEST BYTE THREE
	1...		TCAMSLST	TYPE = LAST
	.1..		TCAMSRPT	RECEIVE PARTN
	..1.		TCAMSTRT	TYPE = TEXT
	...1		TCAMSTC	CURSOR = NUMBER
	.... 1...		TCAMSTCW	CTRL = ANY 3270 WCC
	.... .1..		TCAMSTMN	MAP = MAP NAME
	.... ..1.		TCAMSTSA	MSETADR = SYMBOLIC ADDRESS OR PSETADR = ADDRESS
	1		TCAMSTSN	MAPSET = MAP SET NAME
(5B)	BIT(8)	1	TCAMSTR4	TYPE REQUEST BYTE FOUR
	1...		*	
	.1..		TCAMSTDN	DATA = NO
	..1.		TCAMSTRS	TYPE = SAVE
	...1		TCAMSTMA	MAPADR = SYMBOLIC ADDRESS

Table 610. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		TCAMSTRW	TYPE = WAIT
	.... .1..		TCAMSTRM	TYPE = MAP
	.... ..1.		TCAMSTRE	TYPE = ERASE
	1		TCAMSTRI	TYPE = IN
(5C)	BIT(8)	1	TCAMSTR5	TYPE REQUEST BYTE FIVE
	1...		TCAMSTRB	TYPE = PAGEBLD
	.1..		TCAMSTOF	OFLOW = SYMBOLIC ADDRESS
	..1.		TCAMSTEU	TYPE = ERASEAUP
	...1		TCAMSTFF	TYPE = FORMFEED
	.... 1...		TCAMSTRLOC	TYPE = LOCATE_MAP
	.... .1..		TCAMSTRO	TYPE = OUT
	.... ..1.		TCAMSTRF	TYPE = STORE
	1		TCAMSTRU	TYPE = RETURN
(5D)	BIT(8)	1	TCAMSTR6	TYPE REQUEST BYTE SIX
	1...		TCAMSTRP	TYPE = PAGEOUT
	.1..		TCAMSTCA	CTRL = AUTOPAGE
	..1.		TCAMSTCP	CTRL = PAGE
	...1		TCAMSTCK	CTRL = RETAIN
	.... 1...		TCAMSTCR	CTRL = RELEASE
	.... .1..		TCAMSWBC	WTBRK = CURRENT
	.... ..1.		TCAMSWBA	WTBRK = ALL
	1		TCAMSEPO	EODPURG = OPER
(5E)	BIT(8)	1	TCAMSTR7	TYPE REQUEST BYTE SEVEN
	1...		TCAMSTRX	TYPE = TEXTBLD
	.1..		TCAMSTH	HEADER = SYMBOLIC ADDRESS
	..1.		TCAMSTT	TRAILER = SYMBOLIC ADDRESS
	...1		TCAMSTJ	JUSTIFY = FIRST, LAST, OR VALUE
	.... 1...		TCAMSOPR	API SPECIFIES OUTPARTN
	.... .1..		TCAMSAPR	API SPECIFIES ACTPARTN
	.... ..1.		TCAMSPGS	PGA SUPPLIED WITH DATA

Table 610. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		TCAMSTRN	TYPE = NOEDIT
N.B. TIOATDL SHOULD GIVE THE LENGTH INCLUDING THE PGA IF SET.				
(5F)	BIT(8)	1	TCAMSTR8	TYPE REQUEST BYTE EIGHT
	1...		TCAMSIPR	API SPECIFIES INPARTN
	.1..		TCAMSMGM	MSR OPTION SPECIFIED
	..1.		TCAMSEIC	EXEC INTERFACE COMMAND
	...1		TCAMSTFP	FMHPARM = YES OR PARM
	.... 1...		TCAMSRDA	RDATT = SYMBOLIC ADDRESS
	.... .1..		TCAMSWRB	WRBRK = SYMBOLIC ADDRESS
	.... ..1.		TCAMSSIG	SIGNAL
	1		TCAMSMGC	SEND CONTROL
(60)	CHARACTER	4	TCAMSTA	TITLE ADDRESS
(60)	ADDRESS	4	TCAMSIOA	ALTERNATE I/O AREA ADDRESS
(64)	CHARACTER	4	TCAMSFSC	FIELD SEPARATOR CHARACTERS
(64)	CHARACTER	0	TCABMSFB	WCC AND FLAG BYTE
(64)	CHARACTER	1	TCAMSWCC	WRITE CONTROL CHARACTERS
(65)	BIT(8)	1	TCAMSJ	JUSTIFY = FIRST, LAST, OR VALUE
(66)	CHARACTER	2	TCAMSRPL	RETURNED LENGTH FROM RECEIVE PARTN
(66)	HALFWORD	2	TCABMSCP	CURSOR POSITION
(68)	CHARACTER	8	TCABMSMN	MAP NAME
(68)	CHARACTER	8	TCAMSPSN	PARTITION SET NAME
(68)	ADDRESS	4	TCABMSMA	MAP ADDRESS
(68)	ADDRESS	4	TCAMSHDR	HEADER ADDRESS
(68)	ADDRESS	4	TCAMSRLA	ROUTE OR RETURNED PAGE LIST ADDRESS
(6C)	ADDRESS	4	TCAMSTRL	TRAILER ADDRESS
(6C)	ADDRESS	4	TCABMSDA	ADS descriptor address

Table 610. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6C)	CHARACTER	4	TCAMSRTI	TIME OR INTERVAL OF TIME
(70)	CHARACTER	8	TCAMSMSA	MAP SET OR PARTNSET ADDRESS
(70)	CHARACTER	8	TCAMSMSN	MAP SET NAME
(70)	CHARACTER	4	TCAMSTI	ROUTE ERROR TERMINAL ID
(74)	BIT(8)	1	*	RESERVED
(75)	CHARACTER	3	TCAMSOC	OPERATOR CLASS
(78)	CHARACTER	2	TCAMSLDM	LOGICAL DEVICE CODE MNEMONIC IF LDC ON API ELSE OUTPARTN IF SEND OR INPARTN IF RECEIVE MAP OR PARTN IF RECEIVE PARTN
(7A)	BIT(8)	1	TCAMSLDC	LOGICAL DEVICE CODE
(7B)	CHARACTER	2	TCAMSRID	REQID - TEMPORARY STORAGE RECOVERY PREFIX
(7D)	CHARACTER	2	TCAMAPNM	ACTPARTN VALUE
(7F)	CHARACTER	1	*	RESERVED FOR BMS
(80)	CHARACTER	8	TCAMSFMP	FUNCTION MANAGEMENT HEADER (FMH) PARAMETER
(88)	CHARACTER	4	TCAMSMSR	MSR CONTROL VALUE
(8C)	CHARACTER	8	TCAMSRQS	WORK AREA
(94)	CHARACTER	1	TCAMCPY	FLAG INDICATING COPY REQUIRED
(95)	CHARACTER	3	*	RESERVED

Table 611.

Offset Hex	Type	Len	Name (dim)	Description
(8C)	STRUCTURE	20	*	ORIGIN TO COMMON CONTROL REGISTER STORAGE
	REGISTER STORAGE			
(8C)	FULLWORD	4	* (4294967300:263645288)	OVERLAID BY BMS REQUEST BYTES
(9C)	FULLWORD	4	TCAMSRS	BMS REGISTER SAVE AREA

```
CONTROL BLOCK NAME = DFHTCUSP
DESCRIPTIVE NAME  = CICS DFHSP User Overlay of the DFHTCA
 @BANNER_START 02
                          DFHTCUSP
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
```

Table 612.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	11	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	BIT(8)	1	TCASPTR	SYNC POINT REQUEST
	1...		*	Reserved
	.1..		TCASPREP	SEND PREPARE
	..11		*	Reserved
	.... 1...		TCASPROL	TYPE=ROLLBACK
	.... .1..		TCASPRAB	No remote rollback abend
	.... ..1.		TCASPEXP	Explicit EXEC SYNCPOINT
	1		TCASPUSR	TYPE=USER
(59)	CHARACTER	3	*	Reserved
(5C)	ADDRESS	4	TCASPSDA	Address of RMRO parameter area for DFHSP PHASE_1/2 calls
(60)	CHARACTER	2	*	Reserved
(62)	CHARACTER	1	TCASPRC	RETURN CODE

```
CONTROL BLOCK NAME = DFHTCUDC
DESCRIPTIVE NAME  = CICS DFHDC USER OVERLAY OF THE DFHTCA
 @BANNER_START 02
                          DFHTCUDC
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
                              same as TCADCRS
```

Table 613.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	16	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	CHARACTER	2	TCADCTR	TYPE OF REQUEST

Table 613. (continued)

Offset Hex	Type	Len	Name (dim)	Description
REQUEST BYTE 1				
	1...		TCADCCSA	DUMP THE CSA
	.1..		TCADCTCA	DUMP THE TCA
	..1.		TCADCPGM	DUMP THE PROGRAM AREAS
	...1		TCADCTRT	DUMP THE TRACE TABLE
	.... 1...		TCADCIOA	DUMP TERMINAL I/O AREAS
	.... .1..		TCADCTRN	DUMP TRANSACTION AREAS
	.... ..1.		*	RESERVED
	1		TCADCSEG	DUMP USER SPECIFIED AREA
REQUEST BYTE 2				
(59)	1...		*	RESERVED
	.1..		TCADCSIT	DUMP THE SIT
	..1.		TCADCPPT	DUMP THE PPT
	...1		*	RESERVED
	.... 1...		TCADCPCT	DUMP THE PCT
	.... .1..		TCADCTCT	DUMP THE TCT
	.... ..1.		TCADCFCT	DUMP THE FCT
	1		TCADCDCT	DUMP THE DCT
(5A)	HALFWORD	2	TCADCNB	DUMP CONTROL NUMBER OF BYTES
(5C)	ADDRESS	4	TCADCSA	DUMP CONTROL STORAGE ADDRESS
(60)	CHARACTER	4	*	RESERVED
(64)	CHARACTER	4	TCADCDC	DUMP IDENTIFICATION CODE

```
CONTROL BLOCK NAME = DFHTCUDL
DESCRIPTIVE NAME  = CICS DL/I TCA Communication Area Overlay
 @BANNER_START 02
                        DFHTCUDL
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     Logical equivalent of DL/I support communication area
     overlay of the user part of the TCA. This contains
     request and response fields for various DL/I requests.
LOCATION =
     Offset (release dependent) from the start of the user TCA.
LIFETIME =
     Request fields should be filled in for the request and
     the response fields will contain the return codes.
```

```
             For the next request, the fields should be re-filled.
          STORAGE CLASS =
              Same as user TCA.
          INNER CONTROL BLOCKS = none.
          NOTES :
          DEPENDENCIES = S/370
          RESTRICTIONS = none.
          EXTERNAL REFERENCES = none.
```

Table 614.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	36	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	CHARACTER	1	TCADLRC	DL/I Response Code
(59)	CHARACTER	1	TCADLTR	DL/I Reason Code
(5A)	CHARACTER	2	*	Reserved
(5C)	ADDRESS	4	TCADLPAR	DL/I Parameter List Address
(60)	CHARACTER	8	TCADLPSB	DL/I PSB Name
(68)	CHARACTER	4	TCADLFUN	DL/I Function Code
(6C)	ADDRESS	4	TCADLPCB	DL/I PCB Address
(70)	ADDRESS	4	TCADLIO	DL/I Workarea Address
(74)	ADDRESS	4	TCADLSSA	DL/I SSA List Address
(78)	CHARACTER	4	TCADLLAN	DL/I Language Flags

```
          CONTROL BLOCK NAME = DFHTCUTD
          DESCRIPTIVE NAME  = CICS DFHTD USER OVERLAY OF THE DFHTCA
           @BANNER_START 02
                              DFHTCUTD
           Licensed Materials - Property of IBM
           "Restricted Materials of IBM"
           5655-S97
           @BANNER_END
```

Table 615.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	32	*	overlay on the TCA Common Control Communication Area
(58)	BIT(8)	1	TCATDTR	- type of request / response
	1...		*	- reserved
	.1..		TCATDPUT	- TYPE=PUT
	..11 1111		*	- reserved
(59)	CHARACTER	3	*	- reserved
(5C)	CHARACTER	4	TCATDDI	queue id - either N(queue) or A(DCTE)

Table 615. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(60)	CHARACTER	24	TCATDROA	- CTYPE=... overlay area

Table 616.

Offset Hex	Type	Len	Name (dim)	Description
(60)	STRUCTURE	4	*	overlay area for DFHTD TYPE=PUT,...,GET,...
(60)	ADDRESS	4	TCATDAA	- A(data area)

Table 617.

Offset Hex	Type	Len	Name (dim)	Description
(60)	STRUCTURE	8	*	overlay area for DFHTD CTYPE=OPEN,...,PUT,...
(60)	ADDRESS	4	TCATDDA	- A(DCTE) or 0 - in each case TCATDDI contains N(queue)
(64)	ADDRESS	4	TCATDOCP	- A(TDOC parameter list)
(64)	ADDRESS	4	TCATDTDP	- A(TDTD parameter list)

```
        CONTROL BLOCK NAME = DFHTCUTS
        DESCRIPTIVE NAME  = CICS DFHTS User Overlay of the DFHTCA
         @BANNER_START 02
                          DFHTCUTS
        Licensed Materials - Property of IBM
        "Restricted Materials of IBM"
        5655-S97
        @BANNER_END
```

Table 618.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	32	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	BIT(8)	1	TCATSTR	TYPE OF REQUEST/ RESPONSE *
	1...		TCATSGET	get(q) request
	.1..		TCATSPUT	put(q) request
	..1.		TCATSREL	purge/release request
	...1		TCATSADR	address supplied on get
	...1		TCATSCND	conditional request

Table 618. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		TCATSENT	entry no. supplied on get
	.... 1...		TCATSMST	main storage request
	.... .1..		TCATSUPD	update request
	.... ..1.		TCATSSYS	system request
	1		TCATSQUE	queue type request
(59)	BIT(8)	1	TCATSTR2	TYPE OF REQUEST (SECONDARY) *
	1...		TCATSICE	append ice
	.1..		TCATSPUN	put unique
	..1.		TCATSWRM	warm start restore
	...1		TCATSEMR	emergency start restore
	.... 1...		TCATSBMS	class=bms
	.... .1..		TCATSTRM	storage class=terminal
	.... ..1.		TCATSFLB	flush buffers
	1		TCATSES2	ESCAPE BIT (TCATSTR3 VALID) *
(5A)	CHARACTER	2	*	Reserved
(5C)	ADDRESS	4	TCATSDA	TEMPORARY STORAGE DATA ADDRESS *
(60)	CHARACTER	8	TCATSDI	TEMPORARY DATA IDENTIFICATION
(68)	HALFWORD	2	TCATSRN	TEMPORARY STORAGE RECORD NUMBER
(6A)	CHARACTER	1	TCATSTR3	TYPE OF REQUEST(TERTIARY)
	1...		TCATSHDO	HEADER PRESENT IN OUTPUT DATA
	.1..		TCATSHLL	REQUEST ISSUED BY HLL - I.E. BY DFHETS
	..1.		TCATSEXT	EXTENDS TCA AFTER TCATSSTA
	...1		TCATSPRV	PRIVILEGED REQUEST - DO NOT WAIT FOR OPEN-FOR-BUSINESS
	.... 1...		TCATSINI	CTYPE=INITIALIZE REQUEST
	.... .1..		TCATSWTI	CTYPE=WAITINIT REQUEST
	.... ..1.		TCATSRST	RESTART TASK

Offset Hex	Type	Len	Name (dim)	Description
	1		TCATSGDB	DWE Recovery
(6B)	CHARACTER	1	TCATSRS2	2ND RESPONSE BYTE
	1...		TCATSHDI	HEADER PRESENT IN INPUT DATA
(6C)	FULLWORD	4	TCATSSTA	ADDRESS OF PREVIOUSLY AQUIRED STORAGE
(70)	FULLWORD	4	TCATSLL	LL00 FIELD WHEN SEPARATE OR CONCAT = L'(LL00) + L'(DATA)
(74)	BIT(8)	1	TCATSCMD	COMMAND MODIFIER.
	1...		TCATSLRE	long record extn queue
	.1..		TCATSLRH	long record header
	..1.		TCATSLRU	long record header update
	...1 1111		*	reserved
(75)	CHARACTER	1	*	reserved
(76)	HALFWORD	2	TCATSTNR	TOTAL NUMBER OF RECORDS
(78)	CHARACTER	0	*	

```
         CONTROL BLOCK NAME = DFHTCUDI
         DESCRIPTIVE NAME  = CICS DFHDI USER OVERLAY OF THE DFHTCA
        @BANNER_ START 02
                           DFHTCUDI
         Licensed Materials - Property of IBM
          "Restricted Materials of IBM"
        5655-S97
        @BANNER_END
```

Table 619.

Offset Hex	Type	Len	Name (dim)	Description
(58)	STRUCTURE	24	*	
(58)	CHARACTER	2	TCADIRC	CURRENT RETURN CODE
(58)	BIT(8)	1	TCADIRC1	CLASS OF ERROR
	111.		*	
	...1		TCADIQSN	UNKNOWN SENSE ERROR
	.... 1...		TCADIQFU	FUNCTION ERROR
	.... .1..		TCADIQDS	DESTINATION CHANGE RESPONSE
(59)	BIT(8)	1	TCADIRC2	VALUE OF ERROR CODE

Table 619. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5A)	BIT(8)	1	TCADIFL1	OPERATION TYPE
(5B)	BIT(8)	1	TCADIFL2	OPERATION FLAGS
	1...		TCADIFNV	VOLADDR SPECIFIED
	.1..		TCADIFNM	SELECT SPECIFIED
	..1.		TCADIFNP	PROFILE SPECIFIED
	...1		TCADIFND	DSN NOT SPECIFIED
(5C)	BIT(8)	1	TCADIFL3	OPERATION FLAGS
	1...		TCADIFNF	DEFRESP=YES
	.1..		TCADIFSS	TYPE=SAVE SPECIFIED
	..1.		TCADIFNK	KEY SPECIFIED
	...1		TCADIFNR	RRN SPECIFIED
	.... 1...		TCADIFKN	KEYNUMBER SPECIFIED
	.... .1..		*	
	.... ..1.		TCADIFRR	RESERVED
	1		TCADIFWT	WAIT REQUESTED OR DEFAULTED
(5D)	BIT(8)	1	TCADIFL4	OPERATION FLAGS RESERVED FOR FUTURE USE
(5E)	BIT(8)	1	TCADINRS	NUMBER OF RECORDS IN REQUEST
(5F)	BIT(8)	1	TCADISEL	SELECT VALUE
(60)	CHARACTER	4	TCADIRNA	RECORD ID
(60)	ADDRESS	4	TCADIKYA	KEY ADDRESS
(64)	ADDRESS	4	TCADIDNA	DATA SET NAME ADDRESS
(68)	ADDRESS	4	TCADIVNA	VOLUME NAME ADDRESS
(6C)	BIT(8)	1	TCADIDSP	DATA STREAM PROFILE
(6D)	CHARACTER	1	*	RESERVED
(6E)	HALFWORD	2	TCADIKYN	KEYNUMBER VALUE
(70)	CHARACTER	0	TCADIPND	END OF PLIST MARKER

Constants

Table 620.

Len	Type	value	Name	Description
CONSTANTS MISCELLANEOUS				
1	HEX	80	TCAEISUN	TCA CONTAINS A(UNINITIALISED EIS)
1	HEX	80	TCAACB	ABEND CONTROL BLOCK BUILT
CONSTANTS				
1	DECIMAL	12	TCACBAR	TASK CONTROL AREA COMMON
TASK CONTROL SECTION THE FOLLOWING BELONG TO FIELD TCATCDC				
1	HEX	13	TCADCITW	DCI=TERMINAL WAIT
1	HEX	20	TCADCIDT	DISPATCHABLE MASK
1	HEX	40	TCADCIEL	EVENT CONTROL LIST ADDRESS
1	HEX	80	TCADCISE	SINGLE EVENT CONTROL ADDRESS
1	HEX	88	TCADCISY	C I C S SYSTEM EVENT CONTROL
1	HEX	C5	TCADCEND	END-OF-ACTIVE-CHAIN MARKER
THE FOLLOWING BELONG TO FIELD TCATCTR				
1	HEX	10	TCATOMX	attach request
1	HEX	40	TCATWM	wait request
1	HEX	08	TCATRM	TASK RESUME MASK
1	HEX	05	TCACEM	CONDITIONAL ENQUEUE MASK *
1	HEX	02	TCATDM	TASK DEQUEUE MASK
1	HEX	01	TCATEM	TASK ENQUEUE MASK
1	HEX	31	TCADUPQ	DUPLICATE ENQUEUE RESPONSE *
1	HEX	32	TCATCONQ	COND ENQ FAILED RESP
1	HEX	00	TCATCOK	COND ENQ SUCCESSFUL RESP *
1	HEX	2C	TCAPROFL	LOCATE PROFILE
1	HEX	2D	TCAPROB	BROWSE PROFILES
1	HEX	2E	TCAPROBU	BROWSE PROFILES UNLOCK PREVIOUS

Table 620. (continued)

Len	Type	value	Name	Description
1	HEX	2F	TCAKCREP	REPLACE PCT ELEMENT
1	HEX	2F	TCAKCSRQ	KCP SECONDARY REQUEST
THE FOLLOWING BELONG TO FIELD TCAPURGI				
1	HEX	BF	TCASNPRG	STALL NO PURGE MASK
EXIT XSRAB ABEND RECOVERY OPTION (TCAPCARO) VALUES				
1	HEX	00	TCAPCAGO	Abend ASRB, don't cancel exits
1	HEX	C3	TCAPCANC	Abend ASRB,cancel exits
1	HEX	C1	TCAPCAAC	Terminate CICS
STORAGE TYPE HIT BY ASRA 0C4 (TCAPCSTG) VALUES				
1	HEX	00	TCANOHIT	No hit or not 0C4
1	HEX	01	TCACDSA	CDSA hit
1	HEX	02	TCAECDSA	ECDSA hit
1	HEX	03	TCAERDSA	ERDSA hit
1	HEX	04	TCARDSA	RDSA hit
1	HEX	05	TCAEUDSA	EUDSA hit
1	HEX	06	TCAUDSA	UDSA hit
1	HEX	10	TCADYCSA	Dummy CSA/TCA hit
1	HEX	20	TCADYRCT	Dummy RCT hit
EXIT XPCTA RETRY EXECUTION KEY (TCAPCRFL) VALUES				
1	HEX	80	TCAPCUSK	Retry in USER key
1	HEX	40	TCAPCCIK	Retry in CICS key
NOTE THAT THESE DEFINITIONS ARE LOGICALLY BYTE DEFINITIONS THE FOLLOWING BELONG TO FIELD TCAFCI				
1	HEX	00	TCAFCTDM	TASK-DEPENDENT FACILITY MASK i.e. NONE
CONSTANTS THE FOLLOWING BELONG TO TCAKCRC				
1	HEX	00	TCAKCOK	SUCCESS
1	HEX	08	TCAKCWRN	WARNING MESSAGE ISSUED
1	HEX	00	TCAKCATS	ATTACH SUCCESSFUL
1	HEX	31	TCAKCATF	ATTACH FAILED
THE FOLLOWING BELONG TO TCAKCSRB				
1	HEX	01	TCAKCSRR	CTYPE=REPLACE
1	HEX	02	TCAKCSRI	CTYPE=INITIALIZE
1	HEX	03	TCAKCSRW	CTYPE=WAITINIT

Table 620. (continued)

Len	Type	value	Name	Description
1	HEX	04	TCAKCSRK	RESTART TASK
CONSTANTS THE FOLLOWING BELONG TO TCAICTR				
1	HEX	10	TCAICGTM	'GETIME' TYPE OF REQUEST
1	HEX	20	TCAICWTM	'WAIT' TYPE OF REQUEST
1	HEX	30	TCAICPST	'POST' TYPE OF REQUEST
1	HEX	40	TCAICINT	'INITIATE' TYPE OF REQUEST
1	HEX	50	TCAICPUT	'PUT' TYPE OF REQUEST
1	HEX	60	TCAICIND	'INITIATE' DEFERRED
1	HEX	70	TCAICPTH	'PUT WITH HEADER' TYPE OF REQUEST (CICS INTERNAL)
1	HEX	80	TCAICGET	'GET' TYPE OF REQUEST
1	HEX	81	TCAICGNR	'GET-NO RELEASE' REQUEST
1	HEX	90	TCAICRTY	'RETRY' TYPE OF REQUEST
1	HEX	A0	TCAICRST	'RESET' CICS INTERNAL
1	HEX	B0	TCAICSCH	'SCHEDULE' (CICS INTERNAL)
1	HEX	C0	TCAICTXA	EXPIRY ANALYSIS, APTIX Call *
1	HEX	D0	TCAICRVY	DWE DRIVEN ACTIONS.
1	HEX	E0	TCAICSCD	Secondary Request TCAICTR2 contains code
1	HEX	F0	TCAICCNL	'CANCEL' TYPE OF REQUEST
1	HEX	01	TCAICPFM	PACKED TIME-OF-DAY REQUEST MASK
1	HEX	01	TCAICTFM	AUTOMATIC TASK INITIATION - TERMINAL FACILITY MASK
1	HEX	01	TCAICNRL	'NO RELEASE' MASK

Table 620. (continued)

Len	Type	value	Name	Description
1	HEX	01	TCAICDWE	SCHEDULE BUILDS DWE.
1	HEX	02	TCAICUDA	RETURN DATA TO USER MASK
1	HEX	02	TCAICRAM	RETURN 'GET' DATA ADDRESS
1	HEX	02	TCAICRIP	'REQID='PREFIX'' REQUEST
1	HEX	06	TCAICCSA	'CLASS=' (CICS INTERNAL)
1	HEX	04	TCAICIDM	ICP REQUEST IDENTIFIER GIVEN MASK
1	HEX	08	TCAICXTM	EXPIRATION TIME GIVEN MASK
1	HEX	08	TCAICGWT	'WAIT' OPTION ON GET.
1	HEX	40	TCAICFND	SEARCH, TRAN FOUND RESPONSE *
1	HEX	08	TCAICNFD	SEARCH, TRAN NOT FOUND RESP *
CONSTANTS THE FOLLOWING BELONG TO TCAICTR2 NOTE: See definition of TCAICTR2 above before adding more byte definitions.				
1	HEX	01	TCAICSRC	Search
1	HEX	02	TCAICRGW	Resume Get Waiters
CONSTANTS THE FOLLOWING REFER TO FIELD TCATPAPR				
1	HEX	0C	TCATPRCC	BAD REQUEST RETURN
1	HEX	14	TCATPR14	MODE GP OUT OF SERVICE
1	HEX	18	TCATPR18	LUC DRAIN=ALL
1	HEX	1C	TCATPR1C	RM ADD_LINK failure
THE FOLLOWING REFER TO FIELD TCATPLRC				
1	HEX	00	TCATPLNR	NORMAL RETURN
1	HEX	F0	TCATPLLE	LAST ENTRY
1	HEX	F1	TCATPLIR	INVALID REQUEST
1	HEX	F2	TCATPLII	INVALID TERMINAL ID
1	HEX	F3	TCATPLIA	INVALID ADDRESS
1	HEX	F4	TCATPLIL	INVALID LOGICAL DEVICE CODE
1	HEX	F5	TCATPNAT	ATI REQUIRED ON NON-ATI

Table 620. (continued)

Len	Type	value	Name	Description
1	HEX	F6	TCATPVAL	RESOURCE PROBLEM FOR
1	HEX	F7	TCATPNVL	INVALID PROGRAM NAME
1	HEX	F8	TCATPRFL	UNABLE TO PERFORM REQUEST
1	HEX	F9	TCATPLNL	TYPE IS NOT LUC
1	HEX	FA	TCATPBSY	BUSY
1	HEX	FB	TCATPUSR	INVALID USERID
1	HEX	FC	TCATPDFR	Purge was deferred
1	HEX	FD	TCATPKIL	Kill was rejected
	THE FOLLOWING REFER TO FIELD TCATPOS1 ZARQ REQUEST FLAGS			
1	HEX	00	TCATPIOR	I/O REQUEST TYPE
1	HEX	01	TCATPISG	ISSUE SIGNAL REQUEST
1	HEX	20	TCATPASS	CLSDST PASS
1	HEX	40	TCATPPGM	PROGRAM REQUEST
1	HEX	80	TCATPEOD	EOD REQUEST
	ZISP REQUEST FLAGS			
1	HEX	01	TCATPALL	ALLOCATE REQUEST.
	POINT logic moved in-line to ISP			
1	HEX	03	TCATPFRE	FREE REQUEST.
1	HEX	04	TCATPFRD	FREE DETACH REQUEST
1	HEX	05	TCATPFRR	FREE RELEASE REQUEST
1	HEX	06	TCATPLUA	DFHLUC ALLOC REQUEST
1	HEX	07	TCATPLUF	DFHLUC FREE REQUEST
	ZIS1 CTYPE REQUEST FLAGS			
1	HEX	01	TCATPPRP	PREPARE REQUEST.
1	HEX	02	TCATPSPR	SPR REQUEST.
1	HEX	03	TCATPCMM	COMMIT REQUEST.
1	HEX	04	TCATPABT	ABORT REQUEST.
1	HEX	05	TCATPSRB	ROLLBACK request
1	HEX	06	TCATPERR	ISSUE-ERROR request
1	HEX	07	TCATPABN	ISSUE-ABEND request
1	HEX	08	TCATPSHU	SHUNT request

Table 620. *(continued)*

Len	Type	value	Name	Description
	ZLOC REQUEST FLAGS			
1	HEX	01	TCATPLOC	LOCATE REQUEST
1	HEX	02	TCATPATI	AUTOMATIC TASK INITIATION
1	HEX	05	TCATPUNL	UNLOCK REQUEST
1	HEX	08	TCATPLDR	LOGICAL DEVICE CODE REQUEST
1	HEX	20	TCATPSYN	SYNC-POINT REQUEST
1	HEX	21	TCATPRCY	RECOVER REQUEST
1	HEX	10	TCATPXLT	TRANSLATE ID TO UNIQUENAME (REQUEST
	ZDET REQUEST FLAGS			
1	HEX	10	TCATPDET	DETACH REQUEST
	ZSTU REQUEST FLAGS			
1	HEX	02	TCATPFOR	FORCEPURGE
1	HEX	03	TCATPPUR	TASK PURGE REQ(TCATPTA=TCA)
1	HEX	04	TCATPTST	STATUS REQUEST
	THE FOLLOWING REFER TO FIELD TCATPOS2 ZLOC REQUEST SETTINGS WITH CTYPE=LOCATE, 3 BITS SPECIFY THE FORM OF SEARCH ARGUMENT: THE INTERPRETATION OF THE 2 LOW-ORDER BITS IS MAINTAINED IN THE FOLLOWING, FOR COMPATIBILITY WITH CALLS IN OLD MODULES.				
1	HEX	00	TCATPLCL	LOCAL DOMAIN IE THIS CICS.
1	HEX	08	TCATPSTM	THE SYTEMS ENTRIES.
1	HEX	10	TCATPREM	REMOTE DOMAIN (ALL REGIONS)
1	HEX	18	TCATPGBL	ALL REGIONS, LOCAL & REMOTE
1	HEX	20	TCATPNIB	TERMINAL|SESSION, IDENTIFIED VIA
1	HEX	28	TCATPSES	SESSIONS, DEPENDENT ON SPECIFIED
1	HEX	30	TCATPGRP	LUC SESSIONS, DEPENDENT UPON A
1	HEX	38	TCATPMOD	MODE GROUP ENTRIES, DEPENDENT UPON
1	HEX	40	TCATPLUC	LUC SYSTEM OR SESSION DOMAIN

Table 620. (continued)

Len	Type	value	Name	Description
1	HEX	48	TCATPOOL	POOL TERMINALS DOMAIN
1	HEX	50	TCATPIRC	IRC SYSTEM DOMAIN
1	HEX	58	TCATPSUR	SURROGATE TCTTE DOMAIN
1	HEX	60	TCATPPRT	PRINTER SPOOLER DOMAIN
1	HEX	00	TCATPADR	ADDR OF PASSED TE|SE.
1	HEX	01	TCATPTID	ID REQUEST -- 4 BYTES GIVEN
1	HEX	02	TCATPNXT	ADDR GIVEN, NEXT REQUESTED
1	HEX	03	TCATPUNQ	UNIQUE COMPOUND NAME GIVEN
1	HEX	04	TCATPFST	FIRST-IN-DOMAIN REQUEST.
1	HEX	05	TCATPNET	PTR TO VTAM NETNAME GIVEN.
1	HEX	06	TCATPSID	COMPARE SIDS.
1	HEX	07	TCATPFM7	8TH FORMAT UNDEFINED.
		THE FOLLOWING REFER TO FIELD TCATPOC1		
1	HEX	01	TCATPWCI	CONTROL CHARACTER SUPPLIED
1	HEX	02	TCATPOFR	END OF FILE REQUEST
1	HEX	04	TCATPPBK	PASSBOOK REQUEST
1	HEX	08	TCATPCBR	COMMON BUFFER REQUEST
1	HEX	10	TCATPRAR	READ ATTENTION ANALYSIS
1	HEX	20	TCATPWBR	WRITE BREAK ANALYSIS
1	HEX	40	TCATP120	PLIST IS AT V1.2.0 LEVEL
1	HEX	80	TCATPDRR	DEFINITE RESPONSE REQUESTED
1	HEX	08	TCATOTTI	TTI ALLOWED
1	HEX	04	TCATNTTI	NO TTI ALLOWED
1	HEX	02	TCATOATI	ATI ALLOWED
1	HEX	01	TCATNATI	NO ATI ALLOWED

Table 620. (continued)

Len	Type	value	Name	Description
1	HEX	00	TCATPCOM	COMMUNICATION INDICATOR
PROGRAM CONTROL PRIMARY REQUEST BYTE VALUES				
1	HEX	01	TCAPCLNK	LINK
1	HEX	20	TCAPCEXT	SETEXIT
1	HEX	40	TCAPCABD	ABEND
1	HEX	41	TCAPCADC	ABEND AND CANCEL ALL EXITS *
1	HEX	60	TCAPCABA	ABEND WITH ABCODE
1	HEX	61	TCAPCACA	ABEND CANCEL EXITS WITH ACODE *
RESPONSE RETURN CODES				
1	HEX	00	TCAPCROK	NORMAL RESPONSE
1	HEX	02	TCAPCINV	INVALID PROGRAM CNTRL REQUEST *
1	HEX	03	TCAPCFFA	FAILURE FROM FETCH
1	HEX	04	TCAPCABN	ABEND RETURNED TO URM
1	HEX	01	TCAPCWAM	WRONG AMODE FOR LINK
1	HEX	02	TCAPCNON	PPT NOTFND, NOT PCLASS
PROGRAM CONTROL SECONDARY REQUEST BYTE VALUES				
1	HEX	02	TCAPCEXR	EXIT IS ROUTINE (SETEXIT) *
1	HEX	08	TCAPCREX	RESETEXIT (SETEXIT)
1	HEX	80	TCAPCNOD	SUPPRESS DUMP (WITH ABEND) *
CONSTANTS TCAPHTR EQUATES				
1	HEX	01	TCAPHPSI	TYPE=PSETLOAD
1	HEX	02	TCAPHPSC	TYPE=PSETCRT
1	HEX	03	TCAPHPIN	DECOMPOSE 3270E INBOUND
1	HEX	04	TCAPHPXE	INPUT FROM WRONG PARTITION
TCAPHRC EQUATES				
1	HEX	00	TCAPHROK	GOOD RETURN CODE

Table 620. (continued)

Len	Type	value	Name	Description
1	HEX	04	TCAPHNPS	PARTITION SET NOT KNOWN
1	HEX	08	TCAPHIPS	INVALID PARTITION SET
1	HEX	0C	TCAPHNP	PARTITION NOT KNOWN
1	HEX	10	TCAPHERR	IRRECOVERABLE ERROR
CONSTANTS THE FOLLOWING BELONG TO THE BYTE TCAMSRC1				
1	HEX	00	TCAMSNR1	NORMAL RESPONSE
THE FOLLOWING BELONG TO THE BYTE TCAMSTR4				
1	HEX	C0	TCAMSTDY	DATA = YES
THE FOLLOWING BELONG TO THE BYTE TCAMSJ				
1	HEX	FF	TCAMSJF	JUSTIFY = FIRST
1	HEX	FE	TCAMSJL	JUSTIFY = LAST
THE FOLLOWING CONSTANTS REFER TO TCASPRC				
1	HEX	00	TCASPRC0	NORMAL RETURN
1	HEX	01	TCASPRC1	Rolled Back
1	HEX	08	TCASPRC8	STATE ERROR
TCADLRC and TCADLTR are used to indicate the results of a DL/I related request. TCADLRC contains the Response Code and, where appropriate, TCADLTR contains the Reason Code to explain the response code further.				
TCADLRC may contain the following response codes:-				
1	HEX	00	TCADLNR	Normal Response
1	HEX	08	TCADLINV	Invalid Request (Reason in TCADLTR)
1	HEX	0C	TCADLNOP	Not Open (Reason in TCADLTR)
TCADLTR may contain the following response codes:- When Normal Response - TCADLRC=TCADLNR TCADLTR will also contain TCADLNR to indicate Normal Response When Invalid Request - TCADLRC=TCADLINV				
1	HEX	00	TCADLINA	Invalid Argument
1	HEX	00	TCADLPIN	PI Trace On (CEMT PITRACE only)
1	HEX	01	TCADLPNF	PSB Not Found in PDIR
1	HEX	03	TCADLSFS	Schedule Failure - A PSB is already scheduled
1	HEX	04	TCADLPIF	PI Trace Off (CEMT PITRACE only)

Table 620. (continued)

Len	Type	value	Name	Description
1	HEX	05	TCADLSFI	Schedule Failure - IMS unable to schedule PSB
1	HEX	07	TCADLTEF	Termination Failure - No PSB has been scheduled
1	HEX	08	TCADLFUF	Function Failure - No PSB has been scheduled
1	HEX	08	TCADLNPI	PI not being used (CEMT PITRACE only)
1	HEX	10	TCADLSFP	Schedule Failure - Invalid System Service parameter
1	HEX	14	TCADLFPX	Function prevented by User Exit XDLIPRE
1	HEX	1C	TCADLSTG	Unable to acquire storage
The following code applies to TCADLTR				
1	HEX	FF	TCADLNA	DL/I Support not available
When Not Open - TCADLRC=TCADLNOP				
1	HEX	00	TCADLDBC	Data Base not open
1	HEX	02	TCADLISC	Intent Scheduling Conflict
1	HEX	E1	TCATDCLO	- CTYPE=LOCATE
1	HEX	E4	TCATDBRW	- CTYPE=BROWSE
1	HEX	FC	TCATDCPT	- CTYPE=PUT
1	HEX	FD	TCATDCGT	- CTYPE=GET
1	HEX	FE	TCATDCPR	- CTYPE=PURGE
CONSTANTS The following refer to TCATSTR.				
1	HEX	00	TCATSNML	normal response
1	HEX	01	TCATSENE	entry number error
1	HEX	02	TCATSIDE	id error
1	HEX	04	TCATSIOE	input/output error
1	HEX	08	TCATSNOS	nospace error
1	HEX	20	TCATSINV	invalid request error
1	HEX	80	TCATSDUP	duplicate id error
THE FOLLOWING REFER TO TCATSCMD				
1	HEX	00	TCATSNRM	NORMAL
1	HEX	C0	TCATSHDR	SPECIAL HEADER. SPHDR.

Table 620. (continued)

Len	Type	value	Name	Description
CONSTANTS THE FOLLOWING BELONG TO THE BYTE TCADIRC1				
1	HEX	00	TCADIQNM	NORMAL RESPONSE
1	HEX	0C	TCADIQSL	SELECTION ERROR
THE FOLLOWING BELONG TO THE BYTE TCADIRC2				
1	HEX	01	TCADIQBE	BEGIN DESTINATION
1	HEX	02	TCADIQRE	RESUME DESTINATION
1	HEX	11	TCADIQEN	END DESTINATION
1	HEX	12	TCADIQSU	SUSPEND DESTINATION
1	HEX	13	TCADIQAB	ABORT DESTINATION INBOUND
1	HEX	14	TCADIQAY	ABORT DESTINATION OUTBOUND
1	HEX	15	TCADIQCN	CURRENTLY NO DATA TO SEND
1	HEX	21	TCADIQIF	INVALID FUNCTION
1	HEX	22	TCADIQLF	RECORD TOO LONG
1	HEX	23	TCADIQFD	DATA SET FULL
1	HEX	24	TCADIQIK	INVALID RECORD KEY OR
1	HEX	25	TCADIQID	I/O ERROR ON OUTBOARD DISK
1	HEX	26	TCADIQIB	INVALID NUMERICAL RECORD
1	HEX	28	TCADIQIR	INSUFFICIENT RESOURCE
1	HEX	29	TCADIQND	DATA SET NOT FOUND
1	HEX	2A	TCADIQTD	DATA SET ALREADY EXISTS
1	HEX	2B	TCADIQCD	REQUEST CHANGE DIRECTION ERROR
1	HEX	41	TCADIQXD	DESTINATION DOES NOT EXIST
1	HEX	42	TCADIQBD	BUSY DATA SET
1	HEX	43	TCADIQXM	SELECT VALUE NOT SUPPORTED

Table 620. (continued)

Len	Type	value	Name	Description
1	HEX	44	TCADIQLD	DESTINATION NAME LENGTH
1	HEX	45	TCADIQIV	INVALID VOLUME
1	HEX	46	TCADIQLV	VOLUME NAME LENGTH ERROR
1	HEX	47	TCADIQTT	TRANSMIT DATASET ATERM
1	HEX	48	TCADIQAV	ACTIVE DESTINATION SELECTED
1	HEX	60	TCADIQTS	TEMPORARY STORAGE ERROR
1	HEX	F1	TCADIQUF	UNEXPECTED SENSE CODE RECV
1	HEX	F2	TCADIQUA	INVALID INPUT RECEIVED
1	HEX	F3	TCADIQUI	UNSUPPORTED INPUT RECEIVED
	THE FOLLOWING BELONG TO THE BYTE TCADIFL1			
1	HEX	01	TCADIFOA	TYPE=ADD
1	HEX	02	TCADIFOE	TYPE=ERASE
1	HEX	03	TCADIFOR	TYPE=REPLACE
1	HEX	04	TCADIFAB	TYPE=ABORT
1	HEX	05	TCADIFOQ	TYPE=QUERY
1	HEX	06	TCADIFEN	TYPE=END
1	HEX	07	TCADIFIR	TYPE=RECEIVE
1	HEX	08	TCADIFNT	TYPE=NOTE
1	HEX	09	TCADIFDT	TYPE=DETACH
1	HEX	0A	TCADIFIB	TYPE=ATTACH
1	HEX	0B	TCADIFOS	TYPE=SEND
1	HEX	0C	TCADIFCK	TYPE=WAIT
1	HEX	0D	TCADIFCA	CTYPE=ABORT
1	HEX	00	TCADIRLE	RELEASE LEVEL

ZRPL CICS VTAM RPL extension

```
CONTROL BLOCK NAME = DFHTCLPS
DESCRIPTIVE NAME  = CICS VTAM RPL and CICS Extension
 @BANNER_START 02

                      DFHTCLPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = CICS extension to the VTAM Request Parameter List
          for HPO (VTAM authorised path - SRB mode requests)
          The RPL is the parameter list used for VTAM request
```

```
                        macros. A CICS extension, used mainly for requests
                        made using HPO, is appended to it. The RPL and
                        extension are always getmained together but the
                        length of the extension does not affect RPLLEN (used
                        with the VTAM API).
         LIFETIME = Receive Any RPLs are getmained during initialisation
                        by DFHZRPL and are never freemained.
                        RPLs for other VTAM requests have task lifetime and
                        are getmained/freemained by ZGET/ZFRE
         STORAGE CLASS = Receive Any RPLS are in the RAPOOL in subpool
                           DFHAPD24.
                           Other VTAM RPLs are in subpool ZCRPL
         LOCATION = The RAPOOL is addressed by TCTVRVRA
                       Other RPLs are addressed by TCTERPLA
          INNER CONTROL BLOCKS = None
          NOTES :
           DEPENDENCIES = S/370
           RESTRICTIONS =
           MODULE TYPE = Control block definition
         ----------------------------------------------------------------
          EXTERNAL REFERENCES =
            DATA AREAS =
            CONTROL BLOCKS =
            GLOBAL VARIABLES (Macro pass) = VTAM AMSI globals are set
         ----------------------------------------------------------------
            CICS VTAM RPL Extension
            - to match the assembler dsect which is aligned on a full
              word boundary, this definition must start at the next
              full word after the end of the VTAM RPL extension.
```

Table 621.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	36	ZRPLEXTN	
(0)	ADDRESS	4	ZRPLCOMP	Completion address(on exit from SRB)
(0)	ADDRESS	4	ZRPLLINK	Exit link register save
(4)	ADDRESS	4	ZRPLTCTE	Actual TCTTE address
(8)	ADDRESS	4	ZRPLRETA	Return address from ZHPSR
(C)	ADDRESS	4	ZRPLERXA	LERAD or SYNAD entry point
(10)	ADDRESS	4	ZRPLSCHN	SRB chain
(14)	ADDRESS	4	ZRPLRSAX	SRB reg save area address
(18)	ADDRESS	4	ZRPLHPXA	SRB RPL executor ep address
(1C)	ADDRESS	4	ZRPLWRK1	SRB work field
(20)	BIT(8)	1	*	
	1...		ZRPLZCL	Exit being called from ZDSP
	.1..		ZRPLECB	ECB to be posted by ZDSP
	..1.		ZRPLNHT	No HTA used with request

Table 621. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		ZRPLLRQ	Long-term SRB
	.... 1...		ZRPLSRB	RPL executed in SRB mode
	.... .1..		ZRPLQIP	RPL on completion que for ZRLP
	.... ..1.		ZRPLNRC	Notify when on completion queue
	1		ZRPLNRE	Caller handles No-TCT errs
(21)	BIT(8)	1	*	
	1...		ZRPLERR	ZHPCH must call exit (ZSYX/ZLEX)
(22)	CHARACTER	2	*	Reserved
(24)	CHARACTER	0	*	Alignment

TCRWE Remote install work element

```
                CONTROL BLOCK NAME = DFHTCRWE
                DESCRIPTIVE NAME  = CICS/ESA Remote Install Work Element
                 @BANNER_START 02

                                  DFHTCRWE
                 Licensed Materials - Property of IBM
                 "Restricted Materials of IBM"
                 5655-S97
                 @BANNER_END
                FUNCTION = Store remote install/remote delete data for use by
                           module DFHZATS. The DSECT is used exclusively by
                           DFHZTSP DFHCRS and DFHZATS.
                           The WE contains:
                           FIELD LENGTH
                           ===== ======
                           Request type 1 byte
                           ECB 1 byte
                           Reserved 2 bytes
                           Terminal ID 4 bytes
                           Remote system ID 4 bytes
                           TCSE address 4 bytes
                           Netname 8 bytes
                           Pointer to BPS 4 bytes
                           New TCTTE address 4 bytes
                           Token 8 bytes
                LIFETIME = Storage is obtained by a GETMAIN issued by the calling
                           module (DFHZTSP or DFHCRS) and released by a FREEMAIN
                           following completion or failure of the remote install or
                           remote delete. In the event of the calling program
                           ABENDing before completion of the remote install or
                           delete storage is released by DFHZATS.
                STORAGE CLASS = Shared
                LOCATION = The address is placed in TCAFCAAA for retrieval by
                           DFHZATS
                NOTES :
                   DEPENDENCIES = S/370
                   RESTRICTIONS = NONE
                   MODULE TYPE = DSECT
                 ----------------------------------------------------------------
                   PLS DECLARATION OF THE REMOTE WORK ELEMENT
```

Table 622.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	TCTRWE	
(0)	CHARACTER	1	RWETYPE	Request type
(1)	CHARACTER	1	RWEECB	ECB
	1...		RWEIHA	Initiating program has ABENDed
	.1..		RWEPOST	TCTTE built OK
	..1.		RWESHA	Remote install prog. ABENDed
	...1		RWEDUP	Duplicate TCTTE found
	.... 1...		*	Reserved
	.... .1..		RWETOK	TCTTE has a token
	.... ..1.		RWEBITM	RT bit map used
	1		*	Reserved
(2)	BIT(8)	1	RWE_FLAG	Input flags
	1...		RWERSE	Remote system entry
	.1..		RWESTERM	Shipped terminal definition
	..1.		RWE_VT	Virtual Terminal
(3)	CHARACTER	1	RWEPAD	Reserved
(4)	CHARACTER	52	RWEVAR	
(4)	CHARACTER	4	RWETERM	Terminal ID
(8)	CHARACTER	4	RWESID	Remote system ID
(C)	ADDRESS	4	RWESADDR	TCSE address
(10)	CHARACTER	8	RWENETN	Netname
(18)	ADDRESS	4	RWEBPS	Address of BPS
(1C)	ADDRESS	4	RWETCTAD	New TCTTE address
(20)	CHARACTER	8	RWETOKEN	Token
(28)	CHARACTER	8	RWECORID	Correlation Id of terminal
(30)	CHARACTER	8	RWENETOR	TOR Netname

Constants

Table 623.

Len	Type	value	Name	Description
1	HEX	08	RWEINST	Install requested
1	HEX	04	RWEDEL	Remote delete request
1	HEX	02	RWEMDEL	Mass delete request
1	HEX	01	RWEFDEL	Mass flag request

TCTWE VTAM Autoinstall work element

```
!Bilingual Control block
!====================================================================
!
!CONTROL BLOCK NAME = DFHTCTWE
!
!DESCRIPTIVE NAME  = CICS (VTAM) AUTOINSTALL WORK EMEMENT
!
! @BANNER_START 02
! DFHTCTWE
! Licensed Materials - Property of IBM
!
! "Restricted Materials of IBM"
!
! 5655-S97
!
!
!
!
!
! @BANNER_END
!
!
!FUNCTION = Provide mapping for autoinstall work element components.
!
! The DSECT is used solely within the ZCP DOMAIN.
!
! There are as many WE's as there are autoinstall requests
! in progress.
!
! The WE is used to store the CINIT_RU or BIND so that the
! logon may be attempted by DFHZATA.
!
! If the WE contains a TCTTE address then this is a
! Postponed autoinstall work elemment (PWE), created by
! DFHZLGX when there is a LOGON for a TCTTE which is
! currently being deleted.
!
! If the WE has TCTTECWE set then it is a Autoin-
! stall Work Element used to autoinstall a
! console and to sign-off or sign-on a known
! console automatically.
!
!LIFETIME = The WE is created by a GETMAIN issued by DFHZLGX
! (LOGON-EXIT) or DFHZSCX (SCIP exit) or DFHZCNA
! (Console Input) when an unknown terminal or
! console or APPC device attempts to LOGON or BIND
! or an unknown console issues an MVS MODIFY. It
! is also created if a known console needs to be
! signed-off or signed-on automatically.
! It is also created for a known terminal subject to
! certain restrictions. The WE is freed by DFHZNCA
! after DFHZNEP is driven for the OPNDST contition
! TWAEC=TCSOPSIN or prior to DFHZNEP being driven for
! a CLSDST contition TWAEC=TCACLSIN.
!
! The WE is freed by DFHZATA when the request has been
! processed.
!
!STORAGE CLASS = USER(OS - SUBPOOL 1)
!
!LOCATION = For unknown terminals, each WE is chained off the
! previous one and the first one is anchored from
! TCTVANWE in the TCT prefix. After the TCTTE is
! built by DFHZATA for autoinstall-eligible devices,
! the WE address is saved in TCTEAWEA. For known
```

```
                    ! terminals, DFHZLGX updates TCTEAWEA.
                    !
                    !INNER CONTROL BLOCKS = NONE
                    !
                    !NOTES :
                    ! DEPENDENCIES = S/370
                    ! RESTRICTIONS = NONE
                    ! MODULE TYPE = DSECT
                    !
                    !-----------------------------------------------------------------
                    !
                    !EXTERNAL REFERENCES = NONE
                    !
                    ! DATA AREAS = NONE
                    !
                    ! CONTROL BLOCKS = NONE
                    !
                    ! GLOBAL VARIABLES (MACRO PASS) = NONE
                    !
                    !-----------------------------------------------------------------
                    !
                    !
                    !
                    !=================================================================
                    !=================================================================
                    ! AUTOINSTALL WORK - ELEMENT DSECT
                    !=================================================================
```

Table 624.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHTCTWE	Autoinstall work element !
(0)	ADDRESS	4	TCTWECHN	- AWE chain field !
(4)	ADDRESS	4	TCTWE_VTAM_BIND	- address of VTAM read only bind @P2A!
(8)	UNSIGNED	1	TCTWETYP	- Data type ID !
(9)	UNSIGNED	3	TCTWELEN	- Length of this block !
(C)	ADDRESS	4	TCTWETEA	- TCTTE ptr if PWE. !
(10)	CHARACTER	8	TCTWE_TEMPLATE_ NETNAME	
				- NETNAME of GR template @L1A!
(18)	CHARACTER	8	TCTWE_NETNAME	- NETNAME for CICS use. Possible alias @D3A!
(20)	CHARACTER	8	TCTWE_NETID	- Network ID @L1A!
(28)	CHARACTER	8	TCTWE_REAL_ NETNAME	- NETNAME from NRINPLU
(30)	CHARACTER	4	TCTWECID	- VTAM CID !
(34)	UNSIGNED	2	TCTWE_RPLSEQNO	- for opnsec !
(36)	UNSIGNED	1	*	- flag byte 1 !
	1...		TCTWE_BIND_ CLONING	
				- On if APPC bind input !

Table 624. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		TCTWE_GR	- On if both sides are GR registered @L1A!
	..1.		TCTWE_GRNAME_CONN	- On if this GR conn is known by its GR name. @L1A! - Off if this is a GR @L1A! conn known by its @L1A! member name. @L1A!
	...1		TCTWE_USE_OUR_MEMBER_NAME	
				- On if partner knows us @L1A! by our member name @L1A! (NRINNAMS) @L1A! - Off if partner knows @L1A! us by our GR name @L1A! ^(NRINNAMS)
	.... 1...		TCTWE_DIFF_NETWORK	
				- Exit found alias from @D3A! different network
	.... .1..		TCTWE_INSTALL_UDSS04	
				- inst Netname from udss04 in bind
(37)	UNSIGNED	1	*	- flag byte 1 !
(38)	HALFWORD	2	TCTWE_TNADDR_LENGTH	
				- length of tnaddr in AWE@D4A!
(3A)	HALFWORD	2	TCTWECLN	- length of CINIT_RU or !
(3A)	HALFWORD	2	TCTWE_BIND_LENGTH	- length of APPC BIND !
(3C)	CHARACTER	*	TCTWECRU	- CINIT_RU or !
(3C)	CHARACTER	*	TCTWE_BIND	- APPC BIND !

Table 625.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TCTWE_TNADDR_S	TNADDR string after CINIT@D4A!
(0)	CHARACTER	1	*	@D4A!
(1)	CHARACTER	*	TCTWE_TNADDR	IP addr, port, hostname

```
!=========================================================
! Autoinstall Work Element - Console Overlay
!=========================================================
```

Table 626.

Offset Hex	Type	Len	Name (dim)	Description
(30)	STRUCTURE	*	TCTCWE	Console work element @01A!
(30)	HALFWORD	2	TCTCWE_DATAL	- Length of input @01A!
(32)	UNSIGNED	1	TCTCWE_FLG	- Flag byte @01A!
	1...		TCTCWE_EXT	- Ext cons support @01A!
	.1..		TCTCWE_SEC	- Userid present @01A!
	..1.		TCTCWE_SGN	- Sign-Off/Sign-On @01A!
	...1 1111		*	Reserved @01A!
(33)	CHARACTER	1	*	Reserved @01A!
(34)	CHARACTER	8	TCTCWE_CART	- Saved CIBXCART @01A!
(3C)	CHARACTER	4	TCTCWE_CNID	- CIBXCNID|CIBXOCID @01A!
(40)	CHARACTER	8	TCTCWE_CNNM	- Saved CIBXCNNM @01A!
(40)	CHARACTER	1	TCTCWE_CONID	- Saved CIBCONID @01A!
(41)	CHARACTER	7	*	Reserved @01A!
(48)	CHARACTER	10	TCTCWE_USERID	- Userid signed on @01A!
(52)	HALFWORD	2	TCTCWE_ USERID_LEN	- length of userid @01A!
(54)	CHARACTER	4	TCTCWE_TERMID	- Termid for signon @01A!
(58)	ADDRESS	4	TCTCWE_CHAIN	- Active WE chain
(5C)	CHARACTER	*	TCTCWE_DATA	- Input from console @01A!

TCTFX Terminal control table prefix

```
CONTROL BLOCK NAME = DFHTCTFS
DESCRIPTIVE NAME  = CICS TERMINAL CONTROL TABLE PREFIX
 @BANNER_START 02
                        DFHTCTFS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = The TCT Prefix is the anchor block for Terminal
           Control. It is used by most TC and ZC modules.
 NOTES :
 DEPENDENCIES = S/370
```

```
                     RESTRICTIONS = none
                     MODULE TYPE = Control block definition
             -------------------------------------------------------------
              EXTERNAL REFERENCES =
                DATA AREAS =
                CONTROL BLOCKS =
                GLOBAL VARIABLES (Macro pass) =
             -------------------------------------------------------------
                                         TCTVFRPA, TCTVFRMX, TCTVFRCX
```

Table 627.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	904	DFHTCTFX	TCT Prefix
Addresses of key areas				
(0)	ADDRESS	4	TCTVWLA	Address of the wait list
(4)	ADDRESS	4	TCTVWLA1	First non-VTAM wait list entry
(8)	ADDRESS	4	TCTVCSAA	Pointer to CSA address
(C)	ADDRESS	4	TCTVCSAD	CSA address saved by SIF1
(10)	ADDRESS	4	TCTVADCB	A(non VTAM OPN/CLS list)
(14)	ADDRESS	4	TCTVTIHA	Address of term id hash list
(18)	ADDRESS	4	TCTVTATA	Address of term id addr table
(1C)	ADDRESS	4	TCTVTEBA	Address of first TCTTE
(20)	FULLWORD	4	TCTVDRSA	Dispatcher base reg. save
(24)	ADDRESS	4	TCTVDMTE	Address of dummy terminal
(28)	ADDRESS	4	TCTVRSAA	Address of reg. save stack
(2C)	FULLWORD	4	TCTVCNTE	Current NACP term entry addr.
(30)	CHARACTER	8	TCTVLVLR	CICS functions required
(38)	ADDRESS	4	TCTVMODL	Address of module list
(3C)	ADDRESS	4	TCTVSEBA	Address of first System Entry
(40)	CHARACTER	4	TCTVZQTI	Resource name for BPS trace
(44)	ADDRESS	4	TCTVATTB	Address of attach tables
(48)	CHARACTER	4	TCTVLVL	ASM time release level
(4C)	CHARACTER	8	TCTVLVLI	ASM time functions support

Table 627. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	CHARACTER	8	TCTVLVLM	CICS functions supported
(5C)	CHARACTER	8	TCTVLVLB	RUN-TIME function support
(5C)	BIT(8)	1	TCTVLVL0	Function support byte 0
(5D)	BIT(8)	1	TCTVLVL1	Function support byte 1
	1...		*	80
	.1..		*	40
	..1.		*	20
	...1		*	10
	.... 1...		TCTVUSFD	08 ACB USERFLD supported
	.... .1..		*	04
	.... ..1.		*	02
	1		TCTVLUNS	01 Resource ID vector
(5E)	BIT(8)	1	TCTVLVL2	Function support byte 2
	1...		*	80
	.1..		*	40
	..1.		*	20
	...1		TCTVXRFS	10 VTAM API is XRF capable
	.... 1...		TCTVCLSS	08 CLSDST sense codes supptd
	.... .1..		TCTVSSON	04 Sending SONCODE supported
	.... ..1.		TCTVSLHO	02 SETLOGON HOLD supported
	1		*	01
(5F)	BIT(8)	1	TCTVLVL3	Function support byte 3
	1...		TCTV31BA	80 31-bit addr support
	.1..		TCTVQRN	40 Queued response NOTFN
	..1.		*	20
	...1		TCTVUVAR	10 INQUIRE USERVAR supp.
	.... 1...		*	08
	.... .1..		*	04
	.... ..1.		*	02
	1		*	01

Table 627. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(60)	BIT(8)	1	TCTVLVL4	Function support byte 4
	1...		*	80
	.1..		TCTVPLUS	40 Per. Sess. terminals supported
	..1.		*	20
	...1		*	10
	.... 1...		TCTVPLUT	08 Per. Sess. APPC, LU61 & terminals supported
	.... .1..		*	04
	.... ..1.		*	02
	1		*	01
(61)	BIT(8)	1	TCTVLVL5	Function support byte 5
	1...		*	80
	.1..		*	40
	..1.		*	20
	...1		*	10
	.... 1...		*	08
	.... .1..		*	04
	.... ..1.		*	02
	1		*	01
(62)	BIT(8)	1	TCTVLVL6	Function support byte 6
	1...		*	80
	.1..		*	40
	..1.		*	20
	...1		*	10
	.... 1...		*	08
	.... .1..		*	04
	.... ..1.		*	02
	1		*	01
(63)	BIT(8)	1	TCTVLVL7	Function support byte 7
	1...		*	80
	.1..		*	40
	..1.		*	20
	...1		*	10
	.... 1...		*	08
	.... .1..		*	04
	.... ..1.		*	02

Table 627. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		*	01
(64)	BIT(8)	1	TCTVPNTK	Print key value
(65)	BIT(8)	1	TCTVEODI	BSAM End of Device Ind
(66)	UNSIGNED	2	TCTVSKLN	Number of remote terminals
(68)	ADDRESS	4	TCTVSKAD	Address of 'REMOTE' index
(68)	ADDRESS	4	TCTVPOOL	'Til TCRP. then anchor for chain of PIPELINE POOLS
(6C)	ADDRESS	4	TCTVMDAD	Address of model terminal entries
(70)	ADDRESS	4	TCTVMDND	End of model entries
(74)	ADDRESS	4	TCTVDSPA	Address of ZDSP DSSR plist
(78)	ADDRESS	4	TCTVSUT	Suspend token for DFHZNAC
(7C)	ADDRESS	4	TCTVVPLS	Saved VTAM parm list addr
(80)	ADDRESS	4	TCTV_APPC_BITMAP	APPC Session BITMAP ptr
(84)	ADDRESS	4	TCTV_MRO_BITMAP	MRO session name BITMAP
(88)	ADDRESS	4	TCTVADEF	Address of AUTODEF 'extension'
(8C)	HALFWORD	2	TCTVTCNT	Task count for ZRAC
(8E)	HALFWORD	2	TCTVNQCT	ENQ count for TCTI NAMESPACE
(90)	HALFWORD	2	TCTVNPRC	'no primed' RPLs' count
This area (from TCTV_TRACE to TCTV_TRACE_LEN) is traced in some ZC level 1 trace formats				
(92)	CHARACTER	14	TCTV_TRACE	TCT prefix trace area
(92)	BIT(8)	1	*	HPO & shutdown flags
	1...		TCTVHPOA	80 HPO active in system
	.1..		TCTVSLS	40 DFHZSLS entered
	..1.		TCTV_RA_STALL	20 All RAs stuck
	...1		TCTVSLR	10 Shutdown LR CNOS in prog
	.... 1...		TCTVSHM	08 Shutdown message issued
	.... .1..		TCTVSLG	04 SETLOGON quiesce issued

Table 627. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		TCTVSHU	02 DFHZSHU control flag
	1		TCTVNATF	01 No attaches this dispatch
(93)	BIT(8)	1	TCTVSDST	Shutdown stage Shutdown Quiesce codes ... Move in stages from one to another as stage complete X'00' No shutdown, Etc...
(94)	BIT(8)	1	TCTVSCSW	Start up & close down switch
	1...		TCTVDC	80 TPEND exit invoked
	.1..		TCTVDO	40 DYNAMIC OPEN invoked
	..1.		TCTVVSG	20 VTAM TCTTEs generated
	...1		TCTVOA	10 ACB open
	.... 1...		TCTVVFQ	08 VTAM is quiesced
	.... .1..		TCTVVTHA	04 VTAM ABENDED
	.... ..1.		TCTVVTHQ	02 Quick VTAM close
	1		TCTVVTHO	01 Orderly VTAM close
TCTVVTQS EQU TCTVVTHO+TCTVVTHQ+TCTVVTHA VTAM quiescing.				
(95)	BIT(8)	1	TCTVRESP	SYS +resp level used byte
	1...		TCTVFC	80 FORCECLOSE requested
	.1..		TCTVAF	40 ACB close failed
	..1.		TCTVCIQ	20 CICS INIT'D ZC CLOSE
	...1		*	10
	.... 1...		TCTVFME	08 Use FME outbound
	.... .1..		TCTVRRN	04 Use RRN outbound
	.... ..1.		TCTVISC	02 ISC modules loaded
	1		TCTVBFQ	01 Non VTAM quiesce
(96)	BIT(8)	1	TCTVSQUE	System service queue controls
	1...		TCTVNAC	80 NACP already scheduled
	.1..		*	40

Table 627. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
	..1.		TCTVVAP	20 VTAM authorised path
	...1		TCTVVRZ	10 RPL for ZDSP from ZHPRX
	.... 1...		TCTVXNP	08 New work for NACP
	.... .1..		TCTVNSU	04 DFHZNAC suspended
	.... ..1.		TCTVNOP	02 OPDLIM NOT REQ.
	1		*	01
(97)	BIT(8)	1	TCTVAPPL	Length of APPLID
(98)	CHARACTER	8	TCTVAPPN	VTAM APPLID
TCTV_TRACE_LEN End of prefix trace area				
(A0)	ADDRESS	4	TCTVLUN	Address of VTAM LU name
(A4)	ADDRESS	4	TCTVIRCH	Address of first IRC TCSE
(A4)	ADDRESS	4	TCTV_MRO_HEAD	Alternative name for TCTVIRCH
(A8)	ADDRESS	4	TCTVSLUT	Address of LDC lookup-table
(AC)	CHARACTER	3	TCTVNQTI	TASKID with TCTI NAMESPACE lock
(AF)	BIT(8)	1	*	XRF bit
	1...		TCTVXBC	80 DFHTCBP completed
	.1..		TCTVXRT	40 CEMT P SHUT TAKEOVER
	..1.		TCTVXTS	20 Terminal sw scan begun
	...1		*	10
	.... 1...		*	08
	.... .1..		*	04
	.... ..1.		*	02
	1		*	01
(B0)	HALFWORD	2	TCTVXSBC	No. STANDBY BOUND sessions
(B2)	CHARACTER	2	TCTVCUID	Current/last XRF catch up ID.
(B4)	ADDRESS	4	TCTVMGRP	Address of first mode entry
3270 command constant area				
(B8)	CHARACTER	0	*	Alignment
(B8)	BIT(8)	1	TCTV32EA	Erase unprotected '6F'

Table 627. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B9)	BIT(8)	1	TCTV32RB	Read buffer 'F2'
(BA)	BIT(16)	2	TCTV32PT	Print 'F1F8'
(BC)	BIT(16)	2	TCTV32P4	Print model one 'F1D8'
(BE)	HALFWORD	2	TCTVSLCT	LDC look-up count
(C0)	ADDRESS	4	TCTVTRTA	Address of translate tables
OS Console Support area				
(C4)	ADDRESS	4	TCTVSECB	System communication ECB
(C8)	ADDRESS	4	TCTVCSCL	Cmnd scheduler commun. list
(CC)	ADDRESS	4	TCTVWLSE	Wait list entry
(D0)	ADDRESS	4	TCTVCCE	First Console Control Element
(D4)	ADDRESS	4	TCTVCTCT	First Console TCTTE
(D8)	ADDRESS	4	TCTVCDME	Dummy ECB
(DC)	ADDRESS	4	TCTVCWA	Console Work Area
(E0)	CHARACTER	8	TCTVJBNM	CICS system jobname
OS Console flags				
(E8)	BIT(8)	1	TCTVCONF	Console flag byte
	1...		*	80
	.1..		*	40
	..1.		TCTV_CCE_TASK	20 ZCNA task loop reqd.
	...1		TCTV_CCE_ATI	10 ZCNA ATI loop reqd.
	.... 1...		TCTVCFQ	08 Quiesce is COMPLETE
	.... .1..		TCTVCSQ	04 Quiesce IN PROGRESS
	.... ..1.		TCTVCNE	02 DFHZCNC is ACTIVE
	1		TCTVCAC	01 Console abnormal condition
(E9)	CHARACTER	3	*	Reserved
END OF COMMON SECTION				
(EC)	FULLWORD	4	TCTVSDXT	TC Shudown, Threshold Expiration Time
(F0)	ADDRESS	4	TCTVRVRA	Addr of 'RVCE ANY' RPL pool
(F4)	ADDRESS	4	TCTVLNIB	Address of NIB list (INC IRC)

Table 627. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F8)	ADDRESS	4	TCTVCNIB	Fixed NIB for LOGON X
(FC)	ADDRESS	4	TCTVACBA	Address of VTAM ACB/EXLST
(100)	ADDRESS	4	TCTVCRPL	CLSDST RPL for LOGON X
(104)	ADDRESS	4	TCTVSLDC	System default LDC table
(108)	ADDRESS	4	TCTVSLSS	SETLOGON START save area
(108)	ADDRESS	4	TCTVASRR	Save area for ACTIVATE SCAN
(10C)	ADDRESS	4	TCTVTCTE	End of TCT
Chain pointers for TCP				
(110)	CHARACTER	0	*	Double word alignment VTAM Activate process chain
(110)	FULLWORD	4	TCTVAA1	First entry
(114)	FULLWORD	4	TCTVAA2	Last entry VTAM Activate queueing chain
(118)	FULLWORD	4	TCTVAA3	First entry
(11C)	FULLWORD	4	TCTVAA4	Last entry LOGGING/ERROR queue chains
(120)	ADDRESS	4	TCTV_LU61_HEAD	LU61 system chain
(124)	ADDRESS	4	TCTV_REMDEL_HEAD	RemDel system chain
(128)	FULLWORD	4	TCTCATWE	Console autoinst WE
(12C)	FULLWORD	4	TCTZGINE	DFHZGIN RPL ELEMENTS
(130)	FULLWORD	4	TCTVSRQ	System error Q for NACP First on queue
(134)	FULLWORD	4	TCTVSRQE	System error queue for NACP Last on queue
(138)	FULLWORD	4	TCTVPOAC	Previous TCTTE on Act. chain
(13C)	FULLWORD	4	TCTVRPLA	RPL QUICK-CELL chain anchor First on free queue
(140)	UNSIGNED	1	TCTV_ZBLX_ ERR_OFFSET	
				error offset in SCIP
(141)	CHARACTER	7	*	Reserved
VTAM control area pointers				

Table 627. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(148)	ADDRESS	4	TCTVMNIB	Address of model NIBS
(14C)	ADDRESS	4	TCTVRPL2	Address of RPL for VTAM 3270
(150)	ADDRESS	4	TCTVRPLS	Address of RPL for RESETSR
(154)	ADDRESS	4	TCTVXQOA	Anchor for XRF TRACKINQ Q'S
(158)	HALFWORD	2	TCTVRPLN	RPL length
(15A)	HALFWORD	2	TCTVDOC	Dynamic open count
Process control switches				
(15C)	UNSIGNED	1	TCTVSDWT	TC Shutdown Wait from SIT TCSWAIT
(15D)	BIT(8)	1	*	TC Shutdown Flag Byte
	1...		TCTVSDUB	80 Action from SIT TCSACTN On = UNBIND Off = NONE or FORCE
	.1..		TCTVSDTFO	40 Action from SIT TCSACTN On = FORCE Off = NONE or UNBIND
	..1.		TCTVSDTX	20 Threshold Expired On = TC Shutdown end time expired (sessions hung) Off = TC Shutdown end time not expire
	...1		TCTVSDTD	10 Threshold Disabled On = TC Shutdown threshold disabled (no msgs produced) Off = TC Shutdown threshold enabled (msgs produced)
	.... 1...		TCTVSDTD6	08 Threshold Disabled for LU62 and LU61 On = TC Shutdown threshold disabled (no msgs produced) Off = TC Shutdown threshold enabled (msgs produced)

Table 627. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		TCTVSDTI	04 Treshold Intiated On = TS Shutdown initiated and end time calculated Off = TC Shutdown not initiated, and no end time
	.... ..1.		TCTVRAPLF	02 On = RAPOOL FORCE
	1		TCTV_RA_ 2118_ISSUED	
				01 On if RA STALL
(15E)	HALFWORD	2	TCTVRMAX	'RCVE ANY' max size
(160)	HALFWORD	2	TCTVRMIN	'RCVE ANY' min size
(162)	CHARACTER	2	TCTVRASW	'RCVE ANY' stat work area PL2
(164)	CHARACTER	2	TCTVRAHC	'RCVE ANY' high water mark PL2
(166)	CHARACTER	2	TCTVOCC	OPNDST/CLSDST reqt limit PL2
(168)	CHARACTER	4	TCTVRANT	No. times high water hit PL4
(16C)	FULLWORD	4	TCTVAPCC	Act. process chain DOS CCB
(16C)	FULLWORD	4	TCTVAPCE	VTAM Act. process chain ECB
(170)	CHARACTER	128	TCTVXRPL	RPL initialising mask area
VIO trace				
(1F0)	UNSIGNED	1	TCTVIOBL	Max L2 VIO bufflst entries
(1F1)	UNSIGNED	1	TCTVIOL1	Max lev 1 VIO data length
(1F2)	HALFWORD	2	TCTVIOL2	Max lev 2 VIO data length
ECB to prevent ZGRP running before ZSLS during startup				
(1F4)	UNSIGNED	4	TCTV_ZSLS_ECB	Make ZGRP run after ZSLS
Addresses for SRB exits				
(1F8)	FULLWORD	4	TCTVZHPR	Lock field for ZHPRX
SRB mode 'RCVE ANY' counts				
(1FC)	CHARACTER	2	TCTVRAVC	Current active RA RPL count
(1FE)	CHARACTER	2	TCTVRAVL	Limit of active SRB mode RA
TCTVRARP is the anchor address for a chain of RPLs.				

Table 627. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(200)	FULLWORD	4	TCTVRARP	'RCVE ANY' RPL Q for ZHPRX
(204)	FULLWORD	4	TCTVRINC	'RCVE ANY' RPL CDS counter
AUTOINSTALL data				
(208)	FULLWORD	4	TCTVMXWE	Limit of concurrent requests
(20C)	FULLWORD	4	TCTVACWE	Number currently active
(210)	ADDRESS	4	TCTVANWE	Address of first WE ON chain
(214)	BIT(8)	1	TCTVADFG	Flag Byte
	1...		TCTVADEN	80 external ENA|DIS indicator
	.1..		TCTVADIN	40 internal ENA|DIS indicator
	..1.		TCTVADDF	20 delayed delete failed
	...1		TCTVNONO	10 CLSDST PASS no notify
	.... 1...		TCTVAIRU	08 TCTTE can be reused (AILDELAY ^= 0)
	.... .1..		TCTVSLHI	04 SETLOGON HOLD done
	.... ..1.		TCTVAITR	02 Trace Autoinstall
(215)	CHARACTER	8	TCTVAXIT	User program name
(21D)	BIT(8)	1	TCTVAICN	Console autoinstall
	1...		TCTVAICE	80 external ENA|DIS
	.1..		TCTVAICA	40 external AUTO
	..1.		TCTVAICY	20 external YES|NO
AUTOINSTALL Statistics information				
(21E)	HALFWORD	2	TCTVADSH	Number of times max value reached
(220)	FULLWORD	4	TCTVADRJ	Number of requests rejected
(224)	FULLWORD	4	TCTVADLO	Number of delete's
(228)	HALFWORD	2	TCTVADAT	Total number of requests attempted
(22A)	HALFWORD	2	TCTVADPK	Peak concurrent requests
(22C)	HALFWORD	2	TCTVADPX	Incidence of peak requests
Fully Qualified LU Name				

Table 627. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(22E)	BIT(8)	1	TCTVQLUL	Length of fully qualified LU name
(22F)	CHARACTER	17	TCTVQLUN	Fully qualified LU name
RSA for entry to TCP				
(240)	CHARACTER	72	TCTVKRSA	Reg save area KCP to TCP
RSA for VTAM exit calls				
(288)	FULLWORD	4	TCTVEVRA	Save area VTAM return address
(28C)	CHARACTER	12	TCTVERSA	RSA for VTAM exits
(298)	FULLWORD	4	TCTVER14	Register 14
(29C)	FULLWORD	4	TCTVER15	Register 15
(2A0)	FULLWORD	4	TCTVER0	Register 0
(2A4)	FULLWORD	4	TCTVER1	Register 1
(2A8)	FULLWORD	4	TCTVER2	Register 2
(2AC)	FULLWORD	4	TCTVER3	Register 3
(2B0)	FULLWORD	4	TCTVER4	Register 4
(2B4)	FULLWORD	4	TCTVER5	Register 5
(2B8)	FULLWORD	4	TCTVER6	Register 6
(2BC)	FULLWORD	4	TCTVER7	Register 7
(2C0)	FULLWORD	4	TCTVER8	Register 8
(2C4)	FULLWORD	4	TCTVER9	Register 9
(2C8)	FULLWORD	4	TCTVER10	Register 10
(2CC)	FULLWORD	4	TCTVER11	Register 11
(2D0)	FULLWORD	4	TCTVER12	Register 12
(2D4)	CHARACTER	8	TCTVWK1	
(2DC)	CHARACTER	80	TCTVERS2	RSA for SYNAD exit
(2DC)	CHARACTER	12	TCTVER2H	RSA for SYNAD exit
(2E8)	FULLWORD	4	TCTVER2E	Register 14
(2EC)	FULLWORD	4	TCTVER2F	Register 15
(2F0)	FULLWORD	4	TCTVER20	Register 0
(2F4)	FULLWORD	4	TCTVER21	Register 1
(2F8)	FULLWORD	4	TCTVER22	Register 2
(2FC)	FULLWORD	4	TCTVER23	Register 3
(300)	FULLWORD	4	TCTVER24	Register 4
(304)	FULLWORD	4	TCTVER25	Register 5
(308)	FULLWORD	4	TCTVER26	Register 6
(30C)	FULLWORD	4	TCTVER27	Register 7
(310)	FULLWORD	4	TCTVER28	Register 8
(314)	FULLWORD	4	TCTVER29	Register 9

Table 627. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(318)	FULLWORD	4	TCTVER2A	Register 10
(31C)	FULLWORD	4	TCTVER2B	Register 11
(320)	FULLWORD	4	TCTVER2C	Register 12
(324)	CHARACTER	1	TCTVERS2_FLAG	Flag byte for RSA
	1111 111.		*	Reserved
	1		TCTVERS2_ IN_USE	This RSA is in use.
(325)	CHARACTER	7	*	Reserved
RSA stack for TCP calls				
(32C)	ADDRESS	4	TCTVRSAP	RSA pointer initial value
(330)	CHARACTER	0	*	Word alignment
(330)	HALFWORD	2	TCTVVMOF	Offset of self in assembly
(332)	HALFWORD	2	TCTVSUFX	TCT suffix
(334)	CHARACTER	4	*	Double word alignment
(338)	FULLWORD	4	TCTVRSPC	TCP call save stack start
(338)	FULLWORD	4	TCTVRSBA	Start address for RSA stack
(338)	FULLWORD	4	TCTVRSID	Optional stack entry trace ID
(33C)	FULLWORD	4	TCTVRSRG	Start of stack of saved regs.
(33C)	FULLWORD	4	TCTVRS14	Register 14
(340)	FULLWORD	4	TCTVRS15	Register 15
(344)	FULLWORD	4	TCTVRS0	Register 0
(348)	FULLWORD	4	TCTVRS1	Register 1
(34C)	FULLWORD	4	TCTVRS2	Register 2
(350)	FULLWORD	4	TCTVRS3	Register 3
(354)	FULLWORD	4	TCTVRS4	Register 4
(358)	FULLWORD	4	TCTVRS5	Register 5
(35C)	FULLWORD	4	TCTVRS6	Register 6
(360)	FULLWORD	4	TCTVRS7	Register 7
(364)	FULLWORD	4	TCTVRS8	Register 8
(368)	FULLWORD	4	TCTVRS9	Register 9
(36C)	FULLWORD	4	TCTVRS10	Register 10
(370)	CHARACTER	24	*	Reserved space for RSA
(388)	CHARACTER	0	TCTVRSEA	RSA stack entry ending address

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TCTVRSAZ EQU (TCTVRSEA-TCTVRSBA) size of one save area = 80
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Table 628.

Offset Hex	Type	Len	Name (dim)	Description
(338)	STRUCTURE	812	*	
(338)	CHARACTER	320	*	4 save areas for TCP calls
TC task ECBS				
(478)	ADDRESS	4	TCTVINIT	TC initialisation TCA Address (posted by TCRP)
(47C)	ADDRESS	4	TCTVSTAT	
(47C)	ADDRESS	4	TCTVCECB	TC restart completion ECB
(480)	ADDRESS	4	TCTVOECB	TC open for business ECB
(480)	BIT(8)	1	*	
	1...		*	
	.1..		TCTVOPST	TC open for business post bit *
(484)	BIT(8)	1	TCTVRSTC	TC restart return code
(485)	CHARACTER	1	TCTVSTYP	TC restart start-type
(486)	HALFWORD	2	TCTVXREN	Current XRF reconn. try-number
(488)	UNSIGNED	1	TCTVSAPL	APPLID length
(489)	CHARACTER	8	TCTVSAPN	VTAM APPLID
(491)	BIT(8)	1	*	
	1...		TCTVLSY	80 Local system entry exists
	.1..		TCTVRCC	40 Reading CICS Catalog
	..1.		TCTVALT	20 TCRP was an alternate
	...1		TCTVUALC	10 TCTUA ANY|BELOW
	.... 1...		TCTVALTT	08 Alternate tracking
	.... .1..		*	
	.... ..1.		*	
	1		TCTVUAKY	01 indicates CICS key
(492)	HALFWORD	2	TCTVXPLC	Pending S/B logons count
(494)	ADDRESS	4	TCTVXPLE	Pending S/B logons ECB
XRF Terminal cleanup statistics				
(498)	HALFWORD	2	TCTVX001	CLEANUP ACTION=NONE

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(49A)	HALFWORD	2	TCTVX002	CLEANUP ACTION=CLEAR/ SDT
(49C)	HALFWORD	2	TCTVX003	CLEANUP ACTION=UNBIND
(49E)	HALFWORD	2	TCTVX004	Reserved
(4A0)	CHARACTER	2	TCTVXSLM	Switch CMD pacing limit(PL2)
(4A2)	CHARACTER	2	*	Reserved - alignment
(4A4)	ADDRESS	4	TCTVXTSE	Track stream started ECB
ZC storage management				
(4A8)	ADDRESS	4	TCTVSUBP	Address of SUBPOOL token
VTAM exit trace				
(4AC)	ADDRESS	4	TCTVTRF	Address of NETNAME chain
(4B0)	ADDRESS	4	TCTVTRV	Variable S/POOL TOKEN pointer
(4B4)	ADDRESS	4	TCTVTRXA	Trace entry build area ptr. A
(4B8)	ADDRESS	4	TCTVTRXB	Trace entry build area ptr. B
(4BC)	ADDRESS	4	TCTVTRXC	Trace entry build area ptr. C
(4C0)	ADDRESS	4	TCTVTRXD	Trace entry build area ptr. D
(4C4)	ADDRESS	4	TCTVTRXE	Trace entry build area ptr. E *
(4C8)	FULLWORD	4	TCTVTRC	Terminal exit trace count
(4CC)	FULLWORD	4	TCTVRLCT	OPNDLIM count
(4D0)	BIT(8)	1	*	Exit trace flags
	1...		TCTVTRA	80 - All exits traced
	.1..		TCTVTRX	40 - Non term. exits traced
	..1.		*	20 - reserved
	...1		*	10 - reserved
	.... 1...		*	08 - reserved
	.... .1..		*	04 - reserved
	.... ..1.		*	02 - reserved
	1		*	01 - reserved
(4D1)	CHARACTER	3	*	Word Alignment
Postponed autoinstall logon fields				

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4D4)	ADDRESS	4	TCTVAPWE	Postponed Autoinstall work element anchor
(4D8)	FULLWORD	4	TCTVADQC	Postponed Autoinstall work current count
(4DC)	FULLWORD	4	TCTVADQT	Total number of postponed logons
(4E0)	HALFWORD	2	TCTVADQK	Peak concurrent postponed logons
(4E2)	HALFWORD	2	TCTVADQX	Incidence of postponed peak logons
Schedule Restart Delete fields				
(4E4)	UNSIGNED	4	TCTVAECB	Schedule restart delete ECB
(4E8)	FULLWORD	4	TCTVASDC	Schedule restart delete count
Early ZC SUBPOOL TOKENs for Subpools added before TCRP				
(4EC)	CHARACTER	8	TCTVTOKR	RAIA subpool token
Additional BITMAPs				
(4F4)	CHARACTER	4	*	Reserved
(4F8)	ADDRESS	4	TCTV_MRO2_BITMAP	2nd MRO name set
(4FC)	ADDRESS	4	TCTV_APPC2_ BITMAP	2nd LU62 name set
RPL completion queue anchor.				
(500)	FULLWORD	4	TCTVRPLQ	Q of RPLs for DSP from ZHPRX
(504)	FULLWORD	4	TCTVRPLC	Q of RPLs for DSP CDS counter
Persistent Sessions fields				
(508)	BIT(8)	1	TCTVPRB1	Flags for Per. Sess. use
	1...		TCTV_PRSS_ AVAILABLE	
				VTAM support available for persistent sessions
	.1..		TCTV_PRSS_ SUBSET	VTAM 3.4.0 is in use
	..1.		TCTV_PRSS_ PRED_TAKEOVER	
				Predatory takeover
	...1		TCTV_PRSS_ PRED_VICTIM	
				Current takeover victim
	.... 1...		TCTV_PRSS_ VTAM_ABEND	

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				VTAM abend occurred
	.... .1..		TCTV_PSTYPE_OFF	PSTYPE=NOPS specified
	.... ..1.		TCTV_PSTYPE_ MNPS	PSTYPE=MNPS = on PSTYPE=SNPS = off
(509)	UNSIGNED	1	TCTVPRB2	Byte 2 of Per. Sess flags
	1...		TCTV_ZGRP_ FAILED	SII1 notify SIJ1 of fail
	.1..		TCTV_RA_DONE	RA initiation done
(50A)	UNSIGNED	1	TCTVPRB3	Byte 3 of Per. Sess flags
(50B)	UNSIGNED	1	TCTVPRB4	Byte 4 of Per. Sess flags
Persistent sessions related fields				
(50C)	FULLWORD	4	TCTV_PRSS_CHUNK	Per. Sess. NIBLIST size
(510)	FULLWORD	4	TCTV_PRSS_ INQUIRE_THRESHOLD	
				NIBs for CO TCB
(514)	FULLWORD	4	TCTV_PRSS_ UNBIND_THRESHOLD	
				NIBS FOR ZGUB CO
(518)	BIT(64)	8	TCTV_ZCNIBLST_ TOKEN	
				Subpool token - Per. Sess.
(520)	FULLWORD	4	TCTV_ZGRP_ FIN_ECB	ZGRP finished
(524)	FULLWORD	4	TCTV_PSDI	PSDI value in seconds
(528)	ADDRESS	4	TCTV_PRSS_ RPL_POOL_PTR	
				RPL Pool for Per. Sess.
(52C)	ADDRESS	4	TCTV_PRSS_ UNBIND_RPLS_PTR	
				RPL pool within above
(530)	ADDRESS	4	TCTV_FIRST_ NIBLIST_PTR	
				First NIBLIST in chain
(534)	ADDRESS	4	TCTV_PRSS_ LNKTABLE_PTR	

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Per. Sessions LINK table
Persistent sessions statistics fields				
(538)	FULLWORD	4	TCTV_PRSS_ NIB_COUNT	
				Per. Sessions NIB cnt
(53C)	FULLWORD	4	TCTV_PRSS_ INQUIRE_COUNT	
				Per. Session INQUIREs issued.
(540)	FULLWORD	4	TCTV_PRSS_ OPNDST_COUNT	
				Per. Sessions OPNDSTed
(544)	FULLWORD	4	TCTV_PRSS_ UNBIND_COUNT	
				Per. Sessions unbound
(548)	FULLWORD	4	TCTV_PRSS_ ERROR_COUNT	
				Per. Sessions clsd ext
(54C)	ADDRESS	4	TCTV_NIB_ EXLST_PTR	TCTV3600 pointer
RA Stall dispatcher count				
(550)	FULLWORD	4	TCTV_RA_ STALL_COUNT	
				TCP dsps with stall
Entry Point addresses				
(554)	ADDRESS	4	TCTV_ZGTI	DFHZGTI entry point
(558)	ADDRESS	4	TCTV_ZGTA	DFHZGTA entry point
(55C)	ADDRESS	4	TCTV_ZGCH	DFHZGCH entry point
(560)	ADDRESS	4	TCTV_ZGIN	DFHZGIN entry point
(564)	ADDRESS	4	TCTV_ZCN2	DFHZCN2 entry point
(568)	ADDRESS	4	*	DFHZGxx entry point
More session name bitmap addresses				
(56C)	ADDRESS	4	TCTV_IS_BITMAP1	IS sessions bitmap 1
(570)	ADDRESS	4	TCTV_IS_BITMAP2	IS sessions bitmap 2
ZLGX work area				
(574)	CHARACTER	8	TCTV_ZLGX_ SLUNAME	SLU/member name
(57C)	ADDRESS	4	TCTV_ZLGX_TOKEN	Nibsrch token

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Saved UDSS03 for ZLGX/ZSCX				
(580)	CHARACTER	8	TCTV_SAVE_GRNAME	Saved GR name
More session name bitmap addresses				
(588)	ADDRESS	4	TCTV_RT_BITMAP	Remote Terminal names
(58C)	ADDRESS	4	TCTV_VIRTTERM_ BITMAP	
				CICS Client term names
(590)	ADDRESS	4	TCTV_BRIDGE_ BITMAP	Local BR facilities
(594)	ADDRESS	4	TCTV_CONS_BITMAP	Console names
(598)	ADDRESS	4	TCTV_ZC_ ENQ_POOL_TOKEN	
				ZC ENQ Pool Token
(59C)	ADDRESS	4	TCTV_BRIDGE2_ BITMAP	
				Shared BR facilities
(5A0)	BIT(8)	1	TCTV_GRQL	Fully qual. GR name lngth
(5A1)	CHARACTER	17	TCTV_GRQN	Fully qualified GR name
(5B2)	CHARACTER	8	TCTV_GENRNAME	Generic resource name
(5BA)	BIT(8)	1	TCTV_GRSTATUS	Generic resource status
(5BB)	CHARACTER	1	*	Reserved
(5BC)	ADDRESS	4	TCTV_ZGXA	DFHZGXA entry point
(5C0)	ADDRESS	4	TCTV_ZGPR	DFHZGPR entry point
Terminal Timeout (CESC) Static Storage Area				
(5C4)	CHARACTER	8	TCTV_CESC_TIME	Time at which CESC runs
(5CC)	UNSIGNED	1	TCTV_CESC_ FUNCTION	Func code passed to CESC
(5CD)	BIT(8)	1	TCTV_CESC_FLAGS	CESC flags
	1...		TCTV_CESC_ SCHEDULED	
				CESC is scheduled
	.111 1111		*	Reserved
(5CE)	UNSIGNED	2	*	Reserved
Entry point addresses for ZC domain subroutines				
(5D0)	ADDRESS	4	*	DFHZGxx entry point

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5D4)	ADDRESS	4	TCTV_ZGRP	DFHZGRP entry point
(5D8)	ADDRESS	4	TCTV_ZGSL	DFHZGSL entry point
(5DC)	ADDRESS	4	TCTV_ZGUB	DFHZGUB entry point
(5E0)	ADDRESS	4	TCTV_ZGCC	DFHZGCC entry point
(5E4)	ADDRESS	4	TCTV_ZGPC	DFHZGPC entry point
(5E8)	ADDRESS	4	TCTV_ZGDA	DFHZGDA entry point
(5EC)	ADDRESS	4	TCTV_ZGCN	DFHZGCN entry point
(5F0)	ADDRESS	4	TCTV_ZGCA	DFHZGCA entry point
(5F4)	ADDRESS	4	TCTV_ZGAI	DFHZGAI entry point
VTAM Statistics.				
(5F8)	FULLWORD	4	TCTLUNUM	Current no of LUs
(5FC)	FULLWORD	4	TCTLUHWM	HWM no of LUs
Prefix fields for Remote delete timeout mechanism.				
(600)	FULLWORD	4	TCTV_IDLE_COUNT	Total reuse count
(604)	CHARACTER	8	TCTV_MAXIMUM_ IDLETIME	
				Max skeleton idle time
(60C)	CHARACTER	8	TCTV_TOTAL_ IDLETIME	
				Max total idle time
(614)	FULLWORD	4	TCTV_REMDINT	Shipped delete interval
(618)	FULLWORD	4	TCTV_REMDIDLE	Shipped delete idle time
(61C)	FULLWORD	4	TCTV_SKELETONS_ BUILT	
				# of skeletons built
(620)	FULLWORD	4	TCTV_SKELETONS_ CURRENT	
				# of skeletons installed
(624)	FULLWORD	4	TCTV_SKELETONS_ DELETED	
				# deleted
(628)	FULLWORD	4	TCTV_FLAG_ DELETES	# times CRMF called

Table 628. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(62C)	FULLWORD	4	TCTV_REMDELS_IN	Remote deletes in
(630)	FULLWORD	4	TCTV_REMDELS_OUT	Remote deletes out
(634)	FULLWORD	4	TCTV_REMDEL_DELETES	
				Remote deletes out
PS signon retention storage				
(638)	CHARACTER	8	TCTV_PSTIM	Time of system failure
(640)	CHARACTER	8	TCTV_PSTTOKEN	Saved timer token
(648)	BIT(8)	1	TCTV_PSSIGN_FLGS	PS signon retention flags
	1...		TCTV_CATLG_ON_SHUTDOWN	
				Catalog on shutdown when PSDI = 0
	.1..		TCTV_CATLG_NOT_NEEDED	
				Don't catalog on shutdown when PSDI > 0
(649)	CHARACTER	3	*	Reserved
Further DFHZLGX work areas				
(64C)	FULLWORD	4	TCTV_ZLGX_TNADDR_LENGTH	
				Used during autoinstall
(650)	ADDRESS	4	TCTV_ZLGX_CV64_PTR	Used during autoinstall
(654)	CHARACTER	8	TCTV_ZLGX_WORK1	For CVD of TNADDR
(65C)	CHARACTER	8	TCTV_ZLGX_WORK2	For EDMK of TNADDR
(664)	CHARACTER	0	TCTPFXLN	Length of TCT PREFIX

Constants

Table 629.

Len	Type	value	Name	Description
1	HEX	70	TCTVLMPE	LMPEO+BUFFLST+USERRH flags
1	HEX	00	TCTVSDNO	No shutdown in progress
1	HEX	01	TCTVSDOP	Operator terminal Quiesce
1	HEX	02	TCTVSDAI	ATI operator terminal quiesce

Table 629. (continued)

Len	Type	value	Name	Description
1	HEX	03	TCTVSDIS	Inter system quiesce
1	HEX	04	TCTVSDMT	Master terminal quiesce
1	HEX	05	TCTVSDFN	Final quiesce all terminals
1	HEX	40	TCTVECBC	ECB posted complete
1	HEX	80	TCTVCCBC	CCB posted complete
1	DECIMAL	4	TCTVRSAN	Number of save area stacks
1	HEX	40	TCTVCPST	TC restart complete post bit
1	DECIMAL	11	TCTV_RPL_NUMBER	Number of RPLs in Pers. Sessions pool CESC Function Codes...
1	DECIMAL	1	TCTV_CESC_ TERM_TIMEOUT	
				Terminal
1	DECIMAL	2	TCTV_CESC_ XRF_TIMEOUT	
				XRF
1	DECIMAL	3	TCTV_CESC_ ENABLE_TIMEOUT	
				Enable
	Generic resource status codes			
1	HEX	80	TCTV_GR_REGD	
	Registered as VTAM generic resource			
1	HEX	40	TCTV_GR_REGERR	
	Attempt to register failed			
1	HEX	20	TCTV_GR_NOTAVAIL	
	Function not supported			
1	HEX	08	TCTV_GR_DEREGD	
	Successfully deregistered from VTAM			
1	HEX	04	TCTV_GR_DEREGERR	
	Attempt to deregister failed			
1	HEX	02	TCTV_GR_NOTAPPL	
	Facility not required			
1	HEX	00	TCTV_GR_NOTREG	

TCTLE Terminal control table line entry

```
                          CONTROL BLOCK NAME = DFHTCTLS
                          DESCRIPTIVE NAME  = CICS Terminal Control Table Line Entry.
                           @BANNER_START 02

                                            DFHTCTLS
                           Licensed Materials - Property of IBM
                           "Restricted Materials of IBM"
                           5655-S97
                           @BANNER_END
                          FUNCTION = May be used by the Master Terminal module DFHEIQMT
                                     instead of DFHTCTLE.
                          LIFETIME =
                          STORAGE CLASS =
                          LOCATION =
                          INNER CONTROL BLOCKS =
                          NOTES :
                           DEPENDENCIES = S/370
                           RESTRICTIONS = None
                           MODULE TYPE = Control block definition
                        ----------------------------------------------------------------
                          EXTERNAL REFERENCES =
                            DATA AREAS =
                            CONTROL BLOCKS =
                            GLOBAL VARIABLES (Macro pass) =
                        ----------------------------------------------------------------
```

Table 630.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	DFHTCTLE	
(0)	CHARACTER	4	TCTLEECB	event control block
(4)	CHARACTER	2	TCTLETOP	type of operation
(6)	UNSIGNED	2	TCTLEIOL	input / output data length
(8)	ADDRESS	4	TCTLEDCB	data control block address
(8)	ADDRESS	4	TCTLEDTF	D T F address
(C)	ADDRESS	4	TCTLEIOA	input / output area address
(10)	CHARACTER	0	*	BSAM OVERLAY
(10)	ADDRESS	4	TCTLEIOB	input/output block address
(14)	ADDRESS	4	TCTLESID	BSAM input DCB address
(18)	ADDRESS	4	TCTLESOD	BSAM output DCB address
(10)	CHARACTER	0	*	GAM OVERLAY
(10)	CHARACTER	1	TCTLEEGC	length error or read error code
(11)	CHARACTER	1	*	
(12)	CHARACTER	2	TCTLEGRC	residual count if length error
(14)	UNSIGNED	4	TCTLELGC	input / output data length

Table 630. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER	4	*	
(1C)	UNSIGNED	1	TCTLEDGC	index to DEB table addr ptr
(1D)	CHARACTER	1	TCTLEGLR	lock option request
(1E)	CHARACTER	2	*	
(10)	CHARACTER	0	*	TCAM OVERLAY
(10)	CHARACTER	4	*	
(14)	ADDRESS	4	TCTLEOQ	output TCTLE address
(18)	CHARACTER	1	TCTLEFL	TCAM flags
	1...		TCTLEFL1	POOL=YES specified
	.1..		TCTLESNA	TCAM SNA
	..1.		TCTLEFL3	reserved
	...1		TCTLEFL4	reserved
	.... 1...		TCTLEFL5	deact queue
(19)	CHARACTER	1	*	
(10)	CHARACTER	0	*	BTAM OVERLAY
(10)	CHARACTER	1	TCTLESM1	remote status message byte one
(11)	CHARACTER	1	TCTLESM2	remote status message byte two
(12)	UNSIGNED	2	TCTLETRC	residual count
(14)	CHARACTER	1	TCTLECC	command code
(15)	CHARACTER	3	TCTLETLA	terminal list address
(18)	CHARACTER	1	TCTLESF	status flags
(19)	CHARACTER	1	TCTLERLN	relative line number
(1A)	CHARACTER	1	TCTLERSP	response to addressing
(1B)	CHARACTER	1	TCTLELRC	response to VRC / LRC
(1C)	CHARACTER	1	TCTLETPO	TP - OP code
(1D)	CHARACTER	1	TCTLEES	error status
(1E)	CHARACTER	2	TCTLECSW	CSW status
(20)	ADDRESS	4	TCTLEALP	current addressing list pointer
(24)	CHARACTER	3	*	reserved
(27)	CHARACTER	1	TCTLELRL	local terminal index
(28)	CHARACTER	2	*	reserved
(2A)	UNSIGNED	2	TCTLEOL	output length
(2C)	CHARACTER	4	TCTLEOA	ouput area
(30)	BIT(8)	1	TCTLESI	line status indicator

Table 630. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		TCTLESEP	error pending indicator
	.1..		TCTLESAK	dial line acknowledgement
	..1.		TCTLESPO	line perm out of service
	...1		TCTLESIR	interruptable read initiated
	.... 1...		TCTLESLC	switched line connected
	.... .1..		TCTLESTR	terminal read initiated
	.... ..1.		TCTLESLI	line initiated
	1		TCTLESOS	line out of service
(31)	BIT(8)	1	TCTLEMI	multiple indicator byte
	1...		TCTLELPI	last line in pool indicator
	.1..		TCTLEMWL	wrap list indicator
	..1.		TCTLETCM	access method is TCAM
	...1		TCTLEMFP	first pool line indicator
	.... 1...		TCTLEMET	error task initiated indicator
	.... .1..		TCTLEATA	telecommunication access method
	.... ..1.		TCTLEAGA	local line
	1		TCTLEASA	sequential access method
(32)	UNSIGNED	2	TCTLEAL	input data area length
(34)	ADDRESS	4	TCTLERA	input area address retention
(38)	CHARACTER	4	TCTLENP	number of polls issued
(3C)	UNSIGNED	4	TCTLEBC	bypass control counter
(40)	ADDRESS	4	TCTLEPLA	polling list address
(40)	BIT(8)	1	TCTLELF	line features
	1...		TCTLEFLO	read lock
	.1..		TCTLEFWL	wrap list feature
	..1.		TCTLEFSC	station control feature
	...1		TCTLEFCK	checking feature
	.... 1...		TCTLEFBR	buffer receive feature
	.... .1..		TCTLEFAP	auto poll feature

Table 630. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		TCTLEFAC	auto call feature
	1		TCTLEFAA	auto answer feature
(44)	ADDRESS	4	TCTLETEA	active term table entry address
(48)	BIT(8)	1	*	
	1...		*	
	.1..		TCTLEPUI	purging data request indicator
	..1.		TCTLEDP2	term already connected purge
	...1		TCTLEDP1	term out of service purge
TCTLEDP1+TCTLEDP2 = TCTLEDP3 ... term in nopoll status purge				
	 1111		*	
(49)	BIT(8)	1	TCTLECL	Line Class
	1...		TCTLELS	line scan indicator
	.11.		*	
	...1		TCTLECBS	bisynchronous
	 1111		*	
(4A)	CHARACTER	2	TCTLELE	number of transmission errors
(4C)	ADDRESS	4	TCTLEECA	line error chain address
(50)	UNSIGNED	1	TCTLELEC	line error count
(51)	CHARACTER	3	TCTLEPP	previous polling list pointer
(54)	ADDRESS	4	TCTLEPA	terminal pool address
(54)	ADDRESS	4	TCTLEEA	Line Entry ending address
(58)	ADDRESS	4	TCTLEETE	error terminal entry pointer
(5C)	CHARACTER	8	TCTLEBAA	bi-sync auxiliary area
(64)	CHARACTER	2	TCTLEBRA	bi-sync response I/O area
(66)	CHARACTER	1	TCTLEBTO	last bi-sync type of operation
(67)	BIT(8)	1	TCTLEBEI	bi-sync event indicators
(68)	BIT(8)	1	TCTLESBI	BSC line status
(69)	BIT(8)	1	TCTLEIBS	index byte savearea
(6A)	BIT(8)	1	TCTLERPS	rotational poll savearea
(6B)	BIT(8)	1	*	indicator byte

Table 630. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	11..		*	
	..1.		TCTLEMLU	line in use mask
	...1 1111		*	reserved
(6C)	UNSIGNED	2	TCTLESWL	3270 segment size
(6E)	CHARACTER	2	*	reserved

TCTTE TCT terminal entry

Table 631.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	313	DFHTCTTE	Dummy Section
TERMINAL DATA CONTROL INFORMATION This area (from TCTE_TRACE_1 to TCTE_TRACE_1_LEN) is traced				
(0)	CHARACTER	24	TCTE_TRACE_1	TCTTE trace area 1
(0)	CHARACTER	4	TCTTETI	Terminal name
TERMINAL TYPE CODES				
(4)	CHARACTER	1	TCTTETT	Terminal Type - see constants
(5)	CHARACTER	1	TCTTETM	Terminal model number
(6)	BIT(8)	1	*	Reserved
TERMINAL STATUS CODES				
(7)	CHARACTER	1	TCTTETS	Terminal status
	1...		TCTTEATP	Dummy TCTTE for APT
	.1..		TCTTESRO	READ only
	..1.		TCTTESPO	Permanent OUT OF SERVICE
	...1		TCTTESQC	Terminal QUIESCING
	.... 1...		TCTTESNP	RECEIVE only
	.... .1..		TCTTESAT	AUTO TRANSACTION initiate
	.... ..1.		TCTTESTA	Terminal ATTENDED
	1		TCTTESOS	OUT OF SERVICE
OPERATION DATA				
(8)	ADDRESS	4	TCTTESC	Address of first TIOA for any one task
(C)	ADDRESS	4	TCTTEDA	Address of TIOA
(10)	ADDRESS	4	TCTTECA	Address of TCA using this terminal, else 0 if no TCA is currently available

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	CHARACTER	4	TCTE_TRANNUM	Trannum of transaction running with this term facility
TCTE_TRACE_1_LEN End of TCTTE trace area 1				
(18)	ADDRESS	4	TCTTECIA	Address of USER AREA
(1C)	BIT(8)	1	TCTTECIL	Length of USER AREA
(1D)	BIT(8)	1	*	Storage allocation
	1...		TCTTEPCR	PASSBOOK present on read
	1...		TCTTERMC	WRITE resend message
	.1..		TCTTEPCW	PASSBOOK present on WRITE
	.1..		TCTTERMS	Re-send message scheduled
	..1.		TCTTERMI	Re-send message control
	..1.		TCTTERMT	Re-send message transparent
	...1		TCTTERMQ	Re-send message queued
	...1		TCTTEEOD	End of DATASET
	.... 1...		TCTEMOPU	Unattended mode
	.... .1..		TCTTEOFC	End of file
	.... ..1.		TCTRO2	WRITE break occurred
	1		TCTRO1	READ attention occurred
(1E)	CHARACTER	1	*	Reserved
(1F)	BIT(8)	1	*	Reserved
(20)	ADDRESS	4	TCTTERVT	Address
(20)	FULLWORD	4	TCTTEDES	TCAM destination name
(24)	CHARACTER	1	TCTTERC	(Packed decimal)
(24)	CHARACTER	1	TCTTETCM	TCAM OPTCD flag
OPERATOR DATA CONTROL INFORMATION				
(25)	CHARACTER	3	TCTTEOI	Operator identification
(28)	CHARACTER	3	TCTTENLI	National Language in use
(2B)	UNSIGNED	1	TCTTEOP	Operator priority
VTAM FMH BUILD AREA				

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	CHARACTER	2	TCTEFMH1	FMH area for 3600 DEVICES
(2C)	BIT(8)	1	TCTEVTC	Type code name definition
	1111		TCTEVTCT	Logical device code
	.... 1...		*	
	.... .1..		TCTEOFP	OUTPUT format PARM present
	.... ..1.		TCTEIFP	INPUT format PARM present
	1		TCTEFPP	FORMS parameter present type code STRG ALLOC
(2D)	BIT(8)	1	*	
(2D)	BIT(8)	1	TCTEVLDC	Logical device code
DATA STREAM TYPE				
(2E)	BIT(8)	1	TCTETDST	DATA STREAM type byte
	1...		TCTESCSB	SCS basic DATASTREAM indicator (GRAPHICS + NL)
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		TCTEAIDP	AID present in TCTTE
	.... .1..		TCTEASC7	ASCII-7 indicator
	.... ..1.		TCTEASC8	ASCII-8 indicator
	1		TCTETTSI	3270 DATA STREAM indicator
SESSION CHARACTERISTICS CONTINUED				
(2F)	CHARACTER	1	TCTEILUC	LUC SESSION indicator
(2F)	BIT(8)	1	TCTESEST	TCTTE SESSION status
	1...		TCTESLGI	1=CICS SIMLOGON OK (INTLOG) 0=CICS SIMLOG not allowed (NO INTLOG)
	.1..		TCTESLGT	Remember INTLOG value
	..1.		TCTEACT	This is an APPC terminal
	...1		TCTESOPR	Operative

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		TCTELUC	This is an LUC expression
	.... .1..		TCTEFPX	FAST PATH XFORMER in use
	.... ..1.		TCTEFCTK	FC Token allowed
	1		TCTE_CLONE	APPC clone
TERMINAL DEPENDENT OVERLAY AREA The following field is overlayed by: TCTE3270 : 3270 Definitions TCTE2980 : 2980 Definitions TCTE3600 : 3600 Binary Synchronous Definitions TCTEOS : OS Console Support				
(30)	CHARACTER	12	TCTTETDO	
3270 DEFINITIONS Terminal Dependent Overlay				
(30)	CHARACTER	12	TCTE3270	3270 definitions
(30)	HALFWORD	2	TCTTECAD	CURSOR address of BINARY
(32)	BIT(8)	1	TCTTEAID	ATTENTION identifier
(33)	BIT(8)	1	TCTTEFIB	Terminal feature flag byte
	1...		TCTTEFSP	SELECTOR PEN
	.1..		TCTTELPR	LOCAL PRINT function
	..1.		TCTTEFDK	DUAL case keyboard
	...1		TCTTEFTU	UPPER case TRANSLATE
	.... 1...		TCTTEFCV	COPY valid
	.... .1..		TCTTEFAA	AUDIBLE ALARM
	.... ..1.		TCTTEFP7	Print eligible printer
	1		TCTTEFPA	Model 3 printer adapter
(34)	CHARACTER	8	TCTTELUN	LUNAME in CLSDST PASS
(34)	UNSIGNED	1	TCTEDMYE	dummy overlay - error cde
(35)	CHARACTER	5	TCTEDMMN	dummy overlay - mod name
(3A)	UNSIGNED	1	TCTEDMGC	dummy overlay - getmn rc
(3B)	CHARACTER	1	*	dummy overlay - reserved
2980 DEFINITIONS Terminal Dependent Overlay				
(30)	CHARACTER	5	TCTE2980	2980 definitions

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	BIT(8)	1	*	Reserved
(31)	BIT(8)	1	*	Reserved
(32)	BIT(8)	1	TCTTESID	2980 station ID
(33)	BIT(8)	1	TCTTETAB	2980 TAB factor
(34)	BIT(8)	1	TCTTETID	2980 Model 4 TELLER ID
3600 BINARY SYNCHRONOUS DEFINITIONS Terminal Dependent Overlay				
(30)	CHARACTER	12	TCTE3600	3600 definitions
(30)	CHARACTER	8	*	Reserved
(38)	BIT(8)	1	TCTTEDLM	End of input delimiter
(39)	CHARACTER	3	*	
OS CONSOLE SUPPORT Terminal Dependent Overlay				
(30)	CHARACTER	12	TCTEOS	OS definitions
(30)	ADDRESS	4	TCTTECCE	Console control element
	1...		TCTTEPL	Error console
(30)	BIT(31) POS(2)	4	*	Reserved
(34)	FULLWORD	4	TCTTEMID	message identification
(38)	FULLWORD	4	TCTTECNI	Console identification
VTAM DEFINITIONS				
(3C)	CHARACTER	0	TCTTEVDA	Area
(3C)	CHARACTER	4	TCTESIDI	Data
(40)	CHARACTER	4	TCTESIDO	Data
(44)	CHARACTER	3	TCTTECRE	Extension
NOTE: X'80' is restricted because of arithmetic manipulations in COBOL				
(44)	BIT(8)	1	TCTEUSE1	Byte storage allocation
	1...		*	restricted due to COBOL arith
	.1..		TCTEFMH	FMH received test mask
	..1.		TCTEEOC	EOC,OC received test mask
	...1		TCTEASE	SESSION Error notified
	.... 1...		TCTESIG	SIGNAL received test mask
	.... .1..		TCTEUFRT	Free the TCTTE(EB received)

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		TCTEUCOM	User should SYNC POINT now
	1		TCTERCDI	REQCD condition
(45)	BIT(8)	1	*	
(46)	BIT(8)	1	TCTETXTF	3270 TEXT feature flag byte
	1...		TCTE327E	3270 Extended range
	.1..		TCTEAPTX	APL TEXT feature
	..1.		TCTETXKB	TEXT keyboard
	...1		TCTEAPKB	APL keyboard
	.... 1...		TCTETXPR	3288 TEXTPRINT
	.... .1..		TCTETXT6	KATAKANA
	.... ..1.		TCTETXT7	Reserved
	1		TCTETXT8	Reserved
`3270 SIZE DEFINITIONS`				
(47)	BIT(8)	1	TCTE32SF	3270 size flags
	1...		TCTEWA	Alternate size can be used
	.1..		TCTEALW	Alternate size is in use
	..1.		TCTELEWA	Alternate size used last
	...1		TCTEEWN	EW/EWA needed next
	.... 1...		*	3270 - Reserved
	.... .1..		TCTTE_ROUTABLE_START	
				Routable START
`The following 2 BIT definitions are for TRANSACTION ROUTING use`				
	.... ..1.		TCTECRTF	Caller is running the first transaction of a ROUTING SESSION
	1		TCTECERT	Caller is running an EXPLICIT ROUTING SESSION
(48)	HALFWORD	2	TCTEDSCZ	3270 default screen size
(4A)	UNSIGNED	1	TCTEDSCL	3270 default size rows
(4B)	UNSIGNED	1	TCTEDSCC	3270 default size columns
(4C)	HALFWORD	2	TCTEASCZ	3270 alternate screen size
(4E)	UNSIGNED	1	TCTEASCL	3270 alternate size rows

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4F)	UNSIGNED	1	TCTEASCC	3270 alternate size columns
3270 EXTENDED FEATURES				
(50)	BIT(8)	1	TCTE32EF	3270 extended features
	1...		TCTTEEDS	EXT DATA STREAM supported
	.1..		TCTTECOL	COLOUR supported
	..1.		TCTTEPSS	PSS supported
	...1		TCTTEHIL	HILIGHT supported
	.... 1...		TCTTEVAL	VALIDATION supported
	.... .1..		TCTTEPRN	PARTITIONS supported
	.... ..1.		TCTTEMSR	MSR CONTROL supported
(51)	BIT(8)	1	TCTE32E2	3270 extended features #2
	1...		TCTTEFRL	Field OUTLINING supported
	.1..		TCTTEMIX	MIXED field supported
	..1.		TCTTEBTR	Background transparency
	...1 11..		*	Reserved
	.... ..1.		TCTTERMP	Reply mode structured field in query reply
	1		TCTTESA	Set Attribute supported.
(52)	BIT(8)	1	TCTE32E3	3270 extented features
	1...		TCTTEQYA	QUERY always
	.1..		TCTTEQYC	QUERY COLD-STARTS only
	..1.		TCTTEQYN	QUERY next LOGON
	...1		TCTTEQYP	QUERY pending
	 1111		*	
Extended User INFORMATION field				
(53)	BIT(8)	1	TCTEUSE2	Byte storage allocation
	1...		TCTEABP	ABEND is pending
	.1..		TCTEUERR	0889 SENSE REC'D mask
	..1.		TCTEUCFM	User should CONFIRM now

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		TCTEUSRB	User should ROLL BACK now
	.... 1...		TCTESRBR	ROLLBACK rec'd from other side
	.... .1..		TCTEUNUL	No User data ID received
	.... ..1.		TCTEUSMD	User flag in SEND mode
	1		TCTEURCV	User flag in RECEIVE mode must issue a RECEIVE
(54)	CHARACTER	4	TCTTEUSE	End of User area
	SYSTEM AREA STARTS HERE GENERAL INFORMATION			
(54)	HALFWORD	2	TCTTETEL	Table entry length
(56)	HALFWORD	2	TCTTETEN	Terminal entry number
(58)	ADDRESS	4	TCTEDIBA	Data interchange block address
(5C)	ADDRESS	4	TCTESNEX	Addr of Signon Extension
(60)	CHARACTER	11	TCTESCUR	Security level
(60)	CHARACTER	4	*	
(60)	UNSIGNED	2	TCTECSG1	CGCSGID-1
(62)	UNSIGNED	2	TCTECSG2	CGCSGID-2
(64)	BIT(8)	1	TCTESCFL	Security flag byte
	1...		TCTEGNXT	GNTRAN next transid
	.1..		*	Reserved
	..1.		TCTETOBF	Timeout BID failed
	...1		TCTESCFM	Preset signon error field
	.... 1...		TCTESCST	Timeout SIGN-OFF is allowed
	.... .1..		TCTESCLG	SIGNOFF = LOGOFF
	.... ..1.		TCTESTAR	Trans Access Revoked
	1		TCTESCTO	Timeout signoff required
(65)	CHARACTER	4	TCTEELGM	A(EXTRACTED LOGON DATA)
(69)	BIT(8)	1	*	
	1...		TCTEMROS	Shippable definition
	.1..		TCTEMROP	Ship done to someone

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		TCTTETMC	TMP action taken for TCTE
	...1		TCTESKSH	Save on restart dataset that definition shipped
	.... 1...		TCTENTA	Notify received.
	.... .1..		TCTEIRFR	TEDA->TIOA is free for reuse
	.... ..1.		TCTERMDL	Remdel scheduled
	1		TCTTETSC	TMP action taken for TCSE
(6A)	BIT(8)	1	TCTEANDX	SNA-ASCII direction indicator
	1111 1...		*	Reserved
	.... .1..		TCTES7TX	S/7 no RETRANSLATE indicator
	.... ..1.		TCTEASCO	Output (EBCDIC to ASCII)
	1		TCTEASCI	Input (ASCII to EBCDIC)
(6B)	BIT(8)	1	TCTEUCTB	Index for translate table
(6C)	ADDRESS	4	TCTENIBA	Address of NIB descriptor
(6C)	ADDRESS	4	TCTTERLA	Address of RELAY LINK TCTTE, if this TCTTE is a SURROGATE.
(6C)	ADDRESS	4	TCTTETA	The physical address and terminal device for the write MACRO instruction
(6C)	BIT(8)	1	TCTTEGU	Relative line number
(70)	ADDRESS	4	TCTTESKA	Address of SKELETON TCTTE, if this TCTTE is a SURROGATE.
(70)	ADDRESS	4	TCTERPLA	RPL address
(70)	ADDRESS	4	TCTTELEA	LINE ENTRY address
(74)	ADDRESS	4	TCTTERST	Addr of tran restart Extn
(78)	ADDRESS	4	TCTTETEA	Address of BMS extension
(7C)	CHARACTER	4	TCTTETC	Terminal transaction code
(80)	ADDRESS	4	TCTEEILR	A(EIP'S last held TIOA)

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)	ADDRESS	4	TCTEEIEX	A(EXEC terminal CB ETCB)
(84)	ADDRESS	4	TCTTESUA	Address of SURROGATE TCTTE if this TCTTE's a RELAY LINK
(88)	ADDRESS	4	TCTTEEIA	Exec interface PARM addr
(8C)	ADDRESS	4	TCTTECTK	Channel Token
(90)	BIT(8)	1	TCTTECHN	Channel properties
	1...		TCTECHAN	Other end of MRO link supports channels
	.1..		TCTEEWLM	supports EWLM correlators
	..1.		TCTE_CHAN_ SENT_FMH	
				DFHAPCR has sent FMHs
	...1		TCTE_IPIC_ CHAN_WAITING	
				Chan to be received
	.... 1...		TCTEICRX	supports ICRX's
	.... .1..		TCTEODRP	supports Origin Data prop
	11		*	Reserved
(91)	CHARACTER	3	*	Reserved
(94)	ADDRESS	4	TCTE_IPIC_ SESSION_TOKEN	
				IPIC Session token
(98)	ADDRESS	4	TCTTEUCN	ISC User ownership chain
(9C)	ADDRESS	4	TCTTEIST	ISC INTERSYSTEM table address
(A0)	BIT(8)	1	TCTTEEDF	EDF debug mode
(A1)	CHARACTER	1	TCTEMRST	MRO/LU6.1 Apl State-cur
(A2)	CHARACTER	1	TCTEMRSV	MRO/LU6.1 Apl State-prev
(A3)	CHARACTER	1	*	
	1111		TCTEMRSX	MRO/LU6.1 Indicators
	1...		TCTENNQI	IMS Session Indicator
	.111		*	Reserved
	 1111		TCTTEDII2	DYNAMIC INSTALL flags

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 111.		*	Reserved
	1		TCTEDAB	Autoinstall delete abend
(A4)	BIT(8)	1	TCTTEDII	DYNAMIC INSTALL indicators. *
	1...		TCTTEDAP	Pending DYNAMIC ADD
	.1..		TCTTEDDP	Requires deleting
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		TCTPNDAC	Pending AUTOCONNECT
	1		TCTETRAN	Transient terminal
(A5)	BIT(8)	1	*	DYNAMIC INSTALL indicatorS-2 *
	1...		TCTEDELP	AUTOINSTALL ZACT has issued INITIATE
	.1..		TCTEDELQ	AUTOINSTALL delete after a restart
	..1.		TCTELUSM	Special LUS 1st session
	...1		TCTENDEL	AUTOINSTALL do not delete
	.... 1...		TCTEXDEL	on if ZCLX or ZNSP run and action=simlogon
	.... .1..		TCTECLG	CLSDST & LOGON in progress
	.... ..1.		TCTEPSN	Awaiting CLSDST PASS notification
	1		TCTEDZIP	CATD delete in progress
(A6)	CHARACTER	4	TCTEXTOK	ZXQO token
(AA)	HALFWORD	2	TCTEEIDL	Length of residual data
(AC)	HALFWORD	2	TCTTECCU	Physical hardware address
(AE)	CHARACTER	1	TCTESONS	SON code for SCIP
Terminal read timeout VALUE				
(AF)	BIT(8)	1	*	Reserved
(B0)	BIT(8)	1	TCTTESCV	Storage violation count

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
This byte is used by surrogates to record the state of the relay link				
(B1)	CHARACTER	1	TCTE_RELAY_ LINK_STATUS	
	1...		TCTE_IPIC_ RELAY_LINK	
				Relay link is IPIC
	.1..		TCTE_IPIC_ IS7_SENT	
				IS7 sent over IPIC link
	..1.		TCTE_IPIC_ IS7_RECEIVED	
				IS7 received on IPIC link
	...1		*	reserved bit 3
	.... 1...		*	reserved bit 4
	.... .1..		TCTE_RECOV_ STATUS_DEFERRED	
				No recovery status yet
	.... ..1.		TCTE_RELAY_ LINK_ACTIVE	
				Relay link is active
	1		TCTE_RELAY_ LINK_ASSIGNED	
				Relay link is assigned
(B2)	UNSIGNED	2	TCTETRTO	Read Timeout Value
The following field is overlayed by: TCTTEZ1 : NON-VTAM status fields TCTTEZ2 : PIPELINE statistics TCTTEZ3 : Session Specific fields for Function Shipping				
(B4)	CHARACTER	8	TCTTEZ0	
NON - VTAM Status fields				
(B4)	CHARACTER	8	TCTTEZ1	NON-VTAM status fields
(B4)	FULLWORD	4	TCTTEBC	Bypass control counter
(B8)	HALFWORD	2	TCTTELPL	(Terminal type is CARD READER or LINE PRINTER)
(BA)	BIT(8)	1	TCTTEPRC	Event (terminal type if SYSTEM/7 support
(BB)	UNSIGNED	1	*	NON-VTAM Reserved
PIPELINE Statistics				

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B4)	CHARACTER	8	TCTTEZ2	PIPELINE statistics
(B4)	HALFWORD	2	TCTETCNT	Total throw-away count
(B6)	HALFWORD	2	TCTESCNT	Number of times (consecutive throw-away count)
(B8)	HALFWORD	2	TCTECCNT	Current throw-away count
(BA)	HALFWORD	2	TCTEMCNT	Maximum throw-away count
Session Specific fields used for Function Shipping				
(B4)	CHARACTER	4	TCTTEZ3	Session only fields
(B4)	CHARACTER	4	TCTESERV	Current mirror transid
TERMINAL STATISTICS				
(BC)	FULLWORD	4	TCTTENI	From this terminal (BINARY)
(C0)	FULLWORD	4	TCTTENO	To this terminal (BINARY)
(C4)	CHARACTER	2	TCTEDVSC	VTAM short on storage (SOS)
(C4)	CHARACTER	2	TCTTETE	Number of transmission errors or IRC disconnect requests (BINARY)
OPERATOR STATISTICS				
(C6)	CHARACTER	4	TCTTEOT	Number of transactions
(CA)	CHARACTER	2	TCTTEOE	Number of transaction errors
General Bits				
(CC)	BIT(8)	1	*	
	1...		*	Reserved
	.1..		TCTTEPEP	DFHPEP is executing
	..1.		TCTECLRQ	CLSDST on INSERV req
	...1		TCTEPABP	Purge abend pending
	.... 1...		TCTETABP	Timeout abend pending
	.... .1..		TCTE_CONFDATA_YES	Suppress user data
	.... ..1.		TCTEDIBS	DIB is inactive
	1		TCTTEGWI	A GET WAIT has been issued *
TERMINAL CONTROL INDICATORS				

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(CD)	BIT(8)	1	TCTTETC1	Byte name definition
	1...		TCTTECLT	Last terminal in group
	.1..		TCTTECPF	Compatible terminal
	..1.		TCTTECUI	Control unit OUT OF SERVICE
	...1		TCTTEPOS	Control unit PERMANENTLY OUT OF SERVICE
	.... 1...		TCTTESUS	Task is suspended by ZC
	.... .1..		TCTTECTC	Terminal connected
	.... ..1.		TCTTECRS	Skip terminal read
	1		TCTTECSF	Skip flag status indicator
(CE)	BIT(8)	1	TCTTEIO	Internal operation req byte
	OPERATION STATUS			
	1...		TCTTEONR	NEGATIVE response
	.1..		TCTTEOAO	AUTO output message
	..1.		TCTTEOAT	AUTO output transaction
	...1		TCTTECG	Conditional GETMAIN for read attention
	.... 1...		TCTTEOGA	GRAPHIC attention indicator
	.... 1...		TCTTERPI	READ pending
	.... .1..		TCTTEOIC	TIME control transaction
	.... ..1.		TCTTEOTI	TASK to be initiated
	1		TCTTEXAC	Transparent transaction
	1		TCTTESCW	SEGMENTED write
(CF)	BIT(8)	1	TCTTEIO2	Byte 2 name definition
	1...		TCTTECAI	Permanent transaction code
	.1..		*	
	..1.		*	
	...1		*	reserved
	.... 1...		TCTERORT	Initiate restart task
	.... .1..		TCTERORN	Notify terminal

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		TCTEROCS	Restart for CICS LOGON
	1		TCTEROS	Restart to SIMLOGON
ACCESS METHOD FLAGS				
(D0)	BIT(8)	1	TCTEAMIB	Access method flags
OPERATION REQUESTS				
(D1)	BIT(8)	1	TCTTEOS	External operation request
	1...		TCTTEOER	Erase
	.1..		TCTTEOSS	Save terminal storage
	..1.		TCTTEOLA	Line addressing request
	...1		TCTTEORR	Read
	.... 1...		TCTTEODR	Disconnect
	.... .1..		TCTTEOSR	Wait
	.... ..1.		TCTTECVS	Converse
	1		TCTTEOWR	Write
OPERATION MODIFIERS				
(D2)	BIT(8)	1	TCTTECS	External control request
	1...		TCTTERBI	Read buffer
	.1..		TCTTEEUI	Erase all unprotected
	..1.		TCTTEOWL	Write lock
	...1		TCTTEORL	Read lock
	.... 1...		TCTTECYI	Copy
	.... .1..		TCTTERPR	
	.... ..1.		TCTTETRM	Transparent mode
	.... ..1.		TCTTENTR	No translate
	1		TCTTEPBM	PSEUDO-BINARY mode
	1		TCTTETRY	BISYNCH transparency
(D3)	BIT(8)	1	TCTTEOC	Byte 2 storage allocation
	1...		TCTEDRR	Write with DEF RESP requested *
	.1..		TCTTETWW	TCAM write WORK flag
	..1.		TCTRA2	Write BREAK analysis request
	...1		TCTRA1	Read ATTN analysis request

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		TCTTECBW	COMMON BUFFER request
	.... .1..		TCTTEPBK	PASSBOOK request
	.... ..1.		TCTTEOFR	END OF FILE request
	1		TCTTEWCI	Control char supplied
(D4)	BIT(8)	1	TCTEOCB	Byte 3 storage allocation
	1...		TCTEFRC	Write with FORCE=YES
	.1..		TCTEWSR	Wait until SIGNAL received
	..1.		TCTELMP	LDC mnemonic present
	...1		TCTEFPD	FMH provided with data
	.... 1...		TCTELST	LAST write from task
	.... .1..		TCTEORAS	IMMED option
	.... ..1.		TCTEORSY	DELAY option
(D5)	BIT(8)	1	TCTEIKPC	Byte 4 storage allocation
	1...		*	Reserved
	.1..		*	Reserved
	..1.		TCTESFU	SPP ISSUE TC free at USR SP
	...1		TCTESFR	SPP ISSUE TC free if RSTRT
	.... 1...		*	
	.... .1..		TCTEPH1	SYNCPOINT PHASE 1 done
	.... ..1.		TCTEPH2	SYNCPOINT PHASE 2 done
(D6)	BIT(8)	1	TCTEOC3	Byte 5 storage allocation
	1...		TCTENEC	Write with CCOMPL=NO
	.1..		*	
	..1.		TCTEHDA	User handles all conditions
	..1.		TCTTECND	COND request
	..1.		TCTECND	COND request
	...1		TCTTEOWS	Write structured field
	.... 1...		TCTTETTO	TRANSP TIOA obtained
	.... .1..		TCTEDWP	Defer requested

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		TCTTEDWR	Defer requested
	.... ..1.		TCTTEINV	Invite requested
	1		TCTEDRD	Defer load
(D7)	BIT(8)	1	TCTEOC4	Byte 6 storage allocation
	1...		*	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		TCTEBYPQ	Byp quiesce for PASS
	.... ..1.		TCTENOA	NOABEND requested
	1		TCTEINN	TERMERR flag byte
(D8)	BIT(8)	1	TCTETSU	TCTTE terminal sharing use
	1...		TCTESUR	Used as a SURROGATE
	.1..		TCTERLX	Used as a RELAY LINK on transaction side
	..1.		TCTERLT	Used as a RELAY LINK on terminal side
	...1		TCTETRT	Used as terminal for remote transaction
	.... 1...		TCTEMDL	Is a model TCTTE
	.... .1..		TCTERTNT	TCTTE nominated transaction to be routed
	.... ..1.		TCTERTE	Running routing transaction (CRTE)
	1		TCTEERT	Running under an explicit
(D9)	BIT(8)	1	TCTEERAF	3270 Error MSG flags ROUTING SESSION
	1...		TCTEERAL	Error MSGS on last line
	.1..		TCTEERAI	Intensify 3270 error MSGS
	..1.		TCTEPROP	Propagate abend towards TOR
(DA)	BIT(8)	1	TCTEERAH	3270 Error MSG HILIGHT ATTR
(DB)	BIT(8)	1	TCTEERAC	3270 Error MSG COLOR ATTR

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(DC)	CHARACTER	4	TCTESYID	SYSID of transaction owning system
(E0)	BIT(8)	1	TCTETSU2	Terminal sharing usage
	1...		TCTESPRR	SYNC POINT must be sent to terminal owning system
	.1..		TCTERTEC	ROUTING SESSION cancelled if this is a surrogate:
	..1.		TCTTEMBI	model owns BIND-IMAGE
	...1		TCTTEMND	model owns NIB-DESCRIPTOR
	.... 1...		TCTERTBC	Back-end CRTE cancel
	.... .1..		TCTETECH	Supports channels
	.... ..1.		TCTEIPCT	IPIC CRTE from TOR
	1		TCTEIPCA	IPIC CRTE into AOR
(E1)	BIT(8)	1	TCTETSU3	General bits
	1...		TCTTEUIP	Limited update-in-place
	.1..		TCTECDSY	SAVED TCTECDSV if on
	..1.		TCTEUCTR	Translate TRANID to U/C
	...1		TCTE_STORAGE_ FREEZE	
				Indicates when all terminal storage should be retained
	.... 1...		TCTTESRE	scheduled RESETSR
	.... .1..		TCTELXS	Logon crossed simlog
	.... ..1.		TCTEOPSE	TCTTEOI value set by SET TERM OPERID
	1		TCTEDTR	Dyn Router requires abend notification
(E2)	UNSIGNED	2	TCTTERTK	RTT entry key
(E4)	UNSIGNED	1	TCTTEEN	POLL list entry number
(E5)	CHARACTER	1	TCTTETP	Terminal priority
(E6)	BIT(8)	1	*	Trace bits
	1...		TCTETRX	Exit trace active

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		TCTETRS	Standard or special trace OFF = STAN, ON = SPECIAL
	..11 1111		*	Trace - Reserved
(E7)	UNSIGNED	1	TCTENLS	National Lang. Supp. code
(E8)	ADDRESS	4	TCTECELP	Address of CEL parmlist passed from CICS to CEL at Run Unit Init
(EC)	CHARACTER	8	TCTTE_START_ DATA_ID	
				Start data id
(EC)	ADDRESS	4	TCTTE_START_ DATA_ADDRESS	
				Data on session
(F0)	BIT(8)	1	TCTTE_START_ DATA_FLAGS	
				Start flags
	1...		TCTTE_START_ DATA_HEADER	
				Header in data
	.1..		TCTTE_START_ DATA	Just data
	..11 1111		*	Reserved
(F1)	CHARACTER	3	*	Reserved
(F4)	HALFWORD	2	TCTTE_START_ DATA_LEN	
				Start data length
(F6)	CHARACTER	1	*	Reserved
(F7)	BIT(8)	1	TCTE_RZ	Requeststream flags
	1...		TCTERZS	Requeststream session
	.1..		TCTERZJS	Requeststream join sess
	..1.		TCTE_RZ_ INVITE_DONE	
				APTC issued invite
(F8)	ADDRESS	4	TCTE_USER_TOKEN	Notify user token
(F8)	ADDRESS	4	TCTE_RQSBLKA	Addr of Requeststream Blk
(FC)	CHARACTER	4	*	Not used - available
The following field is overlayed by: TCTTEX1 : Bisynchronous Data TCTETCM1 : TCAM Area				

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(100)	CHARACTER	12	TCTTEX0	SNA System Area
`BISYNCHRONOUS DATA`				
(100)	CHARACTER	12	TCTTEX1	BISYNCH data
(100)	CHARACTER	4	TCTTEBSB	BISYNCH data begin addr
(100)	HALFWORD	2	TCTTEBDL	BISYNCH data area length
(102)	BIT(8)	1	*	Reserved
(103)	BIT(8)	1	*	Reserved
(104)	ADDRESS	4	*	Reserved
(108)	ADDRESS	4	TCTTEBIA	Blocked input record addr
(10C)	CHARACTER	0	TCTTEBEA	Address
`TCAM AREA (OS)`				
(100)	CHARACTER	12	TCTETCM1	TCAM area
(100)	HALFWORD	2	TCTTETML	Minimum length TIOA TCAM
(102)	BIT(8)	1	*	Reserved
(103)	BIT(8)	1	*	Reserved
(104)	CHARACTER	8	TCTTETQN	TCAM QUEUE name
(10C)	CHARACTER	20	*	Reserved
(120)	CHARACTER	0	TCTEGET6	Length for OS CONSOLE

`TERMINAL - DEPENDENT`
`EXTENSION OVERLAY AREA`
` The following field is overlayed by:`
` TCTTEY1 : 2980 Control Extension`
` TCTTEY2 : 3270 Display Data`
` TCTTEY3 : 3735 Extension Area`
` TCTTEY5 : 3600 Binary Synchronous Extension Area`				

(120)	CHARACTER	25	TCTTETDE	Term Dep Ext Overlay area
`2980 CONTROL EXTENSION` `Terminal dependent extension overlay area`				
(120)	CHARACTER	2	TCTTEY1	2980 control ext.
(120)	BIT(8)	1	TCTTEFLG	2980 control flags
	1...		*	
	.1..		TCTTEWKF	Work factor
	..1.		*	
	...1		*	Reserved
	.... 1...		TCTTESEG	SEGMENTED write
	.... .1..		TCTTEPBI	PASSBOOK inserted on POLL
	.... ..1.		TCTTEAAI	Station address in use

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		TCTTEXLT	Data translate
(121)	BIT(8)	1	TCTTETTV	VECTOR
	3270 DISPLAY DATA Terminal dependent extension overlay area			
(120)	CHARACTER	25	TCTTEY2	3270 display area
(120)	ADDRESS	4	*	Reserved
(124)	HALFWORD	2	*	Reserved
(126)	BIT(8)	1	TCTTEDOC	Byte 1 Storage Allocation
(127)	BIT(8)	1	*	Reserved
(128)	BIT(8)	1	TCTTEDOS	Byte 2 storage allocation
	1...		TCTTEDBI	Device BUSY
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		TCTTERKI	Keyboard
	.... .1..		*	Reserved
	.... ..1.		TCTTEIRF	INTERVENTION required
	1		*	Reserved
	3270 SEGMENTED WRITE AREA			
(129)	BIT(8)	1	*	Reserved
(12A)	CHARACTER	2	*	Reserved
(12C)	CHARACTER	4	*	Reserved
	3270 COMPATIBILITY AREA			
(130)	CHARACTER	1	*	Reserved
(131)	CHARACTER	1	*	Reserved
(132)	CHARACTER	1	*	Reserved
(133)	CHARACTER	1	*	Reserved
(134)	BIT(8)	1	*	Reserved
(135)	BIT(8)	1	*	Reserved
(136)	HALFWORD	2	*	Reserved
(138)	BIT(8)	1	*	Reserved
	3735 EXTENSION AREA Terminal dependent extension overlay area			
(120)	CHARACTER	4	TCTTEY3	3735 extension area
(120)	CHARACTER	1	*	Reserved
(121)	CHARACTER	3	TCTTEDMP	Data retention area
	3600 BINARY SYNCRONOUS EXTENSION AREA Terminal dependent extension overlay area			

Table 631. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(120)	CHARACTER	15	TCTTEY5	3600 extension area
(120)	FULLWORD	4	*	Reserved
(124)	ADDRESS	4	*	Reserved
(128)	ADDRESS	4	*	Reserved
(12C)	HALFWORD	2	*	Reserved
(12E)	BIT(8)	1	TCTTEMFL	3600 BSC control flags
	1...		TCTTEMWR	Write pending
	.1..		TCTTEMTD	Output segment built
	..1.		TCTTEMSG	SEGMENTED write

```
                          SNA SYSTEM AREA
```

Table 632.

Offset Hex	Type	Len	Name (dim)	Description
(100)	STRUCTURE	416	*	AREAS
(100)	CHARACTER	4	TCTEVTSA	VTAM system area start
(100)	HALFWORD	2	TCTESOAL	Terminal data length
(102)	HALFWORD	2	TCTEGRS	Size of queued GETMAIN request
This area (from TCTE_TRACE_3 to TCTE_TRACE_3_LEN) is traced				
(104)	CHARACTER	44	TCTE_TRACE_3	TCTTE trace area 3
SENSE DATA				
(104)	CHARACTER	8	TCTEVSSS	System sense and status area
(104)	CHARACTER	4	TCTEVSDA	Sense area
(104)	BIT(8)	1	TCTESS1	Definition modifier system sense codes
(105)	BIT(8)	1	TCTESS2	Definition
(106)	BIT(8)	1	TCTEUS1	User sense byte 1
(107)	BIT(8)	1	TCTEUS2	User sense byte 2
(108)	CHARACTER	4	TCTEVNSS	Node sense and status area *
(108)	BIT(8)	1	TCTENSS1	Node system sense byte 1
(109)	BIT(8)	1	TCTENSS2	Node system sense byte 2
(10A)	BIT(8)	1	TCTENUS1	Node User sense byte 1
(10B)	BIT(8)	1	TCTENUS2	Node User sense byte 2
(10C)	ADDRESS	4	TCTESLNK	ISC system OWNERSHIP CHAIN *

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10C)	ADDRESS	4	TCTENEXT	Address next TCTTE(session) *
(10C)	ADDRESS	4	TCTE_NEXT_ APPC_SURROG	
				Next PS APPC surrog
(110)	CHARACTER	4	TCTETRND	ISC transaction ID
(114)	BIT(8)	1	TCTE_SENSE_RC	Reason for 084C0000
(115)	BIT(8)	1	TCTESPS	ISC SYNC POINT flags
	1...		TCTESPSH	ISC SHUNT received
	.1..		TCTESPAB	ISC ISSUE ABEND received
	..1.		TCTESPER	ISC ISSUE ERROR received
	...1		TCTESPRB	ISC SYNC ROLLBACK received *
	.... 1...		TCTESPSS	ISC SYNC PT request sent
	.... .1..		TCTESPID	ISC IN DOUBT indicator
	.... ..1.		TCTESPSR	received
	1		TCTESPPR	ISC PREPARE received
(116)	BIT(8)	1	TCTESPSA	ADDITIONAL SYNC PT flags
	1...		*	
	.1..		TCTESPRP	Sent PREPARE
	..1.		TCTESPRC	Sent 'PREPARE INVITE'
	...1		TCTESPRL	Sent 'PREPARE REQUEST EB'
	.... 1...		TCTERPRC	Received 'PREPARE INVITE'
	.... .1..		TCTERPRL	Received 'PREPARE REQUEST EB'
SYNCH POINT status - not PROTOCOL FLAGS, but AUW LIFETIME				
(117)	BIT(8)	1	TCTESPST	SYNC point status
	1...		*	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		*	
	1		TCTESPUN	Session is known to not have done PROTECTED ACTIONS
(118)	BIT(8)	1	TCTESARB	
	1...		*	Reserved
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
The next flag only used if TCSEAR0I is on (new rules)				
	.... .1..		TCTESARR	State after Rollback flag On = go to Receive Off = go to Send
	.... ..1.		*	Reserved
	1		*	Reserved
(119)	BIT(8)	1	*	Reserved
(11A)	BIT(8)	1	*	Reserved
	1...		TCTESABC	ABORT completely
	.1..		TCTESABR	ABORT received
	..1.		TCTESABS	ABORT sent
	...1		TCTESABP	ABORT pending
	.... 1...		*	
	.... .1..		*	
	.... ..1.		TCTEEMX	ERP MSG expected
	1		TCTESER	Error processing state
(11B)	CHARACTER	1	TCTEATPN	Attached process memory
(11C)	ADDRESS	4	TCTEMII	MESSAGE INSERT information address
The BIT definitions in the following field match the BIT assignments in BYTES 16 and 17 of the LU6 BIND IMAGE				
(120)	CHARACTER	2	TCTEARC	Information
(120)	BIT(8)	1	TCTEARC1	Arch Info 1 X'80' and X'40' Reserved
	1...		*	
	.1..		*	
	..1.		TCTESYSM	System message model
	...1		TCTESCHM	SCHEDULER model
	.... 1...		TCTEQM	QUEUE model

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		TCTELFM	LINEAR FILE model
	.... ..1.		TCTEDL1M	DL/1 model
	1		TCTEFDM	FILE DEFINITION model
(121)	BIT(8)	1	TCTEARC2	Arch Info 2
	1...		TCTEOPCM	OPERATOR CONTROL model Other bits reserved
(122)	BIT(8)	1	TCTEISC1	ISC flags
	1...		TCTE1RY	CICS is PRIMARY
	.1..		TCTE2RY	CICS is SECONDARY
	..1.		TCTEDYN	PRI/SEC is DYNAMIC
	...1		*	
	.... 1...		TCTEWIN	LUC CONTENTION WINNER
	.... .1..		TCTELSE	LUC CONTENTION LOSER
	.... ..1.		*	
	1		TCTEBCL	BINDING as CONTENTION LOSER
(123)	BIT(8)	1	TCTENEPS	NEPCLASS static definition
(124)	CHARACTER	2	TCTESQNS	sequence number BUCKETS
(124)	HALFWORD	2	TCTESQIP	PHYSICAL INBOUND sequence number
(126)	HALFWORD	2	TCTESQOP	PHYSICAL OUTBOUND sequence number
(128)	HALFWORD	2	TCTESQIL	LOGICAL INBOUND sequence number
(12A)	HALFWORD	2	TCTESQOL	LOGICAL OUTBOUND sequence
(12C)	HALFWORD	2	TCTESQR1	OUR BB SEQ no sent
(12E)	HALFWORD	2	TCTESQR2	HIS BB SEQ no sent
TCTE_TRACE_3_LEN End of TCTTE trace area 3				
ATTACH REQUIRED FIELDS				
TASK REQUEST COLLECTOR (1)				
(130)	BIT(8)	1	TCTETRC1	Byte 2 storage allocation
TASK REQUEST COLLECTOR (2)				

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(131)	BIT(8)	1	TCTETRC2	Byte 3 Storage Allocation
	1...		*	
	.1..		*	
	..1.		*	
	...1		TCTEOCC	OUTBOUND chain control
	.... 1...		*	
	.... .1..		TCTEMI	Message INTEGRITY(POSITIVE response)
	.... ..1.		*	
	1		TCTEOWO	ONE WRITE ONLY indicator
(132)	BIT(8)	1	TCTESUP1	Required features (1)
(133)	BIT(8)	1	TCTESUP2	Required features (2)
(134)	BIT(8)	1	TCTENSP1	Unsupported features (1)
(135)	BIT(8)	1	TCTENSP2	Unsupported features (2)
(136)	CHARACTER	5	TCTEJINF	GROUP next 5 bytes together KCP uses TCTEJINF for copy from PCT
JOURNALLING & I/O definition (NOTE - CONCATENATION with following 2 fields by TCTEJINF)				
(136)	BIT(8)	1	TCTEJSA	JOURNALLING and I/O def
	1...		TCTEFHA	All FMH'S to APPLN program
	1...		TCTEEXNO	EXTRACT=NO
	.1..		TCTEFHE	EODS FMH'S to APPLN program
	.1..		TCTEEXAT	EXTRACT=ATTACH
	..1.		TCTEAIO	ASYNCHRONOUS I/O
	...1		TCTESIO	SYNCHRONOUS I/O
	.... 1...		TCTEFHD	DFHDIP to process FMH
	.... .1..		TCTELRQ	Transaction requires logical record
	.... ..1.		TCTEIMJ	Automatic message JOURNALLING on INPUT

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		TCTEOMJ	Automatic message JOURNALLING on OUTPUT
(137)	BIT(8)	1	TCTEXTOP	EXTRACT options
(138)	BIT(8)	1	TCTEOPT2	EXTRA options
	1...		TCTESRAQ	RAQ=YES specified
	.1..		TCTETUCT	UC translate required
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	
(139)	BIT(8)	1	TCTEJID	JOURNALLING JOURNAL ID
(13A)	BIT(8)	1	TCTENEPC	Node error program class ID
end of COPIED FIELDS from PCT				
(13B)	BIT(8)	1	*	
	1...		TCTENBD	NIB disabled - ZCLS cleanup needed
	.1..		TCTECRQ	Real CLSDST reqd
(13C)	CHARACTER	4	TCTEIRET	Access method RETCODE
(140)	CHARACTER	8	TCTENET	Applid of TOR
(140)	CHARACTER	8	TCTE_TITOKEN	token for remote delete
! Communications Recovery Services storage				
(148)	CHARACTER	38	CR_STORAGE	
! Access method independent Communications Recovery Services storage				
(148)	CHARACTER	20	CR_COMMON_STG	
! Access method dependent Communications Recovery Services storage				
(15C)	CHARACTER	12	CR_OVERLAY_STG1	
(15C)	CHARACTER	2	*	
(15E)	CHARACTER	9	*	
(167)	CHARACTER	1	*	Round up to next halfword
(168)	CHARACTER	6	CR_OVERLAY_STG2	
(16E)	CHARACTER	2	*	reserved
(170)	CHARACTER	19	TCTE_TNADDR	TN3270 client address
(170)	CHARACTER	16	TCTE_IPV6_TPADDR	IPv6 TP address

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(170)	CHARACTER	4	TCTE_TPADDR	IPv4 TP address
(174)	CHARACTER	12	*	Rest of IPv6 addr
(180)	UNSIGNED	2	TCTE_PORT	port
(182)	UNSIGNED	1	TCTE_TPADDR_ TYPE	IP address type
(183)	CHARACTER	13	TCTE_RES_SNA1	Reserved
Overlays for Access Methods start here - extend above here Keep in step with DFHTCTZE and the LARGE definition in DFHZS1DS and DFHZS1PS				
(190)	CHARACTER	4	TCTEACSA	Access method SPECIFIC OVERLAY part of SNA system area
VTAM SYSTEM AREA				
(190)	ADDRESS	4	TCTEFMSA	Address of area to be freed
(194)	ADDRESS	4	TCTEASRA	ASYNCH TCP RESUME address
(198)	ADDRESS	4	TCTEHACP	ACTIVATE chain address
(19C)	FULLWORD	4	TCTECID	VTAM communications ID
(1A0)	ADDRESS	4	TCTEVSSC	SYST SERVICE chain address
(1A4)	HALFWORD	2	TCTELDCI	LDC index into lookup tbl
(1A6)	BIT(8)	1	TCTEPRUS	PRIMARY RU SIZE
(1A7)	BIT(8)	1	TCTESRUS	SECONDARY RU SIZE
(1A8)	HALFWORD	2	TCTESQOS	number
(1AA)	HALFWORD	2	TCTESQRP	Turnaround count field
(1AC)	HALFWORD	2	TCTESQSC	number
(1AE)	HALFWORD	2	TCTESQER	ERROR SEQUENCE number
(1B0)	HALFWORD	2	TCTEOAL	Maximum allowable output
(1B2)	HALFWORD	2	TCTECHMX	Maximum chain size
(1B4)	HALFWORD	2	TCTERUSZ	Maximum RU size
(1B6)	HALFWORD	2	TCTELROF	Offset of next logical REC
(1B8)	ADDRESS	4	TCTELRTA	Deblocking
(1BC)	ADDRESS	4	TCTELLDC	Local available LDC table
(1C0)	FULLWORD	4	TCTEEIDA	EXIT ID TRACE area

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C0)	BIT(8)	1	TCTEEID0	EXIT ID capture area
(1C1)	BIT(8)	1	TCTEEID1	EXIT ID 1
(1C2)	BIT(8)	1	TCTEEID2	EXIT ID 2
(1C3)	CHARACTER	1	TCTEMDID	MODULE identifier
(1C3)	BIT(8)	1	TCTEEID3	EXIT ID 3
(1C4)	CHARACTER	4	TCTECDSV	A(TEDA) if change directio
(1C4)	FULLWORD	4	TCTERCSV	Error save area
This area (from TCTE_TRACE_5 to TCTE_TRACE_5_LEN) is traced				
(1C8)	CHARACTER	57	TCTE_TRACE_5	TCTTE trace area 5
INTERNAL ERROR CODE AREA				
(1C8)	BIT(64)	8	TCTE_ZNAC_ ERRCODE	BDY for CDS
(1C8)	BIT(16)	2	TCTEERI5	Internal error code 5
(1C8)	BIT(8)	1	TCTEVRC5	Internal error code 5
(1C9)	BIT(8)	1	TCTEMID5	Prog ID for error code 5
(1CA)	BIT(16)	2	TCTEERI6	Internal error code 6
(1CA)	BIT(8)	1	TCTEVRC6	Internal error code 6
(1CB)	BIT(8)	1	TCTEMID6	Prog ID for error code 6
(1CC)	BIT(16)	2	TCTEERI7	Internal error code 7
(1CC)	BIT(8)	1	TCTEVRC7	Internal error code 7
(1CD)	BIT(8)	1	TCTEMID7	Prog ID for error code 7
(1CE)	BIT(16)	2	TCTEERI8	Internal error code 8
(1CE)	BIT(8)	1	TCTEVRC8	Internal error code 8
(1CF)	BIT(8)	1	TCTEMID8	Prog ID for error code 8
The following two internal error code slots are for use by the DFHZERRM TYPE=OVERFLOW_1 macro call only. These slots are used as an 'overflow' when the standard four internal slots all used up.				
(1D0)	BIT(16)	2	TCTEERI9	Internal error 9
(1D0)	BIT(8)	1	TCTEVRC9	Internal error 9
(1D1)	BIT(8)	1	TCTEMID9	Prog ID for error 9
(1D2)	BIT(16)	2	TCTEERIA	Internal error 10 (A)
(1D2)	BIT(8)	1	TCTEVRCA	Internal error 10 (A)
(1D3)	BIT(8)	1	TCTEMIDA	Prog ID for error 10
(1D4)	ADDRESS	4	TCTEAWEA	AWE address
(1D4)	ADDRESS	4	TCTE_CTINDATA_ PTR	
				Pointer to CTIN data

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	ACTIVATE CHAIN REQUESTS			
(1D8)	CHARACTER	4	TCTEACR	Activate request bytes
(1D8)	BIT(8)	1	TCTEACR1	Byte 1 storage allocation
	1...		TCTECGR	GETMAIN
	.1..		TCTECFR	FREEMAIN
	..1.		TCTECAT	ATTACH
	...1		TCTECRC	ASYNCH return of control
	.... 1...		TCTECRR	RESUME
	.... .1..		TCTERCS	RECEIVE SPECIFIC
	.... ..1.		*	Reserved
	1		*	Reserved
(1D9)	BIT(8)	1	TCTEACR2	Byte 2 storage allocation
	1...		TCTECSS	SEND SYNC data flow
	.1..		TCTECSA	SEND ASYNCH commands
	..1.		TCTECSC	SESSIONC
	...1		TCTECSR	SEND response
	.... 1...		TCTECRS	RESETSR
	.... .1..		TCTEBYP	Delay ACTIVATE SCAN of TCTTE
	.... ..1.		TCTECXA	EXIT added
	1		TCTECDT	DETACH
(1DA)	BIT(8)	1	TCTEACR3	Byte 3 Storage Allocation
	1...		TCTECOR	OPNDST
	.1..		TCTECCT	CLSDST
	..1.		TCTECTI	Automatic task initiate
	...1		TCTECSL	SIMLOGON
	.... 1...		TCTECRY	RESYNCH
	.... .1..		TCTECEA	NACP
	.... ..1.		TCTEDEL	AUTOINSTALL activate scan primed for delete
	1		TCTECKR	Send response to command
(1DB)	BIT(8)	1	TCTEACR4	Byte 4 Storage Allocation
	1...		TCTETRA	TRACE ENTRY required

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		TCTESDL	SEND SYNC LUTYPE 6.2
	..1.		TCTERVL	RECEIVE SPEC LUTYPE 6.2
	...1		TCTEXRC	XRF Session state analys.
	 1111		*	ZACT reserved
(1DC)	BIT(8)	1	TCTERIND	Internal error indicators
	1...		TCTERFB	VTAM FEEDBACK available
	.1..		TCTERLS	SEND required after LUS
	..1.		TCTERLR	RECEIVE required after LUS
	...1		TCTESRV	REMEMBER user RECEIVE flag
	.... 1...		TCTECDH	HARD SIGNAL RCD received
	.... .1..		*	reserved
	.... ..1.		TCTERDS	RECEIVE req'd after dvend
	1		TCTERDR	SEND required after dvend
(1DD)	BIT(8)	1	TCTEVPAC	V-PACING constant
(1DE)	BIT(8)	1	*	reserved
(1DF)	BIT(8)	1	TCTEVIR1	Byte 1 storage allocation
	PACING AND RU COUNT BYTES VTAM INTERNAL REQUESTS for ZSDS ROUTINE			
	1...		TCTECHS	CHASE
	.1..		TCTECNCL	CANCEL
	..1.		TCTEQCM	QUIESCE complete
	...1		TCTECBD	BID
	.... 1...		TCTELUS	Logical unit status
	.... .1..		TCTESXC	SEND COMMAND EXCEPTION
	.... ..1.		TCTERTR	RTR
	1		TCTETBIS	BIS SEND REQUEST
(1E0)	BIT(8)	1	TCTEVIR2	Byte 2 storage allocation
	1...		TCTECLR	CLEAR
	.1..		TCTESDT	Start data traffic

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		TCTESTSN	SET AND TEST sequence number
	...1		TCTESNU	SEND zero data length
	.... 1...		TCTEDR2	DR2 requested
	.... .1..		TCTESAB	STAND ALONE BB required for 3270
	.... ..1.		TCTEBSS	BEGIN BRACKET request
	1		TCTEESS	END BRACKET request
(1E1)	BIT(8)	1	TCTEVIR3	Byte 3 Storage Allocation
	1...		TCTERSP	RECEIVE SPECIFIC
	.1..		TCTEWDA	SEND DATA
	..1.		TCTESCM	SEND COMMAND
	...1		TCTEORSP	SEND RESP type 0=+VE 1=-VE
	.... 1...		TCTEDCA	Change to CA mode
	.... .1..		TCTERAT	Read attention
	.... ..1.		TCTECWT	CTYPE wait request
	1		TCTESXD	SEND DATA EXCEPTION
(1E2)	BIT(8)	1	TCTEVIR4	Byte 4 storage allocation
	1...		TCTECRP	GETMAIN - RPL
	.1..		TCTECTA	GETMAIN - TIOA
	..1.		TCTECRAS	GETMAIN - RECEIVE ANY
	...1		TCTEGNB	GETMAIN - NIB/BIND
	.... 1...		TCTEGBF	GETMAIN - BUFFLST
	.... .1..		TCTEGLC	GETMAIN - LUC control blocks
(1E3)	BIT(8)	1	TCTEVIR5	Byte 5 storage allocation
	1...		TCTERPL	FREEMAIN - RPL
	.1..		TCTECFA	FREEMAIN - all
	..1.		TCTECFS	FREEMAIN - specific
	...1		TCTEFNB	FREEMAIN - NIB/BIND
	.... 1...		TCTEFBF	FREEMAIN - BUFFLST

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		TCTEFLC	FREEMAIN - LUC control blocks
	.... ..1.		TCTEFNL	FREEMAIN - EXTR'D LOGON data
	1		TCTEFRS	FREEMAIN - RPL specific
(1E4)	BIT(8)	1	TCTEVIR6	Byte 6 storage allocation
	1...		TCTECTS	Use symbol name for CLSDST
	.1..		TCTECVI	IMMEDIATE availability
	..1.		TCTECVD	DEFERRED availability
	...1		TCTEPAS	CLSDST pass
	.... 1...		TCTECVR	BID rejected
	.... .1..		TCTEBWD	BIDDING with data
	.... ..1.		TCTEPRT	RTR SEND pending
	1		TCTESWT	XRF SWITCH required
(1E5)	BIT(8)	1	TCTERSRR	Byte 7 storage allocation
	11..		TCTERCMO	CONTINUE mode
	..11 1...		*	
	.... .1..		TCTERUB	Reject RU until BB
	11		TCTERMOD	RECEIVE mode
SYSTEM SERVICE QUEUE FLAG				
(1E6)	BIT(8)	1	TCTEISSQ	Byte storage allocation
	1...		TCTESNQ	System error queue
	.1..		*	Reserved
	..1.		*	Reserved
	...1		TCTEOPQ	On Activate Process Queue
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		*	
EMW REQUEST AND STATUS FLAGS				
(1E7)	BIT(8)	1	TCTEEMF	Byte Storage Allocation
	1...		TCTEPUR	PURGE request

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		TCTESEM	SEND MESSAGE request
	..1.		TCTESNR	SEND NEGATIVE response
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		TCTEEMW	Error message writer active
	1		*	
RECEIVE flags				
(1E8)	BIT(8)	1	*	Byte storage allocation
	1...		TCTERVR	RECEIVE a response
	.1..		TCTERVD	RECEIVE data
	..1.		TCTERBP	BID PURGE in progress
	...1		TCTERRU	RECEIVE and PURGE ONE RU
	.... 1...		TCTEXSC	SDT after clear required
	.... .1..		TCTEXPU	XRF RECEIVE PURGE
	.... ..1.		TCTEQRQ	QRI-type response is queued *
	1		TCTENRQ	NORMAL response is queued
(1E9)	BIT(8)	1	TCTEIXRP	XRF Flags
	1...		TCTEXNR	XRF Term not Recovered
	.1..		TCTEXRM	XRF Recovery Msg reqd
	..1.		TCTEXRT	XRF Recovery Tranact reqd
	...1		TCTEXPT	XRF Purge task
	 1111		TCTEXCC	Cleanup Action flags
	.... 1...		TCTEXNO	Cleanup Action is NONE
	.... .1..		TCTEXEB	Cleanup Action is SEND-EB
	.... ..1.		TCTEXCL	Cleanup Action is CLEAR/SDT *
	1		TCTEXUB	Cleanup Action is UNBIND

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
ASYNCH REQUEST FLAGS for use BY ZSDA /ZSAX only				
(1EA)	BIT(8)	1	*	ASYNCHRONOUS request byte
	1...		*	
	.1..		*	
	..1.		TCTERSH	Request SHUTDOWN
	...1		TCTEESG	E-SIGNAL
	.... 1...		TCTETSBI	SBI SEND request
	.... .1..		TCTERLSQ	RELEASE QUIESCE
	.... ..1.		TCTEQEOC	QUIESCE at end of chain
	1		TCTERSD	Request SHUTDOWN
(1EB)	BIT(8)	1	TCTELTEC	LOSTERM Error code
LRP REQUEST AND STATUS FLAGS				
(1EC)	BIT(8)	1	TCTELRPF	Byte Storage Allocation
	1...		TCTELRP	Logical REC PRESENTATION
	.1..		TCTELRD	Deblock in progress
	..1.		TCTELRN	No delimiter in input unit
	...1		*	
	.... 1...		TCTELRC	SAVE flag for EOC indicator
	.... .1..		TCTELRZ	SAVE flag for EODS indicator
VTAM PROCESS STATUS OPERATION IN PROGRESS				
(1ED)	BIT(8)	1	TCTEVTPS	Byte storage allocation
	1...		TCTECIP	COMMAND in progress
	.1..		TCTEDIP	DATA in progress
	..1.		TCTEAIP	ATI BID in progress
	...1		TCTENIP	NACP in progress
	.... 1...		TCTERSI	RESYNCH/ RECOVERY in progress
	.... .1..		TCTECAP	CHAIN ASSEMBLY in progress
	.... ..1.		TCTERNW	INPUT JOURNAL required flag
	1		TCTECCV	1=TASK VIA AVAIL,0=VIA INPUT

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1EE)	BIT(8)	1	TCTEVOP2	Byte 2 Storage Allocation
	1...		TCTEDRQ	Data required after STAND ALONE FMH
	.1..		*	Reserved
	..1.		TCTEQE2	RESP + to REQ2 outstanding
	...1		TCTENND	No normal data flow allowed
	.... 1...		TCTERAQ	READ-AHEAD QUEUEING required
	.... .1..		TCTERAD	READ-AHEAD DATA available
	.... ..1.		TCTERAP	READ-AHEAD PURGE required
	1		TCTERVP	RECEIVE PURGE required
NODE SESSION STATUS				
(1EF)	BIT(8)	1	TCTEVTSS	Node session status one byte
	111.		TCTENIS	Node is now is session
	1...		TCTELOS	LOGGED on
	.1..		TCTEOPD	OPNDST
	..1.		TCTENSD	Start data traffic sent
	...1		TCTESLP	SIMLOGON in progress
	.... 1...		TCTEREO	RESPONSE outstanding
	.... .1..		*	Reserved
	.... ..1.		TCTESHP	SHUTDOWN sent by CICS
	1		TCTERELR	RELEASE request received
(1F0)	BIT(8)	1	TCTEVTS2	Node session status byte 2
	1...		TCTENQS	Node QUIESCED by CICS
	.1..		TCTEHQS	CICS QUIESCED by node
	..1.		TCTECSM	Mode (CS=X'20' CA= ^ X'20')
	...1		TCTEOLD	OVERLENGTH data
	.... 1...		TCTEBPE	BRACKET PROTOCOL required

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		TCTEERS	EMERGENCY restart
	.... ..1.		TCTEPSA	PREVIOUS SESSION ABEND
	1		TCTERPR	RESYNCHRONIZATION required
SESSION CHARACTERISTICS				
(1F1)	BIT(8)	1	TCTEVISC	Byte storage allocation
	1...		TCTEERL	Eligible to be released
	.1..		TCTIQSL	SIMLOGON to be queued
	..1.		TCTEDRI	Eligible to be disconnected
	...1		TCTEXCA	Current session is XRF-capable *
	.... 1...		TCTEXCM	EXC. RESP. Commands valid
	.... .1..		TCTEXRE	Take-over must reconnect by switch or BIND as appropriate *
	.... ..1.		TCTEXCS	Last OPNDST was OPTCD=BACKUP *
	1		TCTECAR	Chain assembly requested by terminal
PENDING EVENT STATUS				
(1F2)	BIT(8)	1	TCTEVIPS	Byte storage allocation
	1...		TCTEORRN	Pending RRN response
	.1..		TCTEOFME	Pending FME response
	..1.		TCTEBNS	BIND TIME security undefined
	...1		TCTEPRA	Awaiting POSITIVE response
	.... 1...		TCTEOEXM	Response (0=+VE & -VE 1=-VE)
	.... .1..		*	Reserved
	.... ..1.		TCTEQRI	QRI type response
	1		TCTEDEF	DEFINITE response send in progress (was TCTEDRS)
(1F3)	BIT(8)	1	TCTEVIP2	Byte 2 storage allocation
	1...		TCTEWGS	Task Awaiting for INBOUND SIGNAL

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		TCTELGX	LOGON EXIT in progress
	..1.		*	Reserved
	...1		TCTECDS	CHANGE DIRECTION sent
	.... 1...		TCTECMT	RESPOND POSITIVE to SPR
	.... .1..		TCTESQA	Start task REQ no active request
	.... ..1.		TCTESEO	EXCEPTION response outstanding
	1		TCTECDV	CHANGE DIRECTION save TIOA
BRACKET PROTOCOL STATUS				
(1F4)	BIT(8)	1	TCTEVBPS	Byte Storage Allocation
	1...		TCTEINB	In BRACKET state
	.1..		TCTEBBP	BEGIN BRACKET pending
	..1.		TCTEEEB	BB EB sent state
	...1		TCTEBBS	BEGIN BRACKET sent
	.... 1...		TCTEEBS	END BRACKET sent
	.... .1..		TCTEBBR	BEGIN BRACKET received
	.... ..1.		TCTEBBA	BEGIN BRACKET receive
	1		TCTEBTB	BETWEEN BRACKETS
EXTENDED BRACKET STATE FLAGS				
(1F5)	BIT(8)	1	*	
	1...		TCTERTP	RTR pending state
	.1..		TCTEBRT	BID TO BE RETRIED indicator
	..1.		TCTEBRP	BIDDING in progress
	...1		TCTEBRS	REBID if necessary
	.... 1...		TCTETBR	TERMINATE BRACKET
	.... .1..		TCTEEBM	END BRACKET memory flag
	.... ..1.		TCTEEBR	EB received
	1		TCTEBEB	BB EB received state
ZRAC flag byte				
(1F6)	BIT(8)	1	*	

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		TCTERNU	NULL RU / LUS 6 received
	.1..		TCTERCM	Command received
	..1.		TCTERDT	Data received
	...1		TCTERRS	Response received
	.... 1...		TCTEBSC	BIND security complete
	.... .1..		TCTERAE	ZRAC to EXECUTE
	.... ..1.		TCTERAN	ZRAC possibly to RUN
	1		TCTESKI	ZRAC to SKIP
TRANSMISSION PROTOCOL STATUS				
(1F7)	BIT(8)	1	TCTEVTP	Byte storage allocation
	1...		TCTESMP	SEND mode pending
	.1..		TCTEPRC	Processing chain state
	..1.		TCTESMA	SEND mode assumed
	...1		TCTESMD	SEND mode
	.... 1...		TCTEECN	OUTBOUND processing chain state
	.... .1..		TCTEABD	ABNORMAL END condition
	.... ..1.		TCTERMD	RECEIVE mode
	1		TCTECPG	CHAIN PURGED indicator
CLSDEST STATUS				
(1F8)	BIT(8)	1	TCTECLST	CLSDEST status byte
	1...		TCTESBIS	SBI sent
	.1..		TCTEMTO	TERM issued SHUTDOWN
	..1.		TCTEBISI	BIS SEND in progress
	...1		TCTEFBIS	First BIS was sent by us
	.... 1...		*	
	.... .1..		TCTESBIR	SBI received
	.... ..1.		TCTEBISS	BIS sent
	1		TCTEBISR	BIS received
SEND RESPONSE TO COMMAND REQUEST				
(1F9)	BIT(8)	1	*	
	1...		TCTEKNE	SEND NEGATIVE response
	.1..		TCTEKSD	SEND SDT response
	..1.		TCTEKBD	SEND BIND response

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		TCTEKCA	SEND SMD response CA mode
	.... 1...		TCTEKST	SEND STSN response
	.... .1..		TCTESUS	Suspend activate scan
	.... ..1.		TCTERMC	response to MIC sent
LUTYPE6.2 State Machines				
(1FA)	BIT(8)	1	TCTEUSRS	CONVERSATION state machine
(1FB)	BIT(8)	1	TCTEBKTS	BRACKET state machine
(1FC)	BIT(8)	1	TCTECNTS	CONTENTION state machine
(1FD)	BIT(8)	1	TCTECHSS	CHAIN state machine
(1FE)	BIT(8)	1	TCTEACC	ACC FIELDS required
	1...		TCTEACC1	ACC field 1 required
	.1..		TCTEACC2	ACC field 2 required
	..1.		TCTEACC3	ACC field 3 required
	...1		TCTEACC4	ACC field 4 required
	.... 1...		TCTEACC5	ACC field 5 required
	.... .1..		TCTEACC6	ACC field 6 required
	.... ..1.		TCTEACC7	ACC field 7 required
	1		TCTEACC8	ACC field 8 required
The following byte is in the SAME format as the BIND RU				
(1FF)	CHARACTER	1	TCTESSPL	SPL,LU_SVC byte DEF
	1...		*	
	.1..		TCTESP2	--- all
	..1.		TCTESP1	--- commit
	...1		TCTERS1	--- restart supported
	.... 1...		*	SECONDARY REINIT
	.... .1..		*	PRIMARY REINIT
	.... ..1.		TCTEPAR	PARALLEL SESSION
	1		TCTECNO	CNOS supported
(200)	BIT(8)	1	TCTEL62A	LUTYPE 6.2 MISCELLANY
	1...		TCTESBB	CURR BB SEQ NO = OURS
	.1..		TCTENIT	We Init'd session
	..1.		TCTEESR	ext. sec. recvd in BIND
	...1		TCTENOBB	No BB for this allocate

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		*	
	.... .1..		*	
	.... ..1.		TCTE_LR	Limited Resource
	1		*	
`TCTE_TRACE_5_LEN End of TCTTE trace area 5`				
`The next byte is used to save pending User SYNCPT INFO`				
(201)	BIT(8)	1	TCTEUSRV	TCTEUSRS pending info
(202)	UNSIGNED	1	TCTE_ZBAN_ RESPONSE	Response for ZNAC msg
(203)	UNSIGNED	1	TCTE_ZBAN_REASON	Reason for ZNAC msg
(204)	ADDRESS	4	TCTTEMOD	-> Mode-entry
(204)	ADDRESS	4	TCTE_PREV_ APPC_SURROG	
				Next PS APPC surrog
(208)	ADDRESS	4	TCTE_ACQUIRE_ DATA	Acquire userdata
(20C)	ADDRESS	4	TCTEBIMG	-> BIND-image
(210)	BIT(8)	1	*	Reserved
`XRF Flags`				
(211)	BIT(8)	1	*	
	1...		TCTEXON	No tracking
	.1..		TCTEXOD	Cleanup : Send END BRACKET *
	..1.		TCTEXOC	Cleanup : Issue CLEAR cmd
	...1		TCTEXOR	Cleanup : UNBIND session
	.... 1...		TCTEXOT	Unconditional UNBIND
	.... .1..		TCTEXNN	RecovNotify = None
	.... ..1.		TCTEXNM	RecovNotify = Message
	1		TCTEXNT	RecovNotify = Transaction
`XRF Flags, gathered up from other areas`				
(212)	BIT(8)	1	*	Misc XRF Bits
	1...		TCTEXNG	NETNAME removed from TMP
	.1..		TCTEXSB	OPNDST is to be STANDBY
	..1.		TCTEXSW	XRF Analyse R(Switch)

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		TCTEXNC	XRF ZNAC Recovery Process
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		TCTEXS1	Takeover signon flag OFF = NOFORCE, ON = FORCE
	1		TCTEXRO	XRF - Overide XRF capable if set to 1 it stops the XRF vector being created subsequent to the logon exit.
TCTE ACQUIRE OPTIONS				
(213)	BIT(8)	1	TCTE_ACQUIRE_ OPTIONS	
				Acquire options
	1...		TCTE_SIMLOG_RQD	SIMLOGON reques
	.1..		TCTE_QALL_RQD	QALL option
	..1.		TCTE_QSESSLIM_ RQD	QSESSLIM option
	...1		TCTE_QNOTENAB_ RQD	QNOTENAB OPTION
	.... 1...		TCTE_RELREQ_RQD	RELREQ option
	.... .111		*	Reserved
SESSION FUNCTIONS DEFINITION				
(214)	FULLWORD	4	*	Ensure alignment
(214)	BIT(8)	1	TCTETSPB	Terminal session pool byte
	1...		TCTEXSL	Standby LOGON pending
	.1..		TCTESPLI	Pool/session leader
	..1.		TCTETPSI	Session terminal indicator
	...1		TCTECLE	CLSDST cleanup ended
	.... 1...		TCTEPTI	Pool terminal indicator
	.... .1..		TCTEXSN	Standby session counted
(215)	BIT(8)	1	*	
	1...		TCTEPTBI	Indicator
	.1..		TCTEPRQ	PROGRAM request indicator
	..1.		TCTEOWCI	ON WRITE COMPLETEDIND.

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		TCTENCD	CD NOT REQUIRED
	.... 1...		TCTE_ZCNIBISC	Nib gotten from ZCNIBISC
	.... .1..		TCTERLM	Resume after LUSTAT
	.... ..1.		TCTE_REM_EOD	Remember no EOD sup't
	1		TCTE_REM_FRI	Remember No FMH req'd
(216)	BIT(8)	1	TCTESFFB	Session feature flag byte
	1...		TCTECSNI	CSSN feature indicator
	.1..		TCTEFUP	Pass FMH to User
	..1.		TCTESNS	SIMLOGON INVALID indicator
	...1		TCTELIRI	LUSTATUS sent after IR
	.... 1...		TCTEVTSI	VTAM supported 3270 indicator
	.... .1..		TCTECPMI	3270 COMPATIBILITY mode IND
	.... ..1.		TCTEGMMI	GOOD MORNING message required
	1		TCTERYCF	RECOVERY requires CLSDST
(217)	BIT(8)	1	*	Session function definition
	1...		TCTECSRI	COLD START request indicator
	.1..		TCTEEOD	No EOD support indicator
	..1.		TCTENOCI	No output chain support IND
	...1		TCTENASI	No ATI support terminal
	.... 1...		TCTENFRI	No FMH required indicator
	.... .1..		TCTENFSI	No FMH support terminal
	.... ..1.		TCTESEB	END BRACKET on every write
	1		TCTESDA	CONTINUE ANY on every write
(218)	BIT(8)	1	TCTESD2	Byte Storage Allocation

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		TCTESDBP	HALF-DUPLEX FLIP-FLOP
	.1..		TCTESDEM	EMW - type session
	..1.		TCTESDLD	LDC - type session
	...1		TCTENQCI	No QEC supported on output
	.... 1...		TCTESDED	SEND EB with DEFINITE response required
	.... .1..		TCTESDIS	INBOUND SIGNAL supported
	.... ..1.		TCTESBDI	LONG TYPE1 FMH supported
	1		TCTETRC	Trace ACTIVATE SCAN
(219)	BIT(8)	1	TCTESD3	Byte Storage Allocation
	1...		TCTES2EB	SECONDARY can SEND EB
	.1..		TCTESRPI	SENDER ERP RESPONSIBILITY
	..1.		TCTESBIF	SBI/BIS supported
	...1		TCTEFNSP	SPR supported
	.... 1...		TCTEFNPR	PREPARE supported
	.... .1..		TCTEFLUS	LUSTAT SENDING supported
	.... ..1.		TCTEFST	FAST PATH session
	1		TCTENCK	BB,EB supported
(21A)	CHARACTER	2	TCTEINSH	
(21A)	BIT(8)	1	TCTESD4	Byte Storage Allocation
	1...		TCTENDT	No SDT supported
	.1..		TCTENSH	No SHUTD support
	..1.		TCTEQRS	QRI response supported
	...1		TCTECDX	SEND CD with RQE
	.... 1...		TCTEBID	NULL RU with BB = BID
	.... .1..		TCTESDN	SIGNAL will drive NACP
	.... ..1.		TCTEESC	Enforce HARD SIGNAL RCD
	1		TCTECON	Contention logical unit

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(21B)	BIT(8)	1	TCTESD5	Byte Storage Allocation
	1...		TCTERIB	RESET state is INB
	.1..		TCTEPSS	PRIMARY SEND state at session initiation
	..1.		TCTEL06	NULL RU = LUSTAT 0006
	...1		TCTESQI	QRI supported
	.... 1...		TCTEL07	LUSTAT 0007 not THR ZNAC
	.... .1..		*	
	11		TCTESTL	SECONDARY RECEIVE STACK where B'00' = 1-Level where B'01' = 2-Level where B'10' is Reserved where B'11' = 3-level
(21C)	BIT(8)	1	*	byte storage allocation
	1...		TCTEEBX	EB DEFINITE if OUTSTAND REQ
	.1..		TCTERIR	CICS responsible for reinitiation
	..1.		TCTERIN	CICS may not Reinitiate
	...1		TCTESTR	Do not send RTR
	.... 1...		TCTERIS	Re-initiate pending
	.... .1..		TCTENBK	Bracket(No)
(21D)	BIT(8)	1	TCTELSB	LU-type subsetting flags B *
	1...		TCTELS25	LU-type subsetting bit 25
	.1..		TCTELS26	LU-type subsetting bit 26
	..1.		TCTELS27	LU-type subsetting bit 27
	...1		TCTELS28	LU-type subsetting bit 28
	.... 1...		TCTELS29	LU-type subsetting bit 29
	.... .1..		TCTELS30	LU-type subsetting bit 30
	.... ..1.		TCTELS31	LU-type subsetting bit 31

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		TCTELS32	LU-type subsetting bit 32
(21E)	BIT(8)	1	TCTECACT	In transmission
(21F)	BIT(8)	1	TCTECLIM	Transmission
(220)	ADDRESS	4	TCTESPPA	Session pool address
(220)	ADDRESS	4	TCTETPPA	Terminal pool address
VTAM 3270 CONTROL INFORMATION				
(224)	BIT(8)	1	*	Byte storage allocation
	1...		TCTEEXI	EXCEPTIONAL input received
	.1..		TCTEXIP	EXCEPTIONAL input program in progress
	..1.		TCTEPRP	PRINT command in progress
	...1		TCTEINT	INTERVENTION required
	.... 1...		TCTERRT	RESTORE read with TEXT
	.... .1..		TCTERRI	RESTORE read indicator
	.... ..1.		TCTECPY	PRINTTO=(X,COPY)
	1		TCTECPA	ALTPRT=(X,COPY)
MISCELLANEOUS control information.				
(225)	BIT(8)	1	*	
	1...		TCTEHOR	Handling own errors
	.1..		TCTEWPD	BMS input passthrough
	..1.		TCTERED	EDS FMH received
	...1		TCTEF12	Awaiting receipt of FMH 12
	.... 1...		TCTEDLG	LOGON with OPNDST active
	.... .1..		TCTETIA	Send buffer is a TIOA
	.... ..1.		TCTEBIR	BIND received
	1		TCTEUBR	UNBIND received
Persistent Sessions State machine - see constants for values				
(226)	BIT(8)	1	TCTE_PRSS	Persistent Sessions State
Generic resource flags				
(227)	BIT(8)	1	TCTE_GR_FLAGS	Generic Resource flags

Table 632. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		TCTE_GR_ LOGGEDON_ BY_MEMBERNAME	
				terminal used member name to log on
Correlation ID The correlation ID for non-LUC terminals is as follows The correlation ID for LUC terminals is contained in the LUC extension				
(228)	CHARACTER	8	TCTECORR	Correlation ID
TCTTENNM is used during deletion of an autoinstalled terminal to hold the Terminal Netname. The field is set in DFHBSTZV prior to Freemaining the NIB, and used in DFHBSSUB during Statistics collection.				
(228)	CHARACTER	8	TCTTENNM	Netname Copy
(230)	CHARACTER	8	TCTTETIM	STCK logon time
(238)	ADDRESS	4	TCTEBFLA	VTAM buffer list address
(23C)	ADDRESS	4	TCTE_PRSS_ CV29_PTR	Last PRSS flows etc
(240)	ADDRESS	4	TCTELUCX	A(TCTTE LUC Extension)
(240)	CHARACTER	0	TCTEPIPE	PIPELINE overlay
(244)	CHARACTER	0	TCTESESS	Session overlay
VTAM 3270 SYSTEM AREA EXISTS only for VTAM 3270 and 3270 COMPATIBILITY mode				
(244)	CHARACTER	4	TCTEPTO	PRINTTO name
(248)	CHARACTER	4	TCTEAPT	ALTPRT name
(24C)	ADDRESS	4	TCTEFRM	Source-terminal address for copy
PRINTER and Alternate Printer Netnames for VTAM 3270				
(250)	CHARACTER	8	TCTEPNET	Printer Netname
(258)	CHARACTER	8	TCTEANET	Alternate Printer Netname
Length of ZC Terminals				
(260)	CHARACTER	64	*	Reserved
(2A0)	CHARACTER	0	TCTEGET1	Length for ZC terminals
(2A0)	CHARACTER	0	TCTEGET2	Length for ZC terminals

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--------------------------------------------------------------
Overlay part of the TCTTE with the three session types.
NB. This code is shared assembler code and matches
corresponding assembler DSECTS.
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Table 633.

Offset Hex	Type	Len	Name (dim)	Description
(148)	STRUCTURE	31	CR_COMMON	
(148)	STRUCTURE IsA(RMC_SHARED)	31	*	
(148)	STRUCTURE IsA(RMC_COMMON)	20	*	
(148)	STRUCTURE IsA(DFHCRESI_STATE)	10	*	
!:refstep.CR_CURRENT_LINK -------------------------- DFHCRERE 307 - ! ! This is the token returned by ADD_LINK, and represents &rm..s link ! state. It is supplied to &rm..on subsequent calls. ! !--				
(148)	BIT(32)	4	CR_CURRENT_ LINK	
!:erefstep.CR_CURRENT_LINK --- !:refstep.CR_PENDING_LINK -------------------------- DFHCRERE 319 - ! ! This field is used to keep &rm..s token for a link which we have ! deleted but not forgotten (ie. the conversation has gone out of ! bracket, but the implicit forget flow has not been received yet). ! ! In addition to this field, there is a flag to indicate that we ! have set FORGET(NO) in response to PERFORM_COMMIT, and are ! therefore obliged to inform &rm..that he can forget the link ! status on the next inbound flow (or that he must remember the link ! status if the session is lost). ! ! Also, there is a flag to indicate that the session is a 'dummy', ! in the sense that a DFHRMLNM ADD_LINK has not been issued for the ! session. This happens for MRO sessions which are used to perform ! bind processing (DFHCRR). Bind sessions do not need recovery ! manager actions, and do not participate in syncpoint (even in ! failure situations). There can be many concurrent bind sessions at ! start of day, and if we were to issue ADD_LINKs for all of them, ! then RM could be swamped. ! !--				
(14C)	BIT(32)	4	CR_PENDING_ LINK	
(150)	1...		CR_FORGET_ NEEDED	
	.1..		CR_DUMMY_LINK	
	..11 1111		*	
!:erefstep.CR_PENDING_LINK --- !:refstep.CR_PEND_RECOVERY_STATUS -------------------- DFHCRERE 354 - ! ! The PENDING mechanism for adding/setting links is managed by a new ! piece of state, ! CR_PEND_RECOVERY_STATUS, associated with the session. ! !--				
(151)	UNSIGNED	1	CR_PEND_ RECOVERY_STATUS	

Table 633. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(152)	STRUCTURE IsA(RMC_COMMON_LOGNAME)	9	*	
(152)	CHARACTER	9	CR_LOGNAME	
(152)	UNSIGNED	1	CR_LOGNAME_ LEN	
(153)	CHARACTER	8	CR_LOGNAME_ DATA	
(15B)	STRUCTURE IsA(REMEMBERED_STATE)	1	*	
	1...		CR_2PC_ SESS_FAIL	
				sess fail sending Prepare|SPR
	.1..		CR_SHUNT_ RECEIVED	
	..1.		CR_ABORT_ RECEIVED	
	...1		CR_ABORT_ FORBIDDEN	
(15C)	STRUCTURE IsA(RMC_SHARED_IRC61)	9	*	
(15C)	STRUCTURE IsA(SEQUENCE_NUMBERS)	9	*	
(15C)	CHARACTER	8	CR_SEQ_NOS	
(15C)	CHARACTER	4	CR_BACKOUT_ SEQ_NOS	
(15C)	HALFWORD	2	CR_BACKOUT_ SEQ_INPUT	
(15E)	HALFWORD	2	CR_BACKOUT_ SEQ_OUTPUT	
(160)	CHARACTER	4	CR_COMMIT_ SEQ_NOS	
(160)	HALFWORD	2	CR_COMMIT_ SEQ_INPUT	
(162)	HALFWORD	2	CR_COMMIT_ SEQ_OUTPUT	
(164)	11..		CR_UOW_ DISPOSITION	
				NOTE - MUST be 1st 2 bits of byte for ASM
(165)	STRUCTURE IsA(RMC_SHARED_IRC62)	2	*	
(165)	STRUCTURE IsA(RESYNC_TYPE)	1	*	
	11..		CR_RESYNC_ TYPE	What resync type is partner?

Table 633. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(166)	STRUCTURE IsA(RECOVERY_PROTOCOL)	1	*	
	1...		CR_PROTOCOL	

Table 634.

Offset Hex	Type	Len	Name (dim)	Description
(168)	STRUCTURE	1	CR_LU62	
(168)	STRUCTURE IsA(RMC_LU62_SPECIFIC)	1	*	
(168)	STRUCTURE IsA(PA_RELIABILITY)	1	*	
	1...		CR_RELIABILITY_ VOTE	
				Determined by inbound. rqc

Table 635.

Offset Hex	Type	Len	Name (dim)	Description
(168)	STRUCTURE	2	CR_LU61	
(168)	STRUCTURE IsA(RMC_LU61_SPECIFIC)	2	*	
(168)	STRUCTURE IsA(LU61_SYNCPOINT_CONTROL)	1	*	
	1...		CR_LU61_ INBOUND_PREPARE	
	.1..		CR_LU61_ INBOUND_SPR	
(169)	STRUCTURE IsA(LU61_RESYNC_CONTROL)	1	*	
	1...		CR_LU61_ RESYNC_REQUIRED	
	.1..		CR_LU61_ PARTNER_COLD	
	..1.		CR_LU61_ RESYNC_DONE	
	...1		CR_LU61_ SECOND_ STSN_EXPECTED	

Table 636.

Offset Hex	Type	Len	Name (dim)	Description
(168)	STRUCTURE	6	CR_IRC	
(168)	STRUCTURE IsA(RMC_IRC_SPECIFIC)	6	*	
(168)	STRUCTURE IsA(IRC_BIND_STATE)	1	*	

Table 636. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	111.		CR_BIND_ LEG_NUM	Which conversation leg is it? NOTE- leg num must be first 3 bits of byte
	...1		CR_BIND_ LOGGING	Is bind logging done yet?
(169)	STRUCTURE IsA(IRC_CONV_CORRELATOR)	5	*	
(169)	UNSIGNED	1	CR_CONV_ CORRELATOR_LEN	
(16A)	CHARACTER	4	CR_CONV_ CORRELATOR	

```
PIPELINE POOL ENTRIES (TCTEPTI) OVERLAY
```

Table 637.

Offset Hex	Type	Len	Name (dim)	Description
(240)	STRUCTURE	12	*	Pipeline specific data
(240)	ADDRESS	4	TCTEPLCH	Pipeline pool chain if leader * and 3650 pipeline Session
(244)	CHARACTER	0	TCTEGET9	Length of pipeline term
(244)	CHARACTER	8	TCTEPLID	Poolid if pool-entry leader *
(244)	ADDRESS	4	TCTEPLLP	-> Pool-entry leader
(248)	FULLWORD	4	TCTEPLEI	pool entry id for catlog
(24C)	CHARACTER	0	TCTEGET8	L(pipeline pool chain)
(24C)	CHARACTER	0	TCTEGET7	Length for pipeline pool

```
Session Overlay Area (non-pipeline)
```

Table 638.

Offset Hex	Type	Len	Name (dim)	Description
(244)	STRUCTURE	4	*	session data
(244)	ADDRESS	4	TCTEPREV	Previous TCTTE
(248)	CHARACTER	0	TCTEGET3	Length for LUC Session

```
IRC Overlay area
```

Table 639.

Offset Hex	Type	Len	Name (dim)	Description
(190)	STRUCTURE	176	*	OVERLAY access method-specific IRC Overlay area

Table 639. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(190)	CHARACTER	3	TCTESRHI	INBOUND request header
(190)	CHARACTER	1	TCTESRI1	1st byte
	1...		TCTESRSP	=1 for RESPONSE =0 for REQUEST
	.1..		TCTESDFC	=1 for data flow control header
	..1.		*	
	...1		*	
	.... 1...		TCTESFI	Format IND. =1 if FMH present
	.... .1..		TCTESSDI	=1 when sense data present
(191)	CHARACTER	1	TCTESRI2	2nd byte
	1...		TCTESDR1	DEFINITE response 1
	.1..		*	
	..1.		TCTESDR2	DEFINITE response 2
	...1		TCTESERI	EXCEPTION response
	...1		TCTESRTI	0= for +VE response,1= for -VE
(192)	CHARACTER	1	TCTESRI3	M-M BRACKET byte
	1...		TCTESBBI	BEGIN BRACKET indicator
	.1..		TCTESEBI	END BRACKET indicator
	..1.		TCTESCDI	CHANGE DIRECTION indicator
(193)	CHARACTER	3	TCTESRHO	OUTBOUND request header
(193)	CHARACTER	1	TCTESRO1	1st byte. Bits as TCTESRI1
(194)	CHARACTER	1	TCTESRO2	2ND byte. Bits as TCTESRI2
(195)	CHARACTER	1	TCTESRO3	3RD byte. Bits as TCTESRI3
(196)	HALFWORD	2	*	Reserved
(198)	BIT(8)	1	TCTESRQ	IRC request flags
	1...		TCTESQWR	WRITE request
	.1..		TCTESQSY	WAIT request
	..1.		TCTESQRD	READ request
	...1		*	
	.... 1...		*	
	.... .1..		TCTESQSG	Segmented data

Table 639. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		TCTESQAT	ATTACH
	1		TCTESQWP	WRITE pending
(199)	BIT(8)	1	*	Misc. IRC flags
	1...		TCTE_USE_ MRO_BITMAP	
				Session name in BITMAP
(19A)	BIT(8)	1	TCTESBRS	BRACKET status byte
(19B)	BIT(8)	1	*	Reserved
(19C)	CHARACTER	4	*	Reserved monitoring field
(1A0)	FULLWORD	4	TCTETHNO	THREAD NO. for IRC SVC
(1A4)	FULLWORD	4	TCTETHID	THREAD ID for IRC SVC
(1A8)	ADDRESS	4	TCTESCCB	Address of SCCB for THREAD
(1AC)	CHARACTER	4	TCTEIRDA	data for switch
(1AC)	ADDRESS	4	TCTEIRRA	Address of RH
(1B0)	FULLWORD	4	TCTEIRRL	Length of RH
(1B4)	ADDRESS	4	TCTEIRTA	Address of LU6.2 FMH
(1B8)	FULLWORD	4	TCTEIRTL	Length of LU6.2 FMH
(1BC)	ADDRESS	4	TCTEIRFA	Address of FMH
(1C0)	FULLWORD	4	TCTEIRFL	Length of FMH
(1C4)	FULLWORD	4	TCTEIRTT	OTHER-system LEVEL-indicator *
(1C8)	CHARACTER	4	TCTEIRFS	Flags bytes
(1C8)	BIT(8)	1	TCTEIRF1	Flag byte one
	1...		TCTEIRGI	GET DATA ALREADY issued
	.1..		TCTEIRSR	SESSION RECOVERY performed
	..1.		TCTEIRWL	Have issued write last
	...1		TCTEIRJL	JUST allocated
	.... 1...		TCTEIRCO	Control on other side
	.... .1..		TCTEIRDP	Data to be processed
	.... ..1.		TCTEIRUT	Tell IOR to use TIOA
	1		TCTEIRAO	AVAIL outstanding
(1C9)	BIT(8)	1	TCTEIRF2	Flag byte two
	1...		TCTEIRCD	CD on this side

Table 639. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		TCTEIRXM	CROSS-MEMORY in use
	..1.		TCTEIRAA	CRNP ATTACH SEC check failed *
	...1		TCTEIRDL	WRITE LAST issued but EB deferred *
	.... 1...		TCTERRSS	Transactional EXCI suppt
	.... .1..		TCTETXBK	TEXCI BACKOUT IF ABEND
(1CA)	CHARACTER	2	*	Reserved
(1CC)	ADDRESS	4	TCTEURAD	MVS UR address
(1D0)	BIT(8)	1	TCTEIRST	BIN status
	1...		*	Reserved
	.1..		TCTEIRBN	EXCI session
	..1.		*	RESERVED for TRANS. EXCI
	...1		TCTE_UR_ INIT_NEEDED	
				UR client INIT needed
	.... 1...		TCTE_UR_ BIND_NEEDED	
				UR client BIND needed
(1D1)	CHARACTER	66	*	Reserved
(213)	CHARACTER	0	TCTEGET4	Length for IRC Conv.
	LUWID, in the FORM of LL00ID (for possible WTO)			
(213)	CHARACTER	1	*	Reserved
(214)	HALFWORD	2	TCTESLWN	LTH of LUW ID + 4
(216)	HALFWORD	2	TCTESL00	ZEROS
(218)	CHARACTER	35	TCTESLWD	LUWID
(23B)	CHARACTER	5	TCTEDLAB	DL/I ABEND code
(240)	CHARACTER	0	TCTEGET5	Length for IRC Batch

```
DESCRIPTIVE NAME  = Terminal Control Table System Entry
PRODUCT-SENSITIVE PROGRAMMING INTERFACE.
The following fields form part of the Product-Sensitive
Programming Interface
TCSACCM TCSELUC TCSESID TCSESKA TCSESUR TCSETYPE
```

Table 640.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	336	DFHTCTSE	
(0)	CHARACTER	8	*	
	AID CHAIN HEADER FIELDS			

Table 640. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	ADDRESS	4	TCSEDAID	Pointer to dummy AID
The following fields form part of a dummy AID which acts as the anchor for this TCTSE's AID chain. The only fields which actually exist in this dummy AID are the forward and backward chain pointers. The dummy AID forward pointer points to the first AID on the chain. The dummy AID backward pointer points to the last AID on the chain. The first AID's backward pointer points to the dummy AID. The last AID's forward pointer points to the dummy AID. If the chain is empty, the dummy AID forward and backward pointers both point to the dummy AID itself. Field TCSEDAID points to the notional start of the dummy AID.				
(C)	ADDRESS	4	TCSESUSF	FORWARD AID chain.
(10)	ADDRESS	4	TCSESUSB	BACKWARDS AID chain
END OF AID CHAIN HEADER FIELDS				
(14)	CHARACTER	1	TCSETYPE	INTERPRETATION of later fields VTAM or M-M LINKS for a region which must be reached via another (IE by DAISY-CHAINING).
(15)	CHARACTER	1	TCSEILUC	LUC flag byte
(15)	BIT(8)	1	TCSEFLGS	LUC status
	1...		TCSELUC	This is a LUC system
	.1..		TCSELU6	This is a LU6 system
	..1.		TCSEMRO	This is a MRO system
	...1		TCSESNG	Feature=SINGLE
	.... 1...		TCSESHU	SHUTDOWN in progress
	.... .1..		TCSEXLA	XLNaction parameter. On=Force
	.... ..1.		TCSESUR	Surrogate
	1		TCSECNS	CHANGE_NO_SESS supported
(16)	HALFWORD	2	TCSELEN	Entry length
(18)	CHARACTER	8	TCSESID	System NETWORK name
(20)	CHARACTER	8	TCSE_SECURITYNAME	Catlg'd SECURITYNAME
(28)	CHARACTER	8	TCSEMM	Shared database conversations *
(28)	ADDRESS	4	TCSESES1	LUC only - 1st session
(28)	ADDRESS	4	TCSEVC1	VTAM - Primary sessions

Table 640. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	ADDRESS	4	TCSEMODE	LUC only - mode ENTRY
(2C)	ADDRESS	4	TCSEVC2	VTAM - Secondary sessions
Access Method VALUES SAME as for TCTTE field TCTEAMID				
(30)	BIT(8)	1	TCSACCM	Access Method flags
(31)	BIT(8)	1	TCSEDSP	DATA-STREAM
(32)	BIT(8)	1	TCSEDBA	De-blocking algorithm
(33)	BIT(8)	1	TCSEI_AI	APPC autoinstall flags
	1...		TCSETRAN	Transient system
	.1..		TCSE_CLONE	Cloned system
	..1.		TCSE_CATLG_NO	AI not catalogued
	...1		TCSE_IMPLICIT_ DELETE	
				AI delete
	.... 1...		TCSE_DELETE_ AT_RESTART	
				AI delete after EMER
	.... .1..		TCSE_DELETE_ SCHEDULED	
				AI DFHIC CATD sched
	.... ..1.		TCSE_DELETE_ STARTED	
				AI DFHZATD started
	1		TCSE_DELETE_ AND_LOGON	
				AI BIND during delete
(34)	ADDRESS	4	TCSE_TFUS_PTR	-> Secure Extension
(38)	CHARACTER	12	*	Reserved
SYSTEM ENTRY - VTAM SPECIFIC CURRENT STATISTICS				
(44)	UNSIGNED	2	TCSEALL	Number of AID'S in CHAIN
(46)	HALFWORD	2	TCSESALL	Number of non-specific AID
(48)	HALFWORD	2	TCSEBID	Number of BIDS in progress
(4A)	HALFWORD	2	TCSE2RY	Secondaries currently used
(4C)	UNSIGNED	2	TCSERTK	RTT entry number.
HIGH WATER MARKS				

Table 640. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4E)	HALFWORD	2	TCSESTAM	Maximum number of allocates outstanding
(50)	HALFWORD	2	TCSE2HWM	Secondaries used
(52)	HALFWORD	2	TCSEBHWM	Maximum number of BIDS
ACCUMULATORS				
(54)	FULLWORD	4	TCSES2	ATI'S SAT. by secondaries
(58)	FULLWORD	4	TCSES1	ATI'S SAT. by primaries
(5C)	FULLWORD	4	TCSESBID	Number of BIDS sent
ISC LINK STATISTICS				
(60)	FULLWORD	4	TCSESTAS	Number of allocates for LINK
(64)	FULLWORD	4	TCSESTAQ	Number of allocates QUEUED
(68)	FULLWORD	4	TCSESTAF	Allocates failing - LINK SHUT
(6C)	FULLWORD	4	TCSESTAO	Allocates failing - OTHER
(70)	FULLWORD	4	TCSESTFC	Number of FC requests
(74)	FULLWORD	4	TCSESTIC	Number of IC requests
(78)	FULLWORD	4	TCSESTTD	Number of TD requests
(7C)	FULLWORD	4	TCSESTTS	Number of TS requests
(80)	FULLWORD	4	TCSESTDL	Number of DL/1 requests
(84)	FULLWORD	4	TCSESTTC	Number of TERM SHR REQS
(88)	HALFWORD	2	TCSEMXQT	Allocate queue time
(8A)	HALFWORD	2	TCSEQPCT	MAXQTIME queue purge count *
(8C)	HALFWORD	2	TCSEMQPC	MAXQTIME alloc.s purged
(8E)	CHARACTER	2	*	Reserved
(90)	FULLWORD	4	TCSEZQRJ	XZIQUE rejects
(94)	HALFWORD	2	TCSEZQPU	XZIQUE purge conn count
(96)	HALFWORD	2	TCSEZQPC	XZIQUE allocs.s purged
Generic Resource Flags				
(98)	BIT(8)	1	TCSEI_GR	Generic Resource Flags

Table 640. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		TCSE_GR	Both sides GR registered
	.1..		TCSE_GRNAME_ CONN	1 = TCSESID is GR name TCSEX62N membername 0 = TCSESID membername TCSEX62N is GR name
	..1.		TCSE_USE_ OUR_MEMBER_NAME	
				Partner used our member name
	...1		TCSE_MSG179_ ISSUED	
				ZC0179 Msg Issued
	.... 1...		TCSE_CATLG_DONE	Defined connection with affinity is catalogued
	.... .1..		TCSE_MSG177_ ISSUED	
				Msg ZC0177 issued
	.... ..1.		TCSE_RUN_ZGCH	Affinity has to be ended
(99)	BIT(8)	1	TCSE_MISC	Miscelaneous
	1...		TCSESSRE	Shunt received since restart
	.1..		TCSE_SD_ HANG_REPORTED	
				on if ZC2352 written
	..1.		TCSEUDU	Use default user
	...1		TCSE_CNOS_SHUT	CNOS shutdown processed
	.... 1...		TCSE_CNOS2	CNOS inst 2 processed
	.... .1..		TCSE_CHECK_ IPIC_AIDS	
				Check for IPIC AIDs
(9A)	HALFWORD	2	TCSE1RY	Primaries currently used
(9C)	HALFWORD	2	TCSE1HWM	Peak number of Primaries used
(9E)	HALFWORD	2	TCSEARC8	Allocates after RC8 XZIQUE
(A0)	ADDRESS	4	TCSENEXT	Address of next TCTSE
(A4)	CHARACTER	5	*	

Table 640. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A4)	UNSIGNED	2	TCSENQCT	ENQ count for task
(A6)	CHARACTER	3	TCSENQTI	Task id of ENQ holder
(A9)	BIT(8)	1	TCSEDII	DYNAMIC INSTALL inds
	1...		TCSEDAP	DYNAMIC ADD pending
	.1..		TCSEDDP	DYNAMIC DELETE pending
	..1.		TCSEPNAC	Pending AUTOCONNECT
	...1		*	Reserved
	.... 1...		TCSEORIS	Indirect System not ready
	.... .1..		TCSEPNOS	Pending ^INSERVICE
	.... ..1.		TCSEPNLG	Pending CREATESESS
	1		TCSEPNAA	Pending AUTOCONNECT ALL
(AA)	CHARACTER	2	TCSEINUC	(Packed) Indirect system count
(AC)	ADDRESS	4	TCSE_REMDEL_ CHAIN	Address next REMDEL system
(AC)	ADDRESS	4	TCSESKA	Skeleton address
(B0)	UNSIGNED	2	TCSESRTK	Saved RTT entry number e.g. for APPC terminals
(B2)	BIT(8)	1	TCSEDII2	DYNAMIC INSTALL inds
	1...		TCSERDLR	Remote delete required
	.1..		TCSETMC	TMP action taken for TCTS
	..1.		TCSEMROP	SHIP done to this system
	...1		TCSEMROG	We got shipped remotes
	.... 1...		TCSECRRD	Remote reset done
	.... .1..		TCSECRSR	DFHCRS running
	.... ..1.		TCSEUIP	Ltd. XRF update-in-place
	1		TCSEACT	Remote APPC defined as
(B3)	CHARACTER	1	TCSEDII3	

Table 640. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		TCSECSRE	Contact with partner since restart
	.1..		TCSERC8	RC8 from XZIQUE
	..1.		TCSEQLIM	Queue limit set?
	...1		TCSEQTIM	Max queue time set
The following indicate revised rules for LU6.2 Sync-Pointing Next flag says whether revised rules for Conversation Correlators and State-after-Rollback are used				
	.... 1...		TCSEAR0I	On = FQCC is supported
Off = FQCC is not supported				
	.... .1..		TCSECRTE	CRTE activity flag
	.... ..1.		TCSEPGIP	Purge in progress
	1		TCSE_SYSTEM_ SUPPORTS_TIMEOUT	
				timeout supported
(B4)	HALFWORD	2	TCSEALIM	CEDA allocate queue limit
(B6)	HALFWORD	2	TCSEACNT	Queued Allocates processed
(B8)	CHARACTER	8	TCSEAQTS	Time alloc Queue began
(C0)	CHARACTER	4	TCSETAQ	Number of allocates queued
(C4)	CHARACTER	4	TCSEALRJ	QLIMIT alloc.s rejected
(C8)	FULLWORD	4	TCSESTPC	Number of PC requests
(CC)	CHARACTER	2	TCSE_SUPPORTS_ FUNCTION	
				Function string
(CC)	BIT(8)	1	TCSE_SUPPORTS_ FLG1	
				Flag1
	1...		TCSE_ROUTABLE_ START	
				Routable START
	.1..		TCSE_REQUESTSTREAMS	
				Requeststreams
(CD)	BIT(8)	1	TCSE_SUPPORTS_ FLG2	
				Flag2
(CE)	CHARACTER	2	TCSE_RESERVED	Reserved
(D0)	CHARACTER	8	TCSE_LINK_ CHAN_SENT	

Table 640. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				LINK CHANNEL bytes sent
(D8)	CHARACTER	8	TCSE_LINK_ CHAN_RCVD	
				LINK CHANNEL bytes rcvd
(E0)	CHARACTER	8	TCSE_STRT_ CHAN_SENT	
				START CHANNEL bytes sent
(E8)	CHARACTER	8	TCSE_STRT_ CHAN_RCVD	
				START CHANNEL bytes rcvd
(F0)	CHARACTER	8	TCSE_TSHR_ CHAN_SENT	
				Number of bytes of terminal sharing channels sent
(F8)	CHARACTER	8	TCSE_TSHR_ CHAN_RCVD	
				Number of bytes of terminal sharing channels rcvd
(100)	FULLWORD	4	TCSE_LINK_CHAN	Number of LINK CHANNEL
(104)	FULLWORD	4	TCSE_STRT_CHAN	Number of START CHANNEL
(108)	FULLWORD	4	TCSE_TSHR_CHAN	Number of terminal sharing channel requests
(10C)	FULLWORD	4	TCSE_RSVD2	Reserved
(110)	OBJECT	64	TCSE_RESSIG	Resource Signature
(110)	CHARACTER	64	DFHAMSIG_ INSTANCE	Resource Signature
(110)	STRUCTURE IsA(DFHAMSIG_DEFINE_SIGNATURE)	38	DEFINE_ SIGNATURE	Resource Signature
(110)	CHARACTER	8	DEFINE_SOURCE	GROUP resource installed from
(118)	CHARACTER	8	DEFINE_TIME	Time resource defined
(120)	CHARACTER	8	CHANGE_TIME	Change/create time
(128)	CHARACTER	8	CHANGE_USERID	Change userid
(130)	UNSIGNED	2	CHANGE_AGENT	Change agent
(132)	CHARACTER	4	AGENT_LEVEL	CICS level of change agent
(136)	STRUCTURE IsA(DFHAMSIG_INSTALL_SIGNATURE)	18	INSTALL_ SIGNATURE	

Table 640. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Resource Signature
(136)	CHARACTER	8	INSTALL_TIME	Install/create time
(13E)	CHARACTER	8	INSTALL_ USERID	Install userid
(146)	UNSIGNED	2	INSTALL_AGENT	Install agent
(148)	CHARACTER	8	*	Resource Signature
(150)	CHARACTER	0	TCSECOMN	End of common part
(150)	CHARACTER	0	TCSEGET1	Length for ZC Install

SYSTEM ENTRY - LU 6.1 and LU6.2

Table 641.

Offset Hex	Type	Len	Name (dim)	Description
(150)	STRUCTURE	92	*	
(150)	CHARACTER	8	*	Reserved
(158)	CHARACTER	8	TCSEX62N	XRF specific name or
(158)	CHARACTER	8	TCSEX61N	GR name or member name
(160)	BIT(8)	1	*	
	1...		TCSEPSF	PSH flag bytes supported
	.1..		TCSEWRS	No sessions bound. Scan for resync at next contact *
	..1.		TCSEXLD	EXCHANGE LOGNAME done
	...1		TCSEPRA	Presumed Abort support
	.... 1...		TCSE_LR	Limited Resource
	.... .1..		TCSEANB	ACQ but No Bound sessions
	.... ..1.		TCSE_PRSS_RECOV	Per. Sess. Recovery rqd
	1		TCSE_XLN_COLD	Hot/Cold XLN failure
(161)	UNSIGNED	1	TCSE_VTAM_MISC	Miscellaneous flag
	1...		TCSE_ALIAS_ IN_USE	VTAM Aliasing
	.1..		TCSE_DIFF_ NETWORK	Alias from diff netid
	..1.		TCSE_POSS_ INVAL_ALIAS	
				May need deleting
(162)	BIT(8)	1	*	LU6.2 Security flag
	1...		TCSEPNAR	Partner SPM not active

Table 641. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		TCSE_PRSS_ REC_ACT	Track pers. resources
	..1.		TCSE_PRSS_ REL_CONN	
				Release connection
	...1		TCSE_CLPEND	XLNaction race control
	.... 1...		TCSEFBN	Sessions already bound
	.... .1..		TCSEBTCH	Batched Resync support
	.... ..1.		TCSECAL	CONNECT=ALL
	1		TCSEBSY	BINDSECURITY keyword used
LU 6.2 Security bits indicating what ATTACH_SECURITY we support and the partner supports. The mapping from the ATTACH_SEC keyword on the CEDA DEFINE CONNECTION or TERMINAL panel is: <pre>:XMP ATTACH_SEC │ Bind Indicators │ UP │ AV │ PV │ ----------|----|----|----| LOCAL	0	0	0 | VERIFY	1	0	0 | IDENTIFY	1	1	0 | PERSISTENT	1	0	1 | MIXED	1	1	1 | :EXMP</pre>				
(163)	BIT(8)	1	TCSE_ATTACH_SEC	LU6.2 Security Flags
	1...		TCSE_MY_UP	Local UP setting
	.1..		TCSE_MY_AV	Local AV setting
	..1.		TCSE_MY_PV	Local PV setting
	...1		TCSE_HIS_UP	Remote UP setting
	.... 1...		TCSE_HIS_AV	Remote AV setting
	.... .1..		TCSE_HIS_PV	Remote PV setting
	11		*	Reserved
The Userid Table area TCSEUTA is an internal control block within the TCSE. It contains a pointer to the Local Userid Table (LUIT) associated with the connection, the 4 character SYSID and some flags defining the state of the LUIT.				
(164)	CHARACTER	12	TCSEUTA	Userid Table Area
(164)	ADDRESS	4	TCSELUIT	Ptr to Local Userid Table.Copy of LOCAL_USERID_TABLE_AREA
(168)	CHARACTER	4	TCSESYSI	SYSID
(16C)	BIT(8)	1	TCSELFLG	LUIT Global Flags
	1...		TCSETOIP	Time Out In Progress flag
	.111 1111		*	Reserved

Table 641. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(16D)	CHARACTER	3	*	Reserved for ZCUT
OTHER TCSE FIELDS.....				
(170)	BIT(8)	1	TCSE_PRSS_FLAGS	Persistent Sessions flags
	1...		TCSE_REL_REQD	Connection in shutdown
	.1..		TCSE_PRSS_ PS_REQD	State record not found
	..1.		TCSE_LR_CATLGED	LR bit set in global cat
	...1		TCSE_PRSS_ OPNDST_ RESTORE_FAILED	
	.... 1...		TCSE_PRSS_ WAS_SHUTTING	
				Unbind all
	.... .111		*	Reserved
(171)	BIT(24)	3	*	Reserved for alignment
(174)	UNSIGNED	4	TCSE_PRA	Persistent Resource count
(178)	CHARACTER	8	TCSE_AI_ CREATE_TIME	
				Autoinstall GMT time
(180)	ADDRESS	4	TCSE_DISTINGUISHED_ NAME_PTR	
				Unique name
(184)	CHARACTER	8	TCSE_TITOKEN	token for remote delete
(18C)	HALFWORD	2	TCSE_APPC_CONV	Active conversations
(18E)	BIT(8)	1	TCSEI_CC_FLAG	CICS client flag byte
	1...		TCSECCIN	CCIN has been run
	.111 1111		*	Reserved
(18F)	UNSIGNED	1	TCSEXLNC	XLN retry counter
(190)	ADDRESS	4	TCSE_CCINDATA_ PTR	PTR CICS client data
(194)	ADDRESS	4	TCSE_LU61_CHAIN	Next LU61 system
(198)	BIT(8)	1	TCSE_CQP_FLAGS	Flags for Connection Quiesce protocol
	1...		TCSE_CQP_ SUPPORTED	
				CQP supported
	.1..		TCSE_ENDAFFIN_ REQD	

Table 641. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				CQP requested ENDAFFIN
	..1.		TCSE_CQPI_ COMPLETE	
				Inbound CQP complete
	...1		TCSE_CQPO_ ATTACHED	
				Outbound CQP attached
	.... 1...		TCSE_CQP_ COMPLETE	CQP has completed
	.... .1..		TCSE_CQP_FAILED	CQP has failed
	11		*	reserved
(199)	CHARACTER	3	*	reserved for alignment
(19C)	CHARACTER	8	TCSE_NETID	Network indentifier
(1A4)	CHARACTER	8	TCSE_REAL_ NETNAME	NQN netname
(1AC)	CHARACTER	0	TCSEGET6	Length of LU6.1 tcse
(1AC)	CHARACTER	0	TCSEGET4	Length for ZC Install

```
SYSTEM ENTRY - M-M SPECIFIC
```

Table 642.

Offset Hex	Type	Len	Name (dim)	Description
(150)	STRUCTURE	4	*	
(150)	HALFWORD	2	TCSESECN	No of secondaries sessions *
(152)	HALFWORD	2	TCSEPRMN	No of primaries sessions

Table 643.

Offset Hex	Type	Len	Name (dim)	Description
(150)	STRUCTURE	20	*	
(150)	CHARACTER	4	*	Leave room for previous two *
(154)	ADDRESS	4	TCSEIRCH	Chain of IRC system entries *
(154)	ADDRESS	4	TCSE_MRO_CHAIN	Alternative name for IRCH
(158)	BIT(8)	1	TCSEIRCF	Flags
	1...		*	Reserved
	.1..		TCSEIRNC	Not connected

Table 643. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		TCSEIRMD	PRI/SEC MISMATCH DIAGNOSED *
	...1		TCSEIDEF	Defined to IRC
	.... 1...		TCSEIRXM	Cross Memory acceptable
	.... .1..		TCSEIRSF	FIRST ATTACH OK
	.... ..1.		TCSEINBT	EXCI connection
	1		TCSEIAID	We need USERSEC=IDENTIFY
(159)	BIT(8)	1	TCSEIRF2	Flags
	1...		TCSEIRXU	Cross Memory in use
	.1..		TCSEIRIC	Outbound connects initiated * for this sys since connections last severed
	..1.		TCSEIRXC	XCF connection
	...1		TCSEIRCQ	CONNECT work element already queued
(15A)	CHARACTER	8	TCSESTOD	Latest CONNECT timestamp
(162)	CHARACTER	2	*	Reserved
(164)	CHARACTER	0	TCSEGET3	Length for ZC Install

SYSTEM ENTRY - INDIRECT ROUTE

Table 644.

Offset Hex	Type	Len	Name (dim)	Description
(150)	STRUCTURE	8	*	
(150)	ADDRESS	4	TCSEINDA	Address of another system entry, on route to remote region.
(154)	CHARACTER	4	TCSEINDN	Name of other system *
(158)	CHARACTER	0	TCSEGET2	Length for ZC Install

DESCRIPTIVE NAME = Terminal Control Table Mode Group Entry

Table 645.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	138	DFHTCTME	
(0)	CHARACTER	8	*	
(8)	CHARACTER	8	TCMEMODE	Mode group name
(10)	ADDRESS	4	TCMENXT	Address of next mode group in this system

Table 645. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	ADDRESS	4	TCMESESA	Address of 1st session in this group
(18)	ADDRESS	4	TCMESYSA	Address of system entry
(1C)	HALFWORD	2	TCMELEN	Length of this mode entry
SYSTEM STATISTICS				
(1E)	HALFWORD	2	TCMELMAX	LOCAL_MAX_ALLOWED
(20)	HALFWORD	2	TCMEMCON	MINIMUM number of contention WINNERS acceptable for this mode group
(22)	HALFWORD	2	TCMEMAXS	MAX_SESSION_COUNT
CURRENT STATISTICS				
(24)	HALFWORD	2	TCMECONW	Currently CNOS negotiated contention WINNERS
(26)	HALFWORD	2	TCMECONL	Currently CNOS negotiated contention LOSERS
(28)	ADDRESS	4	TCMELST	Address of last session in this group
(2C)	HALFWORD	2	TCMEZQPC	XZIQUE alloc.s purged
(2E)	HALFWORD	2	TCMEBID	Number of BIDS in progress
(30)	HALFWORD	2	TCME2RY	LUC contention WINNERS count
(32)	HALFWORD	2	TCMEBND	Currently bound sessions
(34)	HALFWORD	2	TCME1RY	Current no of losers in use
HIGH WATER MARKS				
(36)	HALFWORD	2	TCMESTAM	Maximum number of allocates outstanding
(38)	HALFWORD	2	TCME2HWM	LUC MAX No. WINNERS
(3A)	HALFWORD	2	TCMEBHWM	Maximum number of BIDS
(3C)	UNSIGNED	2	TCMERTK	RTT entry number
(3E)	HALFWORD	2	TCME1HWM	Peak contention losers
ACCUMULATORS				
(40)	FULLWORD	4	TCMES2	LUC ATI'S SAT by WINNERS
(44)	FULLWORD	4	TCMES1	LUC ATI'S SAT by LOSERS

Table 645. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	FULLWORD	4	TCMESBID	Number of BIDS sent
ISC LINK STATISTICS				
(4C)	FULLWORD	4	TCMESTAS	Number of allocates for LINK
(50)	FULLWORD	4	TCMESTAQ	Number of allocates QUEUED
(54)	FULLWORD	4	TCMESTAF	Allocates failing - LINK SHUT
(58)	FULLWORD	4	TCMESTAO	Allocates failing - OTHER
(5C)	FULLWORD	4	TCMESTAG	Generic allocs satisfied
(60)	FULLWORD	4	TCMESTAP	Specific allocs satisfied
(64)	BIT(8)	1	TCMEICOM	Comms failure flags
	1...		TCMENWF	Network Failure
	.111 1111		*	RESERVED
(65)	BIT(8)	1	TCMEDII	DYNAMIC INSTALL indicators
	1...		TCMEDAP	DYNAMIC ADD pending
	.1..		TCMEDDP	DYNAMIC DELETE pending
	..1.		TCMEPNAC	Pending AUTOCONNECT
	...1 1...		*	TCME - Reserved
	.... .1..		TCMEPNOS	Pending ^INSERVICE
	.... ..1.		TCMEPNLG	Pending CREATESESS.
	1		TCMEPNAA	Pending AUTOCONNECT all
(66)	BIT(8)	1	TCMEDII2	DYNAMIC INSTALL indicators
	1...		*	RESERVED
	.1..		TCMEUIP	Update in place
	..11 1111		*	RESERVED
(67)	CHARACTER	1	*	TCME - Reserved
(68)	HALFWORD	2	TCMEPMAX	Potential LOCAL_MAX_ALLOW
(6A)	HALFWORD	2	TCMEPMCO	Potential MAX CON_WINNERS
(6C)	ADDRESS	4	TCMEDPGR	Address of MACRO version
(70)	BIT(8)	1	TCMEIFG1	Flags - 1

Table 645. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		TCMELSM	LU SERVICES MANAGER TCTME
	.1..		TCMETDY	TCPLR TIDYUP to run?
	..1.		TCMECON	CONNECT=AUTO
	...1		TCMECNO	initial CNOS sent
	.... 1...		TCMEBCL	CICS to BIND CON_LOSERS
	.... .1..		TCMEPCN	Postponed CNOS needed
	.... ..1.		TCMEOUT	Mode group OUT OF SERVICE
	1		TCMECLO	Mode group TEMP. CLOSED
(71)	BIT(8)	1	TCMEIFG2	Flags - 2
	1...		TCMETRM	Performing TERMINATION
	.1..		TCMEACT	ACTIVATE SCAN flag
	..1.		TCMESHU	SHUTDOWN in progress
	...1		TCMEINT	Initial CNOS x'chge done
	.... 1...		TCMEERR	Permanent Error in mode group
	.... .1..		TCMER12	RC12 issued by XZIQUE
	.... ..1.		TCME_LOCK_ DENIED	Busy on CNOS target sys
	1		TCMEPGIP	Purge in progress
(72)	HALFWORD	2	TCMEACNT	Queued Allocates processed
(74)	HALFWORD	2	TCMEAR12	Allocates after RC12
(76)	HALFWORD	2	TCMEQPCT	XZIQUE purge mode count
(78)	CHARACTER	8	TCMEAQTS	Time alloc Queue began
(80)	ADDRESS	4	TCME_LOCK_TOKEN	LM token for CNOS lock
(84)	HALFWORD	2	TCME_ORD_COUNT	Outstanding remote deactivation count
(86)	HALFWORD	2	TCME_WTL_COUNT	Expected unbinds for Winner-To-Loser switch
(88)	HALFWORD	2	TCME_LTW_COUNT	Expected unbinds for Loser-To-Winner switch

Table 645. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8A)	CHARACTER	0	TCMEGET	Length for ZC Install

```
DESCRIPTIVE NAME  = TCTTE BMS Extension
```

Table 646.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	TCTTETTE	TCTTE BMS Extension
(0)	UNSIGNED	1	TCTTEELN	Entry length (includes PARTITION Extension for BTAM)
(1)	BIT(8)	1	*	Reserved
(2)	CHARACTER	3	TCTTEOCL	Operator class code
(5)	BIT(16)	2	TCTTETFS	Terminal features
(5)	BIT(8)	1	TCTTEFMB	BMS flag bytes
	1...		TCTTEOBO	OBOPID specified
	.1..		TCTTETFV	VERTICAL format feature
	..1.		TCTTETFH	FORM FEED feature
	...1		TCTTENRA	DON'T route with LIST = ALL
	.... 1...		TCTTENR	NEVER route to this terminal
	.... .1..		TCTTEFMP	User FMH PARAMS supported
	.... ..1.		TCTTEOBF	OUTBOARD FORMATTING support data
	1		TCTTETFM	2780 MULTI-RECORD feature
(6)	BIT(8)	1	*	
	1...		TCTTELDC	BMS LDC device
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		TCTTETFF	HORIZONTAL format feature
(7)	UNSIGNED	1	TCTTEPGL	3270 default PAGE size ROWS *
(8)	UNSIGNED	1	TCTTEPGC	3270 default PAGE size COLS *

Table 646. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9)	UNSIGNED	1	TCTEAPGL	3270 alternate PAGE size ROWS *
(A)	UNSIGNED	1	TCTEAPGC	3270 alternate PAGE size COLS *
(B)	BIT(8)	1	TCTTEPGB	Terminal Paging Status
	1...		TCTTEPGP	TRMSTAT=PAGE
	.1..		TCTTEPGR	TRMSTAT TEMP INVERTED
	..1.		TCTTEPGD	DISPLAY status
	...1		TCTTEPGI	DISPLAY status task
	.... 1...		TCTTEPGG	CONVERSATIONAL pages
	.... .1..		TCTTEPGO	Some MCB has EODPURG=OPER
	.... ..1.		TCTTEPG3	Terminal is 3270
	1		TCTTEPGA	PURGE BMS PAGE after ATNI
(C)	CHARACTER	3	*	Reserved BMS Extension
(F)	CHARACTER	1	TCTTEDDS	DEVICE DEPENDENCE suffix
(10)	CHARACTER	1	TCTTEMSS	MAP SET suffix
(11)	CHARACTER	1	TCTTEAMS	ALTERNATE MAP SET suffix
(12)	HALFWORD	2	TCTTEBFS	Buffer suffix
(14)	ADDRESS	4	TCTTEPSA	System SPOOLING EXTN.address *
(18)	ADDRESS	4	TCTTETPA	(DFHTCTPE) address
(1C)	ADDRESS	4	TCTTEXHN	-> TCTTE if dynamic entry *
(20)	ADDRESS	4	TCTTEPGM	Addr of first message CB
(24)	CHARACTER	8	TCTTEBMN	Name of last mapset
(2C)	CHARACTER	7	TCTTEMAP	Name of last map
(33)	CHARACTER	1	*	Reserved
(34)	CHARACTER	0	TCTTEEXE	End of extension

```
DESCRIPTIVE NAME  = TCTTE Special Features Extension
```

Table 647.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	28	TCTTEPSE	
(0)	UNSIGNED	1	TCTTEQLN	Extension length
(1)	BIT(8)	1	TCTTEQSL	Printer RSL

Table 647. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	CHARACTER	2	TCTTEQPT	Printer type, X'32XX'
(4)	CHARACTER	8	TCTTEQST	Spooling target printer
(4)	CHARACTER	8	TCTTEQSD	Spooling printer dest.ID *
(C)	CHARACTER	4	TCTTEQF	Spooling forms ID
(10)	ADDRESS	4	TCTTEQAP	Spooling control block address *
(14)	HALFWORD	2	TCTTEQLC	Spooling line-up counter
(16)	CHARACTER	1	TCTTEQCL	Spooling device class
(17)	BIT(8)	1	*	Spooling flag byte
	1...		TCTTEQPM	No printed messages *
(18)	CHARACTER	4	*	Reserved *
(1C)	CHARACTER	0	TCTTEPXE	End of SYS.SPOOLING EXTN.

```
DESCRIPTIVE NAME  = TCTTE LUTYPE6.2 Extension
```

Table 648.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	236	TCTTELUC	Start of LUC Extension
	This area (from TCTE_LUCX_TRACE to TCTE_LUCX_TRACE_LEN) is traced in some ZC level 1 trace formats			
(0)	CHARACTER	64	TCTE_LUCX_TRACE	LUCX trace area
(0)	CHARACTER	1	*	
(0)	UNSIGNED	1	TCTTELUL	Length of extension
(1)	CHARACTER	3	TCTESTAT	LU 6.2 state bytes
(1)	BIT(8)	1	TCTELUC1	Flag byte 1
	1...		TCTEPLL	PARTIAL LL count set
	.1..		TCTECEBS	CEB to be sent
	..1.		TCTECEBR	CEB received
	...1		TCTECCDS	CD to be sent
	.... 1...		TCTECCDR	CD received
	.... .1..		TCTECDR2	DR2 to be sent
	.... ..1.		TCTECDR1	DR1 to be sent
	1		TCTESDR	Remember DR1 RQD
(2)	BIT(8)	1	TCTELUC2	Flag Byte 2
	1...		TCTEFMS	FMH to be sent
	.1..		TCTEFMR	FMH received

Table 648. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		TCTEDEX	-ER* received
	...1		TCTERCR	-ZLSX given return code
	.... 1...		TCTEBUF	buffer type RECEIVE
	.... .1..		TCTERCL	ZRVL recalled by ZRLX
	.... ..1.		TCTELLK	LL set by caller
	1		TCTEIMP	IMPLICIT SEND
(3)	BIT(8)	1	TCTELUC3	Flag Byte 3
	1...		TCTELUN	LUSTAT for NULL RU
	.1..		TCTUAXFI	TCTUA XFRMD from TOR
	..1.		TCTELIC	Resp to LUSTAT CEB,RQD2 o/s
	...1		TCTERES	Response to be sent
	.... 1...		TCTEAHB	ATT FMH generated
	.... .1..		TCTERQD2	SEND with RQD2
	.... ..1.		TCTERQD1	SEND with RQD1
	1		TCTERQE	SEND with ER1
(4)	ADDRESS	4	*	reserved (was TCTEURDA)
(8)	ADDRESS	4	*	reserved (was TCTEPURD)
(C)	ADDRESS	4	*	reserved (was TCTEHURD)
(10)	CHARACTER	1	TCTESPL	CONV SYNCPOINT level
(11)	CHARACTER	1	TCTECVT	Conversation type
	1...		*	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	1		TCTEMAPD	"MAPPED"
(12)	UNSIGNED	1	TCTEPLLC	PARTIAL LL count
(13)	UNSIGNED	1	TCTECCL	CONV. CORRELATOR length
(14)	CHARACTER	8	TCTECC	Conversation CORRELATOR
(1C)	ADDRESS	4	TCTESBA	SEND buffer address

Table 648. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	FULLWORD	4	TCTESBL	SEND buffer length
(24)	ADDRESS	4	TCTESBDA	next slot in SEND buffer
(28)	FULLWORD	4	TCTESBDL	DATE length in SEND BFR
(2C)	ADDRESS	4	TCTERBA	RECEIVE buffer address
(30)	FULLWORD	4	TCTERBL	RECEIVE buffer length
(34)	ADDRESS	4	TCTERDA	Next slot in RECV buffer
(38)	FULLWORD	4	TCTERBDL	Data length in RECV buffer
(3C)	HALFWORD	2	TCTELLC	LL count
(3E)	HALFWORD	2	TCTENLLC	New LL count
(3E)	UNSIGNED	1	TCTELSED	Length of RCVD seed
(3F)	UNSIGNED	1	TCTELENC	Len of RCVD TRANSFRMD PWD
TCTE_LUCX_TRACE_LEN End of LUCX trace area				
(40)	ADDRESS	4	TCTEAPBF	APPL buffer address
(44)	FULLWORD	4	TCTEAPBL	APPL buffer length
(48)	CHARACTER	8	TCTERENC	BIND password seed RCVD in bnd
(48)	FULLWORD	4	TCTEMAXL	User MAX data required
(4C)	FULLWORD	4	TCTEDATL	Length of data received
(50)	ADDRESS	4	TCTEFMHA	Address of FMH received
(54)	HALFWORD	2	TCTELLCT	LL required
(56)	BIT(8)	1	TCTECUSR	Conversation use flags
	1111 11..		*	Reserved
	.... ..1.		TCTECPIC	conversation is CPIC
	1		TCTENCPC	conversation is not CPIC
(57)	CHARACTER	1	*	Miscellaneous bits
	1...		TCTEIIR	Interested in responses
	.1..		TCTE_PRSS_ MATCHED	TCTTE matched to NIB
	..1.		TCTE_PRSS_ REJ_ATTACH	
				Reject attach flag

Table 648. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		TCTE_PRSS_ REM_SCHED	
				Remote schedule flag
	.... 1...		TCTENRI	Not Receive Immediate
	.... .1..		TCTE_FLOW_ FORGET	Forget flow required
	11		*	reserved
(58)	ADDRESS	4	TCTERCSA	RECEIVE SET address
(5C)	ADDRESS	4	TCTELHNP	-> TCTTE
(60)	CHARACTER	1	TCTESIL	SESSION INSTANCE length
(61)	CHARACTER	8	TCTESII	SESSION INST identifier
(69)	CHARACTER	3	TCTESECA	Reserved
(6C)	ADDRESS	4	*	Reserved
(70)	CHARACTER	8	TCTETPWA	BIND security work area
(78)	CHARACTER	1	TCTESONC	CLSDST SON code
(79)	CHARACTER	2	TCTESSNS	System sense code
(7B)	CHARACTER	2	TCTEUSNS	User sense code
(7D)	CHARACTER	1	TCTETLD	ETL Deferred Data Flag
	1...		TCTETLDD	ETL is deferring the data
	.111 1111		*	unused
(7E)	HALFWORD	2	TCTE_BID_SEQ	Persistent Sessions BB seqno. save area
(80)	CHARACTER	32	TCTEBLST	Buffer list
(A0)	CHARACTER	8	TCTEPENC	Primary encrypted seed
(A8)	FULLWORD	4	TCTEPCLK	Previous TOD clock bits for LU62 bind
(AC)	ADDRESS	4	TCTERPLB	Second RPL
(B0)	FULLWORD	4	TCTEMINL	Minimum ll to receive
(B4)	BIT(8)	1	TCTEVOP3	Operation in progress
	1...		TCTERIP	Receive in progress
(B5)	BIT(8)	1	TCTERPBS	LU62 RPL_B state machine
(B6)	BIT(8)	1	TCTE_BID_STATUS	Persistent Sessions status for LU62 recovery

Table 648. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B7)	BIT(8)	1	TCTE_RESP_STATUS	Persistent sessions status@R7C for response recovery
(B8)	CHARACTER	8	TCTESEED	BIND PASSWORD seed sent in bnd
(C0)	CHARACTER	8	TCTERSED	BIND PASSWORD seed RCVD in bnd
(C8)	ADDRESS	4	TCTERERA	LU62 RPL_in_error address
(CC)	ADDRESS	4	TCTERBLA	Logical LU62 recv buf addr
(D0)	UNSIGNED	4	TCTERBLL	Logical LU62 recv buf len
(D4)	ADDRESS	4	TCTECPCA	CPC address
(D8)	CHARACTER	4	TCTERSFR	RELAY SESSION failed reason code
(DC)	CHARACTER	8	TCTE_MY_ATT_SEQ	Local attach sequence num
(E4)	CHARACTER	8	TCTE_HIS_ATT_SEQ	Partner attach seq num
(EC)	CHARACTER	0	TCTTELCE	End of LUC extension

```
DESCRIPTIVE NAME  = TCTTE NIB Descriptor Extension
```

Table 649.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	116	TCTENIB	Start of NIB DESCRIPTOR
This area (from TCTE_NIBD_TRACE to TCTE_NIBD_TRACE_LEN) is traced in some ZC level 1 trace formats				
(0)	CHARACTER	20	TCTE_NIBD_TRACE	NIBD trace area
(0)	CHARACTER	3	*	ALIGN length field
(3)	UNSIGNED	1	TCTENLEX	Length of DESCRIPTOR
(4)	ADDRESS	4	TCTENPTR	Address of NIB
(8)	ADDRESS	4	TCTENUSA	User area
(C)	CHARACTER	8	TCTENNAM	Symbolic node name
TCTE_NIBD_TRACE_LEN End of NIBD trace area				
(14)	CHARACTER	8	TCTENLOG	LOGMODE
(1C)	UNSIGNED	1	*	Reserved
(1D)	UNSIGNED	1	TCTENIBN	NIB model INDEX number
(1E)	UNSIGNED	1	TCTENBDR	BIND routine type number
(1F)	UNSIGNED	1	TCTENDVP	Device address copied from NIB

Table 649. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	ADDRESS	4	TCTENBDS	A(SAVED BIND AREA)
(24)	FULLWORD	4	TCTENBDL	LENGTH OF THE BIND SESSION PARAMETERS SAVED BY SCIP
(28)	CHARACTER	4	TCTEKSS	Command sense codes
(28)	CHARACTER	1	TCTEKSS1	System sense 1
(29)	CHARACTER	1	TCTEKSS2	System sense 2
(2A)	CHARACTER	1	TCTEKUS1	User sense 1
(2B)	CHARACTER	1	TCTEKUS2	User sense 2
(2C)	CHARACTER	6	TCTESTNR	Number (STSN) indicators BUILD/RECEIVE area
(2C)	CHARACTER	1	TCTESTRI	FLOW
(2D)	CHARACTER	1	TCTESTAC	STSN actions
The values of the STSN response codes set in the TCTTE must equal the values for the corresponding codes in the VTAM RPL, since the TCTTE fields are set by copying the corresponding field from the RPL.				
(2D)	CHARACTER	1	TCTESTRP	STSN response byte storage *
(2E)	HALFWORD	2	TCTESTIB	Number
(30)	HALFWORD	2	TCTESTOP	Number
(32)	HALFWORD	2	TCTESQCI	COMPLEMENTARY version of MY INBOUND FLOW'S logical SEQ. number
(34)	HALFWORD	2	TCTESQCO	COMPLIMENTARY version of MY OUTBOUND FLOW'S logical SEQ. number
(36)	HALFWORD	2	TCTESQCM	Command sequence number
(38)	CHARACTER	8	TCTENRBD	ECHOED BYTES of BIND response invalid
(40)	BIT(8)	1	*	
	1...		TCTEPSES	And its value
	.1..		TCTENBLE	NEG BIND specified
	..1.		TCTENBLR	NEGOTIABLE response required
	...1		TCTETNNB	TRY not NEG BIND
	.... 1...		TCTE_ALIAS_IN_USE	VTAM Alias found

Table 649. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		TCTE_DIFF_ NETWORK	Alias from diff network
	.... ..1.		TCTE_POSS_ INVAL_ALIAS	
				May need deleting
(41)	BIT(8)	1	TCTEERPV	Error processing REASONCODE
(42)	CHARACTER	16	TCTESQP	Session QUALIFIER PAIR
(42)	CHARACTER	1	TCTESQPL	Length of SQP field
(43)	BIT(8)	1	*	SQP field ID - X'01'
	The format of the SESSION QUALIFIER PAIR IS: |L|PSQ|L|SSQ| where L is a one byte length The lengths of both TCTEPSQ and TCTESSQ are from 0 to 8, therefore the position of TCTTESSQL is calculated as the Address of TCTEPSQ + the CONTENTS of TCTEPSQL. When CICS is the PRIMARY SESSION then the LENGTH of the PSQ IS 4, when it is the SECONDARY SESSION then the LENGTH of the SSQ is 4 IE. The CICS SESSION NAME always has a LENGTH of 4 while the OTHER SESSION NAME will have a LENGTH of 0 to 8.			
(44)	CHARACTER	1	TCTEPSQS	Start of PSQ
(52)	BIT(8)	1	*	Length of PASSWORD (X'00')
(53)	BIT(8)	1	*	
	1...		TCTNNTMC	TMP action taken for TCNT
(54)	ADDRESS	4	TCTENNCH	-> Next in NETNAME chain
(58)	CHARACTER	8	TCTE_LOGON_ LOGMODE	LOGMODE name from VTAM LOGON exit.
(60)	CHARACTER	8	TCTE_NETID	NQN NETID if Alias pres.
(68)	CHARACTER	8	TCTE_REAL_ NETNAME	NQN NETNAME if Alias pres.
(70)	FULLWORD	4	TCTENIBE	End of NIB DESCRIPTOR

Table 650.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TCTEPSQR	PSQ record based on TCTEPSQS
(0)	BIT(8)	1	TCTEPSQL	Length of PSQ
(1)	CHARACTER	*	TCTEPSQ	PSQ (Max 8 chars)

Table 651.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TCTESSQR	SSQ record Based on TCTEPSQ + value of PSQL
(0)	BIT(8)	1	TCTESSQL	Length of SSQ
(1)	CHARACTER	*	TCTESSQ	SSQ (Max 8 chars)

```
DESCRIPTIVE NAME  = TCTTE Dummy Work Element
This DSECT describes a WORK ELEMENT which is GETMAINED in order
to hold information regarding unknown LOGONS.
Because the Error may occur many times before ZNAC can process
each WE, the WE'S are CHAINED together off the DUMMY TCTTE(VIA
field TCTTECIA).
Each element is used to hold a qualified name identifying the
unknown LU(NETNAME.2NDARY_SESSION_QUALIFIER), and other sundry
data items.
```

Table 652.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TCTEDMWE	Logon work element
(0)	ADDRESS	4	TCTEDMCH	Chain field to next WE
(4)	BIT(8)	1	TCTEDMER	Error type byte 1
	1...		TCTEDMCL	CLSDST failed - logon exit
	.1..		TCTEDMRA	Receive any error - ZRAC
	..1.		*	Reserved
	...1		TCTEDMLG	VTAM detected logic error
	.... 1...		TCTEDMSM	Issue storage message
	.... .1..		TCTEDMSL	Negative resp to BIND fail
	.... ..1.		TCTEVTMQ	VTAM Quiescing
	1		TCTEVTMP	VTAM Predatory takeover
(5)	BIT(8)	1	TCTEDME2	Error type byte 2
	1...		TCTEDMPD	TCTTE Delete pending
	.1..		TCTEDMAX	AUTOINSTALL max reached
	..1.		TCTEDMGF	O/S getmain failed
	...1		TCTEDMUL	Unknown LU LOGON
	.... 1...		TCTEDMAI	Autoinstall inactive
	.... .1..		TCTEDMIT	Invalid LOGON token
	.... ..1.		TCTEDMRY	Terminal recovery in prog

Table 652. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		*	Reserved
(6)	CHARACTER	17	TCTEDMQN	Qualified network name
(6)	CHARACTER	8	TCTEDMNN	NETNAME
(E)	CHARACTER	1	TCTEDMDT	'.' SEPARATOR
(F)	CHARACTER	8	TCTEDMSQ	2NDARY SESSION QUALIFIER
(17)	CHARACTER	4	TCTEDMID	Termid
(1B)	CHARACTER	1	TCTEDMMI	Module instance ID
(1C)	ADDRESS	4	TCTEDMBD	Address of saved BIND
(20)	FULLWORD	4	TCTEDMBL	Length of saved BIND
(24)	UNSIGNED	4	TCTEDMSN	Sense data
(24)	UNSIGNED	1	TCTEDMS1	System sense byte 1
(25)	UNSIGNED	1	TCTEDMS2	System sense byte 2
(26)	UNSIGNED	1	TCTEDMU1	User sense byte 1
(27)	UNSIGNED	1	TCTEDMU2	User sense byte 2
(28)	CHARACTER	8	TCTE_DUMMY_NETID	For DFHZC2411
(30)	CHARACTER	8	TCTE_DUMMY_ REAL_NETNAME	
				For DFHZC2411
(38)	FULLWORD	4	TCTE_DUMMY_ TNADDR_LENGTH	
				For DFHZC2411
(3C)	CHARACTER	*	TCTE_DUMMY_ TNADDR	For DFHZC2411 (256 max)

```
DESCRIPTIVE NAME  = Terminal Control Table Skeleton Entry
The TCT skeleton represents a terminal that is attached to
another CICS address space and may interact with this CICS
address space via the terminal sharing facility.
The two fields which form the key in the table management
index 'TCTN', identify the TCTSE by which this CICS will
access the terminal-owning address space and the name that
the terminal has in its own address space.
The skeleton also exists in the 'TCTE' table management index
The skeleton is used by the Transaction Routing (some times
called Terminal Shipping) component to hold definition infor-
mation between INSTALL, and task-attach. The skeleton contains
only the names unique to the entry, the other parameters are in
a "model" referenced by the skeleton.
Models are shareable between skeletons.
The skeleton resides on the 'application' system, there must be
a matching normal terminal entry on the 'terminal' system.
When a transaction is to be run, a 'surrogate' TCTTE is created
in task-attach and made visible to the transaction program
in the usual way.
```

```
A reference to the surrogate is placed in the skeleton while
one exists.
LIFETIME = Created by ZC INSTALL: destroyed by ZC DELETE.
          See DFHZCQ00.
```

Table 653.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	DFHTCTSK	
(0)	CHARACTER	4	TCTSKID	Terminal identifier (local).
(4)	CHARACTER	1	TCTSKTT	Fits under TCTTETT, and contains TCTTESKE.
(5)	CHARACTER	1	*	
	1...		TCTSKSIF	System Entry is inflight
	.1..		TCTSKAIP	Aids in progress
	..1.		TCTSKNDL	Don't delete me
	...1		TCTSKSHI	Definition shipped in
	.... 1...		TCTSKSAN	TCTSKSYS holds a name
	.... .1..		TCTSKINF	Skeleton is inflight
	.... ..1.		TCTSKPSH	Definition is shippable
	1		TCTSKSHO	Definition shipped out
(6)	CHARACTER	1	*	
	1...		TCTSKDDP	Delete started
	.1..		TCTSK_VIRTUAL_ TERMINAL	
				CICS Client skel
	..1.		TCTSK_VT_ BITMAP_USED	
				CICS assigned name
	...1		TCTSK_RT_ BITMAP_USED	
				CICS assigned RT name
	.... 1...		TCTSKNDF	TCTSKNET was defaulted
	.... .1..		TCTSK_VT_ SO_CAPABLE	
				signon support for this virtual terminal
	.... ..1.		TCTSKIPC	Used by IPIC connection
	1		*	Reserved
(7)	UNSIGNED	1	*	Reserved.

Table 653. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	ADDRESS	4	TCTSKSYS	Owning system's TCTSE. or name
(C)	CHARACTER	4	TCTSKHID	Terminal ID in own retion.
(10)	ADDRESS	4	TCTSKMDE	Address of model TCTTE
(14)	ADDRESS	4	TCTSKSRE	Address of surrogate TCTTE
(18)	CHARACTER	8	TCTSKNET	Netname of TOR
(20)	CHARACTER	8	TCTSK_TITOKEN	token for remote delete
(28)	CHARACTER	8	TCTSK_TASK_DETACH_TIME	
				timestamp
(30)	CHARACTER	8	TCTSK_TERMINAL_NETNAME	
				NETNAME of terminal
(38)	CHARACTER	8	TCTSK_TOR_GRNAME	GR name of TOR

```
DESCRIPTIVE NAME  = Terminal Control Table Transaction
                     Restart Extension
If a transaction is defined to be eligible for restart, copies
of the TCTUA and the first TIOA have to be kept in case the
transaction is restarted.
When a transaction is defined as restartable, a transaction
restart extension is getmained and hung off the TCTTE (TCTTERST)
Copies of the TCTUA and the initial TIOA are taken. The extension
consists of addresses of the copies, followed by the copied
data itself. If no TCTUA or TIOA exits the relevant address is
zero. If neither the TCTUA nor TIOA exits, no extension is
getmained.
LIFETIME = Created by DFHZSUP at transaction start, deleted by
            DFHZISP when a transaction ends and is not restarting.
Any change to this structure must be reflected in DFHTCTZE A
```

Table 654.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	DFHTCTRS	
(0)	CHARACTER	24	TCTRSFIX	Fixed part of extn
(0)	CHARACTER	8	TCTRSEYE	Eyecatcher
(8)	FULLWORD	4	TCTRSLEN	Length of restart data
(C)	ADDRESS	4	TCTRSTUA	Address of TCTUA copy
(10)	ADDRESS	4	TCTRSFMH	Address of FMH5 copy
(14)	ADDRESS	4	TCTRSTIO	Address of TIOA copy
(18)	CHARACTER	0	TCTRSCOP	Start of copy area

```
!=================================================================
!
! CCIN data which is hung from the TCTSE
! pointed to by TCSE_CCINDATA_PTR
!
!=================================================================
```

Table 655.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	68	TCSE_CCINDATA	
(0)	FULLWORD	4	TCSE_DATA_LENGTH	
(4)	CHARACTER	12	TCSE_HEADER_ BLOCK	
(4)	FULLWORD	4	TCSE_HEADER_ LENGTH	
(8)	UNSIGNED	1	TCSE_GROUP	
(9)	UNSIGNED	1	TCSE_FUNCTION	
(A)	UNSIGNED	1	TCSE_VERSION	
(B)	UNSIGNED	1	TCSE_RESPONSE	
(C)	UNSIGNED	2	TCSE_REASON	
(E)	UNSIGNED	2	TCSE_NUM_PARMS	
(10)	CHARACTER	13	TCSE_APPLID_PARM	
(10)	FULLWORD	4	TCSE_APPLID_ LENGTH	
(14)	UNSIGNED	1	TCSE_APPLID_ PARM_TYPE	
(15)	CHARACTER	8	TCSE_APPLID	
(1D)	CHARACTER	3	*	
(20)	CHARACTER	15	TCSE_CODEPAGE_ PARM	
(20)	FULLWORD	4	TCSE_CODEPAGE_ LENGTH	
(24)	UNSIGNED	1	TCSE_CODEPAGE_ PARM_TYPE	
(25)	CHARACTER	10	TCSE_CODEPAGE	
(2F)	CHARACTER	1	*	
(30)	CHARACTER	8	TCSE_CAPABILITIES_ PARM	
(30)	FULLWORD	4	TCSE_CAPABILITIES_ LENGTH	
(34)	UNSIGNED	1	TCSE_CAPABILITIES_ PARM_TYPE	
(35)	BIT(8)	1	TCSE_ENVIRON	
	1111 11..		*	
	.... ..1.		TCSE_EBCDIC	
	1		TCSE_BIGENDIAN	

Table 655. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(36)	BIT(16)	2	TCSE_CLIENT_ CAPABILITIES	
(36)	BIT(8)	1	*	
	1...		TCSE_EXIT_ PROCESSING	
	.1..		TCSE_TRANSLATE_ CAPABLE	
	..1.		TCSE_DELETE_ ENTRIES	
	...1		TCSE_TCTUA_ COMMAREA	
	 1111		*	
(37)	BIT(8)	1	*	
(38)	CHARACTER	10	TCSE_SECURITY_ PARM	
(38)	FULLWORD	4	TCSE_SECURITY_ LENGTH	
(3C)	UNSIGNED	1	TCSE_SECURITY_ PARM_TYPE	
(3D)	UNSIGNED	1	TCSE_ECIATTACH_ USERID	
(3E)	UNSIGNED	1	TCSE_ECIATTACH_ PASSWORD	
(3F)	UNSIGNED	1	TCSE_EPIATTACH_ USERID	
(40)	UNSIGNED	1	TCSE_EPIATTACH_ PASSWORD	
(41)	UNSIGNED	1	TCSE_CTINATTACH_ REQS	
(42)	HALFWORD	2	TCSE_CTIN_ INSTALL_COUNT	

```
!===================================================================
!
! CTIN data which is hung from the virtual terminal surrogate TCTTE
! pointed to by TCTE_ CTINDATA_PTR.
!
!===================================================================
```

Table 656.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	19	TCTE_CTINDATA	
(0)	CHARACTER	8	TCTE_CODEPAGE_ TOKEN	
(8)	CHARACTER	10	TCTE_CODEPAGE	
(12)	BIT(8)	1	TCTE_VT_ INDICATOR	

Table 656. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		TCTE_VT_ UNINSTALL	VT being uninstalled
	.111 1111		*	reserved

Constants

Table 657.

Len	Type	value	Name	Description
	TERMINAL TYPE CODES TCTTETT FIELD			
1	HEX	01	TCTTET77	7770
1	HEX	02	TCTTES7	System 7
1	HEX	08	TCTTECON	Console
1	HEX	12	TCTTETSD	SEQUENTIAL DISK
1	HEX	14	TCTTETMT	MAGNETIC TAPE
1	HEX	18	TCTTETCR	CARD READER/LINE printer
1	HEX	19	TCTTETSY	SPOOLING system printer
1	HEX	1A	TCTTETIN	SPOOLING INTERNAL READER
1	HEX	20	TCTTETHC	HARD COPY TERMINALS
1	HEX	21	TCTTETWX	Model 33/35 TWX
1	HEX	22	TCTTETLX	TELETYPEWRITER
1	HEX	24	TCTTET50	1050
1	HEX	28	TCTTET40	2740
1	HEX	2A	TCTTET4C	2741 CORRESPONDENCE
1	HEX	2B	TCTTET4E	2741 EBCDIC
1	HEX	40	TCTTETVO	VIDEO TERMINALS
1	HEX	41	TCTTET6L	2260 local
1	HEX	48	TCTTET6R	2260 remote
1	HEX	4A	TCTTET53	1053
1	HEX	4C	TCTTET65	2265
1	HEX	50	TCTTETAM	TCAM
1	HEX	80	TCTTETBI	BI-SYNCHRONOUS
1	HEX	82	TCTTET70	2770
1	HEX	84	TCTTET80	2780
1	HEX	85	TCTTE378	3780
1	HEX	86	TCTTE298	2980
1	HEX	88	TCTTET35	3735

Table 657. (continued)

Len	Type	value	Name	Description
1	HEX	89	TCTTET74	3740
1	HEX	8A	TCTTET36	3600 BISYNCH
1	HEX	91	TCTTET37	3277 remote BTAM and REMOTE/LOCAL VTAM
1	HEX	92	TCTTET75	3275 remote
1	HEX	93	TCTTET84	BTAM 3284 remote AND VTAM 3270P all
1	HEX	94	TCTTET86	BTAM 3286 remote
1	HEX	99	TCTTETL7	3277 local BTAM
1	HEX	9B	TCTTETL4	BTAM 3284 local
1	HEX	9C	TCTTETL6	BTAM 3286 local
1	HEX	A0	TCTTETPD	BISYNCH - PROGRAMMABLE
1	HEX	A1	TCTTES3	System/3
1	HEX	A4	TCTTE370	System/370
1	HEX	A6	TCTTES7B	System/7 with BSCA
1	HEX	A6	TCTTEPUB	PROGRAMMABLE device
1	HEX	A5	TCTTE113	Reserved-PROGRAMMABLE DEVICE
1	HEX	B0	TCTESDLC	SDLC device class
1	HEX	B1	TCTE3601	3601
1	HEX	B2	TCTE3614	3614
1	HEX	B4	TCTE3790	3790
1	HEX	B5	TCTE90UP	3790 USERPROGRAM
1	HEX	B6	TCTE90PR	3790 SCS printer
1	HEX	B8	TCTE50PL	3650 PIPELINE
1	HEX	B9	TCTE53HC	3653 HOST CONVERSATIONAL
1	HEX	BA	TCTE70HC	3650 ATTACHED 3270 H.C.
1	HEX	BB	TCTE50UP	3650 USERPROGRAM
1	HEX	BD	TCTETCLU	CONTENTION logical unit
1	HEX	BE	TCTETILU	INTERACTIVE logical unit
1	HEX	BF	TCTETBLU	Batch logical unit
1	HEX	C0	TCTELU6	LUTYPE 6

Table 657. (continued)

Len	Type	value	Name	Description
1	HEX	C1	TCTELU4	LUTYPE 4
1	HEX	D0	TCTTEISL	System entry
1	HEX	D1	TCTTEISC	MRO Conversation
1	HEX	D2	TCTTEMGP	LUC mode group entry
1	HEX	D3	TCTTELUS	LUC session
1	HEX	DF	TCTT3750	1750/3750 switching system
1	HEX	E2	TCTTESKE	Skeleton entry
1	HEX	E3	TCTTECWE	Evanescent console
1	HEX	E4	TCTTEAWE	Evanescent terms *
	ACCESS METHOD FLAGS			
1	HEX	00	TCTELCL	local TERMINATOR-TCSE only
1	HEX	80	TCTEVTAM	Access Method - VTAM
1	HEX	40	TCTEBTAM	Access Method - BTAM
1	HEX	20	TCTEBSAM	Access Method - BSAM
1	HEX	10	TCTETCAM	Access Method - TCAM
1	HEX	08	TCTEGAM	Access Method - GAM
1	HEX	02	TCTEISMM	Access Method - ISMM
1	HEX	01	TCTETMSN	Access Method - TCAM SNA (bit testing only
1	HEX	11	TCTETCSN	Access Method - TCAM SNA (byte tesing only
	VTAM BUILD AREA CONSTANTS			
1	HEX	10	TCTENMA	No MSG avail and no LDC *
1	HEX	20	TCTEALM	ALARM
1	HEX	40	TCTEFOD	Formatted data
1	HEX	80	TCTESYM	System message generic MSK *
1	HEX	90	TCTEABI	Abnormal initiation
1	HEX	A0	TCTEABT	Abnormal termination
1	HEX	C0	TCTEIFM	Information message

Table 657. (continued)

Len	Type	value	Name	Description
1	HEX	D0	TCTERPM	Retry PROTOCOL MSG
1	HEX	04	TCTE_TPADDR_IPV4	IPv4
1	HEX	06	TCTE_TPADDR_IPV6	IPv6
!:erefstep.CR_PEND_RECOVERY_STATUS -----------------------------------				
1	DECIMAL	0	CR_PEND_RECOVERY_ IGNORE	
1	DECIMAL	1	CR_PEND_RECOVERY_ NECESSARY	
1	DECIMAL	2	CR_PEND_RECOVERY_ UNNECESSARY	
0	BIT	00	CR_UOW_COLD	
0	BIT	01	CR_UOW_COMMITTED	
0	BIT	10	CR_UOW_BACKED_OUT	
0	BIT	11	CR_UOW_INDOUBT	
0	BIT	11	CR_UOW_DISPOSITION_ MASK	
0	BIT	0	PRESUMED_ABORT	
0	BIT	1	PRESUMED_NOTHING	
0	BIT	00	CR_RESYNC_UNKNOWN	we cold started
0	BIT	01	CR_RESYNC_OLD	partner pre-5.1
0	BIT	10	CR_RESYNC_NEW	partner 5.1+
0	BIT	11	CR_RESYNC_MASK	field mask
0	BIT	000	CR_1ST_LEG	
0	BIT	001	CR_2ND_LEG	
0	BIT	010	CR_3RD_LEG	
0	BIT	0	UNRELIABLE	
0	BIT	1	RELIABLE	
?DFHZCHM TYPE(DECLARE) Values of TCTECHSS				
1	DECIMAL	1	TCTE_BETWEEN_ CHAINS_SEND	
1	DECIMAL	2	TCTE_IN_CHAIN_SEND	
1	DECIMAL	3	TCTE_AWAITING_ RESPONSE_SEND	
1	DECIMAL	4	TCTE_PENDING_ RESPONSE_SEND	
1	DECIMAL	5	TCTE_NEGATIVE_ RESPONSE_RECEIVED	
1	DECIMAL	6	TCTE_BETWEEN_ CHAINS_RECEIVE	
1	DECIMAL	7	TCTE_IN_CHAIN_ RECEIVE	

Table 657. *(continued)*

Len	Type	value	Name	Description
1	DECIMAL	8	TCTE_PENDING_ RESPONSE_RECEIVE	
1	DECIMAL	9	TCTE_AWAITING_ RESPONSE_RECEIVE	
1	DECIMAL	10	TCTE_NEGATIVE_ RESPONSE_SEND	
	?DFHZBSM TYPE(DECLARE) Values of TCTEBKTS			
1	DECIMAL	1	TCTE_BETWEEN_ BRACKETS	
1	DECIMAL	2	TCTE_IN_BRACKET	
1	DECIMAL	3	TCTE_IN_BRACKET_ TERM_SEND	
1	DECIMAL	4	TCTE_IN_BRACKET_ TERM_RECEIVE	
	?DFHZCNM TYPE(DECLARE) Values of TCTECNTS			
1	DECIMAL	1	TCTE_NOT_BOUND	
1	DECIMAL	2	TCTE_NOT_ BOUND_CON_WIN	
1	DECIMAL	3	TCTE_NOT_ BOUND_CON_LOSE	
1	DECIMAL	4	TCTE_BOUND_CON_WIN	
1	DECIMAL	5	TCTE_BOUND_ CON_WIN_ALLOCATED	
1	DECIMAL	6	TCTE_BOUND_ CON_WIN_RTR_SENT	
1	DECIMAL	7	TCTE_BOUND_ CON_WIN_RTR_PEND	
1	DECIMAL	8	TCTE_BOUND_CON_LOSE	
1	DECIMAL	9	TCTE_BOUND_ CON_LOSE_ALLOCATED	
1	DECIMAL	10	TCTE_BOUND_ CON_LOSE_BIDDING	
1	DECIMAL	11	TCTE_BOUND_ CON_LOSE_BB_CROSSING	
1	DECIMAL	12	TCTE_BOUND_ CON_LOSE_RTR_PEND	
1	DECIMAL	13	TCTE_BOUND_ CON_LOSE_REBID_ PEND	
1	DECIMAL	14	TCTE_BOUND_ CON_LOSE_AWAITING_ ACTIVITY	
1	DECIMAL	15	TCTE_BOUND_ CON_WIN_BID_ACCEPTED	
	?DFHZCRM TYPE(DECLARE) Values of TCTERPBS			
1	DECIMAL	1	TCTE_INACTIVE	

Table 657. (continued)

Len	Type	value	Name	Description
1	DECIMAL	2	TCTE_INCOMP_REC_WAIT	
1	DECIMAL	3	TCTE_COMP_REC_WAIT	
1	DECIMAL	4	TCTE_INCOMP_REC_IMM	
1	DECIMAL	5	TCTE_COMP_REC_IMM	
1	DECIMAL	6	TCTE_PROCESSED	
1	DECIMAL	7	TCTE_READ_AHEAD	
1	DECIMAL	8	TCTE_RESETSR	
	?DFHZUSRM TYPE(DECLARE) Values of TCTEUSRS			
1	DECIMAL	1	TCTE_NOT_ALLOCATED	
1	DECIMAL	2	TCTE_ALLOCATE_IN_PROGRESS	
1	DECIMAL	3	TCTE_ALLOCATED_SEND	
1	DECIMAL	4	TCTE_ALLOCATED_RECEIVE_PENDING	
1	DECIMAL	5	TCTE_ALLOCATED_RECEIVE	
1	DECIMAL	6	TCTE_FREE_PENDING_SEND	
1	DECIMAL	7	TCTE_FREE_REQUIRED	
1	DECIMAL	8	TCTE_IN_SYNCPT_SENDER_ONE_PHASE	
1	DECIMAL	9	TCTE_IN_SYNCPT_RCVER_ONE_PHASE	
1	DECIMAL	10	TCTE_IN_SYNCPT_SENDER_TWO_PHASE	
1	DECIMAL	11	TCTE_IN_SYNCPT_RCVER_TWO_PHASE	
1	DECIMAL	12	TCTE_IN_SYNCPT_BACKOUT_SENDER	
1	DECIMAL	13	TCTE_IN_SYNCPT_BACKOUT_RECEIVER	
1	DECIMAL	14	TCTE_ALLOCATED_CONFIRM_SENDER	
1	DECIMAL	15	TCTE_ALLOCATED_CONFIRM_RECEIVER	
	Persistent Sessions State Constants for TCTE_PRSS			
1	HEX	00	TCTE_NO_PRSS_RECOVERY	
1	HEX	01	TCTE_NIB_MATCHED	
1	HEX	02	TCTE_OPNDST_RESTORE_COMPLETED	
1	HEX	20	TCTE_ZXRC_CLEANUP	

Table 657. (continued)

Len	Type	value	Name	Description
1	HEX	21	TCTE_ZXRC_ ISSUE_RECOVERY_ MSG	
1	HEX	30	TCTE_ZXPS_CLEANUP	
1	HEX	31	TCTE_ZXPS_ DEALLOCATE_ABEND	
1	HEX	32	TCTE_ZXPS_ SEND_IN_PROGRESS	
1	HEX	33	TCTE_ZXPS_ ISSUE_RECOVERY_ MSG	
1	HEX	34	TCTE_ZXPS_ RECEIVE_IN_PROGRESS	
1	HEX	41	TCTE_ZGDA_ FMH7_SEND	
1	HEX	42	TCTE_ZGDA_ FMH7_COMP	
1	HEX	43	TCTE_ZGDA_FMH7_REC	
1	HEX	44	TCTE_ZGDA_ FMH7_REC_EOC	
1	HEX	45	TCTE_ZGDA_RESP	
1	HEX	FF	TCTE_PRSS_ CLSDST_SCHEDULED	
1	HEX	FF	TCTE_CLSDST_ SCHEDULED	
Used in 3735 Mode Control byte TCTTEMCI				
1	HEX	00	TCTTEMC0	Initialization image
Used in 3740 Mode Control byte TCTTENCI				
1	HEX	00	TCTTENC0	Initialization image
Used in IRC bracket status byte TCTESBRS				
1	HEX	00	TCTESOB	OUT OF BRACKET
1	HEX	80	TCTESIB	IN BRACKET
1	HEX	40	TCTESBBR	BEGIN BRACKET received
1	HEX	10	TCTESBBS	BEGIN BRACKET sent
1	HEX	08	TCTESEBS	END BRACKET sent
1	HEX	04	TCTESEBR	END BRACKET received
SYSTEM TABLE ENTRY DEFINITIONS				
Used in TCSETYPE				
1	CHARACTER	S	TCSETSYS	Full system entry
1	CHARACTER	L	TCSETLOC	Local region, no links
1	CHARACTER	I	TCSETIND	INDIRECT System Entry

Table 657. (continued)

Len	Type	value	Name	Description
Used in TCSEDSP (DATA-STREAM)				
1	HEX	40	TCSEDSLM	LMS
1	HEX	30	TCSEDSST	Structured field
1	HEX	20	TCSEDS32	3270
1	HEX	10	TCSEDSSC	SCS
1	HEX	00	TCSEDSUS	User
Used in TCSEDBA (DE-blocking algorithm)				
1	HEX	04	TCSEDBUS	User defined
1	HEX	01	TCSEDBVB	Variable length blocked
VTAM INTERNAL REQUESTS for ZSDS ROUTINE Used in TCTERCMO :-				
1	HEX	40	TCTERCSM	CONTINUE SPECIFIC mode
1	HEX	C0	TCTERCA	CONTINUE ANY mode
Used in TCTERMOD :-				
1	HEX	00	TCTERSYN	Reset RTYPE DFSYN
1	HEX	01	TCTERRSP	Reset RTYPE RESP
1	HEX	03	TCTERASY	Reset RTYPE DFASY
LUC Constants TCTE_BID_STATUS constants used in DFHZXPS :-				
1	HEX	01	TCTE_SEND_POSITIVE_RESPONSE	
1	HEX	02	TCTE_SEND_NEGATIVE_RESPONSE	
1	HEX	03	TCTE_SEND_RTR	
1	HEX	04	TCTE_SENT_RTR	
1	HEX	05	TCTE_SEND_LUSTAT_EB	
1	HEX	06	TCTE_AWAITING_BB_RESPONSE	
1	HEX	07	TCTE_SENT_POSITIVE_RESPONSE	
1	HEX	08	TCTE_0814_RECEIVED	
1	HEX	09	TCTE_0813_RECEIVED	
1	HEX	0A	TCTE_SEND_RECOVERY_MESSAGE	
1	HEX	0D	TCTE_SEND_LUSTAT_BB_EB	
TCTE_RESP_STATUS constants used in DFHZXPS				
1	HEX	01	TCTE_DR1_OUTSTANDING	

Table 657. (continued)

Len	Type	value	Name	Description
1	HEX	02	TCTE_DR1_EXPECTED	
	NIB Descriptor Constants Used in TCTESTAC :-			
1	HEX	00	TCTEACIG	STSN ACTION - IGNORE
1	HEX	01	TCTEACSE	STSN ACTION - SET
1	HEX	02	TCTEACIV	STSN ACTION - INVALID
1	HEX	03	TCTEACST	STSN ACTION - STSN
1	DECIMAL	0	TCTESPL0	--- NONE
1	DECIMAL	1	TCTESPL1	--- COMMIT
1	DECIMAL	2	TCTESPL2	--- all
1	HEX	00	TCTEUNMP	"UNMAPPED"
1	HEX	FF	TCTECV0	CONV. type not set
	Used in TCTESTRP :-			
1	HEX	20	TCTERPRR	STSN response - RESET *
1	HEX	08	TCTERPTP	STSN response +ve RPLOPOS *
1	HEX	04	TCTERPTN	STSN response -ve RPLONEG *
1	HEX	02	TCTERPIV	STSN response inv RPLOINV *
	Length of a Skeleton Entry			
4	DECIMAL	64	TCTSKDSP	
	Length of a fixed part of restart extension			
4	DECIMAL	24	TCTRSFLN	

TCTWA TCT transaction work area

```
MODULE NAME = DFHTCTWA
DESCRIPTIVE NAME  = CICS TCT Transaction Work Area
  @BANNER_START 02
                    DFHTCTWA
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = This DSECT defines the Transaction Work Area for the
           Terminal Control Transaction itself. This transaction
           responds to requests for terminal services.
```

Table 658.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTCTWA	TWA address is in TCATWAAD

Table 658. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	DBL WORD	8	TCTWA (0)	Start of TC TWA
(0)	ADDRESS	4	TCSPTA	Read terminal entry address
(4)	CHARACTER	1	TCPIND	Polling indicator
(5)	CHARACTER	3	TCERRSA	Terminal error code save area
(8)	ADDRESS	4	TCTXTPA	Terminal pool address
(C)	BITSTRING	1	TCTXLPAF (0)	Line in pool avail flag byte
(C)	BITSTRING	0	TCTXLPAV	"X'80'" Line in pool avail (3170L)
(C)	ADDRESS	4	TCTXLPA	1st line in pool pointer save
(10)	ADDRESS	4	TCTRNTA	Translate table address
(14)	ADDRESS	4	TCL3PTSV	Local 3270 poll terminal save
(18)	ADDRESS	4	TCTSPRA	Specific poll return address
(1C)	ADDRESS	4	TCTWLA	Active wait list address
(20)	BITSTRING	1	TWASDCF	Single drop control flag
(21)	BITSTRING	1	(3)	Reserved
(24)	FULLWORD	4	TWATDRSV	TCP dispatcher return save
(28)	FULLWORD	4	TWACTIOE	2260 TIOA end save area
(2C)	FULLWORD	4	TWACFWD1	Full word work area
(30)	FULLWORD	4	TWACFWD2	Full word work area
(34)	FULLWORD	4	TWACFWD3	Full word work area
(38)	FULLWORD	4	TWACFWD4	Full word work area
(3C)	BITSTRING	1	TWATEPF	Timer completion
(3C)	BITSTRING	0	TWATEPI	"X'40'" Timer posted flag
(3C)	BITSTRING	0	TWALSEI	"X'20'" Local line scan indicator
(3D)	BITSTRING	1	TWACFLAG	Compatibility control flags
(3D)	BITSTRING	0	TWACDSCI	"X'01'" DAT scan complete indicator
(3D)	BITSTRING	0	TWACWSI	"X'02'" Wrapped screen indicator
(3D)	BITSTRING	0	TWACSLI	"X'04'" Shortline indicator

Table 658. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3D)	BITSTRING	0	TWACSSFI	"X'08'" SMI character found indicator
(3D)	BITSTRING	0	TWACWSIT	"X'10'" Wrap screen pseudo ind tab
(3E)	HALFWORD	2	TWAC2260	Number of chars/line for 2260
(40)	HALFWORD	2	TWAC3270	Number of chars/line for 3270
(42)	HALFWORD	2	TWAFDLBA	First display LN begin address
(44)	HALFWORD	2	TWALDLBA	Last display line begin address
(46)	HALFWORD	2	TWAIBDL	Increment between display lines
(48)	HALFWORD	2	TWACNBEO	Number if bytes for erase
(48)		0	TWACAL	"*-TWAC2260" Compatible area length
(4A)	HALFWORD	2	TWACBAP	Current buffer address position
(4C)	HALFWORD	2	TWACLSA	Current line start address
(4E)	CHARACTER	256	TCTTT	Input data length T & T table
(50)	DBL WORD	8	RCLOCK	Time of day clock
(58)	FULLWORD	4	OCLOCK	Word to save internal clock
(5C)	FULLWORD	4	MSGNTNM (0)	
(5C)	ADDRESS	1		
(5D)	ADDRESS	1		GENERATE LENGTH
(5E)	BITSTRING	1		OPTION BYTE
(5F)	BITSTRING	1		RESERVED
(60)	CHARACTER	10		
(6A)	CHARACTER	8	NETNAME2	
(72)	CHARACTER	3		
(75)	CHARACTER	35	JOBNAME2	
(75)		0	MSGE0001	"*"
(75)		0	MSGNTNME	"*"
--				
(150)	FULLWORD	4	TWAXRPL (0)	
(150)	BITSTRING	1		V*1 request byte
(151)	BITSTRING	1		V*2 request byte modifier

Table 658. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(152)	BITSTRING	1		V*3 MVS System indicator
(153)	BITSTRING	1		V*4 response byte
(154)	BITSTRING	1		V*5 XRF
(155)	BITSTRING	1		V*6 TAKEOVR
(156)	CHARACTER	1		V*7 SURVEILLANCE
(157)	CHARACTER	1		V*8 signon status
(158)	CHARACTER	8	(0)	generic applid
(158)	CHARACTER	8	(0)	'time' xx ECB posted
(158)	CHARACTER	8	(0)	program name
(158)	CHARACTER	4		- domain id
(15C)	CHARACTER	4		- reserved
(160)	CHARACTER	8	(0)	specific applid
(160)	CHARACTER	4		- error id
(164)	FULLWORD	4		- global data address
(168)	FULLWORD	4	(0)	ADI
(168)	CHARACTER	4		- MVS id.
(16C)	FULLWORD	4	(0)	JESDI
(16C)	CHARACTER	4		- JES subsystem id.
(170)	FULLWORD	4	(0)	PDI
(170)	FULLWORD	4		Lower clock difference
(174)	FULLWORD	4		Upper clock difference
(178)	CHARACTER	8		XCF Sysplex name
(180)	CHARACTER	8		MVS System name
(188)	CHARACTER	4		MVS instance token
(188)		0	TCTWALEN	"*-TCTWA" TCP'S TWA Length
(0)	FULLWORD	4	TCRAFDA	First data record address
(0)	BITSTRING	0	TCRAAREC	"X'02'" Re-entered ind. constant

TCX TCA extension for LU6.2

```
CONTROL BLOCK NAME = DFHTCXDS
DESCRIPTIVE NAME  = CICS TCA Extension For LU6.2
FUNCTION =
This DSECT defines the Process Initialization Parameters (PIP)
and Transaction Program Name (TPN) used by EXEC CICS
CONNECT PROCESS and EXTRACT PROCESS for passing additional data
on LU6.2 attaches.
```

Table 659.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTCXDS	,
(0)	FULLWORD	4		STGE ACNTG CONTROL DATA
(4)	ADDRESS	4		STGE ACNTG CHAIN ADDRESS
(8)	HALFWORD	2	TCAXPIPL	PIP LENGTH
(A)	CHARACTER	1	TCAXTPNL	TPN LENGTH
(B)	CHARACTER	64	TCAXTPN (0)	TPN
(0)	FULLWORD	4	TCAXPIP (0)	PIP DATA
(0)	CHARACTER	8	TCAXMODN (0)	MODENAME
(0)		0	TCAXGETL	"TCAXTPN-TCAXPIPL" PREFIX LENGTH FOR GETMAIN

TDCI Transient data control intervals

```
MODULE NAME = DFHTDCI
DESCRIPTIVE NAME  = Transient Data Control Intervals
                   CICS/ESA AP Domain
@BANNER_START 02
                    DFHTDCI
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
FUNCTION =
    Copybook DFHTDCI provides dsect DFHTDCI which
    describes
        1. the TD control record for Control Interval 0
        2. the queue control record for Control Interval
           m where m > 0
        3. the record definition field; i.e. the VSAM
           RDF
        4. the control interval definition field; i.e.
           the VSAM CIDF
    Each control interval on the intrapartition data
    set is managed according to VSAM rules; i.e. the
    format is
        1. n records where n >= 1; the first record is
           either the TD control record or a queue con-
           trol record
        2. free space
        3. n record definition fields
        4. the control interval definition field
LIFETIME =
    The lifetime of the control blocks is essentially
    that of the intrapartition data set.
STORAGE CLASS =
    Not applicable.
LOCATION =
    Not applicable.
INNER CONTROL BLOCKS =
    There are no inner control blocks.
NOTES :
 DEPENDENCIES =
    S/370
```

```
        RESTRICTIONS =
             There are no restrictions.
        MODULE TYPE =
             Control block definition.
```

Table 660.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTDCI	TD-VSAM CONTROL INT'VAL MAP
	....		TDFSTCI	"*" MAP OF FIRST CI OF DATA SET
(0)	CHARACTER	10	TDID	ID TO BE CHECKED WHEN RESTARTING.
(A)	HALFWORD	2	TDNUMCI	NUMBER OF CIS USED TO SIZE CI BIT MAP.
(C)		4	TDDATED	DATE INFO FROM CSAJYDP
(10)	FULLWORD	4	TDRESRV (3)	RESERVED
	....		TDCHREC	"*"
(0)	CHARACTER	4	TDCHDI	CHAIN RECORD DESTID
(4)	FULLWORD	4	TDCHFC	CHAIN RECORD FORWARD CHAIN
(8)	CHARACTER	8	TDCHCLK	CHAIN RECORD CONTROL INTERVAL GENERATION ID
(8)		0	TDCHL	"*-TDCHREC" CHAIN RECORD LENGTH
DATA RECORDS AND FREE SPACE . . .				
(10)	CHARACTER	3	TDRDF (0)	RECORD DEFINITION FIELD
(10)	BITSTRING	1	TDCF	CONTROL FIELD (FLAG BYTE)
FLAG BYTE VALUES:				
	....		TDRSINGL	"X'00'" RDF GIVES LENGTH OF SINGLE RECORD.
(11)	CHARACTER	2	TDLENREC	LENGTH OF RECORD
(11)		0	TDRDFLN	"*-TDRDF" LENGTH OF RDF
(13)	CHARACTER	4	TDCIDF (0)	CI DEFINITION FIELD

Table 660. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(13)	CHARACTER	2	TDOUS	OFFSET OF UNUSED SPACE
(15)	CHARACTER	2	TDLUS	LENGTH OF UNUSED SPACE (L'CI-L'(CIDF+RDFS)-TDOUS))
(15)		0	TDCIDFLN	"*-TDCIDF" LENGTH OF CIDF
(15)		0	TDCIEND	"*" END OF CI

DUGS Dump domain global ststistics

```
CONTROL BLOCK NAME = DFHTDGDS
DESCRIPTIVE NAME  = CICS Dump Domain Global Statistics
                    (Transaction dumps)
  @BANNER_START 02

                      DFHTDGDS
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = A record containing Dump Domain Global Statistics
        This DSECT describes the global tranaction dump statistics
        produced by the Dump Domain. A single instance of the
        data is produced by the Dump Domain.
        Additional copies may be created by the statistics domain,
        statistics utility programs or user programs.
        The data consists of a header plus a block of statistics
        for the Dump domain.
LIFETIME = Created when the Dump Domain is initialised and
           exists for the lifetime of the domain manager.
STORAGE CLASS = varies
LOCATION = User is passed a pointer to the storage
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 -------------------------------------------------------------------
 EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = In Dump Domain
    GLOBAL VARIABLES (Macro pass) = None
 -------------------------------------------------------------------
```

Table 661.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTDGDS	Transaction Dump Global Stats
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	TDGLEN	Length of data area
(0)	SIGNED	0	TDGIDE	"87" Global system dump stats id mask

Offset Hex	Type	Len	Name (dim)	Description
(2)	ADDRESS	2	TDGID	Dump Domain global stats id
(2)	BITSTRING	0	TDGVERS	"X'01'" Stats version number mask
(4)	CHARACTER	1	TDGDVERS	Dump domain global stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	TRANS_DUMP_TAKEN	No. of transaction dumps taken
(C)	FULLWORD	4	TRANS_DUMP_SUPP	No. of transaction dumps supprsd
(C)		0	TDGEND	"*"
(C)		0	TDGCLEN	"*-DFHTDGDS" Length of DSECT

TDIA Transient data input area

```
           MODULE NAME = DFHTDIPS
           DESCRIPTIVE NAME  = Transient Data Input Area
                             CICS/ESA AP Domain
           @BANNER_START 02
                             DFHTDIPS
           Licensed Materials - Property of IBM
           "Restricted Materials of IBM"
           5655-S97
           @BANNER_END
           FUNCTION =
               Copybook DFHTDIPS provides structure DFHTDIA.
               DFHTDIA describes the format of Transient Data
               Input Areas (TDIAs) as used by CICS, each TDIA
               consists of a header, the description of which
               follows, and application defined data.
           LIFETIME =
               TDIAs are allocated to hold data passed from
               Transient Data for
                 EXEC CICS READQ TD QUEUE(...) SET(...)
               TDIAs (if allocated) are freed, at latest, at
               task termination.
               No more than one TDIA is allocated to a task.
           STORAGE CLASS =
               TDIAs are allocated from either the USER24 or the
               USER31 task subpool.
           LOCATION =
               The TDIA is addressed from TCAIDAA in the TCA.
           INNER CONTROL BLOCKS =
               There are no inner control blocks.
           NOTES :
            DEPENDENCIES =
               S/370
            RESTRICTIONS =
               There are no restrictions.
            MODULE TYPE =
               Control block definition.
```

Table 662.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHTDIA	Transient Data Input Area
(0)	CHARACTER	16	TDIA_PREFIX	- prefix
(0)	HALFWORD	2	TDIA_LENGTH	- length
(2)	CHARACTER	1	TDIA_ARROW	- value - '>'
(3)	CHARACTER	3	TDIA_DFH	- value - 'DFH'
(6)	CHARACTER	2	TDIA_DOMID	- value - 'TD'
(8)	CHARACTER	8	TDIA_BLOCK	- value - 'TDIA '
(10)	CHARACTER	*	TDIA_DATA	- application data

TDOA Transient data output area

```
MODULE NAME = DFHTDOPS
DESCRIPTIVE NAME  = CICS/MVS AP Domain
                     Transient Data Output Area
@BANNER_START 02
                    DFHTDOPS
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
FUNCTION =
    Copybook DFHTDOPS provides structure DFHTDOA.
    DFHTDOA describes the format of Transient Data
    Output Areas (TDOAs) as used by CICS. Each TDOA
    consists of a header, the description of which
    follows, and application defined data.
LIFETIME =
    TDOAs may be allocated to hold data passed to
    Transient Data for
        DFHTD TYPE=PUT,DESTID=...
    however this is not essential.
    TDOAs (if allocated) are freed, at latest, at
    task termination.
STORAGE CLASS =
    TDOAs are allocated from CLASS=TRANSDATA storage,
    i.e. from task local AMODE(24) storage.
LOCATION =
    Application defined.
INNER CONTROL BLOCKS =
    There are no inner control blocks.
NOTES :
 DEPENDENCIES =
     S/370
 RESTRICTIONS =
    There are no restrictions.
 MODULE TYPE =
    Control block definition.
```

Table 663.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHTDOA	Transient Data Output Area
(0)	CHARACTER	8	TDOAPFX1	- storage accounting prefix

Offset Hex	Type	Len	Name (dim)	Description
(0)	BIT(8)	1	TDOASCI	- class
(1)	BIT(8)	1	TDOASFI	- format
(2)	HALFWORD	2	TDOASAL	- length
(4)	ADDRESS	4	TDOASCA	- chain
(8)	CHARACTER	4	TDOAPFX2	- variable record prefix
(8)	HALFWORD	2	TDOAVRL	- LL
(A)	HALFWORD	2	TDOAVBB	- BB
(C)	CHARACTER	*	TDOADBA	- data, length in TDOAVRL

DUTD Dump domain transaction dump statistics

```
CONTROL BLOCK NAME = DFHTDRDS
DESCRIPTIVE NAME  = CICS Dump Domain Transaction Dump Stats
   @BANNER_START 02

                         DFHTDRDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = A record containing Dump Domain Transaction Dump Stats
          (By dumpcode)
      This DSECT describes the statistics produced by the Dump
      Domain for each transaction dumpcode. There will be one
      instance of the data for each dumpcode for which statistics
      were requested.
      The data consists of a header plus a block of statistics
      for the Dump domain.
LIFETIME = Created when the Dump Domain is initialised and
          exists for the lifetime of the Dump Domain.
STORAGE CLASS =
LOCATION = User is passed a pointer to the storage
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 -------------------------------------------------------------------
 EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = In Dump Domain
    GLOBAL VARIABLES (Macro pass) = None
 -------------------------------------------------------------------
```

Table 664.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTDRDS	Dump domain transaction dump stats
(0)	FULLWORD	4	(0)	Fullword allignment
(0)	HALFWORD	2	TDRLEN	Length of data area

Table 664. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	SIGNED	0	TDRIDE	"85" Transaction dump stats id mask
(2)	ADDRESS	2	TDRID	transaction dump stats id
(2)	BITSTRING	0	TDRVERS	"X'01'" DSECT version number
(4)	CHARACTER	1	TDRDVERS	Domain data format version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	4	TDRCODE	Dumpcode
(C)	FULLWORD	4	TDRSTKN	# of system dumps taken
(10)	FULLWORD	4	TDRSSUPR	# of system dumps suppressed
(14)	FULLWORD	4	TDRTTKN	# of transaction dumps taken
(18)	FULLWORD	4	TDRTSUPR	# of transaction dumps suppressed
(18)		0	TDREND	"*"
(18)		0	TDRCLEN	"*-TDRLEN" Length

TDST Transient data static storage

```
MODULE NAME = DFHTDSPS
DESCRIPTIVE NAME  = Transient Data Static Storage.
                    CICS AP Domain
@BANNER_START 02
                DFHTDSPS
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
FUNCTION =
    Copybook DFHTDSPS provides structure DFHTDST.
    DFHTDST describes Transient Data Static Storage
    (TDST), only one TDST is allocated.
LIFETIME =
    The lifetime of the control block is essentially
    that of CICS.
STORAGE CLASS =
    The control block is located in storage allocated
    from the DFHTDG31 subpool.
LOCATION =
    The TDST is located from the CSA.
INNER CONTROL BLOCKS =
    There are no inner control blocks.
NOTES :
 DEPENDENCIES =
    S/370
 RESTRICTIONS =
    There are no restrictions.
 MODULE TYPE =
    Control block definition.
            TRANSIENT DATA STATIC STORAGE
```

Table 665.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	216	DFHTDST	
(0)	CHARACTER	16	TDST_PREFIX	prefix
(0)	HALFWORD	2	TDST_LENGTH	- length
(2)	CHARACTER	1	TDST_ARROW	- value - '>'
(3)	CHARACTER	3	TDST_DFH	- value - 'DFH'
(6)	CHARACTER	2	TDST_DOMID	- value - 'TD'
(8)	CHARACTER	8	TDST_BLOCK	- value - 'TDST '
(10)	CHARACTER	12	TDST_ENTRIES	entry points
(10)	ADDRESS	4	TDST_TDANA	- TDA - extrapartition ...
(14)	ADDRESS	4	TDST_TDBNA	- TDB - intrapartition
(18)	ADDRESS	4	TDST_TDRM	- TD recovery manager
(1C)	CHARACTER	72	TDST_ETOKENS	subpool tokens
(1C)	CHARACTER	8	TDST_G24	- general use - AMODE 24
(24)	CHARACTER	8	TDST_G31	- general use - AMODE 31
(2C)	CHARACTER	8	TDST_SDS	- real SDSCI - AMODE 24 - 4 DCTE types - AMODE 31
(34)	CHARACTER	8	TDST_EXTRA_ DCTE_STG_SUBPOOL	
(3C)	CHARACTER	8	TDST_INTRA_ DCTE_STG_SUBPOOL	
(44)	CHARACTER	8	TDST_INDIR_ DCTE_STG_SUBPOOL	
(4C)	CHARACTER	8	TDST_REMOTE_ DCTE_STG_SUBPOOL	
(54)	CHARACTER	8	TDST_IOB	- specific use - I/O buffers
(5C)	CHARACTER	8	TDST_WCB	- specific use - MWCB pool
(64)	CHARACTER	16	TDST_GENBLKS	general control blocks
(64)	ADDRESS	4	TDST_MBCA_P	- A(buffer common area)
(68)	ADDRESS	4	TDST_MRCA_P	- A(string common area)
(6C)	ADDRESS	4	*	- reserved
(70)	ADDRESS	4	*	- reserved
(74)	CHARACTER	16	TDST_SPEBLKS	specific control blocks
(74)	ADDRESS	4	TDST_CXRF_P	- A(DCTE for CXRF)
(78)	ADDRESS	4	*	- reserved
(7C)	ADDRESS	4	*	- reserved

Table 665. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(80)	ADDRESS	4	*	- reserved
(84)	CHARACTER	4	TDST_STATUS	TD status
(84)	CHARACTER	1	TDSTFLG0	- DCT contains ...
	1...		TDSTNTRA	- intrapartition
	.1..		TDSTLREC	- logical recovery
	..1.		TDSTPREC	- physical recovery
	...1		*	- reserved
	.... 1...		TDSTXTRA	- extrapartition
	.... .1..		TDSTOPIN	- OPEN=INITIAL
	.... ..1.		TDSTNDIR	- indirect
	1		TDSTUSER	- entries that need Add_User *
(85)	CHARACTER	1	TDSTFLG1	- TD start up is ...
	1...		TDSTCOLD	- cold
	.1..		TDSTWARM	- warm
	..1.		TDSTEMER	- emergency
	...1		TDSTINOP	- DFHINTRA opened
	.... 1...		TDST_CLOSED_FOR_REC	
				TD closed, warm keypointing
	.... .1..		TDST_COLD_IN_PROGRESS	
				cold start in progress
	.... ..1.		TDST_CLEAR_INTRA_QUEUES	
				DCT=EMPTY reqd
	1		TDFULLMSG	- TD0245 issued ?
(86)	CHARACTER	1	TDSTFLG2	
	1111 111.		*	- reserved
	1		TD0247MSG	- TD0247 issued ?
(87)	CHARACTER	1	TDSTFLG3	- reserved
(87)	BIT(8)	1	*	- reserved
(88)	CHARACTER	16	TDST_TD_INIT	TD initialization
(88)	CHARACTER	4	TDST_ECB	- ECB
	1...		TDST_DCT_INST	- All DCTs installed
	.1..		TDST_POST	- (CICS) wait/post bit
(88)	BIT(22) POS(3)	3	*	
(8B)	CHARACTER	1	TDST_RESP	- return code
	1...		TDST_RESP_DISASTER	

Table 665. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				- disaster
	.1..		TDST_RESP_ INVALID	
				- invalid
	..1.		TDST_RESP_ EXCEPTION	
				- exception
	...1 1111		*	- reserved
(8C)	CHARACTER	12	TDST_SRC	- suspended request chain
(8C)	ADDRESS	4	TDST_TCA_P	- A(owning TCA) or 0
(90)	ADDRESS	4	TDST_MWCB_P	- A(first MWCB) or 0
(94)	CHARACTER	4	*	- remove info PLX msg
(98)	CHARACTER	44	TDST_RECOVERY_ DATA	Data aassociated with RM
(98)	CHARACTER	8	TDST_TDUA_ STG_SUBPOOL	
				Stg subpool token
(A0)	CHARACTER	8	TDST_TDQUB_ STG_SUBPOOL	
				Stg subpool token
(A8)	CHARACTER	8	TDST_TDCUB_ STG_SUBPOOL	
				Stg subpool token
(B0)	CHARACTER	8	*	TDUA chain head
(B0)	ADDRESS	4	TDST_TDUA_ FIRST	First TDUA
(B4)	ADDRESS	4	TDST_TDUA_LAST	Last TDUA
(B8)	ADDRESS	4	TDST_NQ_ POOL_TOKEN	
				NQ pool token
(BC)	CHARACTER	8	TDST_LAST_ CLEAR_TIME	
				Last time DCT=xx,EMPTY was specified
(C4)	CHARACTER	4	TDST_LM_TOKEN	Lock manager token
(C8)	CHARACTER	4	TDST_DIRECTORY_ TOKEN	
				Dir Manager token
(CC)	FULLWORD	4	TDST_DCTE_ INDIRECTS	
				Indirect DCTEs count
(D0)	ADDRESS	4	TDST_QR_TCB	Address QR TCB

Table 665. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(D8)	CHARACTER	0	*	

TDUE Transient data EXEC Parameter List *LBA

```
                 CONTROL BLOCK NAME = DFHTDUEC
                 DESCRIPTIVE NAME  = CICS EXEC argument list for Transient
                                         Data user exits.
                  @BANNER_START 02
                                  DFHTDUEC
                 Licensed Materials - Property of IBM
                 "Restricted Materials of IBM"
                 5655-S97
                 @BANNER_END
                   Although provided in a general library, DFHTDUED is not
                   to be used as a general programming interface. Refer to
                   product documentation to determine intended usage.
                   The following fields are part of the Product-sensitive
                   Programming Interface.
                             TD_ADDR0
                             TD_ADDR1
                             TD_ADDR2
                             TD_ADDR3
                             TD_ADDR4
                             TD_ADDR5
                             TD_ADDR6
                             TD_ADDR7
                             TD_GROUP
                             TD_FUNCT
                             TD_BITS1
                             TD_EIDOPT5
                             TD_EIDOPT6
                             TD_EIDOPT7
                             TD_QUEUE
                             TD_WRITEQ_QUEUE
                             TD_READQ_QUEUE
                             TD_DELETEQ_QUEUE
                             TD_READQ_SET
                             TD_READQ_INTO
                             TD_WRITEQ_FROM
                             TD_LENGTH
                             TD_WRITEQ_LENGTH
                             TD_READQ_LENGTH
                             TD_SYSID
                             TD_WRITEQ_SYSID
                             TD_READQ_SYSID
                             TD_DELETEQ_SYSID
                   All equates for values of EIBRCODE, EIBRESP and EIBRESP2
                   form part of the General-purpose Programming Interface.
                   All remaining fields used in defining the Exec Parameter
                   List are product sensitive and may vary between CICS
                   releases.
                 FUNCTION =
                     To define the EXEC parameter list for Transient Data
                     requests, for use by global user exit programs at exit
                     points XTDEREQ and XTDEREQC.
                     On entry to the XTDEREQ and XTDEREQC User Exits, the EXEC
                     parameter list is pointed to by UEPCLPS.
                     The EXEC parameter list for Transient Data consists of
                     eight addresses.
                     The eight addresses are defined by TD_ADDR0 to TD_ADDR7.
                     This DSECT defines these addresses and the areas that
                     they point to.
```

```
          On entry to the XTDEREQ and XTDEREQC User Exits, the copy
          of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP
          is pointed to by UEPRESP and the copy of EIBRESP2 is
          pointed to by UEPRESP2.
          This DSECT also contains equates for values of EIBRCODE,
          EIBRESP and EIBRESP2 used by Transient Data.
     LIFETIME = Lifetime of the TD command request
     STORAGE CLASS = As the storage being mapped is the translated
                     source in the user's application program, the
                     storage may be either above or below the line.
     LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.
                (2) Fields copied from the EIB are addressed by
                      UEPRCODE, UEPRESP and UEPRESP2.
                (3) The token for use in communicating between
                      XTDEREQ and XTDEREQC is addressed by UEPTDTOK.
     INNER CONTROL BLOCKS =
          TD_ADDR_LIST declares the EXEC addresses.
          TD_EID defines the EID pointed to by TD_ADDR0.
     NOTES :
      DEPENDENCIES = S/370 ESA
      RESTRICTIONS = None
      MODULE TYPE = Control Block definition
     ----------------------------------------------------------------
     EXTERNAL REFERENCES =
          None.
       DATA AREAS =
          None.
       CONTROL BLOCKS =
          None.
       GLOBAL VARIABLES (Macro pass) =
          None.
     ----------------------------------------------------------------
     The command parameter list is a list of addresses
     which reference the argument values for this this EXEC CICS
     command. The addresses are only valid if the argument is
     applicable to this command.
     For example, address 1 is of the TD QUEUE name for all TD
     commands, whereas the address 2 is of the FROM data area on
     WRITEQ commands, the SET address or INTO data area for READQ
     commands, and is not valid for DELETEQ commands.
     The existance bits in the EID component (TD_BITS1) specify
     those addresses that are valid, and the flagword bits
     (TD_EIDOPT5 - TD_EIDOPT7) specify the keywords that were given
     in the EXEC CICS TD command.
     Therefore, you can deduce the useage of each address by testing
     these bits in conjunction with the command function(TD_FUNCT).
```

Table 666.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	TD_ADDR_LIST	TD_ADDR_LIST consists of
(0)	ADDRESS	4	TD_ADDR0	the EID
(4)	ADDRESS	4	TD_ADDR1	QUEUE name
(8)	ADDRESS	4	TD_ADDR2	FROM data area (WRITEQ)
INTO data area (READQ) SET address (READQ)				
(C)	ADDRESS	4	TD_ADDR3	LENGTH value
(10)	ADDRESS	4	TD_ADDR4	Reserved
(14)	ADDRESS	4	TD_ADDR5	Reserved
(18)	ADDRESS	4	TD_ADDR6	Reserved

Table 666. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	ADDRESS	4	TD_ADDR7	SYSID

```
TD_EID (addressed by TD_ADDR0) gives the command function, and
contains the existence and flagword bits.
Note: Equates for TD_GROUP, TD_FUNCT, EIBRCODE, EIBRESP and
EIBRESP2 values are defined at the end of this data structure.
```

Table 667.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	TD_EID	
(0)	CHARACTER	1	TD_GROUP	'08'X for TD
(1)	CHARACTER	1	TD_FUNCT	'02'X for WRITEQ

<td colspan="5"><pre>   '04'X for READQ
                          '06'X for DELETEQ
    -- 	
    The existence bits (TD_BITS1) specify the parameters that are
    valid for this command.
    For example, TD_EXIST7 set on indicates that TD_ADDR7 is valid,
    meaning that it addresses a SYSID value.
    TD_ADDR0 is always valid and has no existence bit.
    TD_EXIST3 may be modified by a user exit program invoked for
    a READQ command with the SET option.
    TD_EXIST7 may be modified by a user exit program invoked for
    any TD request.
    None of the other bits may be modified.
    --</pre></td> 	

(2)	BIT(8)	1	TD_BITS1	
	1...		TD_EXIST1	
	1...		TD_QUEUE_V	
	1...		TD_WRITEQ_ QUEUE_V	
	1...		TD_READQ_ QUEUE_V	
	1...		TD_DELETEQ_ QUEUE_V	
	.1..		TD_EXIST2	
	.1..		TD_WRITEQ_ FROM_V	
	.1..		TD_READQ_ SET_INTO_V	
	..1.		TD_EXIST3	
	..1.		TD_LENGTH_V	
	..1.		TD_WRITEQ_ LENGTH_V	
	..1.		TD_READQ_ LENGTH_V	
	...1 11..		*	Reserved
	.... ..1.		TD_EXIST7	
	.... ..1.		TD_SYSID_V	

Table 667. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		TD_WRITEQ_ SYSID_V	
	.... ..1.		TD_READQ_ SYSID_V	
	.... ..1.		TD_DELETEQ_ SYSID_V	
	1		*	Reserved
(3)	BIT(16)	2	*	Reserved

```
----------------------------------------------------------------
   The next 3 bytes (TD_EIDOPT5 - TD_EIDOPT7) are the flagword
   bits.
   A user exit program at XTDEREQ can set the TD_READQ_NOSUSPEND_X
   bit for all READQ requests, and may test (but may NOT modify)
   the TD_READQ_SET_X bit for all READQ requests.
   These bits have no meaning for WRITEQ or DELETEQ commands.
----------------------------------------------------------------
```

Offset Hex	Type	Len	Name (dim)	Description
(5)	BIT(8)	1	TD_EIDOPT5	
	1111 111.		*	Reserved
	1		TD_READQ_SET_X	SET specified.
(6)	BIT(8)	1	TD_EIDOPT6	
(6)	BIT(8)	1	*	Reserved
(7)	BIT(8)	1	TD_EIDOPT7	
	11..		*	Reserved
	..1.		TD_READQ_ NOSUSPEND_X	
				NOSUSPEND specified.
	...1 1111		*	Reserved

```
The following definitions are for the rest of the arguments in
the EXEC parameter list, addressed by TD_ADDR1 - TD_ADDR7 in
TD_ADDR_LIST.
```

Table 668.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	TD_DATA1	
(0)	CHARACTER	8	TD_QUEUE	the QUEUE name
(0)	CHARACTER	8	TD_WRITEQ_QUEUE	
(0)	CHARACTER	8	TD_READQ_QUEUE	
(0)	CHARACTER	8	TD_DELETEQ_ QUEUE	

Table 669.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	TD_DATA2	
(0)	ADDRESS	4	TD_READQ_SET	the SET address

Table 669. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	*	TD_READQ_INTO	the INTO area
(0)	CHARACTER	*	TD_WRITEQ_FROM	the FROM area

Table 670.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2	TD_DATA3	
(0)	HALFWORD	2	TD_LENGTH	the data LENGTH
(0)	HALFWORD	2	TD_WRITEQ_LENGTH	
(0)	HALFWORD	2	TD_READQ_LENGTH	

Table 671.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	TD_DATA7	
(0)	CHARACTER	4	TD_SYSID	the SYSID name
(0)	CHARACTER	4	TD_WRITEQ_SYSID	
(0)	CHARACTER	4	TD_READQ_SYSID	
(0)	CHARACTER	4	TD_DELETEQ_SYSID	

Constants

Table 672.

Len	Type	value	Name	Description
Equate for TD_GROUP. All Transient Data requests have group code '08'				
1	HEX	08	TD_TRANDATA_GROUP	
Equates for TD_FUNCT values.				
1	HEX	02	TD_WRITEQ	Writeq
1	HEX	04	TD_READQ	Readq
1	HEX	06	TD_DELETEQ	Deleteq
Start of General Use Programming Interface. Equates for EIBRCODE values used by Transient Data.				
1	HEX	00	TD_OK_EIBRCODE	
1	HEX	01	TD_QZERO_EIBRCODE	
1	HEX	02	TD_QIDERR_EIBRCODE	
1	HEX	04	TD_IOERR_EIBRCODE	
1	HEX	08	TD_NOTOPEN_EIBRCODE	
1	HEX	10	TD_NOSPACE_EIBRCODE	

Table 672. (continued)

Len	Type	value	Name	Description
1	HEX	C0	TD_QBUSY_EIBRCODE	
1	HEX	D0	TD_SYSIDERR_ EIBRCODE	
1	HEX	D1	TD_ISCINVREQ_ EIBRCODE	
1	HEX	D6	TD_NOTAUTH_ EIBRCODE	
1	HEX	D7	TD_DISABLED_ EIBRCODE	
1	HEX	E0	TD_INVREQ_EIBRCODE	
1	HEX	E1	TD_LENGERR_ EIBRCODE	
	Equates for EIBRESP values used by Transient Data.			
1	DECIMAL	0	TD_OK_EIBRESP	
1	DECIMAL	23	TD_QZERO_EIBRESP	
1	DECIMAL	44	TD_QIDERR_EIBRESP	
1	DECIMAL	17	TD_IOERR_EIBRESP	
1	DECIMAL	19	TD_NOTOPEN_EIBRESP	
1	DECIMAL	18	TD_NOSPACE_EIBRESP	
1	DECIMAL	25	TD_QBUSY_EIBRESP	
1	DECIMAL	53	TD_SYSIDERR_EIBRESP	
1	DECIMAL	54	TD_ISCINVREQ_EIBRESP	
1	DECIMAL	70	TD_NOTAUTH_EIBRESP	
1	DECIMAL	84	TD_DISABLED_EIBRESP	
1	DECIMAL	16	TD_INVREQ_EIBRESP	
1	DECIMAL	22	TD_LENGERR_EIBRESP	
	Equates for EIBRESP2 values used by Transient Data.			
1	DECIMAL	0	TD_OK_EIBRESP2	OK
1	DECIMAL	101	TD_NOTAUTH_EIBRESP2	NOTAUTH *-*-**-**-**-**-**-**-**- **-* *-*-**-**-**-**-**-**-**- **-* *-*-* End of General Use **-* *-* Programming Interface *-* *-*-*-**-**-**-**-**-**-*- *-*

TEPCA TEP commarea mapper and descriptor

```
MACRO NAME = DFHTEPCA
DESCRIPTIVE NAME  = CICS TEP commarea mapper and descriptor
  @BANNER_START 02

                DFHTEPCA
```

```
        Licensed Materials - Property of IBM
        "Restricted Materials of IBM"
        5655-S97
        @BANNER_END
    FUNCTION =
        This macro provides a DSECT description and a storage
        mapper for the terminal error program (TEP) commarea.
    NOTES :
      DEPENDENCIES = S/370
      RESTRICTIONS =
          See OPERANDS sections.
      MODULE TYPE = Executable macro
------------------------------------------------------------------
        Meaning of permissible TYPE operands:
        DSECT
            Build a DSECT named DFHTEPCA
        STORAGE
            If a DSECT has already been built, then define
            a storage area to hold DFHTEPCA;
            otherwise, build a storage area using the
            named DSECT fields.
------------------------------------------------------------------
```

Table 673.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTEPCA	
Invocation descriptor. - COMMAREA for the TEP user replaceable module				
(0)	BITSTRING	1	TEPCALDS	Local descriptor
(1)	BITSTRING	2	TEPCAGDS	Global descriptor
(3)	BITSTRING	1		Reserved
Address of control blocks required by the TEP				
(4)	ADDRESS	4	TEPCATCA	Address of the TACLE
(8)	ADDRESS	4	TEPCECIA	Address of the TCTUA
(C)	HALFWORD	2	TEPCECIL	Length of the TCTUA
Action byte. Initially set to the default actions. User can change these default actions.				
(E)	BITSTRING	1	TEPCAACT	User actions
(E)	BITSTRING	0	LINEOS	"X'80'" Line out of service
(E)	BITSTRING	0	NONPRGT	"X'40'" Non purgable task
(E)	BITSTRING	0	TERMOS	"X'20'" Terminal out of service
(E)	BITSTRING	0	ABENDT	"X'10'" Abend transaction
(E)	BITSTRING	0	ABORTWR	"X'08'" Abort write
(E)	BITSTRING	0	RELTTIOA	"X'04'" Release TIOA
(E)	BITSTRING	0	SIGNOFF	"X'02'" Sign off terminal
Useful information. The fields below may be of use to the TEP or TET. All of the following fields are read only.				

Table 673. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F)	CHARACTER	4	TEPCATID	Terminal ID
(14)	FULLWORD	4	TEPCATDB	Current time of day binary
(14)		0	TEPCADLN	"*-TEPCALDS" Length of this DSECT

TIE Task interface element

```
CONTROL BLOCK NAME = DFHTIEPS
DESCRIPTIVE NAME  = CICS Task Interface Element
 @BANNER_START 02
                        DFHTIEPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     PLX Structure of the TIE, which represents the intersection
     of a CICS task (TCA) with a named External Resource Manager
     represented by a Task Related User Exit (TRUE). An enabled
     TRUE is represented by an User Exit Program Block (EPB).
     The TIE holds all the task lifetime information which is
     passed betweena CICS task and a named External Resource
     Manager.
     The TIE belongs to the external resource manager module
     DFHERM. There can be many TIEs per CICS task. TIEs are
     chained off the TCA.
LIFETIME =
     A TIE is acuired the first time a TRUE is invoked by a
     CICS task. There is one TIE for each TRUE a task invokes.
     All TIEs for a task are freemained by DFHERM at end of task.
STORAGE CLASS =
     TIEs are getmained from a dedicated subpool for each TRUE.
     Appended to the end of the TIE, is the Task Local Work Area
     for the TRUE, whose size is specified when the TRUE is
     enabled. Hence TIEs for different TRUEs are different sizes.
     A TIE subpool is located above the line only if the TRUE
     TRUE is ENABLED specifying LINKEDITMODE, and the TRUE has
     been linkedited amode(31), meaning that the TRUE is always
     invoked in amode(31).
LOCATION =
     The head of the TIE chain is TCATIEBA in the system TCA.
     Within a TIE is TIECHNA which points to the next TIE on
     the chain for the task.
INNER CONTROL BLOCKS = None
NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 ----------------------------------------------------------------
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None
 ----------------------------------------------------------------
```

Table 674.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	128	DFHTIEDS	

Table 674. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	16	TIE_PREFIX	Standard Prefix
(0)	HALFWORD	2	TIE_LEN	Length (inc. work area)
(2)	CHARACTER	14	TIE_EYE	Eyecatcher
(2)	CHARACTER	6	TIE_EYE1	'>TIE--'
(8)	CHARACTER	8	TIE_EYE2	Resource Manager name
(10)	ADDRESS	4	TIECHNA	Addr next TIE on TCA chain
(14)	ADDRESS	4	TIEUTCA	Addr of our TCA (user TCA)
(18)	ADDRESS	4	TIETRUEP	Addr of current UEPAR plist for TRUE - for dump's use
(1C)	ADDRESS	4	TIESECBLK	Addr user security block
(20)	BIT(8)	1	TIESECFLG	Security flags
	1...		TIENOSEC	Security inactive
	.1..		*	Reserved
	..1.		TIESEC	Security active for system
	...1 1111		*	Reserved
(21)	BIT(8)	1	TIEEISFG	EIS settings for the TRUE
	1...		TIEVALID	TIEEISFG settings are valid
	.1..		TIEDAT31	True has DATALOCATION(ANY)
	..1.		TIECEDFY	True has CEDF(YES)
	...1		TIECICS	True has tdatakey(CICS)
	 1111		*	Reserved
(22)	BIT(8)	1	TIETRACE	Trace flags for TRUE
	1...		TIETRLV1	RMI level 1 trace active
	.1..		TIETRLV2	RMI level 2 trace active
	..11 1111		*	Reserved
(23)	BIT(8)	1	*	Reserved
(24)	UNSIGNED	4	TIEPBTOK	WLM PB token
(28)	FULLWORD	4	TIERCNT	TRUE recursion count
(2C)	ADDRESS	4	TIEEPAD	Addr of EIP transfer vector

Table 674. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	Recovery Section of TIE. These fields are shared between DFHERM and DFHERMSP which is the RMI syncpoint processor called by Recovery Manager Domain			
(30)	CHARACTER	68	TIERECOV	Recovery section of TIE
(30)	CHARACTER	8	TIERTKN	Current UOW id
(38)	CHARACTER	27	TIE62UOW	Network wide (LU 6.2) UOWID
(53)	CHARACTER	1	*	filler to word align
(54)	CHARACTER	8	TIEEPN	Resource Manager name
(5C)	CHARACTER	8	TIERMQUA	Reource manager qualifier
(64)	BIT(32)	4	TIELTOK	Link token returned by RM
(68)	ADDRESS	4	TIEEPBA	Addr of EPB for this TRUE
(6C)	BIT(8)	1	TIEFOOTP	Footprints for RM Dom calls
	1...		TIEADDLK	RMLN ADD_LINK issued
	.1..		TIERNEC	Recovery(necessary) set
	..1.		TIESINGU	Single_updater(yes) set
	...1		TIESETTK	Set work token issued
	.... 1...		TIESETHR	Set heurism(yes) issued
	.... .1..		TIESETLI	SET_LINK LINK_ID issued
	.... ..1.		TIETRABD	True has abended
	1		TIENOLNK	Add_link too late
(6D)	BIT(8)	1	TIESYNCP	TRUE's syncpoint parms
	1...		TIESUPDR	TRUE understands single.. updater protocol
	.1..		TIEREADO	TRUE understands read-only protocol
	..11 1111		*	Reserved
(6E)	BIT(16)	2	*	Reserved
	TIEFLAGS is the target of UEPFLAGS during RMI execution. It is initialised from the TRUE's interest profile in the EPB (EPBFLAGS). The first byte of TIEFLAGS is reserved for CICS/VS 1.5 compatibility.			
(70)	BIT(32)	4	TIEFLAGS	TRUE interest profile
(70)	BIT(8)	1	TIEFLAG0	Byte 0

Table 674. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(71)	BIT(8)	1	TIEFLAG1	Byte 1
(72)	BIT(8)	1	TIEFLAG2	Byte 2
	111.		*	
	...1		TIEMFEDF	Interest in EDF
	.... 1...		*	
	.... .1..		TIEMCTER	Interest in shutdown
	.... ..1.		*	
	1		TIEMTASK	Interest in task start/end
(73)	BIT(8)	1	TIEFLAG3	Byte 3
	111.		*	
	...1		TIEMSYNC	Interest in Syncpoint
	.... 1...		TIEMRORM	Avoid unshunting
	.... .1..		TIEMAPPL	Interest in API calls
	.... ..1.		TIEMSPI	Interest in SPI calls
	1		*	
End of Recovery Section				
(74)	HALFWORD	2	TIEGAL	Global work area length
(76)	HALFWORD	2	TIETAL	Task Local work area length
(78)	ADDRESS	4	TIEFREE	Free TIE forward chain
NOTE: The offset of TIELWAA must not be changed.				
(7C)	ADDRESS	4	TIELWAA	Address of LWA
End of the task Interface Element				
(80)	CHARACTER	0	TIEENDA	End of TIE
Start of TRUE's Task Local Work Area (if one exists)				
(80)	CHARACTER	0	TIELWA	Start of TRUE's work area - must be doubleword aligned.

Constants

Table 675.

Len	Type	value	Name	Description
RMI Trace points DFHERMSP				
2	HEX	2500	ERMSP_ENTRY	ERMSP entry
2	HEX	2501	ERMSP_EXIT	ERMSP exit
2	HEX	2502	ERMSP_INV_FORMAT	Invalid format
2	HEX	2503	ERMSP_INV_ RMRO_FUNCTION	

Table 675. (continued)

Len	Type	value	Name	Description
				Invalid rmro function
2	HEX	2504	ERMSP_INV_ RMLK_FUNCTION	
				Invalid rmlk function
2	HEX	2505	ERMSP_RECOVERY	Recovery routine entered
2	HEX	2506	ERMSP_RMWTI_ SET_FAIL	SET WORK_TOKEN from ERMSP has failed
2	HEX	2507	ERMSP_RMUWM_ INQ_UOW_FAIL	
				INQ UOW from ERMSP has failed
2	HEX	2508	ERMSP_XMAT_ ATTACH_FAIL	
				attach from ERMSP has failed
2	HEX	2509	ERMSP_RMI_BEFORE	ERMSP is about to call the RMI
2	HEX	2510	ERMSP_RMI_AFTER	Control has returned to ERMSP from the RMI
DFHERM				
2	HEX	2520	ERM_ENTRY	entry trace
2	HEX	2521	ERM_EXIT	exit trace
2	HEX	2522	ERM_ABOUT_ TO_CALL_TRUE	
				Passing control to the true
2	HEX	2523	ERM_RETURN_ FROM_TRUE	Receiving control back from the TRUE
2	HEX	2524	ERM_RM_NOT_ AVAILABLE	TRUE disabled
2	HEX	2525	ERM_ADD_LINK_FAIL	ADD LINK from ERM has failed
2	HEX	2526	ERM_SET_LINK_FAIL	SET LINK from ERM has failed
2	HEX	2527	ERM_RMWTI_SET_FAIL	SET WORK_TOKEN from ERM has failed
2	HEX	2528	ERM_RMUWI_INQ_FAIL	INQ UOW ID from ERM has failed
2	HEX	2529	ERM_SET_UOW_FAIL	SET UOW from from ERM has failed
2	HEX	2530	ERM_PGEX_ ERROR_BEFORE	
				PGEX error before calling TRUE

Table 675. (continued)

Len	Type	value	Name	Description
2	HEX	2531	ERM_PGEX_ ERROR_AFTER	PGEX error after calling TRUE
2	HEX	2532	ERM_PGEX_ ERROR_RECOV	PGEX error during recovery processing
2	HEX	2533	ERM_RECOVERY_ ENTERED	ERM's recovery routine invoked
2	HEX	2534	ERM_CHAIR_MODIFIED	XPCHAIR exit in DFHERM modified handle address
2	HEX	2535	ERM_CHANGE_ MODE_FAILED	
	DFHRMSY			
2	HEX	2540	RMSY_ENTRY	RMSY entry
2	HEX	2541	RMSY_EXIT	RMSY exit
2	HEX	2542	RMSY_XMIQM_ INQ_TRAN_FAIL	
				XMIQM from RMSY failed
2	HEX	2543	RMSY_RMUWM_ INQ_UOW_FAIL	
				RMUWM inq uow from RMSY has failed
2	HEX	2544	RMSY_RMDMM_ INQ_STARTUP_FAIL	
				RMDM call from RMSY has failed
2	HEX	2545	RMSY_UNEXPECTED_ RMLN_REASON	
				RMSY received an unexprected reason for an exception response from rmln initiate_rec.
2	HEX	2546	RMSY_BAD_ RMLN_RESPONSE	
				RMSY received serious error from rmln call
2	HEX	2547	RMSY_RMLN_ TERMINATE_FAIL	
				Terminate recovery issued by RMSY has failed
2	HEX	2548	RMSY_RMI_BEFORE	RMSY is about to call the RMI
2	HEX	2549	RMSY_RMI_AFTER	Control has returned to RMSY from the RMI

Table 675. (continued)

Len	Type	value	Name	Description
DFHERMRS				
2	HEX	2560	ERMRS_ENTRY	ERMRS entry
2	HEX	2561	ERMRS_EXIT	ERMRS exit
2	HEX	2562	ERMRS_INV_ EIP_FUNCTION	
				ERMRS called for wrong EIP function
2	HEX	2563	ERMRS_INV_FUNCTION	Invalid eiei function
2	HEX	2564	ERMRS_RMLN_ START_LINK_FAIL	
				RMLN start link browse from ERMRS failed
2	HEX	2565	ERMRS_RMLN_ GET_NEXT_LINK_ FAIL	
				RMLN getnext_link from ERMRS failed
2	HEX	2566	ERMRS_RMLN_ END_LINK_BROWSE_ FAIL	
				RMLN end link browse from ERMRS failed
2	HEX	2567	ERMRS_RECOVERY	Recovery routine entered
2	HEX	2568	ERMRS_RMUWM_ INQ_UOW_FAIL	
				INQ UOW from ERMRS has failed
2	HEX	2569	ERMRS_UNEXPECTED_ RMLN_REASON	
				ERMRS received an unexprected reason for an exception response from rmln initiate_rec.
2	HEX	2570	ERMRS_BAD_ RMLN_RESPONSE	
				ERMRS received serious error from rmln initiate rec.
2	HEX	2571	ERMRS_RMLN_ TERMINATE_FAIL	
				RMLN terminate recovery from ERMRS failed

Table 675. (continued)

Len	Type	value	Name	Description
2	HEX	2572	ERMRS_RMLN_SET_MARK_FAIL	
				RMLN set mark from ERMRS failed
2	HEX	2573	ERMRS_XMAT_ATTACH_FAIL	
				attach from ERMRS has failed

TIOA Terminal input/output area

```
             MODULE NAME = DFHTIOA
              DESCRIPTIVE NAME  = CICS TERMINAL INPUT/OUTPUT AREA
                             DUAL LANGUAGE DSECT
               @BANNER_START 02

                             DFHTIOA
               Licensed Materials - Property of IBM
               "Restricted Materials of IBM"
               5655-S97
               @BANNER_END
             FUNCTION = DEFINES THE TERMINAL INPUT/OUTPUT AREA
             NOTES :
              DEPENDENCIES = S/370
              RESTRICTIONS = NONE
              REGISTER CONVENTIONS = NOT APPLICABLE
              PATCH LABEL = NOT APPLICABLE
              MODULE TYPE = DSECT
              MODULE SIZE = NOT APPLICABLE
              ATTRIBUTES = NOT APPLICABLE
             ENTRY POINT = NOT APPLICABLE
              PURPOSE = DEFINE THE TERMINAL INPUT/OUTPUT AREA
              LINKAGE = NOT APPLICABLE
             INPUT = NOT APPLICABLE
             OUTPUT = NOT APPLICABLE
             EXIT-NORMAL = NOT APPLICABLE
             EXIT-ERROR = NOT APPLICABLE
             EXTERNAL REFERENCES = NOT APPLICABLE
              CONTROL BLOCKS = NOT APPLICABLE
              TABLES = NOT APPLICABLE
              MACROS = NONE
             The following fields are for customer use:-
                 TIOATDL TIOAWCI TIOACLCR
                 TIOALAC TIOADBA
```

Table 676.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	DFHTIOA	DUMMY SECTION - TERMINAL I/O AREA
(0)	CHARACTER	8	TIOASAA	STORAGE ACCOUNTING AREA
(0)	CHARACTER	2	*	STORAGE CLASS - TERMINAL

Table 676. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	UNSIGNED	2	TIOASAL	STORAGE ACCOUNTING AREA LENGTH
(4)	ADDRESS	4	TIOASCA	CHAIN ADDRESS OF NEXT TERMINAL STORAGE ENTRY FOR THIS TASK
(8)	HALFWORD	2	TIOATDL	TERMINAL DATA LENGTH
(A)	BIT(8)	1	TIOAWCI	WRITE CONTROL INDICATOR
(B)	CHARACTER	1	TIOACLCR	WCC OR CCC CHARACTER
(B)	BIT(8)	1	TIOALAC	LINE ADDRESS CONTROL
(C)	CHARACTER	0	TIOADBA	TERMINAL DATA BEGIN ADDRESS

TMDEL Table Manager Directory Element

```
CONTROL BLOCK NAME = DFHTMDEL
DESCRIPTIVE NAME  = CICS Table Manager Directory Element
 @BANNER_START 02

                      DFHTMDEL
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
    The table management directory element is a set of pointers
    that address members of chains of directory elements and a
    pointer to the corresponding directory segment. SKTFDEA in
    the table points to the first directory element and DIRGNCHN
    in each directory element points to its successor.
    DIRGPCHN points back to the predecessor and is 0 if at the
    front of the chain
LIFETIME =
    Since directory elements are grouped into directory segments,
    see the prolog for DFHTMDSG (directory segment) for details
    about storage allocation.
    Storage for a directory element will last for the duration
    of a CICS run though, if a table entry is deleted then its
    corresponding directory element will be marked as reusable
    and placed on a chain of free directory elements.
STORAGE CLASS =
    Shared storage above the 16M line.
LOCATION =
    SKTFDEA in the scatter table points to the first directory
    element, and DIRGNCHN in each directory element points to
    its successor.
    DIRELEMA in a directory segment points to the start of a
    group of directory elements.
    SKTFRDE in the scatter table points to the first free
    directory element. Subsequent free directory elements are
    chained together by the DIROWCHN field in the directory
    element.
```

```
        INNER CONTROL BLOCKS = None.
        NOTES :
         DEPENDENCIES = S/370
         RESTRICTIONS = None.
     ---------------------------------------------------------------
       EXTERNAL REFERENCES = None.
         CONTROL BLOCKS = None.
         GLOBAL VARIABLES (Macro pass) = None.
     ---------------------------------------------------------------
```

Table 677.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DIRELEM	Directory element
	Directory element information			
(0)	CHARACTER	28	DIREINFO	Directory element info.
(0)	ADDRESS	4	DIRTEA	Table entry address
(4)	ADDRESS	4	DIRHSCHN	Hash chain
(8)	ADDRESS	4	DIROWCHN	Ownership chain
(C)	ADDRESS	4	DIRPRIME	Ptr. to primary DE.
(10)	ADDRESS	4	DIRGNCHN	Get next chain pointer
(14)	ADDRESS	4	DIRGPCHN	Get previous chain ptr
(18)	UNSIGNED	1	DIRETTC	Table type code
(19)	BIT(8)	1	DIRSTATS	Status of directory entry
	1...		DIRBFREE	Directory entry is free
	.1..		DIRBTEAQ	DE is quiesced
	..1.		DIRBFIXD	Table entry free forbidden
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		DIRBADD	Uncommitted ADD request
	1		DIRBDEL	Uncommitted DELETE request
(1A)	BIT(8)	1	DIRTYPE	Type of entry
	1...		DIRBPRIM	Primary entry
	.1..		DIRBALI	Alias entry
	..1.		DIRBINDX	Index entry
	...1 1111		*	Reserved
(1B)	BIT(8)	1	*	Reserved
	Directory entry key			
(1C)	CHARACTER	*	DIRKEY	Key of this entry

TMDSG Table Manager Directory Segment

```
                    CONTROL BLOCK NAME = DFHTMDSG
                    DESCRIPTIVE NAME  = CICS Table Manager Directory Segment.
                     @BANNER_START 02

                                        DFHTMDSG
                     Licensed Materials - Property of IBM
                     "Restricted Materials of IBM"
                     5655-S97
                     @BANNER_END
                    FUNCTION =
                        The table management directory segment holds a group of
                        directory elements (for each table entry there is a
                        directory element. For a table entry which has aliases,
                        there will be a directory element for each alias).
                        Directory elements are grouped together in this way in
                        order to reduce the number of requests for storage
                        allocation. The number of directory elements per directory
                        segment is controlled by TMNDESG in the table manager
                        static storage.
                    LIFETIME =
                        Storage for a directory segment is acquired when adding a
                        table entry, adding an alias name to an existing table entry,
                        or when adding an entry to a secondary table (ie. a table
                        which contains entries for remote objects). On subsequent
                        additions to the table, storage for a new directory segment
                        is acquired only when there are no free directory elements
                        in the existing segment.
                        Once created, directory segments last for the duration of
                        the CICS run. Note that if a table entry is deleted then its
                        directory element is marked as reusable.
                    STORAGE CLASS =
                        Shared storage above the 16M line.
                    LOCATION =
                        The first segment is located by SKTDIRSA in the scatter
                        table. Subsequent segments are chained by DIRSGCHN in the
                        directory segments themselves.
                    INNER CONTROL BLOCKS = DFHTMDEL (directory element).
                    NOTES :
                     DEPENDENCIES = S/370
                     RESTRICTIONS = None.
                     MODULE TYPE = Control block definition
                    ------------------------------------------------------------------
                    EXTERNAL REFERENCES = None.
                      DATA AREAS = None.
                      CONTROL BLOCKS = None.
                      GLOBAL VARIABLES (Macro pass) = None.
                    ------------------------------------------------------------------
```

Table 678.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DIRSEG	Directory segment
Standard header				
(0)	CHARACTER	16	DIRHDR	Standard header
(0)	HALFWORD	2	DIRLNTH	Total length of table
(2)	CHARACTER	1	DIRARRW	Eye-catcher part 1: >
(3)	CHARACTER	3	DIRDFH	Eye-catcher part 2: DFH
(6)	CHARACTER	2	DIRTM	Eye-catcher part 3: TM
(8)	CHARACTER	8	DIREYEC	Block id: 'DIRSEG '

Table 678. (continued)

Offset Hex	Type	Len	Name (dim)	Description
Directory segment information				
(10)	CHARACTER	8	DIRINFO	Directory segment info.
(10)	ADDRESS	4	DIRSGCHN	Next directory segment ptr.
(14)	HALFWORD	2	*	Reserved
(16)	HALFWORD	2	*	Reserved
(18)	CHARACTER	256	DIRELEMA (*)	Directory elements

TMELD Table Manager Read Lock Block

```
CONTROL BLOCK NAME = DFHTMELD
DESCRIPTIVE NAME  = CICS - Table Management Read Lock Block.
FUNCTION =
 The table management read lock block consists of a set of read
 locks and a count of locks assigned, on primary directory entries.
 Each time a task uses a locate function, a read lock on the
 primary directory entry, corresponding to the table entry found,
 is created by the locate function. A directory entry which has a
 read lock(s) can not be modified until the lock(s) is(are)
 released. Read locks are released at task termination or on
 specific request.
LIFETIME =
 The initial read lock block is allocated at AP domain transaction
 initialization, and release in AP domain transaction termination
 and so a lock block is part of the AP transaction environemnt.
 TMP will acquire storage for a lock block when a task issues
 a function that requires a lock on a primary table entry (eg. a
 locate function). Note, when all locks within a lock block are
 released, the storage for the lock block is not released but
 re-initialised, thus making it reusable. If a task should require
 re-starting, then storage for any lock blocks which are not being
 used is released. Otherwise, storage for all read lock blocks is
 released at task termination.
STORAGE CLASS = CICS storage (CSATCA31/24) above/below the 16M line.
LOCATION =
 In the TCA, TCARLB is the address of the first read lock block.
 Further read lock blocks are chained by TMELPTR, which is in the
 read lock block itself.
INNER CONTROL BLOCKS = None.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None.
   MODULE TYPE = Control block definition
 ----------------------------------------------------------------
EXTERNAL REFERENCES = None.
   DATA AREAS = None.
   CONTROL BLOCKS = None.
   GLOBAL VARIABLES (Macro pass) = None.
```

Table 679.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTMELD	,
(0)	ADDRESS	4	TMELPTR	POINTER TO NEXT BLOCK

Table 679. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	ADDRESS	4	TMENUMRL	NUMBER OF LOCK SLOTS IN BLOCK
(4)		0	TMELKSTR	"*" START OF LOCK SLOTS
(8)	ADDRESS	4	TMELOCKG (2)	TABLE MANAGER LOCK
(10)	ADDRESS	4	TMELOCKF (2)	TABLE MANAGER LOCK
(18)	ADDRESS	4	TMELOCKE (2)	TABLE MANAGER LOCK
(20)	ADDRESS	4	TMELOCKD (2)	TABLE MANAGER LOCK
(28)	ADDRESS	4	TMELOCKC (2)	TABLE MANAGER LOCK
(30)	ADDRESS	4	TMELOCKB (2)	TABLE MANAGER LOCK
(38)	ADDRESS	4	TMELOCKA (2)	TABLE MANAGER LOCK
(40)	ADDRESS	4	TMELOCK9 (2)	TABLE MANAGER LOCK
(48)	ADDRESS	4	TMELOCK8 (2)	TABLE MANAGER LOCK
(50)	ADDRESS	4	TMELOCK7 (2)	TABLE MANAGER LOCK
(58)	ADDRESS	4	TMELOCK6 (2)	TABLE MANAGER LOCK
(60)	ADDRESS	4	TMELOCK5 (2)	TABLE MANAGER LOCK
(68)	ADDRESS	4	TMELOCK4 (2)	TABLE MANAGER LOCK
(70)	ADDRESS	4	TMELOCK3 (2)	TABLE MANAGER LOCK
(78)	ADDRESS	4	TMELOCK2 (2)	TABLE MANAGER LOCK
(80)	ADDRESS	4	TMELOCK1 (2)	TABLE MANAGER LOCK
(80)		0	TMELKEND	"*" END OF LOCK SLOTS
(80)		0	TMELKSIZ	"TMELOCK1-TMELOCK2" SIZE OF ONE LOCK SLOT
(80)		0	TMENUMSL	"(TMELKEND-TMELKSTR)/ TMELKSIZ" NUMBER OF SLOTS ACCORDING TO DSECT

Table 679. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(80)		0	TMELSIZE	"*-DFHTMELD" SIZE OF READ LOCK BLOCK

TMRQ Table Manager Parameter List

```
CONTROL BLOCK NAME = DFHTMRQ
DESCRIPTIVE NAME  = CICS Table Manager Parameter List
 @BANNER_START 04
 OCO Source Materials DFHTMRQ
 5655-S97
 The source code for the program is not published
 or otherwise divested of its trade secrets,
 irrespective of what has been deposited with the
 @BANNER_END
 FUNCTION =
     The table management parameter list holds information passed
     from a calling routine to DFHTMP. It also holds the response
     code and working storage for DFHTMP.
 LIFETIME =
 STORAGE CLASS =
 LOCATION =
 INNER CONTROL BLOCKS =
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
  MODULE TYPE = Control block definition
 ----------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
   CONTROL BLOCKS =
   GLOBAL VARIABLES (Macro pass) =
 ----------------------------------------------------------------
```

Table 680.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	TMRQLIST	
(0)	UNSIGNED	4	TMRQTW1	Trace data
(0)	UNSIGNED	1	TMRQTR	Request type
(1)	BIT(8)	1	TMRQRM	Request modifier
	1...		TMRQRMCM	Commit immediately
	.1..		TMRQRMLL	Local lock operation
	..1.		TMRQRMNC	Do not copy table entry
	...1		TMRQRMNF	Entry storage fixed
	.... 1...		TMRQNOLK	Do not lock entry
	.... .1..		TMRQRMCN	Conditional request
	.... .1..		TMRQRNXB	Get Next Best
	.... ..1.		TMRQRMUL	Getnext unlock
	1		TMRQRMNU	Non-unique entries allowed
	1		TMRQRBTE	Browse token exists

Table 680. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	UNSIGNED	1	TMRQTTC	Table type code
(3)	UNSIGNED	1	TMRQRC	Response code
(4)	ADDRESS	4	TMRQKEYP	Address of key
(4)	HALFWORD	2	TMRQHASH	Initial hash table size
(8)	ADDRESS	4	TMRQATE	Address of table entry
(8)	ADDRESS	4	TMRQRLDA	Address of lock data list
(8)	HALFWORD	2	TMRQKEYL	Key length
(A)	HALFWORD	2	TMRQMLLN	Max average locate length
(C)	ADDRESS	4	TMRQALIP	Address of alias name
(C)	HALFWORD	2	*	Reserved
(E)	UNSIGNED	1	TMRQTTCP	Primary table type
(10)	ADDRESS	4	TMRQBRTK	Address of browse tok
(10)	HALFWORD	2	TMRQTEL	Table entry length
(10)	UNSIGNED	1	TMRULRC	Reason code (Unlock)

Constants

Table 681.

Len	Type	value	Name	Description
Table Type Code Values				
1	DECIMAL	1	TMRQPCT	PCT entries
1	DECIMAL	2	TMRQPCTR	PCT remote entries
1	DECIMAL	3	TMRQPPT	PPT entries
1	DECIMAL	4	TMRQPFT	PFT entries
1	DECIMAL	5	TMRQFCT	FCT entries
1	DECIMAL	6	TMRQDCT	DCT entries
1	DECIMAL	7	TMRQTCTE	TCT terminal entries
1	DECIMAL	8	TMRQTCTN	TCT skeleton entries
1	DECIMAL	9	TMRQTCTS	TCT system entries
1	DECIMAL	10	@NM00002	Reserved
1	DECIMAL	11	TMRQDSN	DSNAME blocks
1	DECIMAL	12	TMRQDSNA	DSNAME alternate index
1	DECIMAL	13	TMRQPRT	PRT entries
1	DECIMAL	14	TMRQTPNT	TPNT entries
1	DECIMAL	15	TMRQTCNT	TCNT entries
1	DECIMAL	16	TMRQAITM	AITM entries

Table 681. (continued)

Len	Type	value	Name	Description
1	DECIMAL	17	TMRQSNT	SNT entries
1	DECIMAL	18	TMRQTCSE	TCSE entries
1	DECIMAL	19	TMRQTCSR	TCSR entries
1	DECIMAL	20	TMRQTCSI	TCSI entries
1	DECIMAL	21	TMRQTCSN	TCSN entries
1	DECIMAL	22	TMRQTCTR	TCTR entries
1	DECIMAL	23	TMRQTCSM	TCSM entries
1	DECIMAL	24	TMRQTCNR	TCNR entries
Request Byte Values				
1	DECIMAL	1	TMRQLOC	Locate
1	DECIMAL	2	TMRQGTN	Get Next
1	DECIMAL	3	TMRQGNA	Get Next Alias
1	DECIMAL	4	TMRQADD	Add
1	DECIMAL	5	TMRQDEL	Delete
1	DECIMAL	6	TMRQALI	Alias
1	DECIMAL	7	TMRQLOK	Lock
1	DECIMAL	8	TMRQULK	Unlock
1	DECIMAL	9	TMRQCRI	Create index
1	DECIMAL	10	TMRQNDX	Index
1	DECIMAL	11	TMRQQUI	Quiesce
1	DECIMAL	13	TMRQDWE	DWE
1	DECIMAL	14	TMRQRST	Reset
1	DECIMAL	15	TMRQUNQ	Unquiesce
1	DECIMAL	16	TMRQGSK	Get secondary key
Response Code Values				
1	DECIMAL	0	NORMRESP	Normal response
1	DECIMAL	4	NOTFND	Not found
1	DECIMAL	8	DUPFND	Duplicate found
1	DECIMAL	12	INVREQ	Invalid request
1	DECIMAL	16	TEBUSY	Table entry busy
1	DECIMAL	20	PROTECT	Protected entry
1	DECIMAL	24	RLHELD	Read lock held
1	DECIMAL	28	RLNOTED	Read lock noted
1	DECIMAL	32	NORLHELD	No read lock now

TMSKT Table Manager Scatter Table

```
CONTROL BLOCK NAME = DFHTMSKT
DESCRIPTIVE NAME  = CICS Table Manager Scatter Table.
 @BANNER_START 02
                        DFHTMSKT
Licensed Materials - Property of IBM
```

```
                    "Restricted Materials of IBM"
                    5655-S97
                    @BANNER_END
               FUNCTION =
                    The table management scatter table holds pointers to
                    directory elements for use by the Table Manager Program.
                    TMASKTx in the table management static storage area holds
                    the address of this area.
               LIFETIME =
                    It exists for the duration of the CICS System.
                    Storage for the scatter table (for each CICS table supported
                    by the table manager) is allocated at CICS initialisation.
                    However, the table manager reserves the right to dynamically
                    rehash a scatter table when TMCOUNT (the number of table
                    entries) is greater than or equal to TMTRIGR (triger value
                    for rehash). During rehash, storage (above the 16M line) is
                    acquired for the new hash table, and storage used by the old
                    hash table is released.
               STORAGE CLASS =
                    Shared storage above the 16M line.
               LOCATION =
                    Pointed to by TMASKTx in the table manager static storage.
               INNER CONTROL BLOCKS = None.
               NOTES :
                DEPENDENCIES = S/370
                RESTRICTIONS = None.
                MODULE TYPE = Control block definition
               ----------------------------------------------------------------
               EXTERNAL REFERENCES = None.
                 DATA AREAS = None.
                 CONTROL BLOCKS = None.
                 GLOBAL VARIABLES (Macro pass) = None.
               ----------------------------------------------------------------
```

Table 682.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	SKTTBLE	Scatter table
Standard header				
(0)	CHARACTER	20	SKTHDR	Standard header
(0)	FULLWORD	4	SKTLNTH	Total length of table
(4)	CHARACTER	1	SKTARRW	Eye-catcher part 1: >
(5)	CHARACTER	3	SKTDFH	Eye-catcher part 2: DFH
(8)	CHARACTER	2	SKTTM	Eye-catcher part 3: TM
(A)	CHARACTER	8	SKTEYEC	Block id: 'SCATTER '
(12)	HALFWORD	2	*	Reserved
Scatter table information				
(14)	CHARACTER	28	SKTINFO	Scatter table information
(14)	BIT(8)	1	SKTFLAG1	Flag byte 1
	1...		SKTNUEA	Non-unique entries allowed
	.111 1111		*	Reserved
(15)	BIT(8)	1	SKTFLAG2	Flag byte 2
(15)	BIT(8)	1	*	Reserved

Table 682. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(16)	UNSIGNED	1	SKTTTC	Table type code
(17)	UNSIGNED	1	SKTTTCP	Table type code for primary
(18)	HALFWORD	2	SKTDELN	Directory entry length
(1A)	HALFWORD	2	SKTKEYLN	Length of key
(1C)	FULLWORD	4	SKTMAXN	Maximum number of entries
(20)	ADDRESS	4	SKTDIRSA	First directory segment ptr
(24)	ADDRESS	4	SKTFDEA	First directory element ptr
(28)	ADDRESS	4	SKTFRDE	First free dir element ptr
(2C)	FULLWORD	4	SKTNUMDS	# directory segments
(30)	CHARACTER	16	SKTRANGE	GetNext Range-Table
(30)	FULLWORD	4	SKTRNG_NUM	Number of ranges
(34)	ADDRESS	4	SKTRNG_ADDR	Address of Range Table
(38)	FULLWORD	4	SKTRNG_SIZE	optimal size of rngs
(3C)	FULLWORD	4	SKTRNG_USED	Num of slots in use
Scatter table pointers				
(40)	ADDRESS	4	SKTDIREA (*)	Hash table ptr to dir elems

Range table pointers

Table 683.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	SKTRANGES	Range Table
(0)	CHARACTER	8	SKTRNG_HEAD	Buffer to spot errors
(8)	CHARACTER	8	SKTRNGE (*)	Get Next Range Table
(8)	FULLWORD	4	SKTRNG_COUNT	Num of elems in rng-1
(C)	ADDRESS	4	SKTRNG_PTR	Pointer to rng start

TMS Table Manager Static Storage Area

```
CONTROL BLOCK NAME = DFHTMSSA
DESCRIPTIVE NAME  = CICS Table Manager Static Storage Area.
 @BANNER_START 02
                    DFHTMSSA
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
 FUNCTION =
     The table management static storage area holds global data
     for the Table Manager Program. SSATMP in the CSA's static
```

```
                  storage area list holds the address of this area.
            LIFETIME =
                 It is allocated and initialised to hex zeroes at
                 initialisation time. It has the lifetime of the CICS
                 System.
            STORAGE CLASS =
                 CICS Static Storage.
            LOCATION =
                 Addressed by SSATMP in the Static Storage Address List.
            INNER CONTROL BLOCKS = None.
            NOTES :
             DEPENDENCIES = S/370
             RESTRICTIONS = None.
             MODULE TYPE = Control block definition
            ---------------------------------------------------------------
            EXTERNAL REFERENCES = None.
              DATA AREAS = None.
              CONTROL BLOCKS = None.
              GLOBAL VARIABLES (Macro pass) = None.
            ---------------------------------------------------------------
```

Table 684.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1124	TMSTATIC	Static storage for TMP
(0)	BIT(8)	1	*	Reserved
(1)	BIT(16)	2	*	Reserved
(3)	UNSIGNED	1	*	Reserved
(4)	FULLWORD	4	*	Reserved

<pre>   Table types and position in TMATTV array
     1- Reserved
     2- Reserved
     3- Reserved
     4- PFT
     5- FCT
     6- Reserved
     7- TCTE
     8- TCTN
     9- TCTS
    10- AFCT
    11- DSN
    12- DSNA
    13- PRT
    14- Reserved
    15- TCNT
    16- AITM
    17- SNT
    18- TCSE
    19- TCSR
    20- TCSI
    21- TCSN
    22- TCTR
    23- TCSM
    24- TCNR</pre>				

(8)	CHARACTER	32	TMATTV (4294967320:130364504)	Array of table info
(8)	ADDRESS	4	TMASKT	Address of scatter table
(C)	HALFWORD	2	TMNDESG	# elements per segment

Table 684. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E)	HALFWORD	2	*	Reserved
(10)	FULLWORD	4	TMHSIZE	HASH table size
(14)	FULLWORD	4	TMCOUNT	Num. of entries
(18)	FULLWORD	4	TMTRIGR	Trigger value to rehash
(1C)	BIT(16)	2	TMBITS	Miscellaneous flags
	1...		TMREHASH	Re-hash of table required
(1C)	BIT(15) POS(2)	2	*	Reserved
(1E)	BIT(16)	2	*	Reserved
(20)	ADDRESS	4	TMABORD	Alphabetical ordering position
(24)	FULLWORD	4	TMRNGPOS	Range index
(308)	ADDRESS	4	TMENQHLD	TCA address of enqueuer
(30C)	ADDRESS	4	TMQEQHD	Quiesce enqueue chain ptr.
(310)	ADDRESS	4	*	Reserved
(314)	ADDRESS	4	TMCLHD	Change list head of chain
(318)	ADDRESS	4	TMCLLAST	Change list latest element
Global lock block				
(31C)	CHARACTER	132	TMGRLSEG	First segment global locks
(31C)	ADDRESS	4	TMGLCHPT	Pointer to next block
(320)	CHARACTER	8	TMGLLOCK (4294967312:130368704)	First segment global locks
(320)	ADDRESS	4	TMGLVALU	Value of lock
(324)	UNSIGNED	4	TMGLCNT	Count of locks
Last rehash time for each table				
(3A0)	BIT(64)	8	TMRHTIME (4294967320:130363392)	
(460)	ADDRESS	4	TMLOCK_TOKEN	Lock token for TM
(464)	CHARACTER	0	TMSTATLN	Define end of block

TPE Terminal partition extension

```
       MODULE NAME = DFHTPE
        DESCRIPTIVE NAME  = CICS TERMINAL PARTITION EXTENSION
                      DUAL LANGUAGE DSECT
         @BANNER_START 02
                        DFHTPE
        Licensed Materials - Property of IBM
        "Restricted Materials of IBM"
```

```
       5655-S97
       @BANNER_END
   FUNCTION = DEFINES THE TCTTE PARTITION EXTENSION. CHAINED OFF
             THE TCTTE BMS EXTENSION IF THE TERMINAL SUPPORTS
             PARTITIONS. BUILT BY THE DFHTCTPR MACRO.
   NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = NONE
    REGISTER CONVENTIONS = NOT APPLICABLE
    PATCH LABEL = NOT APPLICABLE
    MODULE TYPE = DSECT
    MODULE SIZE = NOT APPLICABLE
    ATTRIBUTES = DSECT
   ENTRY POINT = NOT APPLICABLE
    PURPOSE = DEFINE THE TCTTE PARTITION EXTENSION
    LINKAGE = NOT APPLICABLE
   INPUT = NOT APPLICABLE
   OUTPUT = NOT APPLICABLE
   EXIT-NORMAL = NOT APPLICABLE
   EXIT-ERROR = NOT APPLICABLE
   EXTERNAL REFERENCES = NONE
    CONTROL BLOCKS = NOT APPLICABLE
    TABLES = NOT APPLICABLE
    MACROS = NONE
   PLSSTART
```

Table 685.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	DFHTPE	DUMMY SECTION - TCT PARTITION EXTENSION
(0)	CHARACTER	0	TPESTART	START OF DEFINITION
(0)	HALFWORD	2	TPELL	LENGTH OF EXTENSION SET BY DFHTCT MACRO
(2)	BIT(8)	1	TPEFLG1	FLAG BYTE - SET BY DFHTCT. DEFAULT IS OFF FOR ALL FLAGS
	1...		*	
	.1..		*	
	..1.		*	
	...1		*	Reserved
	.... 1...		TPEVCHAR	CHARACTER CELL SIZE ON A PARTITION BASIS
(3)	CHARACTER	17	TPEPSETS	NAME FOR TERMINAL SHARING CODE TO SHIP PSET NAMES
(3)	CHARACTER	8	TPECPSET	UNSUFFIXED NAME OF THE CURRENT (OR APPLICATION) PARTITION SET
(3)	CHARACTER	6	TPECPST6	APPL PSET NAME FOR DFHEEI

Table 685. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9)	CHARACTER	2	*	RESERVED
(B)	CHARACTER	9	TPETPSET	TERMINAL PARTITION SET
(B)	CHARACTER	8	TPELPSET	UNSUFFIXED NAME OF THE LOADED (OR TERMINAL) PARTITION SET ZERO IF TERMINAL IN BASE STATE. BLANK IF TERMINAL STATE IS IN DOUBT
(13)	BIT(8)	1	TPEFLG2	DYNAMIC FLAG BYTE
	1...		TPELPER	TERMINAL PSET HAS AN ERROR MESSAGE PARTITION

TQG Transient data global statistics

```
            CONTROL BLOCK NAME = DFHTQGDS
            DESCRIPTIVE NAME  = CICS Global statistics for Transient data.
               @BANNER_START 02

                              DFHTQGDS
               Licensed Materials - Property of IBM
               "Restricted Materials of IBM"
               5655-S97
               @BANNER_END
            FUNCTION = This data block describes the global transient data
                       Statistics.
                       The data described here is placed in storage by DFHAPST.
                       This DSECT is also used by DFHSTUP and user programs to
                       to map the statistics block.
            LIFETIME = The storage area is created when a request for AP
                       domain Transient data statistics is received. It is
                       released when the caller has acknowledged receipt of the
                       data.
            LOCATION = The caller is passed a pointer to the head of the block.
            INNER CONTROL BLOCKS = None
            NOTES :
               DEPENDENCIES = S/370
               RESTRICTIONS = None
               MODULE TYPE = Control block definition
            ----------------------------------------------------------------
            EXTERNAL REFERENCES = None
                DATA AREAS = None
                CONTROL BLOCKS = DFHMBCDS MBCANBFA
                                 DFHMBCDS MBCACNIU
                                 DFHMBCDS MBCAMXIU
                                 DFHMBCDS MBCATNAL
                                 DFHMBCDS MBCACNAL
                                 DFHMBCDS MBCAMXAL
                                 DFHMBCDS MBCATNWT
                                 DFHMBCDS MBCACNWT
                                 DFHMBCDS MBCAMXWT
                                 DFHMRCDS MBCACISZ
                                 DFHMRCDS MBCANCIS
```

```
                         DFHMRCDS MBCACTCI
                         DFHMRCDS MBCAMXCI
                         DFHMRCDS MBCANOSP
                         DFHMRCDS MBCACTPT
                         DFHMRCDS MBCACTFT
                         DFHMRCDS MBCACTGT
                         DFHMRCDS MBCACTIO
                         DFHMRCDS MBCANSTA
                         DFHMRCDS MBCATNAL
                         DFHMRCDS MBCACNAL
                         DFHMRCDS MBCAMXAL
                         DFHMRCDS MBCATNWT
                         DFHMRCDS MBCACNWT
                         DFHMRCDS MBCAMXWT
              GLOBAL VARIABLES (Macro pass) = None
      -------------------------------------------------------------------
```

Table 686.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTQGDS	Transient data statistics (GLOBAL)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	TQGLEN	Length of data area
(0)	SIGNED	0	TQGIDE	"45" Transient data stats id mask
(2)	ADDRESS	2	TQGID	Transient data id
(2)	BITSTRING	0	TQGVERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	TQGDVERS	Statistics version number
(5)	CHARACTER	3		Reserved
Intrapartition Buffer Stats				
(8)	FULLWORD	4	TQGANBFA	Number of Buffers
(C)	FULLWORD	4	TQGAMXIU	Peak containing valid data
(10)	FULLWORD	4	TQGATNAL	Times buffer accessed
(14)	FULLWORD	4	TQGAMXAL	Peak concurrent access
(18)	FULLWORD	4	TQGATNWT	Times buffer wait occured
(1C)	FULLWORD	4	TQGAMXWT	Peak buffer waits
Intrapartition dataset stats				
(20)	FULLWORD	4	TQGACISZ	Control interval size
(24)	FULLWORD	4	TQGANCIS	No. of control intervals
(28)	FULLWORD	4	TQGAMXCI	Peak No. Control intervals used
(2C)	FULLWORD	4	TQGANOSP	Times NOSPACE occurred
(30)	FULLWORD	4	TQGACTPT	No. of writes to dataset

Table 686. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	FULLWORD	4	TQGACTGT	No. of reads from dataset
(38)	FULLWORD	4	TQGACTFT	No. formatting writes
(3C)	FULLWORD	4	TQGACTIO	No. of I/O errors
Stats for Multiple strings				
(40)	FULLWORD	4	TQGSNSTA	Number of strings
(44)	FULLWORD	4	TQGSTNAL	Times string accessed
(48)	FULLWORD	4	TQGSMXAL	Peak concurrent accesses
(4C)	FULLWORD	4	TQGSTNWT	Times string wait occurred
(50)	FULLWORD	4	TQGSMXWT	Peak string waits
Current Transient Data statistics				
(54)	FULLWORD	4	TQGACNAL	Current concurrent buffer access
(58)	FULLWORD	4	TQGACNWT	Current buffer waits
(5C)	FULLWORD	4	TQGACNIU	Current buffers containing valid data
(60)	FULLWORD	4	TQGSCNAL	Current concurrent string access
(64)	FULLWORD	4	TQGSCNWT	Current string waits
(68)	FULLWORD	4	TQGACTCI	No. of Control intervals in use
(68)		0	TQGEND	"*"
(68)		0	TQGCLEN	"*-TQGLEN" Length of DSECT

TQR Transient data statistics

```
CONTROL BLOCK NAME = DFHTQRDS
DESCRIPTIVE NAME  = CICS Transient Data Queue Statistics
   @BANNER_START 02
                        DFHTQRDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
       CICS level at which this module was last updated
FUNCTION =
       This data area contains TD Queue statistics provided by the
       Transient Data functional area.
       It is provided for use in users monitoring applications
       to map the statistics returned via the APi, the statistics
       exit, or offline formatting products.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the Transient Data functional
       area to store statistics to be passed to the user in
       response to a request for statistics. The storage is
       released when the user task is detached.
STORAGE CLASS =
```

```
          LOCATION =
                The user is passed a pointer to the head of the storage
                block.
          INNER CONTROL BLOCKS = none
          NOTES :
             DEPENDENCIES = S/370
             RESTRICTIONS = none
             MODULE TYPE = Domain call buffer
          -------------------------------------------------------------------
          EXTERNAL REFERENCES = none
             DATA AREAS = none
             CONTROL BLOCKS = from Transient Data
             GLOBAL VARIABLES (Macro pass) = none
          -------------------------------------------------------------------
          ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHTQRDS IS
          NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
          PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 687.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTQRDS	Transient Data Queue statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	TQRLEN	Length of data area
(0)	SIGNED	0	TQRIDE	"0042" TD Queue resid statistics id mask
(2)	ADDRESS	2	TQRID	TD Queue resid statistics id
(2)	BITSTRING	0	TQRVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	TQRDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	4	TQRQID	TD Queue identifier
(C)	BITSTRING	1	TQRQTYPE	TD Queue destination type
(D)	CHARACTER	3		Reserved
(10)	FULLWORD	4	TQRWRITE	Total writes to queue
(14)	FULLWORD	4	TQRREAD	Total reads from queue
(18)	FULLWORD	4	TQRDELET	Total deletes of queue
Intrapartition specific fields.				
(1C)	HALFWORD	2	TQRTRIGL	ATI tranid trigger level
(1E)	BITSTRING	1	TQRRTYPE	Recovery type
(1F)	BITSTRING	1	TQRFTYPE	ATI facility type
(20)	CHARACTER	4	TQRFNAME	ATI facility name
(24)	BITSTRING	1	TQRWAIT	Indoubt waiting supported
(25)	BITSTRING	1	TQRWAITA	Indoubt action (reject/queue)
(26)	CHARACTER	2		Reserved

Table 687. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(28)	CHARACTER	4	TQRATRAN	ATI tranid
(2C)	FULLWORD	4	TQRTRIGN	Number of triglev triggers
(30)	FULLWORD	4	TQRCCIUS	Current CI's in use by this queue
(34)	FULLWORD	4	TQRPCIUS	Peak CI's in use by this queue
(38)	FULLWORD	4	TQRCNITM	Current number of items in queue
Remote specific fields.				
(3C)	CHARACTER	4	TQRRSYS	Remote sysid
(40)	CHARACTER	4	TQRRQID	Remote Queue identifier
Indirect specific fields.				
(44)	CHARACTER	4	TQRIQID	Indirect Queue identifier
Extrapartition specific fields.				
(48)	BITSTRING	1	TQRIOTYP	I/O Type (input/output/ readback)
(49)	CHARACTER	3		Reserved
(4C)	CHARACTER	8	TQRDDNM	DD name of Extrapartition queue
(54)	CHARACTER	44	TQRDSNNM	Dataset name of Extrapartition Queue
(80)	CHARACTER	8	TQRPDSMN	PDS member name
(88)	CHARACTER	8	TQR_DEFINE_ SOURCE	Group installed from
(90)	BITSTRING	8	TQR_CHANGE_TIME	Change/create time
(98)	CHARACTER	8	TQR_CHANGE_ USERID	Change userid
(A0)	BITSTRING	2	TQR_CHANGE_AGENT	Change agent
(A2)	BITSTRING	2	TQR_INSTALL_ AGENT	Install agent
(A4)	BITSTRING	8	TQR_INSTALL_TIME	Install/Create time
(AC)	CHARACTER	8	TQR_INSTALL_ USERID	Install userid
(B4)	CHARACTER	8		Reserved
(B4)		0	TQREND	"*"
(B4)		0	TQRCLEN	"*-TQRLEN" Length of dsect
Equates to test TD Queue type (TQRQTYPE).				
(B4)	SIGNED	0	TQRQTEXT	"1" Extrapartition Queue

Table 687. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B4)	SIGNED	0	TQRQTINT	"2" Intrapartition Queue
(B4)	SIGNED	0	TQRQTIND	"3" Indirect Queue
(B4)	SIGNED	0	TQRQTREM	"4" Remote Queue
Equates to test TD Facilty type for ATI (TQRFTYPE).				
	....		TQRFTNA	"0" Not Applicable
(B4)	SIGNED	0	TQRFTTRM	"1" Terminal
(B4)	SIGNED	0	TQRFTSYS	"2" System
(B4)	SIGNED	0	TQRFTNTE	"3" No terminal
Equates to test Extrapartition I/O type (TQRIOTYP).				
	....		TQRIONA	"0" Not Applicable
(B4)	SIGNED	0	TQRIOIN	"1" Input
(B4)	SIGNED	0	TQRIOOUT	"2" Output
(B4)	SIGNED	0	TQRIORDB	"3" Readback
Equates to test Recovery type of queue (TQRRTYPE).				
	....		TQRRTNA	"0" Not Applicable
(B4)	SIGNED	0	TQRRTPH	"1" Physical recoverable
(B4)	SIGNED	0	TQRRTLG	"2" Logical recoverable
(B4)	SIGNED	0	TQRRTNR	"3" Non-recoverable
Equates to test indoubt wait option for queue (TQRWAIT).				
	....		TQRWTNA	"0" Not Applicable
(B4)	SIGNED	0	TQRWTYES	"1" Queue supports indoubt waiting
(B4)	SIGNED	0	TQRWTNO	"2" Does not support indoubt waiting
Equates to test indoubt wait action for queue (TQRWAITA).				
	....		TQRWANA	"0" Not Applicable
(B4)	SIGNED	0	TQRWAREJ	"1" Further requests will be rejected
(B4)	SIGNED	0	TQRWAQUE	"2" Further requests will be queued
Equates to test change agent for queue (TQR_CHANGE_AGENT).				
(B4)	SIGNED	0	TQR_CSDAPI_ CHANGE	"0001" CSD API
(B4)	SIGNED	0	TQR_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(B4)	SIGNED	0	TQR_DREPAPI_ CHANGE	"0003" DREP API
(B4)	SIGNED	0	TQR_CREATE_ CHANGE	"0004" EXEC CREATE SPI

Table 687. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B4)	SIGNED	0	TQR_SYSTEM_ CHANGE	"0007" SYSTEM
Equates to test install agent for queue (TQR_INSTALL_AGENT).				
(B4)	SIGNED	0	TQR_CSDAPI_ INSTALL	"0001" CSD API
(B4)	SIGNED	0	TQR_CREATE_ INSTALL	"0004" EXEC CREATE SPI
(B4)	SIGNED	0	TQR_GRPLIST_ INSTALL	
				"0005" GRPLIST
(B4)	SIGNED	0	TQR_SYSTEM_ INSTALL	"0007" SYSTEM

TRA Trace domain - common structures

```
CONTROL BLOCK NAME = DFHTRA
DESCRIPTIVE NAME  = CICS Trace Domain - Common structures
                   and constants
 @BANNER_START 02
                        DFHTRA
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
 FUNCTION = Contains the structure for :-
          DFHTRA - TR anchor block
                            : from original within DFHTRDS
        TR domain Anchor Block storage definition
```

Table 688.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	276	DFHTRA	
(0)	CHARACTER	16	TRA_PREFIX	Standard control block prefix *
(0)	HALFWORD	2	TRA_LENGTH	Length of anchor block
(2)	CHARACTER	1	TRA_ARROW	'>'
(3)	CHARACTER	3	TRA_DFH	'DFH'
(6)	CHARACTER	2	TRA_DOMID	'TR'
(8)	CHARACTER	8	TRA_BLOCK_NAME	'ANCHOR'
(10)	CHARACTER	8	TRA_LOCK_BLOCK	Trace lock block for DFHKERN Doubleword align for CDS
(18)	ADDRESS	4	TRA_ATTACH_PLIST (4294967298:263630848)	Plist for DFHTRTCB subtask
(20)	CHARACTER	16	TRA_NAB_INFO	Quadword used for space allocation by CDSG in init

Table 688. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	ADDRESS	8	TRA_NAB	
Next byte in internal table				
(28)	UNSIGNED	8	TRA_AVLEN	Available in current block
(30)	UNSIGNED	4	TRA_INTTABSIZE	Internal trace table size
(34)	UNSIGNED	4	TRA_GUARD_SIZE	Size of table guard area
(38)	CHARACTER	16	TRA_TCBTOKEN	IARV64 TCB Token
(48)	CHARACTER	8	TRA_CELL_POOL_64	Trace 64-bit cell pool id
(50)	ADDRESS	8	TRA_INTTAB_PTR	
Address of start of table				
(58)	ADDRESS	8	TRA_ENDTAB_PTR	
1st byte after table				
(60)	ADDRESS	4	TRA_DFHTRAO_PTR	Aux output routines
(64)	ADDRESS	4	TRA_AUX_BUF_PTR	Aux trace buffer address
(68)	ADDRESS	4	TRA_AUX_DCB_PTR	Address of aux trace DCB
(6C)	UNSIGNED	4	TRA_AUX_DCB_LEN	Length of aux trace DCB
(70)	ADDRESS	4	TRA_AUX_DECB_PTR	Address of aux trace DECB
(74)	UNSIGNED	4	TRA_AUX_DECB_LEN	Length of aux trace DECB
(78)	CHARACTER	8	TRA_TIME_BASE	STCK at last local midnight *
(80)	CHARACTER	8	TRA_AUX_EXTENT	Current aux trace extent
(88)	UNSIGNED	1	TRA_AUTOSW_ STATUS	Autoswitch status
(89)	UNSIGNED	1	TRA_AUX_STATUS	Auxiliary trace status
(8A)	UNSIGNED	1	TRA_AUX_ INIT_STAT	Auxiliary trace initial status *
(8B)	UNSIGNED	1	*	Reserved
(8C)	BIT(32)	4	TRA_STATUS_FLAGS	Status flags
	1...		TRA_MASTER	Internal copy of master flag *
	.1..		TRA_INT_STATUS	Internal trace status
	..1.		TRA_GTF_STATUS	GTF trace status
	...1		TRA_LOCK_TABLE	Force use of table lock
	.... 1...		TRA_TRAP_ACTIVE	DFHTRAP active

Table 688. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		TRA_AUX_FIF	Next block first-in-file
	.... ..1.		TRA_AUX_EOF	Next block last-in-file
	1		TRA_AVAILABLE	Trace put available
(8D)	1...		TRA_TERMINATING	Trace domain terminating
	.1..		TRA_AUX_ IO_PENDING	
				Output to aux pending
	..1.		TRA_AUX_ DCB_DECB_OK	
				Acquired DCB/DECB initialised *
	...1		TRA_TRAO_ RLSE_REQD	
				RELEASE DFHTRAO required
	.... 1...		TRA_PA_ IN_CONTROL	Parameter Mgr in control
	.... .1..		TRA_TRAP_ UNUSABLE	DFHTRAP has prog checked
	.... ..1.		TRA_TRAP_ DISABLED	Requested disabled
	1		TRA_TRAP_ INIT_STAT	
				DFHTRAP initial status
(8E)	1...		TRA_INITIALISING	Trace domain initialising
	.1..		TRA_AUX_ STARTING	Aux trace starting
	..1.		TRA_RETAIN_ AUX_DCB	
				Retain DCB for future use
	...1		TRA_FT_ ERR_BEFORE	Prevent recurring FT errs
	.... 1...		TRA_TABLE	Table flag
(8E)	BIT(11) POS(6)	2	*	Reserved
(90)	ADDRESS	8	TRA_TRAP_WA_PTR	
DFHTRAP work area pointer				
(98)	ADDRESS	4	TRA_DFHTRAP_PTR	DFHTRAP entry point
(A0)	ADDRESS	8	TRA_GTF_BUF_PTR	
Address of GTF buffer				

Table 688. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A8)	UNSIGNED	4	TRA_ATS_ECB	For aux subtask to wait on
(AC)	UNSIGNED	4	TRA_MAIN_ECB	For CICS TCBs to wait on
(B0)	CHARACTER	72	TRA_ATS_REGSAVE	Aux subtask register save
(F8)	UNSIGNED	1	TRA_TRAO_REQ	DFHTRAO request byte
(F9)	UNSIGNED	1	TRA_TRAO_RC	DFHTRAO return code
(FA)	CHARACTER	2	*	Reserved
(FC)	ADDRESS	4	TRA_TRAO_PARMS	TRAO parameter list
(100)	ADDRESS	8	TRA_TRAO_BPTR	
TR block to be written				
(108)	UNSIGNED	4	TRA_AUX_ TERMINATE_ECB	
				Aux tracing terminate ECB
	1...		TRA_AUX_ TERM_ECB_WAIT	
				WAIT BIT
	.1..		TRA_AUX_ TERM_ECB_POST	
				POST BIT
	..11 1111		*	Reserved
(109)	CHARACTER	3	*	Reserved
(10C)	ADDRESS	4	TRA_ATS_TCB	Aux subtask TCB address
(110)	ADDRESS	4	TRA_SM_ ISOLATION_TOKEN	
				Isolation token

Constants

Table 689.

Len	Type	value	Name	Description
Values for TRA_TRAO_REQ				
1	DECIMAL	1	TRA_TRAO_TERM	
1	DECIMAL	2	TRA_TRAO_OPEN	
1	DECIMAL	3	TRA_TRAO_CLOSE	
1	DECIMAL	4	TRA_TRAO_WRITE	
1	DECIMAL	5	TRA_TRAO_CHECK	
Values for TRA_TRAO_RC				

Table 689. (continued)

Len	Type	value	Name	Description
1	DECIMAL	1	TRA_TRAO_OK	
1	DECIMAL	2	TRA_TRAO_INVALID	
1	DECIMAL	3	TRA_TRAO_OPEN_FAILED	
1	DECIMAL	4	TRA_TRAO_ END_OF_EXTENT	
1	DECIMAL	5	TRA_TRAO_AUX_ABEND	
1	DECIMAL	6	TRA_TRAO_ AUX_IO_ERROR	
1	DECIMAL	7	TRA_TRAO_ DCB_NOT_FOUND	
Values for TRA_INT_STATUS				
0	BIT	1	TRA_INT_STARTED	
0	BIT	0	TRA_INT_STOPPED	
Values for TRA_AUX_STATUS				
1	DECIMAL	1	TRA_AUX_STARTED	
1	DECIMAL	2	TRA_AUX_STOPPED	
1	DECIMAL	3	TRA_AUX_PAUSED	
Values for TRA_GTF_STATUS				
0	BIT	1	TRA_GTF_STARTED	
0	BIT	0	TRA_GTF_STOPPED	
Values for TRA_AUTOSW_STATUS				
1	DECIMAL	1	TRA_AUTOSW_OFF	
1	DECIMAL	2	TRA_AUTOSW_ONCE	
1	DECIMAL	3	TRA_AUTOSW_ CONTINUOUS	

TRAP trace parameter list

```
CONTROL BLOCK NAME = DFHTRADS
DESCRIPTIVE NAME  = CICS Parameter List to DFHTRAP
   @BANNER_START 02

                      DFHTRADS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
    Defines the parameter list passed from DFHTRPT
    to the F.E. Global Trap/Trace Exit Program DFHTRAP.
LIFETIME =
    The parameter list is created by DFHTRPT immediately
    prior to invoking DFHTRAP. Its contents are valid for
    the duration of the call to DFHTRAP.
STORAGE CLASS =
    The parameter list to DFHTRAP is in storage MVS GETMAIN'd
    above the 16M line by DFHTRSR.
LOCATION =
    The parameter list is in the Global Trap Work Area
```

```
                    whose format is described by DFHTRGTW. This work area
                    is addressed from TRA_TRAP_WA_PTR in the TR domain anchor
                    block.
           INNER CONTROL BLOCKS =
               None
         NOTES :
            DEPENDENCIES = S/370
            RESTRICTIONS = None
            MODULE TYPE = Control block definition
         EXTERNAL REFERENCES =
            DATA AREAS =
               This control block references no operating system data
               areas.
            CONTROL BLOCKS =
               This control block references no other control blocks.
            GLOBAL VARIABLES (Macro pass) =
               This control block definition references no global
               variables.
                                        PERSONNEL
                                        adding a PL/AS version
```

Table 690.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	120	DFHTRADS	DUMMY SECTION - PLIST TO TRAP

TRAFLGSA - Address of return actions flag word
Return actions flag settings are in the byte addressed from
field TRAFLGSA in the parameter list to DFHTRAP.
The individual flag settings are as follows :
TRAPFTRE EQU X'80' .. Make further trace entry on
                      behalf of trap exit using data
                      below the bar
TRAPDUMP EQU X'40' .. Take a system dump
TRAPTR64 EQU X'20' .. Make further trace entry on behalf
                      of trap exit using 64-bit data
TRAPCABD EQU X'10' .. Abend CICS (with a dump)
TRAPDISA EQU X'08' .. Disable trap so that it cannot
                      be used until reactivated
TRAPDMPL EQU X'04' .. Take a system dump holding the
                      trace lock
Any combination of these flags may be set and wherever possible
all requested actions will be honoured upon return to the trace
domain.
Note also that the trap will be disabled when requests to abend
CICS are returned.				

(0)	ADDRESS	8	TRAFLGSA	A(Return actions flag word) *
(8)	ADDRESS	8	*	Reserved
TRACURTA - Address of current entry in internal trace table This field points to the trace entry constructed by DFHTRPT on the same invocation for which it is calling DFHTRAP. This entry should not be modified by DFHTRAP. Its structure is mapped by the DSECT DFHTREN.				
(10)	ADDRESS	8	TRACURTA	A(Current entry)
TRAWORKA - Address of 80-byte work area for DFHTRAP. This work area is acquired when DFHTRAP is activated and is not changed by CICS until DFHTRAP is de-activated, so it may be used for saving information between invocations of DFHTRAP				
(18)	ADDRESS	8	TRAWORKA	A(80-byte work area)

Table 690. (continued)

Offset Hex	Type	Len	Name (dim)	Description
TRAD1A/L, TRAD2A/L and TRAD3A/L These six fields are used in conjunction with the setting of TRAPFTRE in the return actions flag byte. This flag indicates that DFHTRPT should make a further trace entry. TRADnA/L are address and length pairs for the data fields to be included in this entry. If TRAPFTRE is set, DFHTRPT examines the length fields in turn. All fields up to the first with a zero length will be included in the extra trace entry. A matching set of address/length pairs TRADnA_64/L_64 are provided to allow the trap to pass data above the bar.				
(20)	CHARACTER	72	TRATRDAT	Total length of data fields
(20)	ADDRESS	4	TRAD1A	Address of DATA1 information
(24)	UNSIGNED	4	TRAD1L	Length of DATA1 information
(28)	ADDRESS	4	TRAD2A	Address of DATA2 information
(2C)	UNSIGNED	4	TRAD2L	Length of DATA2 information
(30)	ADDRESS	4	TRAD3A	Address of DATA3 information
(34)	UNSIGNED	4	TRAD3L	Length of DATA3 information
(38)	ADDRESS	8	TRAD1A_64	64-bit address for DATA1
(40)	UNSIGNED	8	TRAD1L_64	64-bit length for DATA1
(48)	ADDRESS	8	TRAD2A_64	64-bit address for DATA2
(50)	UNSIGNED	8	TRAD2L_64	64-bit length for DATA2
(58)	ADDRESS	8	TRAD3A_64	64-bit address for DATA3
(60)	UNSIGNED	8	TRAD3L_64	64-bit length for DATA3
TRACSAAD - CSA address The address of the CSA or zero. This will only be zero for invocations of DFHTRAP early in initialisation (before the CSA has been set up).				
(68)	ADDRESS	4	TRACSAAD	CSA address
TRATCAAD - TCA address The address of the current TCA or zero. This will be zero when running under other than the quasi-reentrant TCB, or when running under a non-transaction manager type task.				
(6C)	ADDRESS	4	TRATCAAD	TCA address
TRARSAAD - Register save area address The address of the register save area that R13 will point to during the invocation of DFHTRAP.				
(70)	ADDRESS	8	TRARSAAD	RSA address

Table 690. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(78)	CHARACTER	0	TRAEND	Ending address

TRBL Trace domain - common structures

```
                       CONTROL BLOCK NAME = DFHTRBL
                       DESCRIPTIVE NAME  = CICS Trace Domain - Common structures
                                          and constants
                       @BANNER_START 02
                                         DFHTRBL
                       Licensed Materials - Property of IBM
                       "Restricted Materials of IBM"
                       5655-S97
                       @BANNER_END
                                                 from original within DFHTRDS
                       FUNCTION = Contains the structure for :-
                               DFHTRBL - TR internal table block
                       The internal trace table consists of blocks of this format
                       chained in a loop. The auxiliary trace dataset blocks are
                       also of this format, except that the first twelve bytes
                       contain the date and the date format.
```

Table 691.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4096	DFHTRBL	Trace block
(0)	CHARACTER	32	TRBL_HEADER	Block header
(0)	CHARACTER	20	*	
(0)	CHARACTER	20	TRBL_CHAIN	
(0)	ADDRESS	8	TRBL_FWD	Forward chain
(8)	ADDRESS	8	TRBL_BWD	Backward chain
(10)	ADDRESS	4	*	Reserved
(0)	CHARACTER	20	TRBL_AUX	Aux trace header
(0)	CHARACTER	3	TRBL_DATE	Date of trace start
(3)	CHARACTER	8	TRBL_APPLID	Specific APPLID
(B)	CHARACTER	1	TRBL_DATE_ FORMAT	
				Date format
(C)	CHARACTER	8	*	Reserved
(14)	CHARACTER	4	TRBL_FLAGS	Flags - always zero in table
	1...		TRBL_EOF	End-of-file block for aux
	.1..		TRBL_FIF	First-in-file block for aux
(14)	BIT(30) POS(3)	4	*	Reserved
(18)	CHARACTER	8	TRBL_TIME_BASE	STCK at last local midnight
(20)	CHARACTER	4064	TRBL_DATA	Rest of block is data

Constants

Table 692.

Len	Type	value	Name	Description
	Various constants			
4	DECIMAL	4096	TRBLOCK_SIZE	Size of trace blocks
4	DECIMAL	4064	TRBLOCK_DATALIM	Maximum data in one block
4	DECIMAL	16384	MIN_TABLE_SIZE	Minimum size for internal..
4	DECIMAL	1048576	MAX_TABLE_SIZE	Maximum size for ...
2	DECIMAL	256	GTF_MAX	Maximum length of GTF entries
0	BIT	1	ON	
0	BIT	0	OFF	
0	BIT	1	YES	
0	BIT	0	NO	

TREN Trace entry

```
===================================================================
 CONTROL BLOCK NAME = DFHTREN
 DESCRIPTIVE NAME  = CICS trace entry
    @BANNER_START 02
                        DFHTREN
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
 FUNCTION = Description of header of CICS trace entry.
 LIFETIME = Created by DFHTRPT in the internal trace table for
            each TRACE_PUT. Destroyed when overwritten after
            the next trace table wrap. Trace entries are also
            held on auxiliary trace datasets and GTF datasets.
 STORAGE CLASS = Held in the internal trace table in MVS storage.
 LOCATION = Each trace table block contains a block header
            followed by as many entries contiguously as will
            fit in the rest of the block.
 INNER CONTROL BLOCKS = None
 NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
 -------------------------------------------------------------------
 EXTERNAL REFERENCES = None
     DATA AREAS = None
     CONTROL BLOCKS = None
     GLOBAL VARIABLES (Macro pass) = None
 -------------------------------------------------------------------
===================================================================
```

Table 693.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHTREN	Trace entry
(0)	CHARACTER	40	TREN_HEADER	Standard header

Table 693. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	2	TREN_MARKER	Eyecatcher '<>'
(2)	UNSIGNED	2	TREN_LEN	Length of entry inc. header
(4)	UNSIGNED	2	TREN_CALLER	Domain id of trace caller
(6)	UNSIGNED	2	TREN_POINTID	ID of trace point in domain
(8)	UNSIGNED	1	TREN_TYPE	Entry type
	1...		*	The Top bits are used
	.1..		*	for the release of the
	..1.		*	trace.
	...1		*	
	.... 1...		*	The Bot Bits are used for
	.... .1..		*	the type. The types are
	.... ..1.		*	listed below.
	1		*	
(9)	BIT(24)	3	TREN_TASK	Transaction manager task num
(C)	UNSIGNED	2	TREN_KE_NUM	Kernel task number
(E)	UNSIGNED	2	TREN_OWNING_DOM	Owning domain for system task
(10)	UNSIGNED	2	TREN_HEADER_ LENGTH	
				Length of this header Offset of TREN_HEADER_LENGTH must not change. Add new header fields after this field
(12)	CHARACTER	5	TREN_TCB_ID	TCB ID
(17)	UNSIGNED	1	*	filler to word align
(18)	ADDRESS	4	TREN_TCBADDR	TCB address
(1C)	ADDRESS	4	TREN_RETADDR	Addr of call to trace caller
(20)	CHARACTER	8	TREN_TIME	Time of entry - 8 byte STCK
(28)	CHARACTER	*	TREN_DATA	Trace data
(28)	UNSIGNED	2	TREN_FIELD_LEN	Length of data field
(2A)	CHARACTER	*	TREN_FIELD_DATA	Data field

Constants

Table 694.

Len	Type	value	Name	Description
=== Tren type constants. The Top Bits of TREN_TYPE will be used for the release. X'B?' equals R670 X'A?' equals R660 X'9?' equals R650 X'8?' equals R640 X'7?' equals R630 X'6?' equals R620 X'5?' equals R610 X'4?' equals R530 X'3?' equals R520 X'2?' equals R510 X'1?' equals R410 X'0?' equals R330 and below The Bottom Bits of TREN_TYPE will be used for the trace type. The types below will need to be updated for release. For example, the release after 5.1.0 will have the top bits set like this '2?'X. A new release field will also be added to the bottom. If a new TREN_TYPE is added, be sure to change GTF_TYPE_NUM in DFHTRFCA. ===				
1	HEX	B0	TREN_TYPE_NORMAL	
1	HEX	BE	TREN_TYPE_ LE_PIPI_EXIT	
1	HEX	BD	TREN_TYPE_RRS_CALL	
1	HEX	BC	TREN_TYPE_ RRMS_EXIT	
1	HEX	BB	TREN_TYPE_ DB2_SUBTASK	
1	HEX	BA	TREN_TYPE_ DBCTL_RESUME_EXIT	
1	HEX	B9	TREN_TYPE_ RLS_QUIESCE_EXIT	
1	HEX	B8	TREN_TYPE_EXCI	
1	HEX	B7	TREN_TYPE_ LERADSYNAD_HPO	
1	HEX	B6	TREN_TYPE_ VTAM_EXIT_HPO	
1	HEX	B5	TREN_TYPE_TP_END	
1	HEX	B4	TREN_TYPE_ LERAD_SYNAD	
1	HEX	B3	TREN_TYPE_ VTAM_EXIT	
1	HEX	B2	TREN_TYPE_ MONITORING	
1	HEX	B1	TREN_TYPE_ SDUMP_EXIT	
1	HEX	B0	TREN_TYPE_R670	
1	HEX	A0	TREN_TYPE_R660	

Table 694. (continued)

Len	Type	value	Name	Description
1	HEX	90	TREN_TYPE_R650	
1	HEX	80	TREN_TYPE_R640	
1	HEX	70	TREN_TYPE_R630	
1	HEX	60	TREN_TYPE_R620	
1	HEX	50	TREN_TYPE_R610	
1	HEX	40	TREN_TYPE_R530	
1	HEX	30	TREN_TYPE_R520	
1	HEX	20	TREN_TYPE_R510	
1	HEX	10	TREN_TYPE_R410	
1	HEX	00	TREN_TYPE_R330	

TRFCA Trace Formatting Control Area

Table 695.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2600	DFHTRFCA	Trace formatting control area
Common data				
(0)	ADDRESS	4	TRFCA_PL_PTR	TRF_PRINT_LINE routine addr
(4)	ADDRESS	4	TRFCA_PBUF_PTR	132 character print buffer
(8)	UNSIGNED	4	TRFCA_ENTRY_ COUNT	Count of entries processed
(C)	UNSIGNED	4	TRFCA_PRINT_ COUNT	Count of entries printed
Parameters for DFHTRFPP				
(10)	ADDRESS	4	TRFCA_PARM_PTR	-> selective print parms
(14)	UNSIGNED	4	TRFCA_PARM_LEN	Length of print parms
(18)	ADDRESS	4	TRFCA_BUFF_PTR	-> TRFPP (4096n)byte buffer
The encoded form of the selective print parameters passed to DFHTUxxx or AMDUSREF.				
(1C)	CHARACTER	4	TRFCA_SEL_ PRINT_FLAGS	
				Selective print flags
	1...		TRFCA_SEL_ ACTIVE	Selection active ?
	.1..		TRFCA_TRFPP_ INIT	DFHTRFPP initialisation flag
	..1.		TRFCA_PARM_ERR	Error in parameters

Table 695. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		TRFCA_NOT_ SELECTED	
				Trace not selected
(1C)	BIT(28) POS(5)	4	*	Reserved
(20)	ADDRESS	4	TRFCA_TERMLIST_ PTR	Encoded TERMID list
(24)	ADDRESS	4	TRFCA_TERMTASK_ PTR	Tasks at selected TERMIDs
(28)	ADDRESS	4	TRFCA_TRANLIST_ PTR	Encoded TRANID list
(2C)	ADDRESS	4	TRFCA_TRANTASK_ PTR	Tasks with selected TRANIDs
(30)	ADDRESS	4	TRFCA_TIMELIST_ PTR	Encoded time ranges
(34)	ADDRESS	4	TRFCA_TASKLIST_ PTR	Encoded TASKID list
(38)	ADDRESS	4	TRFCA_KENUM_PTR	Encoded KE_NUM list
(3C)	ADDRESS	4	TRFCA_ENTRYNUM_ PTR	Encoded ENTRY_NUM list
(40)	ADDRESS	4	TRFCA_TYPETR_PTR	Dom ptrs and lens for TYPETR
Parameters for DFHTRFPB				
(44)	ADDRESS	4	TRFCA_CURRBL_PTR	Current block for DFHTRFPB
(48)	UNSIGNED	4	TRFCA_BLOCK_ AVLEN	Space left in last block
Parameters for DFHTRFFE				
(4C)	ADDRESS	4	TRFCA_CURREN_PTR	Current entry for DFHTRFFE
(50)	CHARACTER	8	TRFCA_TIME_BASE	STCK at last local midnight
(58)	CHARACTER	8	TRFCA_LAST_TIME	STCK of last entry
Parameters for DFHTRFFD				
(60)	UNSIGNED	2	TRFCA_TRACE_ CALLER	Domain id of trc caller
(62)	CHARACTER	1	*	
	1...		TRFCA_TT510_ LOAD_FAILED	
				DFHTT510 not found
	.1..		TRFCA_TT520_ LOAD_FAILED	
				DFHTT520 not found
	..1.		TRFCA_TT530_ LOAD_FAILED	

Table 695. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				DFHTT530 not found
	...1		TRFCA_TT610_ LOAD_FAILED	
				DFHTT610 not found
	.... 1...		TRFCA_TT620_ LOAD_FAILED	
				DFHTT620 not found
	.... .1..		TRFCA_TT630_ LOAD_FAILED	
				DFHTT630 not found
	.... ..1.		TRFCA_TT640_ LOAD_FAILED	
				DFHTT640 not found
	1		TRFCA_TT650_ LOAD_FAILED	
				DFHTT650 not found
(63)	CHARACTER	1	*	now used
	1...		TRFCA_TT660_ LOAD_FAILED	
				DFHTT660 not found
	.1..		TRFCA_TT670_ LOAD_FAILED	
				DFHTT670 not found
(64)	ADDRESS	4	*	PTR to CDURUN
(68)	ADDRESS	4	TRFCA_TT670_PTR	PTR to CDURUN 6.7
#Unused# area				
(6C)	CHARACTER	44	*	Available
(98)	UNSIGNED	1	TRFCA_DAY	Day number
(99)	UNSIGNED	1	TRFCA_MON	Month number
(9A)	UNSIGNED	1	TRFCA_YER	Year number
(9B)	UNSIGNED	1	TRFCA_PREV_HOURS	Hours in prev entry
(9C)	CHARACTER	1	TRFCA_DATE_ FORMAT	Format of TRFCA_DATE
(9D)	CHARACTER	3	*	Reserved
(A0)	ADDRESS	4	TRFCA_TCBIDLST_ PTR	Encoded TCBID list
(A4)	ADDRESS	4	TRFCA_TCBADLST_ PTR	Encoded TCBADDR list
(A8)	UNSIGNED	4	TRFCA_LAST_ BLOCKS	Blocks to print from end
Storage used by TRFPRL - the print line routine				
(AC)	CHARACTER	4	*	Flag word
	1...		TRFCA_SPACE	Space after print

Table 695. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		TRFCA_NEW_DAY	Midnight just happened
(AC)	BIT(30) POS(3)	4	*	Reserved
(B0)	ADDRESS	4	TRFCA_DUFSTG_PTR	DUF_STG ptr for DFHTRDUF
(B0)	ADDRESS	4	TRFCA_ABDPL_PTR	ABDPL ptr for AMDUSREF
(B4)	ADDRESS	4	TRFCA_PRDCB_PTR	Print DCB
(B8)	FULLWORD	4	TRFCA_PAGE_COUNT	Page count
(BC)	FULLWORD	4	TRFCA_LINE_COUNT	Line count
(C0)	FULLWORD	4	TRFCA_PAGE_SIZE	Number of lines/page
	Interpretation area and control fields			
(C4)	ADDRESS	4	TRFCA_CDED_TOKEN	Translation routine token
(C8)	ADDRESS	4	TRFCA_IA_NAB	Next byte in interp area
(CC)	UNSIGNED	4	TRFCA_IA_ LEN_LEFT	Length left in interp area
(D0)	CHARACTER	1024	TRFCA_IA	Interpretation area
	Warning the offset of the DFHTRIP must not change compatability with releases 3.3 and above this is for GTF multiple release. PARAMETERS FOR DFHXXTRI, MAPPED BY DFHTRIP. THE DATA FIELD ADDRESSES AND LENGTHS USED BY DFHTRFFD.			
(4D0)	CHARACTER	300	TRFCA_TRIP	MUST MATCH DFHTRIP
(4D0)	CHARACTER	140	TRIP_CICS_ WORKAREA	
(4D0)	ADDRESS	4	TRIP_FCA_PTR	
(4D4)	UNSIGNED	2	TRIP_POINTID	
(4D4)	UNSIGNED	1	TRIP_POINTID_ BYTE1	
(4D5)	UNSIGNED	1	TRIP_POINTID_ BYTE2	
(4D6)	UNSIGNED	1	*	
(4D7)	BIT(8)	1	TRIP_FIELD_T	
(4D8)	ADDRESS	4	TRIP_FIELD_P (4294967304:263629192)	
(4F8)	CHARACTER	28	*	
(514)	FULLWORD	4	TRIP_FIELD_N (4294967304:263629192)	
(534)	CHARACTER	28	*	
(550)	CHARACTER	12	TRIP_TRIB_ PLIST	
(550)	ADDRESS	4	TRIP_DATA_P	

Table 695. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(554)	UNSIGNED	2	TRIP_DATA_N	
(556)	UNSIGNED	1	TRIP_DATA_ TYPE	
(557)	UNSIGNED	1	TRIP_PLIST_ TYPE	
(558)	UNSIGNED	1	TRIP_SPACE	
(559)	UNSIGNED	1	TRIP_FT_TYPE	
(55A)	CHARACTER	2	*	
(55C)	CHARACTER	20	*	
(570)	CHARACTER	108	TRIP_FT_ WORKAREA	
(570)	CHARACTER	108	TRIP_FT_WORK	
(570)	ADDRESS	4	TRFTW_FORMATTING_ ADDRESS (4294967302:263634184)	
(588)	CHARACTER	8	TRFTW_FORMATTING_ NAME (4294967302:263634184)	
(5B8)	CHARACTER	4	*	
(5BC)	CHARACTER	32	TRFTW_WIPE_ AREA	
(5BC)	UNSIGNED	1	TRFTW_TRACE_ TYPE	
(5BD)	BIT(8)	1	TRFTW_FLAGS	
	1...		TRFTW_INTERPRETATION	
	.1..		TRFTW_LOAD_ FAILED	
	..1.		TRFTW_NO_ NAME	
	...1		TRFTW_FEATURE_ ABEND	
	.... 1...		TRFTW_INT_ OVERFLOW	
	.... .111		*	
(5BE)	UNSIGNED	2	TRFTW_LEN_ LEFT	
(5C0)	ADDRESS	4	TRFTW_NAB	
(5C4)	ADDRESS	4	TRFTW_DFHTRIB_ ADDRESS	
(5C8)	ADDRESS	4	TRFTW_CDPFTAB_ ADDRESS	
(5CC)	CHARACTER	8	TRFTW_MODULE_ NAME	
(5D4)	CHARACTER	8	*	
(5DC)	CHARACTER	32	*	
(5FC)	CHARACTER	188	*	UNUSED
(6B8)	CHARACTER	24	*	Unused

Table 695. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	Various flags			
(6D0)	CHARACTER	4	*	
	1...		TRFCA_INT_ OVERFLOW	
				Interpretation overflow
	.1..		TRFCA_EXTRA_ LINE	Extra jobname line
	..1.		TRFCA_FULL_ ABBREV	For compablity
	...1		TRFCA_LAST_ BLOCK	Last trace blk indicator
	.... 1...		TRFCA_GTF_TRACE	Doing a GTF trace
	.... .1..		TRFCA_SELECT_ ALL	Have requested ALL parms
	.... ..1.		TRFCA_UPPERCASE_ REQ	
				Output in uppercase
	1		TRFCA_EXCEPTION	Only print exception tr
(6D1)	1...		TRFCA_PDX_TRACE	Doing a system dump tr
	.1..		TRFCA_AUX_TRACE	Doing a AUX trace
	..1.		TRFCA_FULL_ TRACE	Full request
	...1		TRFCA_ABBREV_ TRACE	
				Abbreviated request
	.... 1...		TRFCA_SHORT_ TRACE	Short request
	.... .1..		TRFCA_FULL_DO	Full completed
	.... ..1.		TRFCA_ABBREV_DO	Abbreviated complete
	1		TRFCA_SHORT_DO	Short complete
(6D2)	1...		TRFCA_TRACE_ DONE_ALREADY	
				Trace already printed
(6D2)	BIT(15) POS(2)	2	*	Available
(6D4)	ADDRESS	4	TRFCA_JOB_ LINE_PTR	Ptr to jobname line buff
(6D8)	ADDRESS	4	TRFCA_INTERVAL_ PTR	Time interval parameter.

Table 695. (continued)

Offset Hex	Type	Len	Name (dim)	Description
All new fields that are not Multi-release depended can be added after this point otherwise see reserved space above. Note: fields to be used by Vendors must be added above this point. Fields below do NOT need their offsets garanteed. Pointers to the different release formatters				
(6DC)	CHARACTER	48	*	
(6DC)	ADDRESS	4	TRFCA_FORMATTER_R670	
				Version 6 release 7
(6E0)	ADDRESS	4	TRFCA_FORMATTER_R660	
				Version 6 release 6
(6E4)	ADDRESS	4	TRFCA_FORMATTER_R650	
				Version 6 release 5
(6E8)	ADDRESS	4	TRFCA_FORMATTER_R640	
				Version 6 release 4
(6EC)	ADDRESS	4	TRFCA_FORMATTER_R630	
				Version 6 release 3
(6F0)	ADDRESS	4	TRFCA_FORMATTER_R620	
				Version 6 release 2
(6F4)	ADDRESS	4	TRFCA_FORMATTER_R610	
				Version 6 release 1
(6F8)	ADDRESS	4	TRFCA_FORMATTER_R530	
				Version 5 release 3
(6FC)	ADDRESS	4	TRFCA_FORMATTER_R520	
				Version 5 release 2
(700)	ADDRESS	4	TRFCA_FORMATTER_R510	
				Version 5 release 1
(704)	ADDRESS	4	TRFCA_FORMATTER_R410	
				Version 4 release 1
(708)	ADDRESS	4	TRFCA_FORMATTER_R330	
				Version 3 release 3
(70C)	UNSIGNED	1	TRFCA_FREE_BUFFER (4294967311:263614464)	Subscript value of first free buffer for each type

Table 695. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(71B)	CHARACTER	4	*	Reserved
(720)	ADDRESS	4	TRFCA_RECORD_ BUFFER (4294967311:4294967301,2636144	
				Pointers to segmented entry reconstruction areas - one per type AND region/ system
(84C)	ADDRESS	4	TRFCA_NEXT_BYTE (4294967311:4294967301,2636144	Ptrs to next free byte in reconstruction area
(978)	UNSIGNED	2	TRFCA_LEN_REM (4294967311:4294967301,2636144	Length still to come on continuation records
(A0E)	CHARACTER	8	TRFCA_DATE	Date
(A16)	CHARACTER	8	TRFCA_APPLID	Applid
(A1E)	CHARACTER	1	*	
	1...		TRFCA_R620_ LOAD_FAIL	
				DFHTR620 not found
	.1..		TRFCA_R610_ LOAD_FAIL	
				DFHTR610 not found
	..1.		TRFCA_R530_ LOAD_FAIL	
				DFHTR530 not found
	...1		TRFCA_R520_ LOAD_FAIL	
				DFHTR520 not found
	.... 1...		TRFCA_R510_ LOAD_FAIL	
				DFHTR510 not found
	.... .1..		TRFCA_R410_ LOAD_FAIL	
				DFHTR410 not found
	.... ..1.		TRFCA_R330_ LOAD_FAIL	
				DFHTR330 not found
	1		TRFCA_R630_ LOAD_FAIL	
				DFHTR630 not found
(A1F)	CHARACTER	1	*	
	1...		TRFCA_R640_ LOAD_FAIL	
				DFHTR640 not found
	.1..		TRFCA_R650_ LOAD_FAIL	

Table 695. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				DFHTR650 not found
	..1.		TRFCA_R660_ LOAD_FAIL	
				DFHTR660 not found
	...1		TRFCA_R670_ LOAD_FAIL	
				DFHTR670 not found
	 1111		*	reserved
`For compatibility with Vendor products we will keep the length of the TRFCA fixed. If new fields are added then change the length of the used area below.`				
(A20)	CHARACTER	8	*	Used area
(A28)	CHARACTER	0	*	End of FCA

```
Structure of the core block containing record selection data
```

Table 696.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TRFPPWA	
(0)	FULLWORD	4	WA_LEN	size of block
(4)	FULLWORD	4	WA_CNT	count of entries used
(8)	FULLWORD	4	WA_IT_LEN	length of each entry
(C)	CHARACTER	*	WA_DATA	This area is considered to be an array, with WA_IT_LEN being the length of each element, and WA_CNT the dimension of the array.

Table 697.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	300	DFHTRIP	This must match TRFCA_TRIP
(0)	CHARACTER	140	TRIP_CICS_ WORKAREA	
(0)	ADDRESS	4	TRIP_FCA_PTR	Format control area addr
(4)	UNSIGNED	2	TRIP_POINTID	Point id of entry
(4)	UNSIGNED	1	TRIP_POINTID_ BYTE1	
				1st half of pointid
(5)	UNSIGNED	1	TRIP_POINTID_ BYTE2	
				2nd half of pointid

Table 697. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6)	UNSIGNED	1	*	Reserved
(7)	BIT(8)	1	TRIP_FIELD_T	Bitmap of TRIP_FIELD types '0'B=EBCDIC '1'B=ASCII
(8)	ADDRESS	4	TRIP_FIELD_P (4294967304:263652552)	Data field addresses Data 1 to 7 & the Feature trace hdr
(28)	CHARACTER	28	*	Reserved for DATA field expansion.
(44)	FULLWORD	4	TRIP_FIELD_N (4294967304:263652552)	Data field lengths Data 1 to 7 & the Feature trace hdr
(64)	CHARACTER	28	*	Reserved for DATA field expansion.
(80)	CHARACTER	12	TRIP_TRIB_PLIST	Parameters for DFHTRIB
(80)	ADDRESS	4	TRIP_DATA_P	Data ptr for DFHTRIB
(84)	UNSIGNED	2	TRIP_DATA_N	Data length for DFHTRIB
(86)	UNSIGNED	1	TRIP_DATA_TYPE	Data type for DFHTRIB See constant defns below
(87)	UNSIGNED	1	TRIP_PLIST_ TYPE	For data type CDPLIST only See constant defns below
(88)	UNSIGNED	1	TRIP_SPACE	Space before adding data
(89)	UNSIGNED	1	TRIP_FT_TYPE	Feature type trace
(8A)	CHARACTER	2	*	Reserved
(8C)	CHARACTER	20	*	Reserved
(A0)	CHARACTER	108	TRIP_FT_WORKAREA	
(A0)	CHARACTER	108	TRIP_FT_WORK	
(A0)	ADDRESS	4	TRFTW_FORMATTING_ ADDRESS (4294967302:263657544)	
(B8)	CHARACTER	8	TRFTW_FORMATTING_ NAME (4294967302:263657544)	
(E8)	CHARACTER	4	*	
(EC)	CHARACTER	32	TRFTW_WIPE_ AREA	
(EC)	UNSIGNED	1	TRFTW_TRACE_ TYPE	
(ED)	BIT(8)	1	TRFTW_FLAGS	
	1...		TRFTW_INTERPRETATION	

Table 697. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		TRFTW_LOAD_ FAILED	
	..1.		TRFTW_NO_ NAME	
	...1		TRFTW_FEATURE_ ABEND	
	.... 1...		TRFTW_INT_ OVERFLOW	
	.... .111		*	
(EE)	UNSIGNED	2	TRFTW_LEN_ LEFT	
(F0)	ADDRESS	4	TRFTW_NAB	
(F4)	ADDRESS	4	TRFTW_DFHTRIB_ ADDRESS	
(F8)	ADDRESS	4	TRFTW_CDPFTAB_ ADDRESS	
(FC)	CHARACTER	8	TRFTW_MODULE_ NAME	
(104)	CHARACTER	8	*	
(10C)	CHARACTER	32	*	Reserved

```
          CONTROL BLOCK NAME = DFHTRFTC
          DESCRIPTIVE NAME  = CICS/ESA (TR) Feature Trace Entry Header
          @BANNER_START 02
                              DFHTRFTC
          Licensed Materials - Property of IBM
          "Restricted Materials of IBM"
          5655-S97
          @BANNER_END
          FUNCTION = This is the header for a trace entry made by
                     a Feature when the DFHTRFTM TRACE_PUT interface is
                     used.
                     It appears immediately after the TREN_HEADER for
                     a Feature trace entry, as the first part of the
                     TREN_DATA. The remaining trace entry data,
                     supplied by the Feature as TRFT_DATAn (where n is
                     between 1 and 7) on the TRFT TRACE_PUT call,
                     follows immediately after the TRFTE_HEADER.
          LIFETIME = Created by DFHTRFT in the internal trace table for
                     each TRACE_PUT. Destroyed when overwritten after
                     the next trace table wrap. Trace entries are also
                     held on auxiliary trace datasets and GTF datasets.
          STORAGE CLASS = Held in the internal trace table in MVS storage.
          LOCATION = Each trace table block contains a block header
                     followed by as many entries contiguously as will
                     fit in the rest of the block.
          INNER CONTROL BLOCKS =
               This is an inner control block to the DFHTREN.
               DFHTRFTE has no inner control blocks itself.
          NOTES :
           DEPENDENCIES = S/390
           RESTRICTIONS = None
           MODULE TYPE = Control block definition
          ----------------------------------------------------------------
           EXTERNAL REFERENCES = None
             DATA AREAS = None
```

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

Table 698.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	94	TRFTE	Feature trace entry
(0)	UNSIGNED	2	TRFTE_HEADER_LEN	Feature trace header length - excludes the length of this field itself
(2)	CHARACTER	92	TRFTE_HEADER	Feature trace header
(2)	UNSIGNED	1	TRFTE_VERSION	Feature trace header version
(3)	UNSIGNED	1	*	SPARE
(4)	CHARACTER	30	TRFTE_COMPANY_ NAME	
				Feature company name
(22)	CHARACTER	30	TRFTE_FEATURE_ NAME	
				Feature name
(40)	CHARACTER	10	TRFTE_FEATURE_ LEVEL	
				Feature release level
(4A)	CHARACTER	8	TRFTE_FORMATTING_ ROUTINE	
				Feature trace formatting routine
(52)	CHARACTER	9	TRFTE_ABBREV_ NAME	Name for formatted trace
(5B)	BIT(8)	1	TRFTE_FLAGS	Feature trace entry flags
	1...		TRFTE_EXCEPTION_ TRACE	
				Exception trace flag
	.111 1111		*	Spare
(5C)	CHARACTER	2	*	Spare

Table 699.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	108	TRFTW	FEATURE TRACE ENTRY
(0)	ADDRESS	4	TRFTW_FORMATTING_ ADDRESS (4294967302:263667584)	
				STORED ADDR

Table 699. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER	8	TRFTW_FORMATTING_ NAME (4294967302:263667584)	
				STORED NAMES
(48)	CHARACTER	4	*	SPARE
(4C)	CHARACTER	32	TRFTW_WIPE_AREA	WIPED EACH CAL@BA70223
(4C)	UNSIGNED	1	TRFTW_TRACE_ TYPE	TYPES BELOW
(4D)	BIT(8)	1	TRFTW_FLAGS	
	1...		TRFTW_INTERPRETATION	
				FOREIGN CODE
	.1..		TRFTW_LOAD_ FAILED	
				MVS LOAD
	..1.		TRFTW_NO_NAME	NO FORMAT
	...1		TRFTW_FEATURE_ ABEND	
				NO FORMAT
	.... 1...		TRFTW_INT_ OVERFLOW	
	.... .111		*	SPARE
(4E)	UNSIGNED	2	TRFTW_LEN_LEFT	WORK AREA
(50)	ADDRESS	4	TRFTW_NAB	PTR WORK AREA
(54)	ADDRESS	4	TRFTW_DFHTRIB_ ADDRESS	
				TRIB ADDRESS
(58)	ADDRESS	4	TRFTW_CDPFTAB_ ADDRESS	
				CDURUN TABLE
(5C)	CHARACTER	8	TRFTW_MODULE_ NAME	FT MOD NAME
(64)	CHARACTER	8	*	SPARE

Constants

Table 700.

Len	Type	value	Name	Description
Various constants used in the formatting				
2	DECIMAL	7	TRF_NUM_FIELDS	Maximum number of DATA..
2	DECIMAL	32	TRF_BPL	Number of bytes of data..

Table 700. (continued)

Len	Type	value	Name	Description
1	DECIMAL	15	GTF_TYPE_NUM	number of TREN_TYPEs
1	DECIMAL	0	TRFTW_ENTRY	ENTRY
1	DECIMAL	1	TRFTW_EXIT	EXIT
1	DECIMAL	2	TRFTW_EXCEPTION	EXCEPTION@BA70223
1	DECIMAL	3	TRFTW_DATA	DATA
1	DECIMAL	4	TRFTW_EVENT	EVENT
1	DECIMAL	9	TRFTW_RUB	
1	DECIMAL	0	TRFTW_RC_OK	OK
1	DECIMAL	1	TRFTW_RC_OVERFLOW	Overflow
	Values for TRIP_DATA_TYPE			
1	DECIMAL	0	TRI_CHAR	CHAR on DFHTRIBM
1	DECIMAL	1	TRI_HEX	HEX on DFHTRIBM
1	DECIMAL	2	TRI_DEC	DEC on DFHTRIBM
1	DECIMAL	3	TRI_BIN	BIN on DFHTRIBM
1	DECIMAL	4	TRI_CDPLIST	CDPLIST on DFHTRIBM
1	DECIMAL	5	TRI_ASCII	ASCII on DFHTRIBM
	Values for TRIP_PLIST_TYPE			
1	DECIMAL	0	TRI_IN	IN on DFHTRIBM
1	DECIMAL	1	TRI_OUT	OUT on DFHTRIBM
	Values for TRIP_SPACE			
1	DECIMAL	0	TRI_NO	NO on DFHTRIBM
1	DECIMAL	1	TRI_YES	YES on DFHTRIBM
2	DECIMAL	40960	TR_BLOCK_ SIZE_TRAN_DU	
				BLOCK SIZE USE BY TRXDF

TRFTE Feature Trace Entry Header

```
CONTROL BLOCK NAME = DFHTRFTC
DESCRIPTIVE NAME  = CICS/ESA (TR) Feature Trace Entry Header
@BANNER_START 02
                    DFHTRFTC
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
FUNCTION = This is the header for a trace entry made by
           a Feature when the DFHTRFTM TRACE_PUT interface is
           used.
           It appears immediately after the TREN_HEADER for
           a Feature trace entry, as the first part of the
           TREN_DATA. The remaining trace entry data,
           supplied by the Feature as TRFT_DATAn (where n is
           between 1 and 7) on the TRFT TRACE_PUT call,
```

```
                  follows immediately after the TRFTE_HEADER.
       LIFETIME = Created by DFHTRFT in the internal trace table for
                  each TRACE_PUT. Destroyed when overwritten after
                  the next trace table wrap. Trace entries are also
                  held on auxiliary trace datasets and GTF datasets.
  STORAGE CLASS = Held in the internal trace table in MVS storage.
       LOCATION = Each trace table block contains a block header
                  followed by as many entries contiguously as will
                  fit in the rest of the block.
  INNER CONTROL BLOCKS =
           This is an inner control block to the DFHTREN.
           DFHTRFTE has no inner control blocks itself.
       NOTES :
        DEPENDENCIES = S/390
        RESTRICTIONS = None
        MODULE TYPE = Control block definition
       ----------------------------------------------------------------
       EXTERNAL REFERENCES = None
         DATA AREAS = None
         CONTROL BLOCKS = None
         GLOBAL VARIABLES (Macro pass) = None
       ----------------------------------------------------------------
```

Table 701.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	94	TRFTE	Feature trace entry
(0)	UNSIGNED	2	TRFTE_HEADER_LEN	Feature trace header length - excludes the length of this field itself
(2)	CHARACTER	92	TRFTE_HEADER	Feature trace header
(2)	UNSIGNED	1	TRFTE_VERSION	Feature trace header version
(3)	UNSIGNED	1	*	SPARE
(4)	CHARACTER	30	TRFTE_COMPANY_ NAME	
				Feature company name
(22)	CHARACTER	30	TRFTE_FEATURE_ NAME	
				Feature name
(40)	CHARACTER	10	TRFTE_FEATURE_ LEVEL	
				Feature release level
(4A)	CHARACTER	8	TRFTE_FORMATTING_ ROUTINE	
				Feature trace formatting routine
(52)	CHARACTER	9	TRFTE_ABBREV_ NAME	Name for formatted trace
(5B)	BIT(8)	1	TRFTE_FLAGS	Feature trace entry flags
	1...		TRFTE_EXCEPTION_ TRACE	
				Exception trace flag

Table 701. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.111 1111		*	Spare
(5C)	CHARACTER	2	*	Spare

Table 702.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	108	TRFTW	FEATURE TRACE ENTRY
(0)	ADDRESS	4	TRFTW_FORMATTING_ ADDRESS (4294967302:263633920)	
				STORED ADDR
(18)	CHARACTER	8	TRFTW_FORMATTING_ NAME (4294967302:263633920)	
				STORED NAMES
(48)	CHARACTER	4	*	SPARE
(4C)	CHARACTER	32	TRFTW_WIPE_AREA	WIPED EACH CAL@BA70223
(4C)	UNSIGNED	1	TRFTW_TRACE_ TYPE	TYPES BELOW
(4D)	BIT(8)	1	TRFTW_FLAGS	
	1...		TRFTW_INTERPRETATION	
				FOREIGN CODE
	.1..		TRFTW_LOAD_ FAILED	
				MVS LOAD
	..1.		TRFTW_NO_NAME	NO FORMAT
	...1		TRFTW_FEATURE_ ABEND	
				NO FORMAT
	.... 1...		TRFTW_INT_ OVERFLOW	
	.... .111		*	SPARE
(4E)	UNSIGNED	2	TRFTW_LEN_LEFT	WORK AREA
(50)	ADDRESS	4	TRFTW_NAB	PTR WORK AREA
(54)	ADDRESS	4	TRFTW_DFHTRIB_ ADDRESS	
				TRIB ADDRESS
(58)	ADDRESS	4	TRFTW_CDPFTAB_ ADDRESS	
				CDURUN TABLE
(5C)	CHARACTER	8	TRFTW_MODULE_ NAME	FT MOD NAME
(64)	CHARACTER	8	*	SPARE

Constants

Table 703.

Len	Type	value	Name	Description
1	DECIMAL	0	TRFTW_ENTRY	ENTRY
1	DECIMAL	1	TRFTW_EXIT	EXIT
1	DECIMAL	2	TRFTW_EXCEPTION	EXCEPTION@BA70223
1	DECIMAL	3	TRFTW_DATA	DATA
1	DECIMAL	4	TRFTW_EVENT	EVENT
1	DECIMAL	9	TRFTW_RUB	
1	DECIMAL	0	TRFTW_RC_OK	OK
1	DECIMAL	1	TRFTW_RC_OVERFLOW	Overflow

TRGTW Global trap working storage

```
CONTROL BLOCK NAME = DFHTRGTW
DESCRIPTIVE NAME  = CICS Global Trap (DFHTRAP) Working
Storage
    @BANNER_START 02
                         DFHTRGTW
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION = All of the working storage and register save areas
           etc. associated with the Global Trap (DFHTRAP).
LIFETIME = Created by DFHTRSR when a TRAP=ON command is issued
           via the SIT or CSFE. Freed by DFHTRSR during
           CSFE TRAP=OFF processing.
STORAGE CLASS = In MVS GETMAIN'd storage above 16M.
LOCATION = The address is held in TRA_TRAP_WA_PTR in the TR
           domain anchor block (TRA).
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-----------------------------------------------------------------
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = None
    GLOBAL VARIABLES (Macro pass) = None
-----------------------------------------------------------------
```

Table 704.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	704	DFHTRGTW	Global trap (DFHTRAP)..
(0)	CHARACTER	216	TRAP_REGSAVE	F7SA for DFHTRAP
(D8)	CHARACTER	120	TRAP_PLIST	DFHTRADS storage
(150)	BIT(32)	4	TRAP_FLAGS	Trap return action flags

Offset Hex	Type	Len	Name (dim)	Description
	1...		TRAP_TRACE	Further trace entry required *
	.1..		TRAP_DUMP	System dump required
	..1.		TRAP_TRACE_64	Trace entry passing 64-bit data required
	...1		TRAP_ABCICS	Abend CICS
	.... 1...		TRAP_DISABLE	Disable the trap
	.... .1..		TRAP_DUMP_ WITH_LOCK	
				System dump holding lock
(150)	BIT(26) POS(7)	4	*	Reserved
(154)	CHARACTER	104	TRAP_TRPLIST	TRPT format parameter for requested entry
(1BC)	CHARACTER	160	TRAP_TRPLIST_64	TRP4 format parameter for requested entry
(260)	CHARACTER	96	TRAP_WORK	Force D-word alignment for..
(260)	CHARACTER	16	TRAP_WORK_EYEC	'DFHTRAP_WORKAREA' eyecatcher
(270)	CHARACTER	80	TRAP_WORKAREA	Work area for DFHTRAP

TSG Temporary Storage Domain Statistics

```
                CONTROL BLOCK NAME = DFHTSGDS
                DESCRIPTIVE NAME  = CICS Temporary Storage statistics record.
                   @BANNER_START 02
                                    DFHTSGDS
                   Licensed Materials - Property of IBM
                   "Restricted Materials of IBM"
                   5655-S97
                   @BANNER_END
                FUNCTION = Temporary Storage statistics record.
                LIFETIME = Record is constructed by DFHSTTS, then passed to the
                           statistics domain.
                STORAGE CLASS =
                LOCATION =
                INNER CONTROL BLOCKS = none
                NOTES :
                   DEPENDENCIES = S/370
                   RESTRICTIONS = none
                   MODULE TYPE = Control block definition
                ------------------------------------------------------------------
                EXTERNAL REFERENCES =
                    DATA AREAS =
                    CONTROL BLOCKS =
                    GLOBAL VARIABLES (Macro pass) =
                ------------------------------------------------------------------
```

Table 705.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTSGDS	Temp storage statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	TSGLEN	Length of data area
(0)	SIGNED	0	TSGIDE	"0048" TS stats mask
(2)	ADDRESS	2	TSGID	TS stats id
(2)	BITSTRING	0	TSGVERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	TSGDVERS	TS stats version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	TSGSTA5F	PUT/PUTQ main storage requests
(C)	FULLWORD	4	TSGNMG	GET/GETQ main storage requests
(10)	FULLWORD	4		Retired
(14)	FULLWORD	4	TSGSTA7F	PUT/PUTQ aux storage requests
(18)	FULLWORD	4	TSGNAG	GET/GETQ aux storage requests
(1C)	FULLWORD	4	TSGQNUMH	Peak TS names in use
(20)	FULLWORD	4	TSGQINH	Entries in longest Queue
(24)	HALFWORD	2		Reserved
(26)	HALFWORD	2		Reserved
(28)	FULLWORD	4	TSGSTA3F	Times queue created
(2C)	FULLWORD	4		Reserved
(30)	FULLWORD	4	TSGCSA	Control interval size
(34)	FULLWORD	4	TSGSTABF	Writes more than control interval
(38)	FULLWORD	4	TSGNCI	CIs in TS dataset
(3C)	FULLWORD	4	TSGNCIAH	Peak CIs used
(40)	FULLWORD	4	TSGSTA8F	Times aux store exhausted
(44)	HALFWORD	2	TSGNBCA	No. TS Buffers
(46)	HALFWORD	2		Reserved
(48)	FULLWORD	4	TSGBWTN	No. Buffer waits
(4C)	FULLWORD	4	TSGBUWTH	Peak users waiting on buffer
(50)	FULLWORD	4	TSGTWTN	Buffer writes
(54)	FULLWORD	4	TSGTWTNR	Writes force for recovery
(58)	FULLWORD	4	TSGTRDN	Buffer reads

Table 705. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5C)	FULLWORD	4	TSGTWTNF	Format writes
(60)	HALFWORD	2	TSGNVCA	No. TS strings
(62)	HALFWORD	2		Reserved
(64)	FULLWORD	4	TSGNVCAH	Peak strings in use
(68)	FULLWORD	4	TSGVWTN	Times string wait occurred
(6C)	FULLWORD	4	TSGVUWTH	Peak users waiting on string
(70)	FULLWORD	4	TSGSTAAF	I/O errors on TS dataset
(74)	FULLWORD	4		Retired
(78)	FULLWORD	4	TSGSTA9F	No. TS compressions
(7C)	FULLWORD	4	TSGNCIA	Current CIs in use
(80)	FULLWORD	4	TSGVUWT	Users waiting on string
(84)	FULLWORD	4	TSGBUWT	Users waiting on buffer
(88)	FULLWORD	4	TSGQNUM	TS names in use
(8C)	FULLWORD	4	TSGLAR	Longest Auxiliary record length
(90)	FULLWORD	4	TSGNAVB	No. available bytes per CI
(94)	FULLWORD	4	TSGSPCI	Segments per CI
(98)	FULLWORD	4	TSGBPSEG	Bytes per segment
(9C)	FULLWORD	4	TSGSHPDF	Shared pools defined
(A0)	FULLWORD	4	TSGSHPCN	Shared pools connected to
(A4)	FULLWORD	4	TSGSHRDS	Shared read requests
(A8)	FULLWORD	4	TSGSHWTS	Shared write requests
(AC)	FULLWORD	4	TSGTSLHT	Count of times TSMAINLIMIT hit
(B0)	BITSTRING	8	TSGTSMLM	TSMAINLIMIT setting
(B8)	BITSTRING	8	TSGTSMUS	Current utilisation of TSMAIN
(C0)	BITSTRING	8	TSGTSMAX	Maximum use of TS storage
(C8)	FULLWORD	4	TSGTSQDL	Number of queues auto deleted
(CC)	FULLWORD	4	TSGTSCTR	Count of cleanup task runs
(CC)		0	TSGEND	"*"
(CC)		0	TSGCLEN	"*-TSGLEN" Length of DSECT

TSIOA Temporary Storage input/output area

```
CONTROL BLOCK NAME = DFHTSIOA
DESCRIPTIVE NAME  = CICS Temporary Storage Input/Output Area.
   @BANNER_START 02
                        DFHTSIOA
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
TEMPORARY STORAGE INPUT/OUTPUT AREA (TSIOA)
The TSIOA is a class of user storage and is chained off the TCA
(TCASCCA). It can be acquired by the user or, in response to a
GET or GETQ request, it is acquired by the temporary storage
program when no TSDADDR is specified. TSIOAs acquired by, or on
behalf of, a user task are normally released by the task. If not,
the area is freed by the task control program when the task is
terminated.
If necessary, an extension header is inserted in the TSIOA
preceding the user data. This extension carries information
specified on an EXEC CICS START command (for example, PROTECT
FMH RTRANSID).
```

Table 706.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTSIOA	DUMMY SECTION - TEMPORARY STORAGE I/O AREA USING
(0)	HALFWORD	2		STORAGE ACCOUNTING (CLASS=TEMPORARY STORAGE)
(2)	HALFWORD	2	TSIOASAL	STORAGE ACCOUNTING - AREA LENGTH
(4)	ADDRESS	4	TSIOASCA	TRANSACTION STORAGE CHAIN ADDRESS
(8)	HALFWORD	2	TSIOAVRL	VARIABLE RECORD LENGTH
(A)	HALFWORD	2		RESERVED
(A)		0	TSIOACAD	"*-DFHTSIOA" CONTROL AREA DISPLACEMENT
(A)		0	TSIOADBA	"*" DATA BEGINNING ADDRESS

TST Temporary Storage table

```
CONTROL BLOCK NAME = DFHTSTDS
DESCRIPTIVE NAME  = CICS Temporary Storage Table
   @BANNER_START 02
                        DFHTSTDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
```

```
@BANNER_END
TEMPORARY STORAGE TABLE (TST)
   The temporary storage table (TST) is a list of generic mnemonics
   used:
      1. To identify temporary storage DATAIDs for which CICS is to
         provide recoverability in the event of abnormal termination
         of CICS and subsequent emergency restart.
      2. To identify DATAIDs for which security checking is to be
         performed.
      3. To identify DATAIDs on a remote system.
      4. To map selected remote system SYSIDs to shared queue pools.
   Each recovery entry in the table specifies the leading characters
   of user-defined DATAIDs for which CICS will provide protection
   (enqueueing) during a logical unit of work by an application
   program and automatic logging of the status of the data at task
   termination (or sync point). CSATSTBA in the CSA optional
   features list (CSAOPFL) points to the temporary storage table
   (TST).
```

Table 707.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTSTDS	
(0)	DBL WORD	8	TSTSTART (0)	
PREFIX				
(0)	FULLWORD	4	TSTDTAGE	DATA AGE LIMIT IN 1.048576 SEC UNITS
(4)	ADDRESS	4	TSTADDRE	A(1ST RECOVERY ENTRY) OR 0 IF NONE PRESENT
(8)	ADDRESS	4	TSTADDRM	A(1ST REMOTE ENTRY) OR 0 IF NONE PRESENT
(C)	ADDRESS	4	TSTADDSE	A(1ST SECURITY ENTRY) OR 0 IF NONE PRESENT
(10)	BITSTRING	8	TSTHDX (0)	OPTIONAL HEADER EXTENSION ENTRY
(10)	HALFWORD	2	TSTHDXLN	HEADER EXTENSION ENTRY LENGTH
(12)	BITSTRING	1	TSTHDXFL	FLAG BYTE IN SAME FORM AS TSTFL
HEADER EXTENSION IS PRESENT IF TSTHDXBM IS SET IN THIS FLAG BYTE				
(13)	BITSTRING	1		RESERVED
(14)	ADDRESS	4	TSTADDSH	A(1ST SHARED POOL ENTRY) OR 0 IF NONE PRESENT
COMMON PART				
(0)	HALFWORD	2	TSTLL	LENGTH OF ENTRY
(2)	BITSTRING	1	TSTFL	FLAG DESCRIBING ENTRY
(2)	BITSTRING	0	TSTRCVBM	"X'80'" RECOVERABLE

Table 707. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	BITSTRING	0	TSTRMTBM	"X'40'" REMOTE
(2)	BITSTRING	0	TSTRNMBM	"X'20'" REMOTE PREFIX GIVEN
(2)	BITSTRING	0	TSTRSLBM	"X'10'" RESOURCE SECURITY LEVEL CHK
(2)	BITSTRING	0	TSTSHRBM	"X'08'" SHARED POOL ENTRY
(2)	BITSTRING	0	TSTMIGBM	"X'04'" MIGRATE FLAG (1 IF MIGRATE=YES)
(2)	BITSTRING	0	TSTHDXBM	"X'02'" HEADER EXTENSION ENTRY
(2)	BITSTRING	0	TSTLSTBM	"X'01'" =1 FOR LAST ENTRY
(3)	SIGNED	1		RESERVED
(4)	BITSTRING	1		RESERVED
(5)	BITSTRING	1	TSTPL	PREFIX LENGTH-1
(6)	CHARACTER	8	TSTPRFX (0)	PREFIX
(6)	CHARACTER	8	TSTPOOL (0)	POOL NAME IN SHARED POOL ENTRY
(6)	CHARACTER	4		FIRST FOUR BYTES
(A)	CHARACTER	4		LAST FOUR - INCLUDED ONLY WHEN PREFIX GREATER THAN FOUR BYTES, OR REMOTE
REMOTE ONLY				
(E)	CHARACTER	4	TSTSYS	REMOTE SYSTEM ID
REMOTE AND TSTRNMBM=1 ONLY				
(12)	CHARACTER	8	TSTRPFX	REMOTE PREFIX (TSTPL GIVES ACTUAL LENGTH-1)

TSUE Temporary Storage EXEC Parameter List

```
CONTROL BLOCK NAME = DFHTSUEC
DESCRIPTIVE NAME  = CICS EXEC parameter list for Temporary
                        Storage user exits.
@BANNER_START 02

                      DFHTSUEC
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
  Although provided in a general library, DFHTSUED is not
  to be used as a general programming interface. Refer to
  product documentation to determine intended usage.
```

The following fields are part of the Product-sensitive
Programming Interface.
                    TS_ADDR0
                    TS_ADDR1
                    TS_ADDR2
                    TS_ADDR3
                    TS_ADDR4
                    TS_ADDR5
                    TS_ADDR7
                    TS_GROUP
                    TS_FUNCT
                    TS_BITS1
                    TS_EIDOPT5
                    TS_EIDOPT6
                    TS_EIDOPT7
                    TS_EIDOPT8
                    TS_QUEUE
                    TS_WRITEQ_QUEUE
                    TS_READQ_QUEUE
                    TS_DELETEQ_QUEUE
                    TS_QNAME
                    TS_WRITEQ_QNAME
                    TS_READQ_QNAME
                    TS_DELETEQ_QNAME
                    TS_READQ_SET
                    TS_READQ_INTO
                    TS_WRITEQ_FROM
                    TS_LENGTH
                    TS_WRITEQ_LENGTH
                    TS_READQ_LENGTH
                    TS_READQ_NUMITEMS
                    TS_WRITEQ_NUMITEMS
                    TS_ITEM
                    TS_WRITEQ_ITEM
                    TS_READQ_ITEM
                    TS_SYSID
                    TS_WRITEQ_SYSID
                    TS_READQ_SYSID
                    TS_DELETEQ_SYSID
    All equates for values of EIBRCODE, EIBRESP and EIBRESP2
    form part of the General-purpose Programming Interface.
    All remaining fields used in defining the Exec Parameter
    List are product sensitive and may vary between CICS
    releases.
FUNCTION =
    To define the EXEC parameter list for Temporary Storage
    requests, for use by global user exit programs at exit
    points XTSEREQ and XTSEREQC.
    On entry to the XTSEREQ and XTSEREQC User Exits, the EXEC
    parameter list is pointed to by UEPCLPS.
    The EXEC parameter list for Temporary Storage consists of
    eight addresses.
    The eight addresses are defined by TS_ADDR0 to TS_ADDR7.
    This DSECT defines these addresses and the areas that
    they point to.
    On entry to the XTSEREQ and XTSEREQC User Exits, the copy
    of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP
    is pointed to by UEPRESP and the copy of EIBRESP2 is
    pointed to by UEPRESP2.
    This DSECT also contains equates for values of EIBRCODE,
    EIBRESP and EIBRESP2 used by Temporary Storage.
LIFETIME = Lifetime of the TS command request
STORAGE CLASS = As the storage being mapped is the translated
                source in the user's application program, the
                storage may be either above or below the line.
LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.
                (2) Fields copied from the EIB are addressed by

```
                            UEPRCODE, UEPRESP and UEPRESP2.
                      (3) The token for use in communicating between
                          XTSEREQ and XTSEREQC is addressed by UEPTQTOK.
                 INNER CONTROL BLOCKS =
                      TS_ADDR_LIST declares the EXEC addresses.
                      TS_EID defines the EID pointed to by TS_ADDR0.
                 NOTES :
                  DEPENDENCIES = S/370 ESA
                  RESTRICTIONS = None
                  MODULE TYPE = Control block definition
                 ----------------------------------------------------------------
                  EXTERNAL REFERENCES = None
                    DATA AREAS = None
                    CONTROL BLOCKS = None
                    GLOBAL VARIABLES (Macro pass) = None
                 ----------------------------------------------------------------
                  The command parameter list is a list of addresses
                  which reference the argument values for this this EXEC CICS
                  command. The addresses are only valid if the argument is
                  applicable to this command.
                   For example, address 1 is of the TS QUEUE (if used) for all TS
                   commands, whereas the address 2 is of the FROM data area on
                   WRITEQ commands, the SET address or INTO data area for READQ
                   commands, and is not valid for DELETEQ commands.
                  The existance bits in the EID component (TS_BITS1) specify
                  those addresses that are valid, and the flagword bits
                  (TS_EIDOPT5 - TS_EIDOPT8) specify the keywords that were given
                  in the EXEC CICS TS command.
                  Therefore, you can deduce the usage of each address by testing
                  these bits in conjunction with the command function(TS_FUNCT).
```

Table 708.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	TS_ADDR_LIST	Addresses of...
(0)	ADDRESS	4	TS_ADDR0	the EID
(4)	ADDRESS	4	TS_ADDR1	QUEUE/QNAME
(8)	ADDRESS	4	TS_ADDR2	FROM data area (WRITEQ)
INTO data area (READQ) SET address (READQ)				
(C)	ADDRESS	4	TS_ADDR3	LENGTH value
(10)	ADDRESS	4	TS_ADDR4	NUMITEMS value (READQ)
(14)	ADDRESS	4	TS_ADDR5	ITEM value
NUMITEMS value (WRITEQ)				
(18)	ADDRESS	4	*	Reserved
(1C)	ADDRESS	4	TS_ADDR7	SYSID

```
                 TS_EID (addressed by TS_ADDR0) gives the command function, and
                 contains the existence and flagword bits.
                 Note: Equates for TS_GROUP, TS_FUNCT, EIBRCODE, EIBRESP and
                 EIBRESP2 values are defined at the end of this data structure.
```

Table 709.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	9	TS_EID	
(0)	CHARACTER	1	TS_GROUP	'0A'X for TS

Table 709. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	CHARACTER	1	TS_FUNCT	'02'X for WRITEQ
<td colspan="5"><pre>   '04'X for READQ
'06'X for DELETEQ

The existence bits (TS_BITS1) specify the parameters that are
valid for this command.
For example, TS_EXIST7 set on indicates that TS_ADDR7 is valid,
meaning that it addresses a SYSID value.
TS_ADDR0 is always valid and has no existence bit.
A user exit program at XTSEREQ can set the TS_EXIST7 bit on or
off for all TS commands. All other changes will be ignored.
--</pre></td>
(2)	BIT(8)	1	TS_BITS1	
	1...		TS_EXIST1	QUEUE/QNAME -
	1...		TS_QUEUE_V	ALWAYS SET
	1...		TS_WRITEQ_ QUEUE_V	
	1...		TS_READQ_ QUEUE_V	
	1...		TS_DELETEQ_ QUEUE_V	
	.1..		TS_EXIST2	
	.1..		TS_WRITEQ_ FROM_V	
	.1..		TS_READQ_ SET_INTO_V	
	..1.		TS_EXIST3	
	..1.		TS_LENGTH_V	
	..1.		TS_WRITEQ_ LENGTH_V	
	..1.		TS_READQ_ LENGTH_V	
	...1		TS_EXIST4	
	...1		TS_READQ_ NUMITEMS_V	
	.... 1...		TS_EXIST5	
	.... 1...		TS_WRITEQ_ ITEM_NUMITEMS_V	
	.... 1...		TS_READQ_ ITEM_V	
	.... .1..		*	
	.... ..1.		TS_EXIST7	
	.... ..1.		TS_SYSID_V	
	.... ..1.		TS_WRITEQ_ SYSID_V	
	.... ..1.		TS_READQ_ SYSID_V	

Table 709. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... ..1.		TS_DELETEQ_ SYSID_V	
	1		*	Reserved
(3)	BIT(16)	2	*	Reserved
	-- The next 4 bytes (TS_EIDOPT5 - TS_EIDOPT8) are the flagword bits. Some bits have more than one meaning, depending on the command function, and these are named accordingly. A user exit program at XTSEREQ can set the TS_WRITEQ_MAIN_X and TS_WRITEQ_NOSUSPEND_X bits on or off for all WRITEQ commands. All other changes will be ignored. --			
(5)	BIT(8)	1	TS_EIDOPT5	
	1...		TS_QNAME_X	QNAME,otherwise QUEUE
	.111 111.		*	Reserved
	1		TS_READQ_SET_X	SET, otherwise INTO
(6)	BIT(8)	1	TS_EIDOPT6	
(6)	BIT(8)	1	*	Reserved
(7)	BIT(8)	1	TS_EIDOPT7	
	111.		*	Reserved
	...1		TS_WRITEQ_ NOSUSPEND_X	
				NOSUSPEND
	.... 1...		*	
	.... 1...		TS_WRITEQ_ MAIN_X	MAIN, otherwise AUXILIARY
	.... 1...		TS_READQ_ ITEM_X	ITEM
	.... .1..		*	
	.... .1..		TS_WRITEQ_ REWRITE_X	
				REWRITE
	.... .1..		TS_READQ_ NUMITEMS_X	
				NUMITEMS
	11		*	
(8)	BIT(8)	1	TS_EIDOPT8	
	1...		*	
	1...		TS_WRITEQ_ ITEM_X	ITEM, otherwise NUMITEMS
	.111 1111		*	

```
        The following definitions are for the rest of the arguments in
        the EXEC parameter list, addressed by TS_ ADDR1 - TS_ ADDR7 in
        TS_ADDR_LIST.
```

Table 710.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	TS_DATA1	
(0)	CHARACTER	8	TS_QUEUE	the QUEUE name
(0)	CHARACTER	8	TS_WRITEQ_QUEUE	
(0)	CHARACTER	8	TS_READQ_QUEUE	
(0)	CHARACTER	8	TS_DELETEQ_ QUEUE	

Table 711.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	TS_DATA1X	
(0)	CHARACTER	16	TS_QNAME	the QNAME, if specified
(0)	CHARACTER	16	TS_WRITEQ_QNAME	
(0)	CHARACTER	16	TS_READQ_QNAME	
(0)	CHARACTER	16	TS_DELETEQ_ QNAME	

Table 712.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	TS_DATA2	
(0)	CHARACTER	*	TS_READQ_INTO	the INTO area
(0)	CHARACTER	*	TS_WRITEQ_FROM	the FROM area
(0)	ADDRESS	4	TS_READQ_SET	SET address

Table 713.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2	TS_DATA3	
(0)	HALFWORD	2	TS_LENGTH	the record LENGTH
(0)	HALFWORD	2	TS_WRITEQ_ LENGTH	
(0)	HALFWORD	2	TS_READQ_ LENGTH	

Table 714.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2	TS_DATA4	
(0)	HALFWORD	2	TS_READQ_ NUMITEMS	NUMITEMS value for READQ

Table 715.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2	TS_DATA5	

Table 715. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	TS_WRITEQ_ NUMITEMS	NUMITEMS value for WRITEQ
(0)	HALFWORD	2	TS_ITEM	the ITEM value
(0)	HALFWORD	2	TS_WRITEQ_ITEM	
(0)	HALFWORD	2	TS_READQ_ITEM	

Table 716.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	TS_DATA7	
(0)	CHARACTER	4	TS_SYSID	the SYSID name
(0)	CHARACTER	4	TS_WRITEQ_SYSID	
(0)	CHARACTER	4	TS_READQ_SYSID	
(0)	CHARACTER	4	TS_DELETEQ_ SYSID	

Constants

Table 717.

Len	Type	value	Name	Description
Equate for TS_GROUP. All Temporary Storage requests have group code '0A'				
1	HEX	0A	TS_TEMPSTOR_GROUP	
Equates for TS_FUNCT values.				
1	HEX	02	TS_WRITEQ	WRITEQ
1	HEX	04	TS_READQ	READQ
1	HEX	06	TS_DELETEQ	DELETEQ
Start of General Use Programming Interface. Equates for EIBRCODE values used by Temporary Storage.				
1	HEX	00	TS_OK_EIBRCODE	
1	HEX	20	TS_INVREQ_EIBRCODE	
1	HEX	04	TS_IOERR_EIBRCODE	
1	HEX	D1	TS_ISCINVREQ_ EIBRCODE	
1	HEX	01	TS_ITEMERR_ EIBRCODE	
1	HEX	E1	TS_LENGERR_ EIBRCODE	
1	HEX	08	TS_NOSPACE_ EIBRCODE	
1	HEX	D6	TS_NOTAUTH_ EIBRCODE	
1	HEX	02	TS_QIDERR_EIBRCODE	
1	HEX	D0	TS_SYSIDERR_ EIBRCODE	

Table 717. (continued)

Len	Type	value	Name	Description
1	HEX	03	TS_LOCKED_EIBRCODE	
Equates for EIBRESP values used by Temporary Storage.				
1	DECIMAL	0	TS_OK_EIBRESP	
1	DECIMAL	16	TS_INVREQ_EIBRESP	
1	DECIMAL	17	TS_IOERR_EIBRESP	
1	DECIMAL	54	TS_ISCINVREQ_EIBRESP	
1	DECIMAL	26	TS_ITEMERR_EIBRESP	
1	DECIMAL	22	TS_LENGERR_EIBRESP	
1	DECIMAL	18	TS_NOSPACE_EIBRESP	
1	DECIMAL	70	TS_NOTAUTH_EIBRESP	
1	DECIMAL	44	TS_QIDERR_EIBRESP	
1	DECIMAL	53	TS_SYSIDERR_EIBRESP	
1	DECIMAL	100	TS_LOCKED_EIBRESP	
Equates for EIBRESP2 values used by Temporary Storage.				
1	DECIMAL	0	TS_OK_EIBRESP2	OK
1	DECIMAL	101	TS_NOTAUTH_EIBRESP2	NOTAUTH
1	DECIMAL	0	TS_LOCKED_EIBRESP2	LOCKED *-*-**-**-**-**-**-**-**-**-* *-*-**-**-**-**-**-**-**-* *-*-* End of General Use **-* *-* Programming Interface *-* *-*-*-**-**-**-**-**-**-*-*-*

TTP Terminal type parameter

```
MODULE NAME = DFHTTPDS
DESCRIPTIVE NAME  = CICS Terminal Type Parameter
  @BANNER_START 02

                      DFHTTPDS
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION = Defines the terminal type parameter. This control
           block contains terminal type or partition or LDC
           specific data. The OSPWA addresses a chain of direct
           TTPS (one per partition or LDC) and if routing is in
           effect the OSPWA addresses a chain of routed TTPS, one
           per target terminal type. Note that routing and LDCS
           or partitions are mutually exclusive. TTPS are built by
           DFHRLR, and freed by DFHMCP on SEND PAGE.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NONE
```

```
        MODULE TYPE = DSECT
        MODULE SIZE = xxxx (ddddd DECIMAL) BYTES
        ATTRIBUTES = DSECT
      ENTRY POINT = NOT APPLICABLE
       PURPOSE = SEE FUNCTION
       LINKAGE = NOT APPLICABLE
      INPUT = NOT APPLICABLE
      OUTPUT = NOT APPLICABLE
      EXIT-NORMAL = NOT APPLICABLE
      EXIT-ERROR = NOT APPLICABLE
      EXTERNAL REFERENCES = NOT APPLICABLE
       CONTROL BLOCKS = NOT APPLICABLE
       TABLES = NONE
       MACROS = NONE
                    TERMINAL TYPE PARAMETERS
                     COMMON CONTROL AREA
```

Table 718.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTTPCM	DUMMY SECTION PART 1 - TTP
(0)	DBL WORD	8		STORAGE ACCOUNTING INFORMATION; STORAGE CLASS=USER
(0)		0	TTPSTRT	"*"
(8)	CHARACTER	8	TTPCBID	TTP SELF IDENTIFICATION. SET TO 'DFHTTPDS' WHEN TTP CREATED
(8)		0	TTPSTRT1	"*" START OF REAL TTP DATA
(10)	BITSTRING	2	TTPTTID (0)	TERMINAL TYPE PARAMETER ID
'TTPDDS' & 'TTPMSUFX' EQUATES CAN BE FOUND AT END OF DSECT				
(10)	BITSTRING	1	TTPDDS	DEVICE DEPENDENCE SUFFIX
(11)	BITSTRING	1	TTPMSUFX	MAP SUFFIX
(12)	CHARACTER	2	TTPLDCMN	LOGICAL DEVICE CODE MNEMONIC OR OUTPARTN VALUE I.E. NAME OF O/P PARTITION
(14)	BITSTRING	1	TTPLDCTT	LDC TERMINAL TYPE
(15)	BITSTRING	1	TTPDSP	DATA STREAM PROFILE
(16)	BITSTRING	2	TTPTFS (0)	ALL TERMINAL FEATURES BYTES
(16)	BITSTRING	1	TTPTF	FLAGS FROM 'TCTTETF'

Table 718. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(17)	BITSTRING	1	TTPTF2 (0)	TERMINAL FEATURES (CONTD)
EQUATES FOR 'TTPTFS' ARE THE SAME AS FOR 'TCTTETF'				
(17)	BITSTRING	1	TTPDVC	BMS DEVICE FROM 'TCTTEDVC'
(18)	HALFWORD	2	TTPTCNT	COUNT OF TERMINAL IDENTIFICATION IN THIS TTP
(1A)	BITSTRING	4	TTPPOF (0)	PAGEBLD OVERFLOW INFORMATION
(1A)	HALFWORD	2	TTPPGNO	CURRENT PAGE NUMBER
(1C)	HALFWORD	2	TTPOCN	PAGEBLD OVERFLOW CONTROL NUMBER
(20)	ADDRESS	4	TTPCHAIN	ADDRESS OF NEXT TTP
(24)	ADDRESS	4	TTPPGBUF	ADDRESS OF PAGE BUILD BUFFER
(28)	ADDRESS	4	TTPDCCAD	A(DEVICE CONTROL CHARACTER SET)
(2C)	ADDRESS	4	TTPMLA	A(ALREADY LOADED MAP(SET))
(30)	ADDRESS	4	TTPMAPA	MAP ADDRESS WITHIN MAPSET
(34)	ADDRESS	4	TTPMMFCP	LAST MODIFIED MAP (FORWARD CHAIN POINTER) OR CURRENT MCA ADDRESS *
(38)	ADDRESS	4	TTPTFMA	TAB FORMAT MAP ADDRESS
(3C)	CHARACTER	2	TTPEAVAF (0)	VALID DEST ATTRIBUTES
(3C)	BITSTRING	1	TTPEAVAL	VALID ATTRS FOR DEST--BYTE1
(3D)	BITSTRING	1	TTPEAVA2	VALID ATTRS FOR DEST--BYTE2
(3E)	BITSTRING	1	TTPEAVA3	RESERVED
(3F)	CHARACTER	2	TTPEAUSF (0)	DATASTREAM ATTRIBUTES
(3F)	BITSTRING	1	TTPEAUSE	ATTRS USED IN DATASTREAM-- BYTE1

Table 718. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	BITSTRING	1	TTPEAUS2	ATTRS USED IN DATASTREAM--BYTE2
(41)	BITSTRING	1	TTPEAUS3	RESERVED
EQUATES FOR TTPEAVAL AND TTPEAUSE				
(41)	BITSTRING	0	TTPEXTDS	"X'80'" IN TTPEAVAL: EXTENDED DATASTREAM SUPPORTED BY DESTINATION IN TTPEAUSE: EXTENDED ATTRS PRESENT FOR SOME MAP IN CURRENT PAGE
(41)	BITSTRING	0	TTPEACOL	"X'40'" COLOUR ATTR SUPPORTED/USED
(41)	BITSTRING	0	TTPEAPSS	"X'20'" PSS ATTR SUPPORTED/USED
(41)	BITSTRING	0	TTPEAHLT	"X'10'" HILIGHT ATTR SUPPORTED/USED
(41)	BITSTRING	0	TTPEAVLD	"X'08'" VALIDATION ATTRIBUTES SUPPORT / USED
(41)	BITSTRING	0	TTPEAPRT	"X'04'" PARTITIONS SUPPORTED
(41)	BITSTRING	0	TTPEAMSR	"X'02'" MSR SUPPORTED/USED
(41)	BITSTRING	0	TTPEAAPR	"X'01'" ACTIVATE PARTITION USED
EQUATES FOR TTPEAVA2 AND TTPEAUS2				
(41)	BITSTRING	0	TTPEAFRL	"X'80'" OUTLINE ATTR SUPPORTED/USED
(41)	BITSTRING	0	TTPEAMIX	"X'40'" SOSI ATTR SUPPORTED/USED
(41)	BITSTRING	0	TTPEABTR	"X'20'" BACKGROUND TRANSP SUPP/USED
(41)	BITSTRING	0	TTPEASA	"X'01'" SA SUPPORTED/USED
(42)	CHARACTER	1	TTPASUFX	ALTERNATE SUFFIX FROM TCTTE
(43)	CHARACTER	1	TTPTSQUL	TEMPORARY STORAGE QUALIFICATION

Table 718. (continued)

Offset Hex	Type	Len	Name (dim)	Description
CONTROL RECORD (MCR)				
(44)	CHARACTER	1	TTPMSZL	MAP HEIGHT IN LINES
(45)	CHARACTER	1	TTPMSZC	MAP WIDTH IN COLUMNS
(46)	CHARACTER	1	TTPMSL	RELOCATED MAP LINE POSITION
(47)	CHARACTER	1	TTPMSC	RELOCATED MAP COLUMN POSN
(48)	CHARACTER	8	TTPMLN	NAME BY WHICH MAP GOT LOADED
(50)	HALFWORD	2	TTPTXPTR	TEXTBLD TIOA POINTER, SAVE AREA
(52)	HALFWORD	2	TTPDATO	OFFSET FROM PBDDSADR TO DATA
(54)	HALFWORD	2	TTPCURSR	CURSOR POSITION
(58)	ADDRESS	4	TTP32SFP	ADDRESS OF 3270E OUTBOUND STRUCTURED FIELD
(5C)	BITSTRING	2	TTPDSPSZ (0)	MOST RESTRICTIVE DISPLAY SIZE
(5C)	BITSTRING	1	TTPLINES	MOST RESTRICTIVE DISPLAY LENGTH
(5D)	BITSTRING	1	TTPCOLS	MOST RESTRICTIVE DISPLAY WIDTH
(5E)	BITSTRING	1	TTPPFTS	TRAILER SIZE (NUMBER OF LINES)
(5F)	BITSTRING	1	TTPTFMI	TAB FORMAT MAP INDICATOR
(5F)	BITSTRING	0	TTPTFMH	"X'20'" HORIZONTAL TABS
(5F)	BITSTRING	0	TTPTFMV	"X'40'" VERTICAL TABS
(60)	BITSTRING	1	TTPIND01 (0)	TTP INDICATOR ONE
(60)	BITSTRING	1	TTPREQ	PAGE BUILD REQUEST CONTROL BYTE
(60)	BITSTRING	0	TTPTXTO	"X'80'" TEXTBLD PAGE OVERFLOW
(60)	BITSTRING	0	TTP3270	"X'40'" 3270 INDICATOR
(60)	BITSTRING	0	TTPSM	"X'20'" TTPMLN CONTAINS A SUFFIXED NAME

Table 718. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(60)	BITSTRING	0	TTPTXTB	"X'10'" TEXTBLD DATA IN BUFFER
(60)	BITSTRING	0	TTPERAS	"X'08'" ERASE WITH WRITE
(60)	BITSTRING	0	TTPML1	"X'04'" ML1 TO BE CALLED
(60)	BITSTRING	0	TTPJL	"X'02'" JUSTIFY = LAST
(60)	BITSTRING	0	TTPJF	"X'01'" JUSTIFY = FIRST
(61)	BITSTRING	1	TTPIND02	TTP INDICATOR TWO
(61)	BITSTRING	0	TTPOFIP	"X'80'" TEXTBLD OVERFLOW IN PROCESS
(61)	BITSTRING	0	TTPMAPIP	"X'40'" MAPPING IN PROCESS
(61)	BITSTRING	0	TTPHDRJP	"X'20'" HEADER JUST PROCESSED
(61)	BITSTRING	0	TTPALARM	"X'10'" USER SAID CTRL=ALARM -- SO DSB SETS ALARM IN 3601 FMH
(61)	BITSTRING	0	TTPWWW	"X'08'" WAIT WHEN WRITING THIS PAGE
(61)	BITSTRING	0	TTPPFODO	"X'04'" A PAGE WAS FORCED OUT DURING PAGEBLD OVERFLOW
(61)	BITSTRING	0	TTPLDCDF	"X'02'" DEFAULT TTP FOR LOGICAL DEVICE CODE PROCESSING
(61)	BITSTRING	0	TTPNXDC	"X'01'" NO INITIAL DDC ON PAGE 1
(62)	BITSTRING	1	TTPIND03	TTP INDICATOR THREE
(62)	BITSTRING	0	TTPMLDC	"X'80'" TTP HAS MULTIPLE LDC'S OR PARTITIONS
(62)	BITSTRING	0	TTPDIRCT	"X'40'" THIS IS A DIRECT TTP
(62)	BITSTRING	0	TTPTRAN	"X'20'" 3270 TRANSPARENCY NEEDED

Table 718. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(62)	BITSTRING	0	TTPTRAND	"X'10'" 3270 TRANSPARENCY ALLOWED FOR IN TIOA
(62)	BITSTRING	0	TTPWSFYS	"X'08'" WSF NEEDED FOR THIS PAGE
(62)	BITSTRING	0	TTPDOOBF	"X'04'" DOING OUTBOARD FORMATTING
(62)	BITSTRING	0	TTPEAU	"X'02'" ERASE ALL UNPROTECTED
(62)	BITSTRING	0	TTPFMHYS	"X'01'" FMH PRESENT IN THIS PAGE
(63)	BITSTRING	4	TTPPFWRK (0)	PAGE FORMATTING WORK AREA
TTPPFWRK'S FIELDS ARE SEQUENCE SENSITIVE TO THE FIELDS IN OSPPFWRK				
(63)	BITSTRING	1	TTPPFCL	CURRENT LINE POINTER
(64)	BITSTRING	1	TTPPFNFL	NEXT AVAILABLE FULL LINE POINTER
(65)	BITSTRING	1	TTPPFNCL	NEXT AVAILABLE COLUMN FROM LEFT
(66)	BITSTRING	1	TTPPFNCR	NEXT AVAILABLE COLUMN FROM RIGHT
(67)	BITSTRING	1	TTPPFLRC	LAST REQUESTED COLUMN FROM LEFT
(68)	BITSTRING	1	TTPPFRRC	LAST REQUESTED COLUMN FROM RIGHT
(69)	BITSTRING	1	TTPFPCNT	NUMBER OF FMH PARAMETERS ON THIS PAGE
(69)	SIGNED	0	TTPMXFMP	"30" MAXIMUM NUMBER OF FMH PARAMETERS PER PAGE IS 30
(6A)	BITSTRING	1	TTPIND06	TTP INDICATOR SIX
(6A)	BITSTRING	0	TTPASCSA	"X'80'" TTP FOR ALTERNATE SCREEN SIZE
(6B)	BITSTRING	1	TTPIND04	TTP INDICATOR FOUR
(6B)	BITSTRING	0	TTP36OBF	"X'80'" 3650 OBF NEEDED FOR THIS PAGE

Table 718. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6B)	BITSTRING	0	TTPWSOBF	"X'40'" WSF OBF NEEDED FOR THIS PAGE
(6B)	BITSTRING	0	TTPNUSED	"X'20'" DIRECT TTP IS NOT USED
(6B)	BITSTRING	0	TTPPRTN	"X'10'" THIS TTP IS FOR A PARTITION
(6B)	BITSTRING	0	TTPTPRT	"X'08'" TERM SUPPORTS PARTITIONS M32 BUILDS 3270E OUTBOUND
(6B)	BITSTRING	0	TTPMODOR	"X'04'" OBF MAP HAS BEEN RELOCATED
(6B)	BITSTRING	0	TTPMAP1	"X'02'" THE FIRST MAP IN A CHAIN OF MAP COPIES IS BEING HANDLED
(6B)	BITSTRING	0	TTPMHCRT	"X'01'" A MAP HEADER EXTENSION AREA MUST BE CREATED
(6C)	HALFWORD	2	TTPSCSA (0)	SCREEN SIZE (MINIMUM)
(6C)	CHARACTER	1	TTPSCSL	SCREEN SIZE LINES
(6D)	CHARACTER	1	TTPSCSC	SCREEN SIZE COLUMNS
(6E)	CHARACTER	13	TTPATTR (0)	ATTRIBUTE WORK AREA
(6E)	CHARACTER	1	TTPFA	3270 ATTRIBUTE
(6F)	CHARACTER	12	TTPXATTR (0)	EXTENDED ATTRIBUTE WORK AREA
(6F)	CHARACTER	1	TTPCOL	COLOUR ATTRIBUTE
(70)	CHARACTER	1	TTPPSS	PSS ATTRIBUTE
(71)	CHARACTER	1	TTPHL	HIGHLIGHT ATTRIBUTE
(72)	CHARACTER	1	TTPVAL	VALIDATION ATTRIBUTE
(73)	CHARACTER	1	TTPOUTLN	OUTLINE ATTRIBUTE
(74)	CHARACTER	1	TTPSOSI	SOSI ATTRIBUTE
(75)	CHARACTER	1	TTPBKTRN	BACKGROUND TRANSPARENCY ATTR
(76)	CHARACTER	5		RESERVED

Table 718. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(7B)	CHARACTER	12	TTPTXAT (0)	EXTENDED ATTRIBUTE WORK AREA FOR TEXT BUILD
(7B)	CHARACTER	1	TTPTCOL	COLOUR ATTRIBUTE (TEXT BUILD)
(7C)	CHARACTER	1	TTPTPSS	PSS ATTRIBUTE (TEXT BUILD)
(7D)	CHARACTER	1	TTPTHL	HIGHLIGHT ATTRIBUTE(TEXT BUILD)
(7E)	CHARACTER	1	TTPTOUTL	OUTLINE ATTRIBUTE (TEXT BUILD)
(7F)	CHARACTER	1	TTPTBKTR	BACKGROUND TRANSPARENCY ATTRIBUTE (TEXT BUILD)
(80)	CHARACTER	7		RESERVED
(87)	BITSTRING	1	TTPIND05	TTP INDICATOR FIVE
(87)	BITSTRING	0	TTPPGPGB	"X'80'" PAGE BUILD ON THIS LDC/PARTN
(87)	BITSTRING	0	TTPPGTXB	"X'40'" TEXT BUILD ON THIS LDC/PARTN
(87)	BITSTRING	0	TTPPGNSC	"X'20'" SEND COMMAND OTHER THAN SEND CONTROL ON THIS PAGE
(87)	BITSTRING	0	TTP16BIT	"X'10'" PAGE HAS 14- OR 16-BIT SBAS
(87)	BITSTRING	0	TTPFF	"X'08'" FORM FEED REQUESTED
(87)	BITSTRING	0	TTPATSKP	"X'04'" NO ATTR FOR TEXT PRINTER
(87)	BITSTRING	0	TTPNOSC	"X'02'" REMOVE SO / SI CHARS IN DATA
(87)	BITSTRING	0	TTPKA	"X'01'" KATAKANA TERMINAL
(88)	CHARACTER	1	TTPOPPID	PID OF OUTPUT PARTITION
(89)	CHARACTER	2	TTPAPNM	NAME OF ACTIVE PARTITION

Table 718. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8B)	CHARACTER	1	TTPAPID	PID OF ACTIVE PARTITION
(8C)	CHARACTER	4	TTPMGMSR	MAGNETICS MSR VALUE
(90)	CHARACTER	8	TTPSFGNM	NAME OF SELECTED FORMAT GROUP FOR THIS PARTITION
(98)	CHARACTER	12	TTPSAVXR	TEMPORARY WORK AREA FOR DFHM32
(A4)	CHARACTER	12	TTPSAVX2	TEMPORARY WORK AREA FOR DFHM32
(B0)	DBL WORD	8	TTPCMEND (0)	END COMMON CONTROL AREA

```
THE REMAINING SECTION OF THE TTP REPEATS ITSELF WHENEVER ADDITIONAL
ADDRESS SPACE IS ACQUIRED TO CONTINUE THE ROUTE LIST FOR THAT
TERMINAL TYPE
          REPEATED ROUTE LIST AREA
```

Table 719.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHTTPRE	DUMMY SECTION PART 2 - TTP
(0)	CHARACTER	8	TTPRCBID	TTP SELF IDENTIFICATION. SET TO 'DFHTTPDS' WHEN TTPRE CREATED
(8)	ADDRESS	4	TTPRLCHA	ADDRESS OF NEXT ROUTE LIST SEGMENT
(8)		0	TTPRL	"*" START OF ROUTE LIST
(8)	SIGNED	0	RLENTRY	"8" NUMBER OF TCTTE ADDRESSES IN 1 SEGMENT OF ROUTE LIST
(8)		0	TTPRLES	"*" ROUTE LIST ENTRY START
(C)	ADDRESS	4	TTPTCTTE	TCTTE ADDRESS IF NOT REMOTE TERMINAL A(SKELETON TCTTE) OTHERWISE
(10)	BITSTRING	1	TTPLDCCD	LOGICAL DEVICE CODE (LDC)
(11)	CHARACTER	2	TTPLDMNM	LDC MNEMONIC
(13)	BITSTRING	1	TTPRETYP	ROUTE ENTRY TYPE

Table 719. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(13)	BITSTRING	0	TTPREREM	"X'80'" REMOTE TERMINAL
(14)	CHARACTER	3	TTPOPID	OPERATOR IDENTIFICATION
(17)	BITSTRING	1	TTPSF	PAGING STATUS FLAG ONLY
(17)		0	TTPSFPG	"TCTTEPGP" PAGING STATUS
REMAINING BIT VALUES IN 'TTPSF' UNAVAILABLE				
(18)	CHARACTER	8	TTPDSN	DESTINATION NAME
(18)		0	TTPRLEE	"*" ROUTE LIST ENTRY END
(18)		0	TTPRLEL	"TTPRLEE-TTPRLES" ROUTE LIST ENTRY LENGTH
(20)	BITSTRING	4	TTPSEEND	SINGLE ENTRY STOPPER
(C)	CHARACTER	0	(0)	ROUTE LIST
(AC)	BITSTRING	4	TTPRLEND	ROUTE LIST STOPPER
(AC)		0	TTPLENSE	"(TTPCMEND-TTPSTRT)+(TTPRLEE-DFHTTPRE)+L'TTP LENGTH OF SINGLE ENTRY TTP
(AC)		0	TTPLEN	"(TTPCMEND-TTPSTRT)+(*-DFHTTPRE)" LENGTH OF TTP
DEVICE DEPENDENCE SUFFIX (DDS)/MAP SET SUFFIX (MSS) EQUATES				
(0)	CHARACTER	0	DSCRLP	"C'A'" CRLP - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MSCRLP	"C'A'" MAP SET SUFFIX
(0)	CHARACTER	0	DSTAPE	"C'B'" TAPE - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MSTAPE	"C'B'" MAP SET SUFFIX
(0)	CHARACTER	0	DSDISK	"C'C'" DISK - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MSDISK	"C'C'" MAP SET SUFFIX
(0)	CHARACTER	0	DSTWX	"C'D'" TWX - DEVICE DEPEND SUFFIX

Table 719. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	0	MSTWX	"C'D'" MAP SET SUFFIX
(0)	CHARACTER	0	DS1050	"C'E'" 1050 - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS1050	"C'E'" MAP SET SUFFIX
(0)	CHARACTER	0	DSF22601	"C'S'" RESERVED
(0)	CHARACTER	0	MSF22601	"C'S'" RESERVED
(0)	CHARACTER	0	DSF22602	"C'T'" RESERVED
(0)	CHARACTER	0	MSF22602	"C'T'" RESERVED
(0)	CHARACTER	0	DS2740	"C'F'" 2740 WO/BUFFRECV- DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS2740	"C'F'" 2740 WO/BUFFRECV- MAP SET SUFFIX
(0)	CHARACTER	0	DS2740BR	"C'H'" 2740 W/BUFFRECV- DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS2740BR	"C'F'" MAP SET SUFFIX
(0)	CHARACTER	0	DS2741	"C'G'" 2741 - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS2741	"C'G'" MAP SET SUFFIX
(0)	CHARACTER	0	DS2770	"C'I'" 2770 - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS2770	"C'I'" MAP SET SUFFIX
(0)	CHARACTER	0	DS2780	"C'J'" 2780 - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS2780	"C'J'" MAP SET SUFFIX
(0)	CHARACTER	0	DS2980M4	"C'Q'" 2980 MOD 4 - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS2980M4	"C'R'" MAP SET SUFFIX
(0)	CHARACTER	0	DS2980	"C'Q'" 2980 - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS2980	"C'Q'" MAP SET SUFFIX
(0)	CHARACTER	0	DS327PM1	"C'N'" 3270-1 PRINTER - DEVICE DEPEND SUFFIX

Table 719. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	0	MS327PM1	"C'N'" DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	DS327PM2	"C'O'" 3270-2 PRINTER - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS327PM2	"C'O'" MAP SET SUFFIX
(0)	CHARACTER	0	DS3270M1	"C'L' 3270 MOD 1 - DEV DEP SUFFIX "
(0)	CHARACTER	0	MS3270M1	"C'L' MAP SET SUFFIX "
(0)	CHARACTER	0	DS3270M2	"C'M'" 3270 MOD 2 - DEV DEP SUFFIX
(0)	CHARACTER	0	MS3270M2	"C'M'" MAP SET SUFFIX
(0)	CHARACTER	0	DS3601	"C'U'" 3601 - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS3601	"C'U'" MAP SET SUFFIX
(0)	CHARACTER	0	DS327PHC	"C'Z'" 3650/3275HC PRINTER - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS327PHC	"C'Z'" MAP SET SUFFIX
(0)	CHARACTER	0	DS3270HC	"C'X'" 3650/3270HC - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS3270HC	"C'X'" MAP SET SUFFIX
(0)	CHARACTER	0	DS3650UP	"C'W'" 3650UP - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS3650UP	"C'W'" MAP SET SUFFIX
(0)	CHARACTER	0	DS3653	"C'V'" 3653 - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS3653	"C'V'" MAP SET SUFFIX
(0)	CHARACTER	0	DS3780	"C'K'" 3780 - DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MS3780	"C'K'" MAP SET SUFFIX
(0)	CHARACTER	0	DSINTLU	"C'P'" INT LU DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MSINTLU	"C'P'" MAP SET SUFFIX

Table 719. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	0	DSBCHLU	"C'Y'" BCH LU DEVICE DEPEND SUFFIX
(0)	CHARACTER	0	MSBCHLU	"C'Y'" MAP SET SUFFIX

UEFD User exit file and dataset information

```
              CONTROL BLOCK NAME = DFHUEFDS
              DESCRIPTIVE NAME  = CICS User Exit File and Dataset
           Information
                @BANNER_START 02
                                DFHUEFDS
                Licensed Materials - Property of IBM
                "Restricted Materials of IBM"
                5655-S97
                @BANNER_END
              FUNCTION =
                     This DSECT maps the information provided by File Control
                     to the FCFS User Exits :
                     XFCSREQ - Global User Exit called before the File Control
                               request.
                     XFCSREQC- Global User Exit called after the File Control
                               request has been processed.
              LIFETIME =
                     DFHFCFS supplies the information for this DSECT before
                     the global User Exits around File Open, Close, Enable
                     and Disable are called.
                     The information provided is valid for a single invocation
                     of the exit only.
              LOCATION =
                     The content of parameter UEPFINFO passed from DFHFCFS
                     on the Exit calls, is the address of this control block.
              NOTES :
                 DEPENDENCIES = S/370
                 RESTRICTIONS = None
                 MODULE TYPE = Control block definition
              -----------------------------------------------------------------
              EXTERNAL REFERENCES = None.
              -----------------------------------------------------------------
                   User Exit File Information Control Block
```

Table 720.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHUEFDS	
(0)	CHARACTER	8	UEFLNAME	File Name
(8)	CHARACTER	44	UEDSNAME	Data Set Name
This byte contains the servreq settings for the File				
(34)	BITSTRING	1	UEFSERV	Servreqs Indicator
(34)		0	UEFDSRI	"UEFSERV" Read Indicator
(34)	BITSTRING	0	UEFRDIM	"X'80'" Read Valid
(34)		0	UEFDSUPD	"UEFSERV" Read Update Indicator
(34)	BITSTRING	0	UEFUPDIM	"X'20'" Update Valid

Table 720. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)		0	UEFDSADD	"UEFSERV" Write New Record Indicator
(34)	BITSTRING	0	UEFADDIM	"X'10'" Add Valid
(34)		0	UEFDSDI	"UEFSERV" Deletion Validity Indicator
(34)	BITSTRING	0	UEFDELIM	"X'08'" Delete Valid
(34)		0	UEFBRWSE	"UEFSERV" Browse Validity Indicator
(34)	BITSTRING	0	UEFBRZIM	"X'02'" Browse Valid
Flags indicating Automatic Journalling and Logging Options				
(35)	BITSTRING	1	UEFDSJL	Journalling and Logging Indicator
(35)		0	UEFDSJRO	"UEFDSJL" Journal Read Only Indicator
(35)	BITSTRING	0	UEFJRO	"X'80'" Journal Read Only
(35)		0	UEFDSJRU	"UEFDSJL" Journal Read for Update Ind
(35)	BITSTRING	0	UEFJRU	"X'40'" Journal Reads for Update
(35)		0	UEFDSJWU	"UEFDSJL" Journal Write Updates Ind
(35)	BITSTRING	0	UEFJWU	"X'20'" Journal Write Updates
(35)		0	UEFDSJWA	"UEFDSJL" Journal Write Adds Indicator
(35)	BITSTRING	0	UEFJWA	"X'10'" Journal Write Adds
(35)		0	UEFDSJDS	"UEFDSJL" Dsname has been Journalled Ind
(35)	BITSTRING	0	UEFJDSN	"X'08'" Dsname has been Journalled
(35)		0	UEFDSJSY	"UEFDSJL" Synchronous Reads Journal Ind
(35)	BITSTRING	0	UEFJSYN	"X'04'" Synchronous Reads Journal
(35)		0	UEFDSJAS	"UEFDSJL" Asynchronous Writes Jrnl Ind
(35)	BITSTRING	0	UEFJASY	"X'02'" Asynchronous Writes Journal
A further automatic Journalling Option (VSAM only)				
(36)	BITSTRING	1	UEFDSVJL	VSAM Journalling Indicator

Table 720. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(36)	BITSTRING	0	UEFJWAC	"X'40'" Write Add Complete
Journal to be used for Automatic Journalling				
(37)	BITSTRING	1	UEFDSJID	User Journal Id
Access Method Indicator				
(38)	BITSTRING	1	UEFDSACC	Access Method
(38)	BITSTRING	0	UEFVSAM	"X'80'" Vsam
(38)	BITSTRING	0	UEFBDAM	"X'40'" Bdam
(38)	BITSTRING	0	UEFDTBL	"X'20'" Data table
(38)	BITSTRING	0	UEFDTUM	"X'10'" User data table
(38)	BITSTRING	0	UEFCFDT	"X'02'" Coupling Facility Data Table
Recovery Attributes of Base Cluster				
(39)	BITSTRING	1	UEFBCRV	Recovery Attrs of Base Cluster
(39)	BITSTRING	0	UEFBCFR	"X'20'" Forward Recovery
(39)	BITSTRING	0	UEFBCLOG	"X'10'" Logging
(39)	BITSTRING	0	UEFBCVAL	"X'08'" Valid Flag for Recovery Attrs
The following two fields identify the Forward Recovery Log The Forward Recovery Log may be specified on the CICS File definition (FCTE) or on the IDCAMs dataset definition for the associated sphere(VSAM Catalog). Where both are specified, the VSAM Catalog takes precedence and only the 26 character Logstream name from the catalog is passed to the User Exit. Where the Forward Recovery Log is only specified on the CICS File definition the 2 character log id is passed to the exit. Number of the Journal to be used for Forward Recovery (if any) This is the Forward Recovery Log Id from the FCTE if the FCTE is being used to set the FR Log. Zero will be passed in the following cases : (1) Forward Recovery not specified (2) The VSAM Catalog has been used to specify the log name				
(3A)	BITSTRING	1	UEFFRLOG	Forward Recovery Log Id
(3B)	BITSTRING	1		Reserved
Name of the Log to be used for Forward Recovery (if any) This is the Forward Recovery Log name from the VSAM Catalog Blanks will be passed in the following cases : (1) Forward Recovery not specified (2) The VSAM Catalog hasn't been used to specify the log name				
(3C)	CHARACTER	26	UEFFRCLG	FR Log from VSAM Catalog
(56)	CHARACTER	2		Reserved
Date and Time when last File against the VSAM Sphere Closed The date and time are in packed decimal format where s is the sign for the decimal number				

Table 720. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	FULLWORD	4	UEFCDATE	Date of Last Closure(yyyyddds)
(5C)	FULLWORD	4	UEFCTIME	Time of Last Closure(hhmmssts)
Availability Status				
(60)	ADDRESS	1	UEFBCAS	Availability State
(60)	BITSTRING	0	UEFBCUNA	"X'20'" Data set marked unavailable
(61)	CHARACTER	3		Reserved
Address of read only copy of ACB This address is only set up when calling the XFCSREQC user exit after the completion of a successful OPEN request. This field contains zero in all other cases. Note: If UEFDTBL and UEFDTUM have been set on, then the storage addressed by UEFACBCP is undefined.				
(64)	ADDRESS	4	UEFACBCP	Address of copy of ACB

UEPB User Exit Program Block

```
                    CONTROL BLOCK NAME = DFHUEPBC

                                             (progeny of DFHUEPBC)
                    DESCRIPTIVE NAME  = CICS (UE) User Exit Program Block DSECT
                       @BANNER_START 02
                                         DFHUEPBC
                       Licensed Materials - Property of IBM
                       "Restricted Materials of IBM"
                       5655-S97
                       @BANNER_END
                    FUNCTION = Copybook for EPB DSECT.
                        The EPBs are used by User Exits to hold information about
                        programs that have been enabled as User exit programs.
                        The EPBs are shared by the exit points that have had the
                        program enabled, so that there is only one EPB for a program
                        even if it has been enabled at multiple exit points.
                        They are chained off the UETHEPBC field in the User Exit
                        Table Header (UETH).
                        For a particular exit, when the first program is enabled for
                        the exit, an EPB is created (or reused if one already exists
                        for another exit). The address of the first EPB for an exit
                        point is stored in the User Exit Table Entry (UETE) for that
                        exit point.
                        For every subsequent program enabled at the same exit point,
                        an EPL will be created. This EPL chain is also chained off
                        the UETE. The EPLs simply point to EPBs for all the programs
                        enabled for an exit point.
                     NOTES :
                      DEPENDENCIES = S/370
                      RESTRICTIONS = None
                      MODULE TYPE = Control block definition
                    -----------------------------------------------------------
```

Table 721.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	112	DFHEPB	EPB CONTROL BLOCK

Table 721. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	4	EPBSAA	STORAGE ACCOUNTING AREA
(4)	ADDRESS	4	EPBCHAIN	ADDRESS OF NEXT EPB
(8)	CHARACTER	8	EPBEPN	NAME OF EXIT PROGRAM
(10)	ADDRESS	4	EPBEPA	ADDRESS OF EXIT PROGRAM
(14)	ADDRESS	4	EPBGAA	ADDRESS OF GLOBAL AREA
(18)	HALFWORD	2	EPBGAL	LENGTH OF GLOBAL AREA
(1A)	HALFWORD	2	EPBGCNT	GLOBAL AREA USE-COUNT
(1C)	FULLWORD	4	EPBTCNT	TIE-COUNT
(20)	CHARACTER	8	EPBTICHN_CDS	
(20)	ADDRESS	4	EPBTICHN	Anchor for unused TIEs
(24)	FULLWORD	4	EPBTICHN_CT	Security counter
(28)	CHARACTER	8	EPBCNTS_CDS	
(28)	FULLWORD	4	EPBINST	Instance count
(2C)	FULLWORD	4	EPBICNT	Invocation count & start bit Bit 0 on = started
(2C)	BIT(8)	1	*	
	1...		UESTART	X'80'
	.111 1111		*	reserved
(2D)	UNSIGNED	3	*	reserved
(30)	HALFWORD	2	EPBACNT	ACTIVATION COUNT
(32)	HALFWORD	2	EPBTAL	LENGTH OF TASK AREA
(34)	BIT(8)	1	EPBFLAGS	FLAG-BYTE
	1...		UENODEL	X'80' prog loaded by user - do not delete when disabling
	.1..		*	X'40' reserved
	..1.		UEDISABL	X'20' entryname is disabled
	...1		UERESYNC	X'10' exec resync issued
	.... 1...		UELINKAM	X'08' linkeditmode specified

Table 721. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		UEIDWAIT	X'04' indoubtwait specified
	.... ..1.		UEPURGE	X'02' purgeable specified
	1		*	reserved
(35)	CHARACTER	3	*	Reserved
(38)	FULLWORD	4	EPBBIND	INTEREST PROFILE
(3C)	CHARACTER	8	EPBEMN	LOAD-MODULE NAME
(44)	CHARACTER	8	EPBQUAL	Qualifier to TRUE's name
(4C)	CHARACTER	8	EPBTSPTK	TIE STORAGE SUBPOOL TOKEN
(54)	ADDRESS	4	EPBTIEA	Addr of TIE resvd for shutdwn
(58)	ADDRESS	4	EPBPGTKN	Program Token
(5C)	CHARACTER	8	EPBENTIM	Time EPB built
(64)	CHARACTER	2	EPBTPGMM	TRUE's program_mode
(66)	CHARACTER	2	EPBGPGMM	GLUE's program_mode
(68)	UNSIGNED	4	EPBTPGMT	TRUE's program_modetoken
(6C)	FULLWORD	4	EPBPUCNT	Exit program use count
(70)	CHARACTER	0	EPBEND	End

Constants

Table 722.

Len	Type	value	Name	Description
Length of the EPB control block				
2	DECIMAL	112	EPBLEN	EPB length

UEPL User Exit Program Link

```
CONTROL BLOCK NAME = DFHUEPLC
                                    (progeny of DFHUEPLC)
DESCRIPTIVE NAME  = CICS (UE) User Exit Program Link DSECT
   @BANNER_START 02
                       DFHUEPLC
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = Copybook for EPL DSECT.
   The EPLs are used by User Exits to link User Exit Blocks
   (EPBs) together. There is one EPB per enabled program, and
   the EPBs are shared by the exit points that have had the
```

```
                             program enabled.
                             For a particular exit, when the first program is enabled for
                             the exit, an EPB is created (or reused if one already exists
                             for another exit). The address of the first EPB is stored in
                             the User Exit Table Entry (UETE) for that exit point.
                             For every subsequent program enabled at the same exit point,
                             an EPL will be created. This EPL chain is also chained off
                             the UETE. The EPLs simply link to EPBs for all the programs
                             enabled for an exit point.
                       NOTES :
                        DEPENDENCIES = S/370
                        RESTRICTIONS = None
                        MODULE TYPE = Control block definition
                   -------------------------------------------------------------------
```

Table 723.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	DFHEPL	EXIT PROGRAM LINK
(0)	CHARACTER	4	EPLSAA	STORAGE ACCOUNTING AREA
(4)	ADDRESS	4	EPLNEPL	ADDRESS OF NEXT EPL
(8)	CHARACTER	8	EPLENTIM	TIME EPL BUILT
(10)	ADDRESS	4	EPLEPBA	ADDRESS OF EPB
(14)	FULLWORD	4	EPLINST	INSTANCE NUMBER
(18)	CHARACTER	0	EPLEND	END

UEPAR Task related user exit plist

```
                   CONTROL BLOCK NAME = DFHUERMD
                   DESCRIPTIVE NAME  = CICS USER EXIT MACRO CALL, TYPE=RM
                      @BANNER_START 02
                                          DFHUERMD
                      Licensed Materials - Property of IBM
                      "Restricted Materials of IBM"
                      5655-S97
                      @BANNER_END
                   FUNCTION =
                         Exercise the DFHUEXIT TYPE=RM option.
                         This is part of the CICS User Exits support
                         The DFHUEXIT TYPE=RM gives the programmer access to the
                         parameter list for a task related user exit (TRUE).
                         An instance of the control block represents one task
                         related user exit.
                   LIFETIME =
                   STORAGE CLASS =
                   LOCATION =
                   INNER CONTROL BLOCKS = This copybook calls DFHUEXIT TYPE=RM
                   NOTES :
                      DEPENDENCIES = S/370
                      RESTRICTIONS = None
                      MODULE TYPE = Control block definition
                   -------------------------------------------------------------------
                   EXTERNAL REFERENCES = Not applicable
                       DATA AREAS = This copybook generates an entry in Data Areas
                           Manual for DFHUEXIT TYPE=RM.
```

```
           CONTROL BLOCKS = Not applicable
           GLOBAL VARIABLES (Macro pass) = Not applicable
     ----------------------------------------------------------------
```

Table 724.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHUEPAR	
(0)	ADDRESS	4	UEPEXN	ADDRESS OF EXIT NUMBER
(4)	ADDRESS	4	UEPGAA	ADDRESS OF GLOBAL AREA ((ZERO=NO WORK AREA)
(8)	ADDRESS	4	UEPGAL	ADDRESS OF GLOBAL AREA LENGTH
(C)	ADDRESS	4	UEPCRCA	ADDRESS OF CURRENT RETURN-CODE
(10)	ADDRESS	4	UEPTCA	(reserved)
(14)	ADDRESS	4	UEPCSA	(reserved)
(18)	ADDRESS	4	UEPEPSA	ADDRESS OF REGISTER SAVE AREA FOR USE BY EXIT PROGRAM
(1C)	ADDRESS	4	UEPHMSA	ADDRESS OF SAVE AREA USED FOR HOST MODULE'S REGISTERS
END OF RETURN CODE EQUATES				
(1C)	BITSTRING	0	UERTPREP	"X'80'" PREPARE
(1C)	BITSTRING	0	UERTCOMM	"X'40'" COMMIT UNCONDITIONALLY
(1C)	BITSTRING	0	UERTBACK	"X'20'" BACKOUT
(1C)	BITSTRING	0	UERTDGCS	"X'10'" LOST TO CICS INITIAL START
(1C)	BITSTRING	0	UERTDGNK	"X'08'" RM SHOULD NOT BE IN-DOUBT
(1C)	BITSTRING	0	UERTWAIT	"X'04'" RM WILL HAVE TO WAIT FOR OUTCOME
(1C)	BITSTRING	0	UERTRSYN	"X'02'" RESYNC
(1C)	BITSTRING	0	UERTLAST	"X'01'" LAST COMMIT/ABORT IN THREAD
(1C)	BITSTRING	0	UERTONLY	"X'80'" RM IS ONLY UPDATER - TRUE CAN PERFORM SINGLE PHASE COMMIT

Table 724. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1C)	BITSTRING	0	UERTELUW	"X'40'" RM IS READ ONLY - TRUE CAN INVOKE RM WITH END LUW CALL.
(1C)	SIGNED	0	UERFPREP	"4" VOTE-YES
(1C)	SIGNED	0	UERFBACK	"8" VOTE-NO
(1C)	SIGNED	0	UERFNLOG	"12" VOTE-YES-BUT-DO-NOT-LOG
(1C)	SIGNED	0	UERFDONE	"4" COMMIT/ABORT COMPLETE
(1C)	SIGNED	0	UERFHOLD	"8" REMEMBER COMMIT/ABORT
(1C)	SIGNED	0	UERFOK	"4" SINGLE PHASE (UERTONLY): COMMITTED OK
(1C)	SIGNED	0	UERFBOUT	"8" SINGLE PHASE (UERTONLY): BACKED OUT
(1C)	BITSTRING	0	UERTEOTR	"X'80'" END OF THREAD
(1C)	BITSTRING	0	UERTSOTR	"X'40'" START OF TASK
(1C)	BITSTRING	0	UERTRTTR	"X'82'" no longer used
(1C)	BITSTRING	0	UERTRTST	"X'42'" no longer used
(1C)	SIGNED	0	UERFEOTR	"4" CALL UNDERSTOOD
(1C)	BITSTRING	0	UERTCONN	"X'80'" EXTERNAL RESOURCE MANAGER IS
(1C)	BITSTRING	0	UERTNCON	"X'40'" EXTERNAL RESOURCE MANAGER IS NOT
(1C)	BITSTRING	0	UERTCORD	"X'80'" CICS Orderly Termination
(1C)	BITSTRING	0	UERTCIMM	"X'40'" CICS Immediate Termination
(1C)	BITSTRING	0	UERTCABY	"X'20'" CICS ABEND (Retry possible - TCBs Dispatchable)
(1C)	BITSTRING	0	UERTCABN	"X'10'" CICS ABEND (Retry NOT possible - TCBs Dispatchable)
(1C)	BITSTRING	0	UERTOPCA	"X'01'" Operator Cancel (Retry NOT possible - TCBs NOT dispatchable)

Table 724. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	ADDRESS	4	UEPURID	ADDRESS OF LUW-ID
(24)	ADDRESS	4	UEPTAA	ADDRESS OF TASK AREA
(28)	ADDRESS	4	UEPTAL	ADDRESS OF TASK AREA LENGTH
(2C)	ADDRESS	4	UEPEIB	ADDRESS OF CURRENT EIB
(30)	ADDRESS	4	UEPFLAGS	ADDRESS OF FLAGWORD
(34)	ADDRESS	4	UEPRMSTK	ADDRESS OF KERNEL STACK ENTRY
(38)	ADDRESS	4	UEPUOWDS	ADDRESS OF LU6.2 UNIT OF WORK ID
(3C)	ADDRESS	4	UEPSECFLG	ADDRESS OF USER SECURITY BLOCK FLAG
(3C)	BITSTRING	0	UEPNOSEC	"X'80'" SECURITY INACTIVE FOR THIS SYSTEM
(3C)	BITSTRING	0	UEPSEC	"X'20'" SECURITY ACTIVE FOR THIS SYSTEM
(40)	ADDRESS	4	UEPSECBLK	ADDRESS OF ADDRESS OF USER SECURITY BLOCK
(44)	ADDRESS	4	UEPRMQUA	ADDRESS OF RM QUALIFIER
(48)	FULLWORD	4	UEPCALAM	ADDRESS OF CALLER AMODE INDICATION BYTE
(48)	BITSTRING	0	UEPCAM31	"X'80'" INDICATES ORIGINAL CALLER WAS AMODE 31
(4C)	ADDRESS	4	UEPSYNCA	ADDRESS OF PARMS PASSED TO SYNC PT.
(4C)	BITSTRING	0	UEPSUPDR	"X'80'" RM UNDERSTANDS SINGLE UPDATER PROTOCOL
(4C)	BITSTRING	0	UEPREADO	"X'40'" RM IS READ ONLY FOR THIS LUW
(50)	ADDRESS	4	UEPTIND	ADDRESS OF CALLER'S TASK INDICATORS

Table 724. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	BITSTRING	0	UEPTANY	"X'80'" DATA LOCATION ANY
(50)	BITSTRING	0	UEPTCICS	"X'40'" TASKDATAKEY = CICS
The following indicator is set after a failure to switch to the TCB expected by the TRUE. This is used only when the caller is Sync-Point or End_of_Task. All other callers are Abended.				
(50)	BITSTRING	0	UEPTUTCB	"X'20'" UNEXPECTED TCB
(50)	CHARACTER	0	UEPTQR	"C'QR',2" QUASI-REENTRANT (QR) TCB
(50)	CHARACTER	0	UEPTCO	"C'CO',2" CONCURRENT (CO) TCB
(50)	CHARACTER	0	UEPTRO	"C'RO',2" RESOURCE_OWNING (RO) TCB
(50)	CHARACTER	0	UEPTFO	"C'FO',2" FILE_OWNING (FO) TCB
(50)	CHARACTER	0	UEPTSZ	"C'SZ',2" FEPI (SZ) TCB
(50)	CHARACTER	0	UEPTRP	"C'RP',2" RP MODE TCB
(50)	CHARACTER	0	UEPTL8	"C'L8',2" AN OPEN TCB, CICS KEY
(50)	CHARACTER	0	UEPTL9	"C'L9',2" AN OPEN TCB, USER KEY
(50)	CHARACTER	0	UEPTSO	"C'SO',2" SOCKETS TCB
(50)	CHARACTER	0	UEPTSL	"C'SL',2" SOCKETS LISTENER TCB
(50)	CHARACTER	0	UEPTSP	"C'SP',2" SSL PTHREAD OWNING TCB
(50)	CHARACTER	0	UEPTS8	"C'S8',2" SSL TCB
(50)	CHARACTER	0	UEPTTP	"C'TP',2" THREAD OWNING TCB
(50)	CHARACTER	0	UEPTT8	"C'T8',2" THREAD TCB, CICS KEY
(50)	CHARACTER	0	UEPTJ8	"C'J8',2" A JAVA TCB
(50)	CHARACTER	0	UEPTJ9	"C'J9',2" A JAVA TCB, USER KEY
(50)	CHARACTER	0	UEPTJM	"C'JM',2" A MASTER JVM TCB

Table 724. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	CHARACTER	0	UEPTD2	"C'D2',2" CICS-DB2 HOUSEKEEPING TCB
(50)	CHARACTER	0	UEPTEP	"C'EP',2" EVENT PROCESSING TCB
(50)	CHARACTER	0	UEPTJS	"C'JS',2" JOBSTEP TCB
(54)	ADDRESS	4	UEPPBTOK	ADDRESS OF CALLER'S PB TOKEN
(58)	ADDRESS	4	UEPTRCE	Address of trace flag byte
(58)	BITSTRING	0	UEPTRLV1	"X'80'" RMI Level 1 trace active
(58)	BITSTRING	0	UEPTRLV2	"X'40'" RMI Level 2 trace active
(5C)	FULLWORD	4	UEPRMEND (0)	END of TYPE=RM Plist
(5C)		0	UEPRMLEN	"UEPRMEND-UEPEXN" Length of TYPE=RM Plist
	THE FOLLOWING EQU DEFINITIONS RELATE TO THE OBJECT THAT IS ADDRESSED BY UEPFLAGS, NOT TO UEPFLAGS ITSELF.			
	....		UEF0OFFS	"0" FIRST BYTE ...
	FIRST BYTE IS RESERVED FOR CICS/VS 1.5 COMPATIBILITY			
(5C)	SIGNED	0	UEF1OFFS	"1" SECOND BYTE
(5C)	SIGNED	0	UEF2OFFS	"2" THIRD BYTE
(5C)		0	UEFDTASK	"UEF2OFFS" BYTE-DISPL = 2
(5C)	SIGNED	0	UEFPTASK	"7" BIT-POSITN = 7
(5C)	BITSTRING	0	UEFMTASK	"X'01'" BIT-MASK
(5C)		0	UEFDCTER	"UEF2OFFS" BYTE-DISPL = 2
(5C)	SIGNED	0	UEFPCTER	"5" BIT-POSITION = 5
(5C)	BITSTRING	0	UEFMCTER	"X'04'" BIT-MASK
(5C)		0	UEFDFEDF	"UEF2OFFS" BYTE-DISPL = 2
(5C)	SIGNED	0	UEFPFEDF	"3" BIT-POSITION = 3
(5C)	BITSTRING	0	UEFMFEDF	"X'10'" BIT-MASK
(5C)		0	UEFDCON	"UEF2OFFS" BYTE-DISPL = 2
(5C)	SIGNED	0	UEFPCON	"1" BIT-POSITION = 1
(5C)	BITSTRING	0	UEFMCON	"X'40'" BIT-MASK
(5C)	SIGNED	0	UEF3OFFS	"3" FOURTH BYTE

Table 724. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5C)		0	UEFDSPI	"UEF3OFFS" BYTE-DISPL = 3
(5C)	SIGNED	0	UEFPSPI	"6" BIT-POSITN = 6
(5C)	BITSTRING	0	UEFMSPI	"X'02'" BIT-MASK
(5C)		0	UEFDAPPL	"UEF3OFFS" BYTE-DISPL = 3
(5C)	SIGNED	0	UEFPAPPL	"5" BIT-POSITN = 5
(5C)	BITSTRING	0	UEFMAPPL	"X'04'" BIT-MASK
(5C)		0	UEFDSYNC	"UEF3OFFS" BYTE-DISPL = 3
(5C)	SIGNED	0	UEFPSYNC	"3" BIT-POSITN = 3
(5C)	BITSTRING	0	UEFMSYNC	"X'10'" BIT-MASK

DUMMY SECTION FOR ROUTING FLAGS

Table 725.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHUEFLG	
(0)	BITSTRING	4		

DUMMY SECTION FOR ROUTING ARGUMENT

Table 726.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHUERTR	
(0)	BITSTRING	1	UERTFGP	FUNCTION GROUP
(1)	BITSTRING	1	UERTFID	ORIGIN-IDENTIFIER
(1)	SIGNED	0	UERTAPPL	"31-(UEFDAPPL*8+UEFPAPPL)" FROM API
(1)		0	UERTFAPI	"UERTAPPL" FROM API
(1)		0	UERTAPI	"UERTAPPL" FROM API
(1)	SIGNED	0	UERTSPI	"31-(UEFDSPI*8+UEFPSPI)" FROM SPI
(1)	SIGNED	0	UERTSYNC	"31-(UEFDSYNC*8+UEFPSYNC)" FROM SP-MGR
(1)	SIGNED	0	UERTTASK	"31-(UEFDTASK*8+UEFPTASK)" FROM TASK-MGR
(1)	SIGNED	0	UERTCTER	"31-(UEFDCTER*8+UEFPCTER)" FROM CICS-TERMINATION

Table 726. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	SIGNED	0	UERTFEDF	"31-(UEFDFEDF*8+UEFPFEDF)" FROM CEDF
(1)	SIGNED	0	UERTFCON	"31-(UEFDCON*8+UEFPCON)" FROM context mgt (START)
(1)	SIGNED	0	UERTRMSY	"32" FROM RMSY (NOT FOR RM)
(2)	BITSTRING	1	UERTOPT2	EIDOPT2.COPY
(3)	BITSTRING	1		RESERVED
(4)	ADDRESS	4	UERTREND (0)	END OF RECURSIVE SECTION
(4)		0	UERTRLEN	"UERTREND-UERTFGP" Length of recursive section

DUMMY SECTION FOR workload manager call

Table 727.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHUECON	,
(0)	ADDRESS	4	UECON_EXEC_ PLIST_PTR	
				Address of EXEC CICS START parameter list described by copy book DFHICUED
(4)	ADDRESS	4	UECON_CORRELATOR_ PTR	
				Addres of 512 byte area in which an

ARM correlator can be placed
EXITID EQU-LIST - Global User Exit Number

Offset Hex	Type	Len	Name (dim)	Description
(4)	SIGNED	0	XTCIN	"1"
(4)	SIGNED	0	XTCOUT	"2"
(4)	SIGNED	0	XTCATT	"3"
(4)	SIGNED	0	XTCTIN	"4"
(4)	SIGNED	0	XTCTOUT	"5"
(4)	SIGNED	0	XDSBWT	"6"
(4)	SIGNED	0	XDSAWT	"7"
(4)	SIGNED	0	XLGSTRM	"8"
(4)	SIGNED	0	XDUREQ	"9"
(4)	SIGNED	0	XDUCLSE	"10"
(4)	SIGNED	0	XDUOUT	"11"

Table 727. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	SIGNED	0	XMEOUT	"12"
(4)	SIGNED	0	XFCREQ	"13"
(4)	SIGNED	0	XFCREQC	"14"
(4)	SIGNED	0	XTSPTOUT	"15"
(4)	SIGNED	0	XGMTEXT	"16"
(4)	SIGNED	0	XMNOUT	"17"
(4)	SIGNED	0	XRCINIT	"18"
(4)	SIGNED	0	XRCINPT	"19"
(4)	SIGNED	0	XICREQ	"20"
(4)	SIGNED	0	XICEXP	"21"
(4)	SIGNED	0	XISLCLQ	"22"
(4)	SIGNED	0	XPCFTCH	"23"
(4)	SIGNED	0	XPCHAIR	"24"
(4)	SIGNED	0	XPCTA	"25"
(4)	SIGNED	0	XPCABND	"26"
(4)	SIGNED	0	XPCREQ	"27"
(4)	SIGNED	0	XPCREQC	"28"
(4)	SIGNED	0	XTDREQ	"29"
(4)	SIGNED	0	XTDIN	"30"
(4)	SIGNED	0	XTDOUT	"31"
(4)	SIGNED	0	XTSQRIN	"32"
(4)	SIGNED	0	XTSQROUT	"33"
(4)	SIGNED	0	XTSPTIN	"34"
(4)	SIGNED	0	XZCIN	"35"
(4)	SIGNED	0	XZCOUT	"36"
(4)	SIGNED	0	XZCATT	"37"
(4)	SIGNED	0	XZCOUT1	"38"
(4)	SIGNED	0	XXRSTAT	"39"
(4)	SIGNED	0	XXDFA	"40"
(4)	SIGNED	0	XXDFB	"41"
(4)	SIGNED	0	XXDTO	"42"
(4)	SIGNED	0	XSTOUT	"43"
(4)	SIGNED	0	XDLIPRE	"44"
(4)	SIGNED	0	XDLIPOST	"45"
(4)	SIGNED	0	XFCSREQ	"46"
(4)	SIGNED	0	XEIIN	"47"
(4)	SIGNED	0	XEIOUT	"48"
(4)	SIGNED	0	XALTENF	"49"
(4)	SIGNED	0	XICTENF	"50"
(4)	SIGNED	0	XDTAD	"51"

Table 727. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	SIGNED	0	XDTRD	"52"
(4)	SIGNED	0	XDTLC	"53"
(4)	SIGNED	0	XSTERM	"54"
(4)	SIGNED	0	XSRAB	"55"
(4)	SIGNED	0	XFCSREQC	"56"
(4)	SIGNED	0	XSZBRQ	"57"
(4)	SIGNED	0	XSZARQ	"58"
(4)	SIGNED	0	XISCONA	"59"
(4)	SIGNED	0	XRSINDI	"60"
(4)	SIGNED	0	XXMATT	"61"
(4)	SIGNED	0	XZIQUE	"62"
(4)	SIGNED	0	XTSEREQ	"63"
(4)	SIGNED	0	XTSEREQC	"64"
(4)	SIGNED	0	XTDEREQ	"65"
(4)	SIGNED	0	XTDEREQC	"66"
(4)	SIGNED	0	XICEREQ	"67"
(4)	SIGNED	0	XICEREQC	"68"
(4)	SIGNED	0	XALCAID	"69"
(4)	SIGNED	0	XSNON	"70"
(4)	SIGNED	0	XSNOFF	"71"
(4)	SIGNED	0	XRMIIN	"72"
(4)	SIGNED	0	XRMIOUT	"73"
(4)	SIGNED	0	XAKUSER	"74"
(4)	SIGNED	0	XFCNREC	"75"
(4)	SIGNED	0	XFCBFAIL	"76"
(4)	SIGNED	0	XFCLDEL	"77"
(4)	SIGNED	0	XFCBOVER	"78"
(4)	SIGNED	0	XFCBOUT	"79"
(4)	SIGNED	0	XFCVSDS	"80"
(4)	SIGNED	0	XFCQUIS	"81"
(4)	SIGNED	0	XDUREQC	"82"
(4)	SIGNED	0	XFCAREQ	"83"
(4)	SIGNED	0	XFCAREQC	"84"
(4)	SIGNED	0	XEISPIN	"85"
(4)	SIGNED	0	XEISPOUT	"86"
(4)	SIGNED	0	XNQEREQ	"87"
(4)	SIGNED	0	XNQEREQC	"88"
(4)	SIGNED	0	XFAINTU	"89"
(4)	SIGNED	0	XBMIN	"90"
(4)	SIGNED	0	XBMOUT	"91"

Table 727. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	SIGNED	0	XBADEACT	"92"
(4)	SIGNED	0	XLDLOAD	"93"
(4)	SIGNED	0	XLDELETE	"94"
(4)	SIGNED	0	XSNEX	"95"
(4)	SIGNED	0	XFCFRIN	"96"
(4)	SIGNED	0	XFCFROUT	"97"
(4)	SIGNED	0	XICERES	"98"
(4)	SIGNED	0	XPCERES	"99"
(4)	SIGNED	0	XWBOPEN	"100"
(4)	SIGNED	0	XWBSNDO	"101"
(4)	SIGNED	0	XWBAUTH	"102"
(4)	SIGNED	0	XAPADMGR	"103"
(4)	SIGNED	0	XISQUE	"104"
(4)	SIGNED	0	XWSPRROO	"105"
(4)	SIGNED	0	XWSPRRWI	"106"
(4)	SIGNED	0	XWSPRROI	"107"
(4)	SIGNED	0	XWSPRRWO	"108"
(4)	SIGNED	0	XWSRQRWO	"109"
(4)	SIGNED	0	XWSRQROO	"110"
(4)	SIGNED	0	XWSRQROI	"111"
(4)	SIGNED	0	XWSRQRWI	"112"
(4)	SIGNED	0	XWSSRRWO	"113"
(4)	SIGNED	0	XWSSRROO	"114"
(4)	SIGNED	0	XWSSRROI	"115"
(4)	SIGNED	0	XWSSRRWI	"116"
(4)	SIGNED	0	XISQLCL	"117"
(4)	SIGNED	0	XEPCAP	"118"
(4)	SIGNED	0	XINDT1	"119"
(4)	SIGNED	0	XINDT2	"120"
(4)	SIGNED	0	XLGWBC	"121"

UETE User Exit Table Entry

```
CONTROL BLOCK NAME = DFHUETEC
                                       (progeny of DFHUETEC)
DESCRIPTIVE NAME  = CICS (UE) User Exit Table Entry DSECT
   @BANNER_START 02
                        DFHUETEC
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = Copybook for UETE DSECT.
    The UETE contains information specific to a particular exit
    point. There is one entry per exit point in CICS and all the
```

```
            entries are GETMAINED and initialised by DFHSIC1 during CICS
            Initialisation.
            When a program is enabled at an exit point, a pointer to the
            EPB for the program is set in the UETE.
            For the first program enabled at the exit point, the EPB
            address is stored directly in the UETEEPBA field.
            Subsequent programs enabled at the same exit point, will get
            an EPL created for them. (The EPL points to an EPB). The
            EPL chain is chained off the UETENEPL field.
            When a CICS Exit is invoked, the UETE associated with the
            exit point is checked. If the UETEEBPA field is non zero,
            then control is passed to the program defined in the first
            EPB. On return from this program, the UETENEPL is chained
            down, and every program pointed to via the EPL is passed
            control (in the order the exits were enabled).
         NOTES :
          DEPENDENCIES = S/370
          RESTRICTIONS = None
          MODULE TYPE = Control block definition
      ----------------------------------------------------------------
```

Table 728.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	DFHUETE	
(0)	UNSIGNED	1	UETEEXN	EXIT NUMBER
(1)	CHARACTER	1	*	RESERVED
(2)	HALFWORD	2	UETEDRC	DEFAULT RETURN-CODE
(4)	HALFWORD	2	UETEMRC	MAXIMUM RETURN-CODE
(6)	UNSIGNED	2	UETEFLGS	FLAG BYTES
(6)	UNSIGNED	1	UETEFLG1	FLAG1
(7)	BIT(8)	1	UETEFLG2	FLAG2
	1...		UETEXCAP	Exit is EXEC capable
	.1..		UETERCSV	May be called recursively
	..11 1111		*	Reserved
(8)	ADDRESS	4	UETEFEPL	First EPL
(C)	FULLWORD	4	UETECHNG	Change CTR for EPL chains
(10)	CHARACTER	24	UETEPL	EPL (EPLEND-DFHEPL)
(28)	CHARACTER	0	UETEEND	

Constants

Table 729.

Len	Type	value	Name	Description
Possible values of UETEFLG1				
1	DECIMAL	0	UETEAPE	EXIT IN AP DOMAIN

Table 729. (continued)

Len	Type	value	Name	Description
1	DECIMAL	255	UETEALL	EXIT IN ALL DOMAINS (POSSIBLY)

UETH User Exit Table Header

```
              CONTROL BLOCK NAME = DFHUETHC
                                             (progeny of DFHUETHC)
              DESCRIPTIVE NAME  = CICS (UE) User Exit Table Header DSECT
                @BANNER_START 02
                                DFHUETHC
                Licensed Materials - Property of IBM
                "Restricted Materials of IBM"
                5655-S97
                @BANNER_END
              FUNCTION = Copybook for UETH DSECT.
                   The UETH contains global information used by User Exits.
                   The User Exit table consists of a header section, followed
                   by a list of Table Entries (UETEs). There is one UETE per
                   exit point in CICS.
                   The User Exit Table is created in DFHSIC1 during CICS
                   Initialisation.
              NOTES :
               DEPENDENCIES = S/370
               RESTRICTIONS = None
               MODULE TYPE = Control block definition
               -----------------------------------------------------------------
```

Table 730.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	176	DFHUETH	
(0)	UNSIGNED	4	UETHWA (4294967328:130363392)	USER EXIT HANDLER'S WORK AREA
(80)	ADDRESS	4	UETHEPBC	ANCHOR FOR EPB CHAIN
(84)	ADDRESS	4	UETHLEA	ADDRESS OF LAST UET ENTRY
(88)	HALFWORD	2	UETHLEN	LENGTH OF UET
(8A)	HALFWORD	2	UETHTSCT	no. exits interested in TASKSTART
(8C)	UNSIGNED	4	UETHFLAG	Reserved
(90)	CHARACTER	8	UETHTRUB	TRUE subpool token below
(98)	ADDRESS	4	UETHEPBL	Lock_Token for EPBCHAIN lock
(9C)	CHARACTER	4	*	Reserved
(A0)	CHARACTER	8	UETHEPBT	EPB subpool token above the line
(A8)	ADDRESS	4	UETHFEPL	Chain of free EPL's
(AC)	ADDRESS	4	UETHFEPB	Chain of free EPB's
(B0)	CHARACTER	0	UETHEND	

UEPAR Global user exit plist

Table 731.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHUEPAR	
(0)	ADDRESS	4	UEPEXN	ADDRESS OF EXIT NUMBER
(4)	ADDRESS	4	UEPGAA	ADDRESS OF GLOBAL AREA ((ZERO=NO WORK AREA)
(8)	ADDRESS	4	UEPGAL	ADDRESS OF GLOBAL AREA LENGTH
(C)	ADDRESS	4	UEPCRCA	ADDRESS OF CURRENT RETURN-CODE
(10)	ADDRESS	4	UEPTCA	(reserved)
(14)	ADDRESS	4	UEPCSA	(reserved)
(18)	ADDRESS	4	UEPEPSA	ADDRESS OF REGISTER SAVE AREA FOR USE BY EXIT PROGRAM
(1C)	ADDRESS	4	UEPHMSA	ADDRESS OF SAVE AREA USED FOR HOST MODULE'S REGISTERS
(20)	ADDRESS	4	UEPGIND	ADDRESS OF CALLER'S TASK INDICATORS
(20)	BITSTRING	0	UEPGANY	"X'80'" DATA LOCATION ANY
(20)	BITSTRING	0	UEPGCICS	"X'40'" TASKDATAKEY = CICS
(20)	CHARACTER	0	UEPTQR	"C'QR',2" QUASI-REENTRANT (QR) TCB
(20)	CHARACTER	0	UEPTCO	"C'CO',2" CONCURRENT (CO) TCB
(20)	CHARACTER	0	UEPTRO	"C'RO',2" RESOURCE_OWNING (RO) TCB
(20)	CHARACTER	0	UEPTFO	"C'FO',2" FILE_OWNING (FO) TCB
(20)	CHARACTER	0	UEPTSZ	"C'SZ',2" FEPI (SZ) TCB

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	CHARACTER	0	UEPTRP	"C'RP',2" RP MODE TCB
(20)	CHARACTER	0	UEPTL8	"C'L8',2" AN OPEN TCB, CICS KEY
(20)	CHARACTER	0	UEPTL9	"C'L9',2" An OPEN TCB, USER KEY
(20)	CHARACTER	0	UEPTSO	"C'SO',2" SOCKETS TCB
(20)	CHARACTER	0	UEPTSL	"C'SL',2" SOCKETS LISTENER TCB
(20)	CHARACTER	0	UEPTSP	"C'SP',2" SSL PTHREAD OWNING TCB
(20)	CHARACTER	0	UEPTS8	"C'S8',2" SSL TCB
(20)	CHARACTER	0	UEPTTP	"C'TP',2" THREAD OWNING TCB
(20)	CHARACTER	0	UEPTT8	"C'T8',2" THREAD TCB, CICS KEY
(20)	CHARACTER	0	UEPTX8	"C'X8',2" XPLINK TCB, CICS KEY
(20)	CHARACTER	0	UEPTX9	"C'X9',2" XPLINK TCB, USER KEY
(20)	CHARACTER	0	UEPTJ8	"C'J8',2" A JAVA TCB, CICS KEY
(20)	CHARACTER	0	UEPTJ9	"C'J9',2" A JAVA TCB, USER KEY
(20)	CHARACTER	0	UEPTJM	"C'JM',2" A MASTER JVM TCB
(20)	CHARACTER	0	UEPTD2	"C'D2',2" CICS-DB2 HOUSEKEEPING TCB
(20)	CHARACTER	0	UEPTEP	"C'EP',2" EVENT PROCESSING TCB
(20)	CHARACTER	0	UEPTJS	"C'JS',2" JOBSTEP TCB
(24)	ADDRESS	4	UEPSTACK	ADDRESS OF KERNEL STACK ENTRY
(28)	ADDRESS	4	UEPXSTOR	ADDRESS OF STORAGE FOR XPI PARAMETERS
(2C)	ADDRESS	4	UEPTRACE	ADDRESS OF TRACE FLAG
(2C)	BITSTRING	0	UEPTRON	"X'80'" TRACE FLAG ON
	....		UERCNORM	"X'00'" CONTINUE NORMAL PROCESSING

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	HALFWORD	2	UEPPARMS (0)	START OF PARAMETERS UNIQUE TO EACH EXIT ID

XFCNREC PARAMETERS
 Exit specific parameters are:
 UEFILE - Address of 8 byte field containing the file name
 UEDSETN - Address pointing to a 44 character DSNAME
 UEPFRCV - Address of file status flag byte
 UEPFAIL - ADDRESS OF THE FAILURE REASON CODE
Valid values for UEPFRCV are:
 UEPFLOG EQU X'01' file log attribute
VALID VALUES FOR UEPFAIL ARE:
 UEPATTF EQU X'01' ATTRIBUTE MISMATCH
 UEPBWOF EQU X'02' BWO MISMATCH
Valid return codes for XFCNREC are:
 UERCNORM EQU X'00' normal(default) - reject mismatch
                     - open will fail as normal
 UERCBYP EQU X'04' bypass request - accept mismatch
                   - open will continue.
                 Message DFHFC0998 will be issued.				

(30)	ADDRESS	4	UEFILE	address of 8 character filename
(34)	ADDRESS	4	UEDSETN	address of 44 character DSDAME
(38)	ADDRESS	4	UEPFRCV	address of file status flag byte
valid values for UEPFRCV are:				
(38)	BITSTRING	0	UEPFLOG	"X'01'" file log attribute
(3C)	ADDRESS	4	UEPFAIL	ADDRESS OF THE FAILURE REASON CODE
VALID VALUES FOR UEPFAIL ARE:				
(3C)	BITSTRING	0	UEPATTF	"X'01'" FILE LOG ATTRIBUTE MISMATCH
(3C)	BITSTRING	0	UEPBWOF	"X'02'" BWO ATTRIBUTE MISMATCH
(40)	ADDRESS	4	UEPOPEN	ADDRESS OF ACTION FLAG
XFCAREQ PARAMETERS VALID RETURN CODES FOR XFCAREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPCLPS	ADDRESS OF COMMAND LEVEL PLIST
(34)	ADDRESS	4	UEPFATOK	ADDR OF TOKEN TO PASS TO REQC EXIT

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	ADDRESS	4	UEPRCODE	ADDRESS OF COPY OF EIBRCODE
(3C)	ADDRESS	4	UEPRESP	ADDRESS OF COPY OF EIBRESP
(40)	ADDRESS	4	UEPRESP2	ADDRESS OF COPY OF EIBRESP2
(44)	ADDRESS	4	UEPTSTOK	ADDRESS OF TASK TOKEN
(48)	ADDRESS	4	UEPRECUR	ADDRESS OF HALFWORD DEPTH COUNTER
XFCAREQC PARAMETERS VALID RETURN CODES FOR XFCAREQC ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPFATOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
XFCREQ PARAMETERS VALID RETURN CODES FOR XFCREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPFCTOK	ADDRESS OF TOKEN TO PASS TO XFCREQC
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	ADDRESS	4	UEPRSRCE	ADDRESS OF COPY OF EIBRSRCE
(50)	ADDRESS	4	UEPFSHIP	ADDRESS OF FUNCTION SHIP AREA

```
    XFCREQC PARAMETERS
  VALID RETURN CODES FOR XFCREQC ARE:
  UERCNORM EQU X'00' NORMAL(DEFAULT)
  UERCPURG EQU X'20' PURGED
```

(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPFCTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE

```
    XFCSREQ PARAMETERS
  Exit specific parameters are:
   UEPFSREQ - Address of 2 byte field containing the request
             type.
   UEPFILE - Address of 8 byte field containing the file name
   UEPFINFO - Address pointing to a block containing the file info.
   UEPRECUR - Address of halfword recursion level
  VALID VALUES FOR UEPFSREQ ARE:
  First byte
  UEPFSOPN EQU X'01' Open File Request
  UEPFSCLS EQU X'02' Close File Request
  UEPFSENB EQU X'03' Enable File Request
  UEPFSDIS EQU X'04' Disable File Request
  UEPFSCAN EQU X'05' Cancel Close File Request
  Second byte - meaning depends on type of request
  Values for open
  UEPFSNOP EQU X'00' Normal Open
  UEPFSOFB EQU X'02' Open for backout
  Values for close
  UEPFSNC EQU X'00' Normal Close
  UEPFSCP EQU X'01' Close Pending
  UEPFSELM EQU X'02' End of Load Mode Close
  UEPFSIMM EQU X'06' Immediate Close
  UEPFSICP EQU X'07' Immediate Close Pending
  UEPFSQU EQU X'08' RLS Quiesce Close
  VALID RETURN CODES FOR XFCSREQ ARE:
  UERCNORM EQU X'00' NORMAL(DEFAULT)
  UERCBYP EQU X'04' BYPASS THE FILE CONTROL REQUEST
  UERCPURG EQU X'20' PURGED
```

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	ADDRESS	4	UEPFSREQ	ADDRESS OF FILE STATE REQUEST BYTE
VALID VALUES FOR UEPFSREQ ARE: First byte				
(30)	BITSTRING	0	UEPFSOPN	"X'01'" Open File Request
(30)	BITSTRING	0	UEPFSCLS	"X'02'" Close File Request
(30)	BITSTRING	0	UEPFSENB	"X'03'" Enable File Request
(30)	BITSTRING	0	UEPFSDIS	"X'04'" Disable File Request
(30)	BITSTRING	0	UEPFSCAN	"X'05'" Cancel Close File Request
Second byte - meaning depends on type of request Values for open				
	....		UEPFSNOP	"X'00'" Normal Open
(30)	BITSTRING	0	UEPFSOFB	"X'02'" Open for backout
Values for close				
	....		UEPFSNC	"X'00'" Normal Close
(30)	BITSTRING	0	UEPFSCP	"X'01'" Close Pending
(30)	BITSTRING	0	UEPFSELM	"X'02'" End of Load Mode Close
(30)	BITSTRING	0	UEPFSIMM	"X'06'" Immediate Close
(30)	BITSTRING	0	UEPFSICP	"X'07'" Immediate Close Pending
(30)	BITSTRING	0	UEPFSQU	"X'08'" RLS Quiesce Close
(34)	ADDRESS	4	UEPFILE	ADDRESS OF FILE NAME
(38)	ADDRESS	4	UEPFINFO	ADDRESS OF FILE INFORMATION
(3C)	ADDRESS	4		RESERVED
(40)	ADDRESS	4		RESERVED
(44)	ADDRESS	4		RESERVED
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
XFCSREQC PARAMETERS Exit specific parameters are: UEPFSREQ - Address of 2 byte field containing the request 　　　　type. UEPFILE - Address of 8 byte field containing the file name UEPFINFO - Address pointing to a block containg the file info. UEPFSRSP - Address of 1 byte field containing the response. UEPRECUR - Address of halfword recursion level VALID RETURN CODES FOR XFCSREQC ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED VALID VALUES FOR UEPFSREQ ARE: First byte UEPFSOPN EQU X'01' Open Request UEPFSCLS EQU X'02' Close Request UEPFSENB EQU X'03' Enable Request UEPFSDIS EQU X'04' Disable Request UEPFSCAN EQU X'05' Cancel Close File Request Second byte - meaning depends on type of request Values for open UEPFSNOP EQU X'00' Normal Open UEPFSOFB EQU X'02' Open for backout Values for close UEPFSNC EQU X'00' Normal Close UEPFSCP EQU X'01' Close Pending UEPFSELM EQU X'02' End of Load Mode Close UEPFSIMM EQU X'06' Immediate Close UEPFSICP EQU X'07' Immediate Close Pending UEPFSQU EQU X'08' RLS Quiesce Close VALID VALUES FOR UEPFSRSP ARE: UEFSNORM EQU X'00' NORMAL UEFSWARN EQU X'04' WARNING UEFSFAIL EQU X'08' FAILED UEFSPEND EQU X'10' PENDING				
(30)	ADDRESS	4		UEPFSREQ - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPFILE - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPFINFO - AS DEFINED ABOVE
(3C)	ADDRESS	4	UEPFSRSP	ADDRESS OF RESPONSE TO REQUEST
VALID VALUES FOR UEPFSRSP ARE:				
	....		UEFSNORM	"X'00'" NORMAL
(3C)	BITSTRING	0	UEFSWARN	"X'04'" WARNING
(3C)	BITSTRING	0	UEFSFAIL	"X'08'" FAILED
(3C)	BITSTRING	0	UEFSPEND	"X'10'" PENDING
(40)	ADDRESS	4		RESERVED
(44)	ADDRESS	4		RESERVED
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
XRCINIT PARAMETERS VALID RETURN CODES FOR XRCINIT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) FIRST PARAMETER DEPENDS ON VALUE IN TYPE OF REQUEST				
(30)	ADDRESS	4	UEPRSTRT	ADDRESS OF RESTART TYPE BYTE
(34)	ADDRESS	4	UEPTREQ	ADDRESS OF TYPE OF REQUEST
EQUATES FOR TYPE OF REQUEST, ADDRESSED BY UEPTREQ				
	....		UEUSINIT	"X'00'" INITIALIZATION OF USER RECOVERY
(34)	BITSTRING	0	UEUSTERM	"X'80'" TERMINATION OF USER RECOVERY
EQUATES FOR TYPE OF RESTART, ADDRESSED BY UEPRSTRT				
	....		UEPRWARM	"X'00'" WARM START
(34)	BITSTRING	0	UEPREMER	"X'01'" EMERGENCY RESTART
XRCINPT PARAMETERS VALID RETURN CODES FOR XRCINPT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS(NO ACTION)				
(30)	ADDRESS	4	UEPUOWST	ADDRESS OF UNIT OF WORK STATUS BYTE
(34)	ADDRESS	4	UEPLGREC	ADDRESS OF LOG RECORD
(38)	ADDRESS	4	UEPLGLEN	ADDRESS OF FULLWORD CONTAINING LENGTH OF LOG RECORD
(3C)	ADDRESS	4	UEPTAID	ADDRESS OF FOUR BYTE TASK ID
(40)	ADDRESS	4	UEPTRID	ADDRESS OF FOUR BYTE TRANSACTION ID
(44)	ADDRESS	4	UEPTEID	ADDRESS OF FOUR BYTE TERMINAL ID
EQUATES FOR UNIT OF WORK STATUS INDICATOR, ADDRESSED BY UEPUOWST NOTE: UEPTAID, UEPTRID AND UEPTEID ARE NOT VALID IF THE STATUS INDICATOR VALUE IS UEPUOWAK.				
	....		UEPUOWAK	"X'00'" ACTIVITY KEYPOINT RECORD
(44)	BITSTRING	0	UEPUOWCM	"X'01'" UNIT OF WORK COMMITTED

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	BITSTRING	0	UEPUOWBO	"X'02'" UNIT OF WORK BACKED OUT
(44)	BITSTRING	0	UEPUOWIF	"X'03'" UNIT OF WORK WAS STILL IN FLIGHT
(44)	BITSTRING	0	UEPUOWID	"X'04'" UNIT OF WORK IS IN DOUBT
XICREQ PARAMETERS VALID RETURN CODES FOR XICREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPICQID	ADDRESS OF 8 BYTE FIELD CONTAINING REQUEST ID ON REQUEST
(34)	ADDRESS	4	UEPICTID	ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST
(38)	ADDRESS	4	UEPICTI	ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST
(3C)	ADDRESS	4	UEPICRQ1	ADDRESS OF COPY OF FIRST REQUEST TYPE BYTE
(40)	ADDRESS	4	UEPICRQ2	ADDRESS OF COPY OF SECOND REQUEST TYPE BYTE
(44)	ADDRESS	4	UEPICRT	ADDRESS OF 4 BYTE FIELD CONTAINING EXPIRY TIME OR INTERVAL ON REQUEST
XICEXP PARAMETERS VALID RETURN CODES FOR XICEXP ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPICE	ADDRESS OF ICE JUST EXPIRED
XICEREQ PARAMETERS VALID RETURN CODES FOR XICEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPICTOK	ADDRESS OF TOKEN TO PASS TO XICEREQC

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
(50)	ADDRESS	4	UEPDATE	ADDRESS OF COPY OF EIBDATE
(54)	ADDRESS	4	UEPTIME	ADDRESS OF COPY OF EIBTIME
(58)	ADDRESS	4		RESERVED
(5C)	ADDRESS	4		RESERVED
XICEREQC PARAMETERS VALID RETURN CODES FOR XICEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPICTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
(50)	ADDRESS	4		UEPDATE - AS DEFINED ABOVE
(54)	ADDRESS	4		UEPTIME - AS DEFINED ABOVE
(58)	ADDRESS	4	UEP_IC_ REMOTE_SYSTEM	
				ADDRESS OF COPY OF REMOTE SYSTEM

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(5C)	ADDRESS	4	UEP_IC_ REMOTE_NAME	ADDRESS OF COPY OF REMOTE NAME
XICERES PARAMETERS THIS PARAMATER LIST IS IDENTICAL TO THAT USED FOR XICEREQ EXCEPT THAT R/CODE UERCBYP HAS BEEN REPLACED BY UERCRESU VALID RETURN CODES FOR XICERES ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCRESU EQU X'04' RESOURCE UNAVAILABLE UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPICTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
(50)	ADDRESS	4		UEPDATE - AS DEFINED ABOVE
(54)	ADDRESS	4		UEPTIME - AS DEFINED ABOVE
(58)	ADDRESS	4		RESERVED
(5C)	ADDRESS	4		RESERVED
XICTENF PARAMETERS VALID RETURN CODES FOR XICTENF ARE: UERCTEUN EQU X'00' TERMINAL UNKNOWN UERCNETN EQU X'04' TERMINAL KNOWN, NETNAME RETURNED UERCSYSI EQU X'08' TERMINAL KNOWN, SYSID RETURNED UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPICEVT	ADDRESS OF 2 BYTE FIELD CONTAINING REASON FOR EXIT BEING DRIVEN
(30)	CHARACTER	0	UEPICES	"C'S '" C'S ' = START COMMAND WITHOUT DATA
(30)	CHARACTER	0	UEPICESD	"C'SD'" C'SD' = START COMMAND WITH DATA

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	ADDRESS	4	UEPICTR	ADDRESS OF 1 BYTE FIELD CONTAINING TRANSACTION ROUTING INDICATOR.
(34)	CHARACTER	0	UEPICTY	"C'Y'" C'Y' IF START ISSUED BY TRANSACTION ROUTED TASK.
(34)	CHARACTER	0	UEPICTN	"C'N'" OTHERWISE 'N'.
(38)	ADDRESS	4	UEPICFS	ADDRESS OF 1 BYTE FIELD CONTAINING FUNCTION SHIPPING INDICATOR.
(38)	CHARACTER	0	UEPICFY	"C'Y'" C'Y' IF START REQUEST WAS FUNCTION SHIPPED.
(38)	CHARACTER	0	UEPICFN	"C'N'" OTHERWISE 'N'.
(3C)	ADDRESS	4	UEPICTRN	ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST
(40)	ADDRESS	4	UEPICRTR	ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST
(44)	ADDRESS	4	UEPICCTR	ADDRESS OF 4 BYTE FIELD CONTAINING ID OF TERMINAL RUNNING THE TASK IF THE COMMAND WAS TRANSACTION ROUTED. ID OF THE SESSION IF THE COMMAND WAS FUNCTION SHIPPED. OTHERWISE BLANKS.
(48)	ADDRESS	4	UEPICNTI	ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME OF SYSID, IF THERE IS A SYSID, OR BLANKS

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	ADDRESS	4	UEPICSYI	ADDRESS OF 4 BYTE FIELD CONTAINING SYSID, IF ANY, PASSED TO EXIT OR BLANKS
(50)	ADDRESS	4	UEPICNTO	ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME RETURNED BY EXIT FOR RETURN CODE UERCNETN
(54)	ADDRESS	4	UEPICSYO	ADDRESS OF 4 BYTE FIELD CONTAINING SYSID RETURNED BY THE EXIT FOR RETURN CODE UERCSYSI
(58)	ADDRESS	4	UEPICNNI	ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, PASSED TO EXIT, OR BLANKS
(5C)	ADDRESS	4	UEPICNNO	ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, RETURNED BY EXIT, OR BLANKS
XALTENF PARAMETERS VALID RETURN CODES FOR XALTENF ARE: UERCTEUN EQU X'00' TERMINAL UNKNOWN UERCNETN EQU X'04' TERMINAL KNOWN, NETNAME RETURNED UERCSYSI EQU X'08' TERMINAL KNOWN, SYSID RETURNED				
(30)	ADDRESS	4	UEPALEVT	ADDRESS OF 2 BYTE FIELD CONTAINING REASON FOR EXIT BEING DRIVEN
(30)	CHARACTER	0	UEPALETD	"C'QD'" C'QD'= TRANSIENT DATA TRIGGER LEVEL
(30)	CHARACTER	0	UEPALES	"C'S '" C'S ' = START COMMAND WITHOUT DATA
(30)	CHARACTER	0	UEPALESD	"C'SD'" C'SD' = START COMMAND WITH DATA
(34)	ADDRESS	4	UEPALTR	ADDRESS OF 1 BYTE FIELD CONTAINING TRANSACTION ROUTING INDICATOR (START COMMANDS ONLY)

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	CHARACTER	0	UEPALTY	"C'Y'" C'Y' IF START ISSUED BY TRANSACTION ROUTED TASK.
(34)	CHARACTER	0	UEPALTN	"C'N'" OTHERWISE 'N'. 'N' FOR TD
(38)	ADDRESS	4	UEPALFS	ADDRESS OF 1 BYTE FIELD CONTAINING FUNCTION SHIPPING INDICATOR, (START COMMANDS ONLY)
(38)	CHARACTER	0	UEPALFY	"C'Y'" C'Y' IF START REQUEST WAS FUNCTION SHIPPED.
(38)	CHARACTER	0	UEPALFN	"C'N'" OTHERWISE 'N'. 'N' FOR TD.
(3C)	ADDRESS	4	UEPALTRN	ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST
(40)	ADDRESS	4	UEPALRTR	ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST
(44)	ADDRESS	4	UEPALCTR	ADDRESS OF 4 BYTE FIELD CONTAINING ID OF TERMINAL RUNNING THE TASK IF THE COMMAND WAS TRANSACTION ROUTED. ID OF THE SESSION IF THE COMMAND WAS FUNCTION SHIPPED. OTHERWISE BLANKS.
(48)	ADDRESS	4	UEPALNTI	ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME OF SYSID, IF THERE IS A SYSID, OR BLANKS
(4C)	ADDRESS	4	UEPALSYI	ADDRESS OF 4 BYTE FIELD CONTAINING SYSID, IF ANY, PASSED TO EXIT OR BLANKS

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	ADDRESS	4	UEPALNTO	ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME RETURNED BY EXIT FOR RETURN CODE UERCNETN
(54)	ADDRESS	4	UEPALSYO	ADDRESS OF 4 BYTE FIELD CONTAINING SYSID RETURNED BY THE EXIT FOR RETURN CODE UERCSYSI
(58)	ADDRESS	4	UEPALNNI	ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, PASSED TO EXIT, OR BLANKS
(5C)	ADDRESS	4	UEPALNNO	ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, RETURNED BY EXIT, OR BLANKS
XALCAID PARAMETERS VALID RETURN CODES FOR XALCAID ARE; UERCNORM EQU X'00' NORMAL(DEFAULT)				
(30)	ADDRESS	4	UEPALTSD	A four-byte field containing the symbolic identifier of the transaction which was to be started by this request.
(34)	ADDRESS	4	UEPALTRM	A four-byte field containing the identifier of the terminal or connection to which this request was directed.
(38)	ADDRESS	4	UEPALDAT	Either the address of an area of storage containing the data specified in the FROM option of the START command which led to the creation of this request; or zero if the FROM option was not specified.

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	ADDRESS	4	UEPALLEN	A fullword binary value containing the length of the FROM data; or zero if the FROM option was not specified.
(40)	ADDRESS	4	UEPALRQD	An eight-byte field containing the value of the REQID associated with the FROM data. The data was stored in a temporary storage queue with this name. This value was either specified explicitly using the REQID option on the START command, or created internally by CICS.
(44)	ADDRESS	4	UEPALQUE	An eight-byte field containing the value specified in the QUEUE option on the START command, or hex zeros if QUEUE was not specified.
(48)	ADDRESS	4	UEPALRTE	A four-byte field containing the value specified in the RTERMID option on the START command, or hex zeros if RTERMID was not specified.
(4C)	ADDRESS	4	UEPALRTA	A four-byte field containing the value specified in the RTRANSID option on the START command, or hex zeros if RTRANSID was not specified.
(50)	ADDRESS	4	UEPALFMH	A one-byte field containing the value X'FF' if the data contains FMHs, as specified by the FM option on the associated START command, and X'00' otherwise.

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	ADDRESS	4	UEPALSTC	A two-byte field containing the start code. This will be C'SZ' for FEPI starts; otherwise C'SD'.
(58)	ADDRESS	4	UEPALCHN	A sixteen byte field containing the channel name (if any). If there is no channel associated with the AID, the name is set to blanks.
XAKUSER PARAMETERS VALID RETURN CODES FOR XAKUSER ARE: UERCNORM EQU X'00' NORMAL(DEFAULT)				
(30)	ADDRESS	4	UEPAKTYP	ADDRESS OF KEYPOINT TYPE BYTE
EQUATES FOR TYPE OF KEYPOINT, ADDRESSED BY UEPAKTYP				
	....		UEPAKPER	"X'00'" NORMAL PERIODIC KEYPOINT
(30)	BITSTRING	0	UEPAKWSD	"X'01'" WARM SHUTDOWN KEYPOINT
XTCATT PARAMETERS VALID RETURN CODES FOR XTCATT ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4	UEPTCTTE	ADDRESS OF TCTTE
(34)	ADDRESS	4	UEPTIOA	ADDRESS OF TIOA
(38)	ADDRESS	4	UEPTCTLE	ADDRESS OF TCT LINE ENTRY
(3C)	ADDRESS	4		reserved
(40)	ADDRESS	4	UEPTRAN	ADDRESS OF TRANSID
XTCTIN PARAMETERS VALID RETURN CODES FOR XTCTIN ARE: UERCNORM EQU X'00' NORMAL(FORMAT TCAM HEADER) UERCBYP EQU X'04' BYPASS FORMATTING OF TCAM HEADER				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPTCTLE - AS DEFINED ABOVE
XTCTOUT PARAMETERS VALID RETURN CODES FOR XTCTOUT ARE: UERCNORM EQU X'00' NORMAL(FORMAT TCAM HEADER) UERCBYP EQU X'04' BYPASS FORMATTING OF TCAM HEADER				

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPTCTLE - AS DEFINED ABOVE
XTCIN PARAMETERS VALID RETURN CODES FOR XTCIN ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPTCTLE - AS DEFINED ABOVE
XTCOUT PARAMETERS VALID RETURN CODES FOR XTCOUT ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPTCTLE - AS DEFINED ABOVE
XZCIN PARAMETERS VALID RETURN CODES FOR XZCIN ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
XZCOUT PARAMETERS VALID RETURN CODES FOR XZCOUT ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
XZCOUT1 PARAMETERS VALID RETURN CODES FOR XZCOUT1 ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
XZCATT PARAMETERS VALID RETURN CODES FOR XZCATT ARE: UERCNORM EQU X'00' NORMAL				

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
(38)	ADDRESS	4	UEPTPN	ADDRESS OF TPN
(3C)	ADDRESS	4	UEPTPNL	ADDRESS OF TPN LENGTH
(40)	ADDRESS	4		UEPTRAN - AS DEFINED ABOVE
XGMTEXT PARAMETERS VALID RETURN CODES FOR XGMTEXT ARE: UERCNORM EQU X'00' NORMAL UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
XPCREQ PARAMETERS VALID RETURN CODES FOR XPCREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPPCTOK	ADDRESS OF TOKEN TO PASS TO XPCREQC
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
(50)	ADDRESS	4		RESERVED
(54)	ADDRESS	4		RESERVED
(58)	ADDRESS	4	UEP_PC_PBTOK	ADDRESS OF PB TOKEN
XPCREQC PARAMETERS VALID RETURN CODES FOR XPCREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	ADDRESS	4		UEPPCTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
(50)	ADDRESS	4	UEP_PC_ REMOTE_SYSTEM	
				ADDRESS OF COPY OF REMOTE SYSTEM
(54)	ADDRESS	4	UEP_PC_ REMOTE_NAME	ADDRESS OF COPY OF REMOTE NAME
(58)	ADDRESS	4		UEP_PC_PBTOK - AS DEFINED ABOVE
XPCERES PARAMETERS THIS PARAMATER LIST IS IDENTICAL TO THAT USED FOR XPCREQ EXCEPT THAT R/CODE UERCBYP HAS BEEN REPLACED BY UERCRESU VALID RETURN CODES FOR XPCERES ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCRESU EQU X'04' RESOURCE UNAVAILABLE UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPPCTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
(50)	ADDRESS	4		RESERVED
(54)	ADDRESS	4		RESERVED

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	ADDRESS	4		UEP_PC_PBTOK - AS DEFINED ABOVE
XPCABND PARAMETERS VALID RETURN CODES FOR XPCABND ARE: UERCNORM EQU X'00' NORMAL(TAKE DUMP) UERCBYP EQU X'04' BYPASS(SUPPRESS DUMP) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPPCDS	ADDR OF PROGRAM CONTROL EXITS DSECT
(34)	ADDRESS	4	UEPTACB	ADDRESS OF TACB
XPCFTCH PARAMETERS VALID RETURN CODES FOR XPCFTCH ARE: UERCNORM EQU X'00' NORMAL UERCMEA EQU X'04' ENTRY POINT HAS BEEN MODIFIED UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPPCDS - AS DEFINED ABOVE
XFCFRIN PARAMETERS VALID RETURN CODES FOR XFCFRIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCBYPL EQU X'08' BYPASS REQUEST AND KEEP MIRROR UERCPURG EQU X'20' PURGED				
MODIFICATIONS TO THE ARGS UEPTRANID THRU UEPPROG NOT ALLOWED				
(30)	ADDRESS	4	UEPTRANID	ADDRESS OF TRANSACTION ID
(34)	ADDRESS	4	UEPUSER	ADDRESS OF USERID
(38)	ADDRESS	4	UEPTERM	ADDRESS OF TERMINAL ID
(3C)	ADDRESS	4	UEPPROG	ADDRESS OF APPLICATION PROGRAM NAME
(40)	HALFWORD	2	UEPPARMD (0)	END OF COMMON DOMAIN PARAMETERS
(40)	ADDRESS	4	UEP_FC_FUNCTION	address of a 1-byte function
(40)	BITSTRING	0	UEP_FC_ FUN_READ_INTO	
				"X'01'"
(40)	BITSTRING	0	UEP_FC_ FUN_READ_SET	
				"X'02'"
(40)	BITSTRING	0	UEP_FC_ FUN_READ_ UPDATE_INTO	
				"X'03'"

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	BITSTRING	0	UEP_FC_ FUN_READ_ UPDATE_SET	
				"X'04'"
(40)	BITSTRING	0	UEP_FC_FUN_WRITE	"X'05'"
(40)	BITSTRING	0	UEP_FC_ FUN_REWRITE	"X'06'"
(40)	BITSTRING	0	UEP_FC_ FUN_REWRITE_ DELETE	
				"X'08'"
(40)	BITSTRING	0	UEP_FC_ FUN_DELETE	"X'0A'"
(40)	BITSTRING	0	UEP_FC_ FUN_UNLOCK	"X'0B'"
(40)	BITSTRING	0	UEP_FC_ FUN_START_BROWSE	
				"X'0C'"
(40)	BITSTRING	0	UEP_FC_ FUN_READ_ NEXT_INTO	
				"X'0D'"
(40)	BITSTRING	0	UEP_FC_ FUN_READ_NEXT_SET	
				"X'0E'"
(40)	BITSTRING	0	UEP_FC_ FUN_READ_ PREVIOUS_INTO	
				"X'0F'"
(40)	BITSTRING	0	UEP_FC_ FUN_READ_ PREVIOUS_SET	
				"X'10'"
(40)	BITSTRING	0	UEP_FC_ FUN_READ_ NEXT_UPDATE_INTO	
				"X'11'"
(40)	BITSTRING	0	UEP_FC_ FUN_READ_ NEXT_UPDATE_SET	
				"X'12'"
(40)	BITSTRING	0	UEP_FC_ FUN_READ_ PREVIOUS_UPDATE_INTO	
				"X'13'"

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	BITSTRING	0	UEP_FC_ FUN_READ_ PREVIOUS_UPDATE_$ET	
				"X'14'"
(40)	BITSTRING	0	UEP_FC_ FUN_RESET_BROWSE	
				"X'15'"
(40)	BITSTRING	0	UEP_FC_ FUN_END_BROWSE	
				"X'16'"
(44)	ADDRESS	4		
(48)	ADDRESS	4	UEP_FC_FILE_NAME	address of 8-character file name
(4C)	ADDRESS	4	UEP_FC_BUFFER_P	address of fullword buffer address
(50)	ADDRESS	4	UEP_FC_BUFFER_L	address of fullword buffer length
(54)	ADDRESS	4	UEP_FC_RECORD_P	address of fullword record address
(58)	ADDRESS	4	UEP_FC_RECORD_L	address of fullword record length
(5C)	ADDRESS	4	UEP_FC_ MAX_RECORD_L	
				address of fullword max record leng
(60)	ADDRESS	4	UEP_FC_ RECORD_ID_P	address of fullword record id addr
(64)	ADDRESS	4	UEP_FC_ RECORD_ID_L	address of halfword record id len
(68)	ADDRESS	4	UEP_FC_ FULL_RECORD_ID_L	
				addr of halfword full rec id len
(6C)	ADDRESS	4	UEP_FC_ RECORD_ID_TYPE	
				address of 1-byte RIDFLD type
(6C)	BITSTRING	0	UEP_FC_KEY	"X'01'" VSAM KSDS or AIX PATH access
(6C)	BITSTRING	0	UEP_FC_RBA	"X'02'" VSAM ESDS or KSDS via RBA access
(6C)	BITSTRING	0	UEP_FC_RRN	"X'03'" VSAM RRDS access
(6C)	BITSTRING	0	UEP_FC_DEBKEY	"X'04'" BDAM deblocking by key

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6C)	BITSTRING	0	UEP_FC_DEBREC	"X'05'" BDAM deblocking by relative record
(6C)	BITSTRING	0	UEP_FC_XRBA	"X'06'" VSAM ESDS with extended addressing
(70)	ADDRESS	4	UEP_FC_REQID	address of halfword value of REQID
(74)	ADDRESS	4	UEP_FC_NUMREC	address of fullword value of NUMREC
(78)	ADDRESS	4	UEP_FC_ KEY_COMPARISON	
				address of 1-byte KEY COMP value
(78)	BITSTRING	0	UEP_FC_GTEQ	"X'01'" Key greater than equal comparison
(78)	BITSTRING	0	UEP_FC_EQUAL	"X'02'" Key equal comparison
(7C)	ADDRESS	4	UEP_FC_GENERIC	address of 1-byte GENERIC value
(7C)	BITSTRING	0	UEP_FC_ GENERIC_KEY	"X'01'" Generic key
(7C)	BITSTRING	0	UEP_FC_FULL_KEY	"X'02'" Full key
(80)	ADDRESS	4	UEP_FC_ MASS_INSERT	address of 1-byte MASS INSERT value
(80)	BITSTRING	0	UEP_FC_ SEQUENTIAL_WRITE	
				"X'01'" VSAM sequential mode
(80)	BITSTRING	0	UEP_FC_ DIRECT_WRITE	
				"X'02'" VSAM direct mode
(84)	ADDRESS	4	UEP_FC_ READ_INTEGRITY	
				address of 1-byte READ INTEGRITY
(84)	BITSTRING	0	UEP_FC_CR	"X'01'" VSAM consistent read integrity
(84)	BITSTRING	0	UEP_FC_FCT_VALUE	"X'02'" VSAM read integrity as per FCTE
(84)	BITSTRING	0	UEP_FC_NRI	"X'03'" VSAM no read integrity
(84)	BITSTRING	0	UEP_FC_RR	"X'04'" VSAM repeatable read integrity

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	ADDRESS	4	UEP_FC_TOKEN	address of fullword value of TOKEN
(8C)	ADDRESS	4	UEP_FC_SYSID	address of four byte area for SYSID
(90)	ADDRESS	4	UEP_FC_ LENGTH_ERROR_CODE	
				address of 1-byte length error c
(90)	BITSTRING	0	UEP_FC_LENGTH_OK	"X'01'"
(90)	BITSTRING	0	UEP_FC_ BUFFER_ LEN_TOO_SMALL	
				"X'02'"
(90)	BITSTRING	0	UEP_FC_ RECORD_ LEN_TOO_LARGE	
				"X'03'"
(90)	BITSTRING	0	UEP_FC_ BUFFER_ LEN_NOT_FILE_LEN	
				"X'04'"
(90)	BITSTRING	0	UEP_FC_ RECORD_ LEN_NOT_FILE_LEN	
				"X'05'"
(94)	ADDRESS	4	UEP_FC_ DUPLICATE_ KEY_CODE	
				address of 1-byte dup key code
(94)	BITSTRING	0	UEP_FC_ DUPLICATE_KEY	
				"X'01'"
(94)	BITSTRING	0	UEP_FC_ NOT_DUPLICATE_KEY	
				"X'02'"
(98)	ADDRESS	4	UEP_FC_ ACCMETH_ RETURN_CODE	
				address of 4-byte accmeth ret c
(9C)	ADDRESS	4	UEP_FC_RESPONSE	address of 1-byte response
(9C)	BITSTRING	0	UEP_FC_ RESPONSE_OK	"X'01'" ok response
(9C)	BITSTRING	0	UEP_FC_ RESPONSE_ EXCEPTION	
				"X'02'" exception response

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(9C)	BITSTRING	0	UEP_FC_ RESPONSE_DISASTER	
				"X'03'" disaster response
(9C)	BITSTRING	0	UEP_FC_ RESPONSE_INVALID	
				"X'04'" invalid response
(9C)	BITSTRING	0	UEP_FC_ RESPONSE_PURGED	
				"X'06'" purged response
(A0)	ADDRESS	4	UEP_FC_REASON	address of 1-byte reason
(A0)	BITSTRING	0	UEP_FC_ REASON_ABEND	
				"X'01'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ BDAM_DELETE	
				"X'02'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ BDAM_LENGTH_CHANGE	
				"X'03'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ BDAM_KEY_CONVERSION	
				"X'04'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ BDAM_READ_PREVIOUS	
				"X'05'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ BDAM_WRITE_MASS_INSERT	
				"X'06'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ BROWSE_UPD_NOT_RLS	
				"X'07'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ CACHE_FAILURE	
				"X'08'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ CFDT_CONNECT_ERROR	
				"X'09'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ CFDT_DISCONNECT_ERROR	
				"X'0A'"

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	BITSTRING	0	UEP_FC_ REASON_ CFDT_INVALID_CONTINUATION	
				"X'0B'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ CFDT_POOL_FULL	
				"X'0C'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ CFDT_REOPEN_ERROR	
				"X'0D'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ CFDT_SERVER_NOT_AVAILABLE	
				"X'0E'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ CFDT_SERVER_NOT_FOUND	
				"X'0F'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ CFDT_SYSIDERR	
				"X'10'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ CFDT_TABLE_GONE	
				"X'11'"
(A0)	BITSTRING	0	UEP_FC_ REASON_CHANGED	
				"X'12'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ INTERNAL_ERROR_1	
				"X'13'"
(A0)	BITSTRING	0	UEP_FC_ REASON_CR_NOT_RLS	
				"X'14'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ DATASET_BEING_COPIED	
				"X'15'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ DEADLOCK_DETECTED	
				"X'16'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ DELETE_AFTER_READ_UPDATE	
				"X'17'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ DELETE_BEFORE_READ_UPDATE	
				"X'18'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ DISASTER_PERCOLATION	

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				"X'19'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ DUPLICATE_READ_UPDATE	
				"X'1A'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ DUPLICATE_RECORD	
				"X'1B'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ DUPLICATE_REQID	
				"X'1C'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ END_OF_FILE	
				"X'1D'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ ESDS_DELETE	
				"X'1E'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ FILE_DISABLED	
				"X'1F'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ FILE_NOT_OPEN	
				"X'20'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ FILE_NOT_RECOVERABLE	
				"X'21'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ FILENOTFOUND	
				"X'22'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ FULL_KEY_WRONG_LENGTH	
				"X'23'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ GENERIC_DELETE_NOT_KSDS	
				"X'24'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ GENERIC_KEY_TOO_LONG	
				"X'25'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ ILLEGAL_KEY_TYPE_CHANGE	
				"X'26'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ INSUFFICIENT_SPACE	
				"X'27'"

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	BITSTRING	0	UEP_FC_ REASON_ INTERNAL_ERROR_2	
				"X'28'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ INTERNAL_ERROR_3	
				"X'29'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ INVALID_UPDATE_TOKEN	
				"X'2A'"
(A0)	BITSTRING	0	UEP_FC_ REASON_IO_ERROR	
				"X'2B'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ISCINVREQ	
				"X'2C'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ ISC_NOT_SUPPORTED	
				"X'2D'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ KEY_LENGTH_NEGATIVE	
				"X'2E'"
(A0)	BITSTRING	0	UEP_FC_ REASON_KEY_STOLEN	
				"X'2F'"
(A0)	BITSTRING	0	UEP_FC_ REASON_LOADING	
				"X'30'"
(A0)	BITSTRING	0	UEP_FC_ REASON_LOCKED	
				"X'31'"
(A0)	BITSTRING	0	UEP_FC_ REASON_LOST_LOCKS	
				"X'32'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ LOCK_STRUCTURE_FULL	
				"X'33'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ NOT_IN_SUBSET	
				"X'34'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ NO_VARIABLE_LENGTH	
				"X'35'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ NOSUSPEND_NOT_RLS	

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				"X'36'"
(A0)	BITSTRING	0	UEP_FC_ REASON_NOTAUTH	
				"X'37'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ INTERNAL_ERROR_4	
				"X'38'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ PREVIOUS_RLS_FAILURE	
				"X'39'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ RBA_ACCESS_TO_RLS_KSDS	
				"X'3A'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ READ_NOT_AUTHORISED	
				"X'3B'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ READPREV_IN_GENERIC_BROWSE	
				"X'3C'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ RECLEN_EXCEEDS_LOGGER_BFSZ	
				"X'3D'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ RECORD_BUSY	
				"X'3E'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ RECORD_NOT_FOUND	
				"X'3F'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ REMOTE_INVREQ	
				"X'40'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ RESTART_FAILED	
				"X'41'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ INTERNAL_ERROR_5	
				"X'42'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ REWRITE_BEFORE_READ_UPDATE	
				"X'43'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ RIDFLD_KEY_NOT_RECORD_KEY	
				"X'44'"

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	BITSTRING	0	UEP_FC_ REASON_ RLS_DEADLOCK_DETECTED	
				"X'45'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ RLS_DISABLED	
				"X'46'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ RLS_FAILURE	
				"X'47'"
(A0)	BITSTRING	0	UEP_FC_ REASON_RR_NOT_RLS	
				"X'48'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ SECURITY_FAILURE	
				"X'49'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ SELF_DEADLOCK_DETECTED	
				"X'4A'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ SERVREQ_VIOLATION	
				"X'4B'"
(A0)	BITSTRING	0	UEP_FC_ REASON_SHIP	"X'4C'"
(A0)	BITSTRING	0	UEP_FC_ REASON_STORE_FAIL	
				"X'4D'"
(A0)	BITSTRING	0	UEP_FC_ REASON_SUPPRESSED	
				"X'4E'"
(A0)	BITSTRING	0	UEP_FC_ REASON_SYSIDERR	
				"X'4F'"
(A0)	BITSTRING	0	UEP_FC_ REASON_TABLE_FULL	
				"X'50'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ TABLE_TOKEN_INVALID	
				"X'51'"
(A0)	BITSTRING	0	UEP_FC_ REASON_TIMEOUT	
				"X'52'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ TOO_MANY_CFDTS_IN_UOW	
				"X'53'"

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A0)	BITSTRING	0	UEP_FC_ REASON_ UNKNOWN_REQID_ENDBR	
				"X'54'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ UNKNOWN_REQID_READNEXT	
				"X'55'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ UNKNOWN_REQID_READPREV	
				"X'56'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ UNKNOWN_REQID_RESETBR	
				"X'57'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ UPDATE_NOT_AUTHORISED	
				"X'58'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ ACCMETH_REQUEST_ERROR	
				"X'59'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ SHIPPED_SECURITY_FAILURE	
				"X'5A'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ INTERNAL_ERROR_6	
				"X'5B'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ INTERNAL_ERROR_7	
				"X'5C'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ XRBA_NOT_ESDS	
				"X'5D'"
(A0)	BITSTRING	0	UEP_FC_ REASON_ NOT_EXTENDED_ESDS	
				"X'5E'"
(A4)	ADDRESS	4	UEP_FC_ EXIT_TOKEN	ADDRESS OF FOUR BYTE TOKEN AREA
(A8)	ADDRESS	4	UEP_FC_ M_RECORD_L	address of fullword modified record length
(AC)	ADDRESS	4	UEP_FC_ M_RECORD_ID_L	
				address of fullword modified key length

```
   XFCFROUT PARAMETERS
 VALID RETURN CODES FOR XFCFROUT ARE:
 UERCNORM EQU X'00' NORMAL(DEFAULT)
 UERCPURG EQU X'20' PURGED
```

Table 731. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(40)	ADDRESS	4		
(44)	ADDRESS	4		
(48)	ADDRESS	4		
(4C)	ADDRESS	4		
(50)	ADDRESS	4		
(54)	ADDRESS	4		
(58)	ADDRESS	4		
(5C)	ADDRESS	4		
(60)	ADDRESS	4		
(64)	ADDRESS	4		
(68)	ADDRESS	4		
(6C)	ADDRESS	4		
(70)	ADDRESS	4		
(74)	ADDRESS	4		
(78)	ADDRESS	4		
(7C)	ADDRESS	4		
(80)	ADDRESS	4		
(84)	ADDRESS	4		
(88)	ADDRESS	4		
(8C)	ADDRESS	4		
(90)	ADDRESS	4		
(94)	ADDRESS	4		
(98)	ADDRESS	4		
(9C)	ADDRESS	4		
(A0)	ADDRESS	4		
(A4)	ADDRESS	4		
(A8)	ADDRESS	4		
XTSQRIN PARAMETERS VALID RETURN CODES FOR XTSQRIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4	UEP_TS_FUNCTION	address of a 1-byte function
(40)	BITSTRING	0	UEP_TS_FUN_WRITE	"X'01'" write function
(40)	BITSTRING	0	UEP_TS_ FUN_REWRITE	"X'02'" rewrite function
(40)	BITSTRING	0	UEP_TS_ FUN_READ_INTO	
				"X'03'" read_into function

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	BITSTRING	0	UEP_TS_ FUN_READ_SET	
				"X'04'" read_set function
(40)	BITSTRING	0	UEP_TS_ FUN_READ_ NEXT_INTO	
				"X'05'" read_next_into function
(40)	BITSTRING	0	UEP_TS_ FUN_READ_NEXT_SET	
				"X'06'" read_next_into function
(40)	BITSTRING	0	UEP_TS_ FUN_DELETE	"X'07'" delete function
(44)	ADDRESS	4	UEP_TS_ QUEUE_NAME	address of 8-character queue name
(48)	ADDRESS	4	UEP_TS_DATA_P	address of fullword data address
(4C)	ADDRESS	4	UEP_TS_DATA_L	address of fullword data length
(50)	ADDRESS	4	UEP_TS_ ITEM_NUMBER	address of fullword item number
(54)	ADDRESS	4	UEP_TS_ STORAGE_TYPE	
				address of 1-byte storage type
(54)	BITSTRING	0	UEP_TS_ STORAGE_TYPE_MAIN	
				"X'01'" main
(54)	BITSTRING	0	UEP_TS_ STORAGE_ TYPE_AUX_TST	
				"X'02'" aux (recoverablity from TST)
(54)	BITSTRING	0	UEP_TS_ STORAGE_ TYPE_AUX_RECOV_YES	
				"X'03'" aux recoverable
(54)	BITSTRING	0	UEP_TS_ STORAGE_ TYPE_AUX_RECOV_NO	
				"X'04'" aux non-recoverable
(58)	ADDRESS	4		
(5C)	ADDRESS	4		

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
XTSQROUT PARAMETERS VALID RETURN CODES FOR XTSQROUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4		
(44)	ADDRESS	4		
(48)	ADDRESS	4		
(4C)	ADDRESS	4		
(50)	ADDRESS	4		
(54)	ADDRESS	4		
(58)	ADDRESS	4	UEP_TS_TOTAL_ITEMS	address of fullword total items
(5C)	ADDRESS	4	UEP_TS_RESPONSE	address of 1-byte response
(5C)	BITSTRING	0	UEP_TS_RESPONSE_OK	"X'01'" ok response
(5C)	BITSTRING	0	UEP_TS_RESPONSE_EXCEPTION	
				"X'02'" exception response
(5C)	BITSTRING	0	UEP_TS_RESPONSE_DISASTER	
				"X'03'" disaster response
(5C)	BITSTRING	0	UEP_TS_RESPONSE_INVALID	
				"X'04'" invalid response
(5C)	BITSTRING	0	UEP_TS_RESPONSE_PURGED	
				"X'06'" purged response
XTSPTIN PARAMETERS VALID RETURN CODES FOR XTSPTIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4		
(40)	BITSTRING	0	UEP_TS_FUN_PUT	"X'01'" write function
(40)	BITSTRING	0	UEP_TS_FUN_PUT_REPLACE	
				"X'02'" rewrite function
(40)	BITSTRING	0	UEP_TS_FUN_GET	"X'03'" read_into function
(40)	BITSTRING	0	UEP_TS_FUN_GET_SET	"X'04'" read_set function

Offset Hex	Type	Len	Name (dim)	Description
(40)	BITSTRING	0	UEP_TS_ FUN_GET_RELEASE	
				"X'05'" read_next_into function
(40)	BITSTRING	0	UEP_TS_ FUN_GET_ RELEASE_SET	
				"X'06'" read_next_into function
(40)	BITSTRING	0	UEP_TS_ FUN_RELEASE	"X'07'" delete function
(44)	ADDRESS	4		
(48)	ADDRESS	4		
(4C)	ADDRESS	4		
(50)	ADDRESS	4		
(54)	ADDRESS	4		
(58)	ADDRESS	4		
(5C)	ADDRESS	4		
XTSPTOUT PARAMETERS VALID RETURN CODES FOR XTSPTOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4		
(44)	ADDRESS	4		
(48)	ADDRESS	4		
(4C)	ADDRESS	4		
(50)	ADDRESS	4		
(54)	ADDRESS	4		
(58)	ADDRESS	4		
(5C)	ADDRESS	4		
XTSEREQ PARAMETERS VALID RETURN CODES FOR XTSEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPTQTOK	ADDRESS OF TOKEN TO PASS TO XTSEREQC
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
(50)	ADDRESS	4		RESERVED
<pre> XTSEREQC PARAMETERS VALID RETURN CODES FOR XTSEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED</pre>				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTQTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
(50)	ADDRESS	4	UEP_TS_ REMOTE_SYSTEM	
				ADDRESS OF COPY OF REMOTE SYSTEM

<pre>   XTDREQ PARAMETERS
 VALID RETURN CODES FOR XTDREQ ARE:
 UERCNORM EQU X'00' NORMAL(DEFAULT)
 UERCTDOK EQU X'04' Quit TD processing
                 - return "normal" to caller
 UERCTDNA EQU X'08' Quit TD processing
                 - return "notauth" to caller
 UERCPURG EQU X'20' PURGED</pre>				

(30)	ADDRESS	4	UEPTDQUE	Address of TD queue name
(34)	ADDRESS	4	UEPTDTYP	Address of TD request type
equates for TD request byte				
(34)	SIGNED	0	UEPTDPUT	"1" PUT request
(34)	SIGNED	0	UEPTDGET	"2" GET request
(34)	SIGNED	0	UEPTDPUR	"3" PURGE request

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
XTDIN PARAMETERS VALID RETURN CODES FOR XTDIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPTDQUE - as defined above XTDOUT / XTDIN parameters
(34)	ADDRESS	4	UEPTDAUD	Address of unmodified data
(38)	ADDRESS	4	UEPTDLUD	Address of length of unmodified data
(3C)	ADDRESS	4	UEPTDAMD	Address of modified data
(40)	ADDRESS	4	UEPTDLMD	Address of length of modified data XTDOUT specific parameters
(44)	ADDRESS	4	UEPTDNUM	Address of #(records)
(48)	ADDRESS	4	UEPTDCUR	Address of #(current record)
XTDOUT PARAMETERS VALID RETURN CODES FOR XTDOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCTDOK EQU X'04' Quit TD processing - return "normal" to caller UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPTDQUE - as defined above
(34)	ADDRESS	4		UEPTDAUD - as defined above
(38)	ADDRESS	4		UEPTDLUD - as defined above
(3C)	ADDRESS	4		UEPTDAMD - as defined above
(40)	ADDRESS	4		UEPTDLMD - as defined above
(44)	ADDRESS	4		UEPTDNUM - as defined above
(48)	ADDRESS	4		UEPTDCUR - as defined above
XTDEREQ PARAMETERS VALID RETURN CODES FOR XTDEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	ADDRESS	4	UEPTDTOK	ADDRESS OF TOKEN TO PASS TO XTDEREQC
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
(50)	ADDRESS	4		RESERVED
(54)	ADDRESS	4		RESERVED
``` XTDEREQC PARAMETERS` `VALID RETURN CODES FOR XTDEREQC ARE:` `UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING)` `UERCPURG EQU X'20' PURGED ```				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTDTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
(50)	ADDRESS	4	UEP_TD_ REMOTE_SYSTEM	
				ADDRESS OF COPY OF REMOTE SYSTEM
(54)	ADDRESS	4	UEP_TD_ REMOTE_NAME	ADDRESS OF COPY OF REMOTE NAME
``` XLDLOAD PARAMETERS` `VALID RETURN CODES FOR XLDLOAD ARE:` `UERCNORM EQU X'00' NORMAL(DEFAULT) ```				

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	ADDRESS	4	UEPPROGN	ADDRESS OF NAME OF LOADED PROGRAM
(44)	ADDRESS	4	UEPPROGL	ADDRESS OF UEPPROGN LENGTH
(48)	ADDRESS	4		RESERVED FOR UEPRECUR
(4C)	ADDRESS	4	UEPLDPT	ADDRESS OF PROGRAM LOAD POINT
(50)	ADDRESS	4	UEPENTRY	ADDRESS OF PROGRAM ENTRY POINT
(54)	ADDRESS	4		RESERVED
(58)	ADDRESS	4		RESERVED - XLD7
(5C)	ADDRESS	4		RESERVED - XLD8
XLDELETE PARAMETERS VALID RETURN CODES FOR XLDELETE ARE: UERCNORM EQU X'00' NORMAL(DEFAULT)				
XNQEREQ PARAMETERS VALID RETURN CODES FOR XNQEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCSCPE EQU X'08' SCOPE provided UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPNQTOK	ADDRESS OF TOKEN TO PASS TO XNQEREQC
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4	UEPSCOPE	ADDRESS OF SCOPE NAME
XNQEREQC PARAMETERS VALID RETURN CODES FOR XNQEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	ADDRESS	4		UEPNQTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
XXRSTAT PARAMETERS VALID RETURN CODES FOR XXRSTAT ARE: UERCNORM EQU X'00' NORMAL(TAKE SYSTEM ACTION) UERCCOIG EQU X'04' IGNORE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPERRA	ADDRESS OF ERROR DATA
XXDFA PARAMETERS VALID RETURN CODES FOR XXDFA ARE: UERCNOAC EQU X'00' NO ACTION UERCSWCH EQU X'04' SWITCH TO ALTERNATE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP				
(30)	ADDRESS	4	UEPDBXR	ADDRESS OF DBCTL XRF INFO
XXDFB PARAMETERS VALID RETURN CODES FOR XXDFB ARE: UERCNOAC EQU X'00' NO ACTION UERCSWCH EQU X'04' SWITCH TO ALTERNATE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP				
(30)	ADDRESS	4		UEPDBXR - AS DEFINED ABOVE
XXDTO PARAMETERS VALID RETURN CODES FOR XXDTO ARE: UERCNOAC EQU X'00' NO ACTION UERCSWCH EQU X'04' SWITCH TO ALTERNATE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP				
(30)	ADDRESS	4		UEPDBXR - AS DEFINED ABOVE
XDTRD PARAMETERS VALID RETURN CODES FOR XDTRD ARE: UERCDTAC EQU X'00' Accept record UERCDTRJ EQU X'04' Reject record UERCDTOP EQU X'08' Optimise data table add (SDT only) UERCDTEX EQU X'0C' Extension for data tables (SDT only)				
(30)	ADDRESS	4	UEPDTPL	ADDRESS OF DATA TABLE parameter list

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
XDTAD PARAMETERS VALID RETURN CODES FOR XDTAD ARE: UERCDTAC EQU X'00' Accept record UERCDTRJ EQU X'04' Reject record UERCDTOP EQU X'08' Optimise data table add (SDT only) UERCDTEX EQU X'0C' Extension for data tables (SDT only)				
(30)	ADDRESS	4		UEPDTP - AS DEFINED ABOVE
XDTLC PARAMETERS VALID RETURN CODES FOR XDTLC ARE: UERCDTOK EQU X'00' OPEN OK UERCDTCL EQU X'04' CLOSE THE DATA TABLE/FILE UERCDTSH EQU X'08' Shared data table load (SDT only) UERCDTEX EQU X'0C' Extension for data tables (SDT only)				
(30)	ADDRESS	4		UEPDTP - AS DEFINED ABOVE
XZIQUE PARAMETERS VALID RETURN CODES FOR XZIQUE ARE: UERCAQUE EQU X'00' Queue allocate request UERCAPUR EQU X'04' Purge allocate request-sysiderr UERCAKLL EQU X'08' Kill queued tasks & issue MSG UERCAKLM EQU X'0C' Kill queued tasks for modegrp & issue MSG UERCPURG EQU X'20' Task purged during XPI call				
(30)	ADDRESS	4	UEPZDATA	ADDRESS OF XZIQUE PARAMETERS
XISQUE PARAMETERS VALID RETURN CODES FOR XISQUE ARE: UERCAQUE EQU X'00' Queue allocate request UERCAPUR EQU X'04' Purge allocate request-sysiderr UERCAKLL EQU X'08' Kill queued tasks & issue MSG UERCPURG EQU X'20' Task purged during XPI call check parm list hasn't already been generated by XISQUE				
(40)	ADDRESS	4	UEPISDATA	ADDRESS OF XISQUE PARAMETERS
XISQLCL PARAMETERS VALID RETURN CODES FOR XISQLCL ARE: UERCSYS EQU X'00' Take system action UERCQUE EQU X'04' Queue the request UERCIGN EQU X'08' Ignore, return system action UERCPURG EQU X'20' Purged				
MODIFICATIONS TO THE ARGUMENTS UEPTRANID THRU UEPPROG ARE NOT ALLOWED				
(30)	ADDRESS	4		ADDRESS OF TRANSACTION ID
(34)	ADDRESS	4		ADDRESS OF USERID
(38)	ADDRESS	4		ADDRESS OF TERMINAL ID
(3C)	ADDRESS	4		ADDRESS OF APPLICATION PROGRAM NAME
(40)	ADDRESS	4	UEPISQPL	Address of XISQLCL parm list

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
XISCONA PARAMETERS VALID RETURN CODES FOR XISCONA ARE: UERCAQUE EQU X'00' Queue allocate request UERCAPUR EQU X'04' Purge allocate request-sysiderr				
(30)	ADDRESS	4	UEPISPCA	ADDRESS OF XISCONA PARAMETERS
XISLCLQ PARAMETERS VALID RETURN CODES FOR XISLCLQ ARE: UERCSYS EQU X'00' TAKE SYSTEM ACTION UERCQUE EQU X'04' QUEUE THE REQUEST UERCIGN EQU X'08' IGNORE, RETURN SYSTEM ACTION UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPISPP	ADDRESS OF XISLCLQ PARAMETERS
XMNOUT PARAMETERS VALID RETURN CODES FOR XMNOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS MONITOR RECORD OUTPUT UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4	UEPDICT	ADDRESS OF DICTIONARY
(44)	ADDRESS	4	UEPDICTE	ADDRESS OF DICTIONARY ENTRIES
(48)	ADDRESS	4	UEPFCL	ADDRESS OF FIELD CONNECTOR LIST
(4C)	ADDRESS	4	UEPFCLNO	ADDRESS OF NUMBER OF FIELD CONNECTORS
(50)	ADDRESS	4	UEPMRTYP	ADDRESS OF MONITORING RECORD TYPE
(54)	ADDRESS	4	UEPMRLEN	ADDRESS OF MONITORING RECORD LENGTH
(58)	ADDRESS	4	UEPMREC	ADDRESS OF MONITORING RECORD
(5C)	ADDRESS	4	UEPSRCTK	ADDRESS OF WLM SERVICE REPORTING TOKEN
(60)	ADDRESS	4	UEPMPREC	ADDRESS OF MN PERFORMANCE RECORD
XSTOUT PARAMETERS VALID RETURN CODES FOR XSTOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS STATISTICS RECORD OUTPUT				
(40)	ADDRESS	4	UEPSTATS	ADDRESS OF STATISTICS RECORD

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	ADDRESS	4	UEPSRLEN	ADDRESS OF LENGTH OF STATS RECORD
(48)	ADDRESS	4	UEPSTYPE	ADDRESS OF STATISTICS TYPE
EQUATES FOR STATISTICS TYPE				
(48)	CHARACTER	0	UEPSINT	"C'INT'" INTERVAL STATISTICS
(48)	CHARACTER	0	UEPSREQ	"C'REQ'" REQUESTED STATISTICS
(48)	CHARACTER	0	UEPSEOD	"C'EOD'" END OF DAY STATISTICS
(48)	CHARACTER	0	UEPSUSS	"C'USS'" UNSOLICITED STATISTICS
(48)	CHARACTER	0	UEPSRRT	"C'RRT'" REQUESTED RESET STATISTICS
(4C)	ADDRESS	4	UEPSDATE	ADDRESS OF COLLECTION DATE (MMDDYY)
(50)	ADDRESS	4	UEPSTIME	ADDRESS OF COLLECTION TIME (HHMMSS)
THE FOLLOWING TWO PARAMETERS ARE FOR INTERVAL STATISTICS ONLY				
(54)	ADDRESS	4	UEPSIVAL	ADDRESS OF INTERVAL TIME (HHMMSS)
(58)	ADDRESS	4	UEPSIVN	ADDRESS OF INTERVAL NUMBER
(5C)	ADDRESS	4	UEPSCLD	ADDRESS OF COLLECTION DATE (MMDDYYYY)
XDUREQ PARAMETERS VALID RETURN CODES FOR XDUREQ ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS DUMP UERCPURG EQU X'20' PURGED check parm list hasn't already been generated by XDUREQ				
(40)	ADDRESS	4	UEPDUMPC	ADDRESS OF COPY OF DUMP CODE
(44)	ADDRESS	4	UEPDUMPT	ADDRESS OF DUMP TYPE IDENTIFIER
EQUATES FOR DUMP TYPE IDENTIFIER				
(44)	CHARACTER	0	UEPDTRAN	"C'T'" TRANSACTION DUMP REQUEST

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	CHARACTER	0	UEPDSYST	"C'S'" SYSTEM DUMP REQUEST
(48)	ADDRESS	4	UEPABCDE	ADDRESS OF COPY OF ABEND CODE
(4C)	ADDRESS	4	UEPXDSCP	Address of dumpscope
(4C)	BITSTRING	0	UEPXDLOC	"X'1'" DUDT_LOCAL
(4C)	BITSTRING	0	UEPXDREL	"X'2'" DUDT_RELATED
(50)	ADDRESS	4	UEPXDTXN	Address of DUDT_TRANSACTION_DUMP
(50)	BITSTRING	0	UEPXDYES	"X'1'" DUDT_YES
(50)	BITSTRING	0	UEPXDNO	"X'2'" DUDT_NO
(54)	ADDRESS	4	UEPXDSYS	Address of DUDT_SYSTEM_DUMP
(58)	ADDRESS	4	UEPXDTRM	Address of DUDT_TERMINATE_CICS
(5C)	ADDRESS	4	UEPXDMAX	Address of DUDT_MAXIMUM_DUMPS
(60)	ADDRESS	4	UEPXDCNT	Address of DUDT_COUNT
(64)	ADDRESS	4	UEPXDTST	Address of DUDT_TRAN_DUMPS_TAKEN
UEPXDTST addresses 4 consecutive fullwords which contain as binary integers the dump table statistics: TRAN_DUMPS_TAKEN, TRAN_DUMPS_SUPPRESSED, SYS_DUMPS_TAKEN SYS_DUMPS_SUPPRESSED. Comments in DFHDUDTR indicate that the corresponding DUDT fields must remain contiguous.				
(68)	ADDRESS	4	UEPXDDAE	Address of DUDT_DAEOPTION
(6C)	ADDRESS	4	UEPDMPID	Address of the dump ID string
(70)	ADDRESS	4	UEPDURQE (0)	End of parms shared with XDUREQC
(70)	ADDRESS	4	UEPFMOD	Address of name of failing module
XDUCLSE PARAMETERS VALID RETURN CODES FOR XDUCLSE ARE: UERCNORM EQU X'00' NORMAL UERCSWCH EQU X'04' DON'T SWITCH AUTOSWITCH OFF. UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4	UEPDMPDD	ADDRESS OF DUMP DATASET DDNAME
(44)	ADDRESS	4	UEPDMPDSN	ADDRESS OF DUMP DATASET DSNAME

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
XDUOUT PARAMETERS VALID RETURN CODES FOR XDUOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS DUMP BUFFER OUTPUT (APPLICABLE ONLY FOR UEDMPWR) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4	UEPDMPFC	ADDRESS OF XDUOUT FUNCTION CODE
EQUATES FOR XDUOUT FUNCTION CODE				
	....		UEPDMPWR	"X'00'" BUFFER ABOUT TO BE WRITTEN
(40)	BITSTRING	0	UEPDMPRE	"X'04'" DUMP ABOUT TO RESTART AFTER AUTO-SWITCH
(40)	BITSTRING	0	UEPDMPAB	"X'08'" ABNORMAL TERMINATION OF DUMP
(40)	BITSTRING	0	UEPDMPDY	"X'0C'" BUFFER ABOUT TO BE WRITTEN TO DUMMY FILE
UEPDMPBF AND UEPDMPLEN ARE ZERO WHEN UEPDMPFC IS UEPDMPRE OR UEPDMPAB				
(44)	ADDRESS	4	UEPDMPBF	ADDRESS OF DUMP BUFFER
(48)	ADDRESS	4	UEPDMPLEN	ADDRESS OF DUMP BUFFER LENGTH
XDUREQC PARAMETERS ONLY VALID RETURN CODE FOR XDUREQ IS: UERCNORM EQU X'00' NORMAL check parm list hasn't already been generated by XDUREQ				
(70)	ADDRESS	4	UEPDRESP	Address of DUDU_RESPONSE
Equates for dump response code				
(70)	BITSTRING	0	UEPDRPOK	"X'01'" DUDU_OK
(70)	BITSTRING	0	UEPDRPEX	"X'02'" DUDU_EXCEPTION
(70)	BITSTRING	0	UEPDRPPR	"X'06'" DUDU_PURGED
(74)	ADDRESS	4	UEPDREAS	Address of DUDU_REASON
Equates for dump reason code				
(74)	BITSTRING	0	UEPDRSOE	"X'01'" DUDU_OPEN_ERROR
(74)	BITSTRING	0	UEPDRSNO	"X'02'" DUDU_NOT_OPEN

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(74)	BITSTRING	0	UEPDRSID	"X'03'" DUDU_INVALID_DUMPCODE
(74)	BITSTRING	0	UEPDRSPT	"X'04'" DUDU_PARTIAL_TRANSACTION_DUM
(74)	BITSTRING	0	UEPDRSS1	"X'05'" DUDU_SUPPRESSED_BY_DUMPOPTIO
(74)	BITSTRING	0	UEPDRSS2	"X'06'" DUDU_SUPPRESSED_BY_DUMPTABLE
(74)	BITSTRING	0	UEPDRSS3	"X'07'" DUDU_SUPPRESSED_BY_USEREXIT
(74)	BITSTRING	0	UEPDRSPS	"X'08'" DUDU_PARTIAL_SYSTEM_DUMP
(74)	BITSTRING	0	UEPDRSSB	"X'0A'" DUDU_SDUMP_BUSY
(74)	BITSTRING	0	UEPDRSSA	"X'0B'" DUDU_SDUMP_NOT_AUTHORIZED
(74)	BITSTRING	0	UEPDRSND	"X'0D'" DUDU_NO_DATASET

<td colspan="5">   XDSBWT PARAMETERS
VALID RETURN CODES FOR XDSBWT ARE:
UERCNORM EQU X'00' NORMAL
UERCSWAP EQU X'04' ISSUE SYSEVENT TO ALLOW ADDRESS-SPACE
                  SWAPPING
XDSBWT HAS NO UNIQUE PARAMETERS
   XDSAWT PARAMETERS
VALID RETURN CODES FOR XDSAWT ARE:
UERCNORM EQU X'00' NORMAL
UERCNOSW EQU X'08' ISSUE SYSEVENT TO SUPPRESS ADDRESS-SPACE
                  SWAPPING</td>

(30)	ADDRESS	4		RESERVED
(34)	ADDRESS	4		RESERVED
(38)	ADDRESS	4		RESERVED
(3C)	ADDRESS	4		RESERVED
(40)	ADDRESS	4	UEPSYSRC	ADDRESS OF SYSEVENT RETURN CODE
<td colspan="5">   XRSINDI PARAMETERS VALID RETURN CODES FOR XRSINDI ARE: UERCNORM EQU X'00' NORMAL (default). UERCPURG EQU X'20' PURGED</td>
(40)	ADDRESS	4	UEPIDREQ	Address of INSTALL/DISCARD ident(byte) Possible values of the identifier:
(40)	SIGNED	0	UEIDINS	"1" for INSTALL requests
(40)	SIGNED	0	UEIDDIS	"2" for DISCARD requests

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	ADDRESS	4	UEPIDNAM	Address of resource name
(48)	ADDRESS	4	UEPIDLEN	Address of resource name length (word)
(4C)	ADDRESS	4	UEPIDNUM	Address of resource name number (word)
(50)	ADDRESS	4	UEPIDTYP	Address of resource type (byte) Possible values of the type:
(50)	SIGNED	0	UEIDTRAN	"1" Transaction
(50)	SIGNED	0	UEIDPROF	"2" Profile
(50)	SIGNED	0	UEIDPROG	"3" Program
(50)	SIGNED	0	UEIDMAP	"4" Mapset
(50)	SIGNED	0	UEIDPSET	"5" Partitionset
(50)	SIGNED	0	UEIDTERM	"6" Terminal
(50)	SIGNED	0	UEIDCONN	"7" Connection
(50)	SIGNED	0	UEIDMODE	"8" Modename
(50)	SIGNED	0	UEIDSESS	"9" Session
(50)	SIGNED	0	UEIDFILE	"10" File
(50)	SIGNED	0	UEIDPART	"11" Partner
(50)	SIGNED	0	UEIDTCLS	"12" TCLASS
(50)	SIGNED	0	UEIDAITM	"13" Autoinstall terminal model
(50)	SIGNED	0	UEIDFECO	"14" FEPI Connection
(50)	SIGNED	0	UEIDFENO	"15" FEPI Node
(50)	SIGNED	0	UEIDFEPO	"16" FEPI Pool
(50)	SIGNED	0	UEIDFEPS	"17" FEPI Propertyset
(50)	SIGNED	0	UEIDFETA	"18" FEPI Target
(50)	SIGNED	0	UEIDTDQU	"19" TD queue
(50)	SIGNED	0	UEIDJNMD	"20" Journalmodel
(50)	SIGNED	0	UEIDJNNM	"21" Journalname
(50)	SIGNED	0	UEIDSTRM	"22" Log Stream name
(50)	SIGNED	0	UEIDDB2C	"23" DB2 Connection (DB2CONN)
(50)	SIGNED	0	UEIDDB2E	"24" DB2 Entry (DB2ENTRY)
(50)	SIGNED	0	UEIDDB2T	"25" DB2 Transaction (DB2TRAN)
(50)	SIGNED	0	UEIDTSMD	"27" Tsmodel
(50)	SIGNED	0	UEIDPRTY	"28" Processtype
(50)	SIGNED	0	UEIDNQRN	"26" NQR name
(50)	SIGNED	0	UEIDRQMD	"29" Request model (IIOP)

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	SIGNED	0	UEIDTCPS	"30" Tcpipservice
(50)	SIGNED	0	UEIDDOCT	"31" Doctemplate
(50)	SIGNED	0	UEIDCSRV	"32" EJ CorbaServer
(50)	SIGNED	0	UEIDDJAR	"33" EJ DJar
(50)	SIGNED	0	UEIDBEAN	"34" EJ Bean
(50)	SIGNED	0	UEIDURIM	"35" URIMAP
(50)	SIGNED	0	UEIDWEBS	"36" WebService
(50)	SIGNED	0	UEIDPIPE	"37" Pipeline
(50)	SIGNED	0	UEIDIPCO	"38" IPCONN
(50)	SIGNED	0	UEIDLBRY	"39" LIBRARY
(50)	SIGNED	0	UEIDBNDL	"40" Bundle
(50)	SIGNED	0	UEIDATOM	"41" Atomservice
(50)	SIGNED	0	UEIDMQCN	"42" MQ Connection (MQCONN)
(50)	SIGNED	0	UEIDMQIN	"43" MQ Initiation Queue (MQINI)
(50)	SIGNED	0	UEIDEVNT	"44" Eventbinding
(50)	SIGNED	0	UEIDXMLT	"45" XmlTransform
(50)	SIGNED	0	UEIDJSRV	"46" JVMServer
(50)	SIGNED	0	UEIDEVCS	"47" Event Capture Specification
(50)	SIGNED	0	UEIDEPAD	"48" EP adapter
(50)	SIGNED	0	UEIDOSGB	"49" OSGi bundle
(54)	ADDRESS	4	UEPIDREC	Recoverability This indicates that:
(54)	SIGNED	0	UEIDKEEP	"1" the resource will be recovered
(54)	SIGNED	0	UEIDLOSE	"2" the resource will not be recovered Resource Signature
(58)	ADDRESS	4	UEPDEFTM	Address of define time (STCK)
(5C)	ADDRESS	4	UEPCHUSR	Address of change userid (CL8)
(60)	ADDRESS	4	UEPCHAGT	Address of change agent (H)
(64)	ADDRESS	4	UEPCHREL	Address of change release (CL4)
(68)	ADDRESS	4	UEPCHTIM	Address of change time (STCK)
(6C)	ADDRESS	4	UEPDEFSRC	Address of definition group (CL8)
(70)	ADDRESS	4	UEPINUSR	Address of install userid (CL8)

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(74)	ADDRESS	4	UEPINTIM	Address of install time (STCK)
(78)	ADDRESS	4	UEPINAGT	Address of install agent (H) Possible values of change/install agents
	....		UEPUNKAGT	"0" Unknown agent
(78)	SIGNED	0	UEPCSDAPI	"1" CSDAPI (CEDA)
(78)	SIGNED	0	UEPCSDBAT	"2" CSDBATCH (DFHCSDUP)
(78)	SIGNED	0	UEPDRPAPI	"3" DREP API (CPSM)
(78)	SIGNED	0	UEPCRESPI	"4" CREATE SPI
(78)	SIGNED	0	UEPGRPLST	"5" GRPLIST
(78)	SIGNED	0	UEPAUTOIN	"6" AUTOINSTALL
(78)	SIGNED	0	UEPSYSTEM	"7" SYSTEM
(78)	SIGNED	0	UEPDYNAMC	"8" DYNAMIC
(78)	SIGNED	0	UEPBUNDLE	"9" BUNDLE
(78)	SIGNED	0	UEPTABLE	"10" TABLE
XXMATT PARAMETERS VALID RETURN CODES FOR XXMATT ARE: UERCNORM EQU X'00' NORMAL (default).				
(40)	ADDRESS	4	UEPATPTI	Address of primary transaction id.
(44)	ADDRESS	4	UEPATOTI	Address of attach transaction id. (A tran. id. of X'00000000' indicates that no tran. id. was supplied on the attach.)
(48)	ADDRESS	4	UEPATTPL	Address of attach tpname length (word) (A length of 0 indicates that a tpname was not supplied on the attach.)
(4C)	ADDRESS	4	UEPATTPA	Addr of addr of attach tpname (word
(50)	ADDRESS	4	UEPATLOC	Address of locate result (byte) Possible values of the locate result:
(50)	SIGNED	0	UEATFND	"1" Transaction was found
(50)	SIGNED	0	UEATNFND	"2" Transaction was not found

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	ADDRESS	4	UEPATTST	Address of trandef state (byte) Possible values of the trandef state:
(54)	SIGNED	0	UEATENAB	"1" Transaction is enabled
(54)	SIGNED	0	UEATDISA	"2" Transaction is disabled
(58)	ADDRESS	4	UEPATTTK	Address of transaction token
XFAINTU PARAMETERS VALID RETURN CODES FOR XFAINTU ARE: UERCNORM EQU X'00' NORMAL (default).				
(30)	ADDRESS	4	UEPFAREQ	Address of request byte Possible values of the request byte:
(30)	SIGNED	0	UEPFAIN	"1" Initialise request
(30)	SIGNED	0	UEPFATU	"2" Tidy Up request
(34)	ADDRESS	4	UEPFATUT	Address of Tidy Up type byte Possible values of the type byte:
(34)	SIGNED	0	UEPFANTU	"1" Normal tidy up
(34)	SIGNED	0	UEPFAETU	"2" Expired tidy up
(38)	ADDRESS	4	UEPFANAM	Address of Facility name
(3C)	ADDRESS	4	UEPFATYP	Address of Facility type Possible values of the type byte:
(3C)	SIGNED	0	UEPFABR	"1" 3270 Bridge facility
(40)	ADDRESS	4	UEPFAUAA	Address of Facility User Area
(44)	ADDRESS	4	UEPFAUAL	Address of User Area length byte
(48)	ADDRESS	4	UEPFATK	Address of Facility Token
(4C)	ADDRESS	4	UEPFAMCH	Address of Start Mechanism byte Possible values of UEPFAMCH
(4C)	SIGNED	0	UEPFASTA	"1" Started using START BREXIT
(4C)	SIGNED	0	UEPFALNK	"2" Started using LINK
(50)	ADDRESS	4	UEPFAREG	Address of Region Type Byte Possible values of UEPFAREG

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	SIGNED	0	UEPFAROU	"1" Router for Bridge Facility
(50)	SIGNED	0	UEPFAAOR	"2" AOR for Bridge Facility
XDLIPRE PARAMETERS VALID RETURN CODES FOR XDLIPRE ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' BYPASS DL/1 REQUEST AND RETURN UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPCTYPE	ADDRESS OF TYPE OF REQUEST BYTE
EQUATES FOR TYPE OF REQUEST BYTE				
(30)	CHARACTER	0	UEPCEXEC	"C'E'" EXEC REQUEST
(30)	CHARACTER	0	UEPCCALL	"C'C'" CALL REQUEST
(30)	CHARACTER	0	UEPCSHIP	"C'F'" FUNCTION SHIPPED REQUEST
(34)	ADDRESS	4	UEPAPLIST	ADDRESS OF APPLICATION'S PARM LIST
(38)	ADDRESS	4	UEPLANG	ADDRESS OF LANGUAGE CALL TYPE BYTE
EQUATES FOR LANGUAGE BYTE				
(38)	CHARACTER	0	UEPPLI	"C'P'" PLI
(38)	CHARACTER	0	UEPCBL	"C'C'" COBOL
(38)	CHARACTER	0	UEPASM	"C'A'" ASSEMBLER
(38)	CHARACTER	0	UEPAIB	"C'I'" AIB
(3C)	ADDRESS	4	UEPIOAX	ADDRESS OF IO AREA EXISTENCE FLAG
EQUATE FOR IO AREA EXISTENCE BYTE				
(3C)	BITSTRING	0	UEPIOA1	"X'01'" IO AREA EXISTS
(40)	ADDRESS	4	UEPIOA	ADDRESS OF IO AREA
(44)	ADDRESS	4	UEPPSBNX	ADDRESS OF PSB EXISTENCE FLAG
EQUATE FOR PSB EXISTENCE BYTE				
(44)	BITSTRING	0	UEPPSB1	"X'02'" PSB EXISTS
(48)	ADDRESS	4	UEPPSBNM	ADDRESS OF PSB
(4C)	ADDRESS	4	UEPSYSDX	ADDRESS OF SYSID EXISTENCE FLAG
EQUATE FOR SYSID EXISTENCE BIT				
(4C)	BITSTRING	0	UEPSYS1	"X'03'" SYSID EXITS

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	ADDRESS	4	UEPSYSID	ADDRESS OF SYSID
XDLIPOST PARAMETERS VALID RETURN CODES FOR XDLIPOST ARE: UERCNORM EQU X'00' NORMAL UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCTYPE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPAPLIST - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPLANG - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPIOAX - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPIOA - AS DEFINED ABOVE
(44)	ADDRESS	4	UEPUIBX	ADDRESS OF UIB EXISTENCE FLAG
EQUATE FOR UIB EXISTENCE BYTE				
(44)	BITSTRING	0	UEPUIB1	"X'04'" UIB EXISTS
(48)	ADDRESS	4	UEPUIB	ADDRESS OF UIB
XMEOUT PARAMETERS VALID RETURN CODES FOR XMEOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' Suppress (bypass) the messages for all destinations.				
(40)	ADDRESS	4	UEPMNUM	Address of 4 byte message number
(44)	ADDRESS	4	UEPMDOM	Address of 2 byte dom id (or blank)
(48)	ADDRESS	4	UEPMROU	Address of array of up to 128 route codes
(4C)	ADDRESS	4	UEPMNRC	Address of h/word containing number of route codes in array.
(50)	ADDRESS	4	UEPMTDQ	Address of array of 4 char names of TD queues to send messages to
(54)	ADDRESS	4	UEPMNTD	Address of h/word containing number of TDQs in the TDQ array
(58)	ADDRESS	4	UEPINSN	Address of 2 byte number of inserts
(5C)	ADDRESS	4	UEPINSA	Address of message inserts
(60)	ADDRESS	4	UEPNRTE	Address of no re-route flag

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(64)	ADDRESS	4	UEPCPID	Address of 3-byte product id
(68)	ADDRESS	4	UEPCPDOM	Address of new 2-byte domain id
(6C)	ADDRESS	4	UEPCPNUM	Address of new 4-byte msg number
(70)	ADDRESS	4	UEPCPSEV	Address of message severity code
<pre> XSTERM PARAMETERS VALID RETURN CODES FOR XSTERM ARE: UERCNORM EQU X'00' NORMAL There are no exit specific parameters for this exit. XSRAB PARAMETERS VALID RETURN CODES FOR XSRAB ARE: UERCNOCA EQU X'00' Abend task ASRB, don't cancel exits UERCCANC EQU X'04' Abend task ASRB, cancel exits UERCCICS EQU X'08' Abend CICS</pre>				
(30)	ADDRESS	4	UEPERROR	ADDRESS OF SRP_ERROR_DATA

<pre>   XSZBRQ PARAMETERS
VALID RETURN CODES FOR XSZBRQ ARE:
     UERCNORM EQU X'00' NORMAL
     UERCBYP EQU X'04' NOOP THE CALL</pre>				

(30)	BITSTRING	2	UEPSZACT	FEPI Command Code
(32)	BITSTRING	2		Unused
(34)	CHARACTER	8	UEPSZCNV	CONVID
(3C)	CHARACTER	8	UEPSZALP	POOL
(44)	CHARACTER	8	UEPSZALT	TARGET
(4C)	FULLWORD	4	UEPSZTIM	TIMEOUT
(50)	ADDRESS	4	UEPSZSND	Addr of Outbound Data
(54)	FULLWORD	4	UEPSZSNL	Len of Outbound Data
(58)	CHARACTER	4	UEPSZSTT	TRANSID for START
(5C)	CHARACTER	4	UEPSZSTM	TERMID for START
(60)	BITSTRING	1	UEPSZSNK	KEYSTROKE Flag
(60)	BITSTRING	0	UEPSZSNK_ON	"X'80'" Active
	....		UEPSZSNK_OFF	"X'00'" InActive
(61)	BITSTRING	1	UEPSZSNE	ESCAPE Byte
<pre> XSZARQ PARAMETERS VALID RETURN CODES FOR XSZARQ ARE: UERCNORM EQU X'00' NORMAL</pre>				
(30)	BITSTRING	2	UEPSZACN	FEPI Command Code
(32)	BITSTRING	2		Unused
(34)	CHARACTER	8	UEPSZCON	CONVID
(3C)	FULLWORD	4	UEPSZRP2	Response Code

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	ADDRESS	4	UEPSZRVD	Addr of Inbound Data
(44)	FULLWORD	4	UEPSZRVL	Len of Inbound Data Command Codes
(44)	BITSTRING	0	UEPSZNOA	"X'820E'" AP NOOP
(44)	BITSTRING	0	UEPSZOAL	"X'8210'" ALLOCATE
(44)	BITSTRING	0	UEPSZOCF	"X'8212'" CONVERSE FORMATTED
(44)	BITSTRING	0	UEPSZOCD	"X'8214'" CONVERSE DATASTREAM
(44)	BITSTRING	0	UEPSZOXC	"X'8216'" EXTRACT CONV
(44)	BITSTRING	0	UEPSZOXF	"X'8218'" EXTRACT FIELD
(44)	BITSTRING	0	UEPSZOXS	"X'821A'" EXTRACT STSN
(44)	BITSTRING	0	UEPSZOFR	"X'821C'" FREE
(44)	BITSTRING	0	UEPSZOSU	"X'821E'" ISSUE
(44)	BITSTRING	0	UEPSZORF	"X'8220'" RECEIVE FORMATTED
(44)	BITSTRING	0	UEPSZORD	"X'8222'" RECEIVE DATASTREAM
(44)	BITSTRING	0	UEPSZOSF	"X'8224'" SEND FORMATTED
(44)	BITSTRING	0	UEPSZOSD	"X'8226'" SEND DATASTREAM
(44)	BITSTRING	0	UEPSZOST	"X'8228'" START
(44)	BITSTRING	0	UEPSZSDN	"X'8402'" Normal Shutdown
(44)	BITSTRING	0	UEPSZSDI	"X'8404'" Immediate Shutdown
(44)	BITSTRING	0	UEPSZSDF	"X'8406'" Forced Shutdown
(44)	BITSTRING	0	UEPSZEOT	"X'8408'" CICS End of Task
(44)	BITSTRING	0	UEPSZNOS	"X'840E'" SP NOOP
(44)	BITSTRING	0	UEPSZOQY	"X'8422'" INQUIRE PROPERTYSET
(44)	BITSTRING	0	UEPSZOIY	"X'8428'" INSTALL PROPERTYSET
(44)	BITSTRING	0	UEPSZODY	"X'8430'" DISCARD PROPERTYSET
(44)	BITSTRING	0	UEPSZOQN	"X'8442'" INQUIRE NODE
(44)	BITSTRING	0	UEPSZOTN	"X'8444'" SET NODE

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	BITSTRING	0	UEPSZOIN	"X'8448'" INSTALL NODE
(44)	BITSTRING	0	UEPSZOAD	"X'844A'" ADD POOL
(44)	BITSTRING	0	UEPSZODE	"X'844C'" DELETE POOL
(44)	BITSTRING	0	UEPSZODN	"X'8450'" DISCARD NODE
(44)	BITSTRING	0	UEPSZOQP	"X'8462'" INQUIRE POOL
(44)	BITSTRING	0	UEPSZOTP	"X'8464'" SET POOL
(44)	BITSTRING	0	UEPSZOIP	"X'8468'" INSTALL POOL
(44)	BITSTRING	0	UEPSZODP	"X'8470'" DISCARD POOL
(44)	BITSTRING	0	UEPSZOQT	"X'8482'" INQUIRE TARGET
(44)	BITSTRING	0	UEPSZOTT	"X'8484'" SET TARGET
(44)	BITSTRING	0	UEPSZOIT	"X'8488'" INSTALL TARGET
(44)	BITSTRING	0	UEPSZODT	"X'8490'" DISCARD TARGET
(44)	BITSTRING	0	UEPSZOQC	"X'84A2'" INQUIRE CONNECTION
(44)	BITSTRING	0	UEPSZOTC	"X'84A4'" SET CONNECTION
XPCHAIR PARAMETERS VALID RETURN CODES FOR XPCHAIR ARE: UERCNORM EQU X'00' NORMAL UERCMEA EQU X'04' ENTRY POINT HAS BEEN MODIFIED UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPPCDS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTACB - AS DEFINED ABOVE
XPCTA PARAMETERS VALID RETURN CODES FOR XPCTA ARE: UERCNORM EQU X'00' NORMAL UERCMEA EQU X'04' ENTRY POINT HAS BEEN MODIFIED UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPPCDS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTACB - AS DEFINED ABOVE
XEIIN PARAMETERS VALID RETURN CODES FOR XEIIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCPURG EQU X'20' PURGED				

Table 731. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(30)	ADDRESS	4	UEPARG	ADDRESS OF COMMAND LEVEL PLIST
(34)	ADDRESS	4	UEPEXECB	ADDRESS OF EXEC INTERFACE BLOCK
(38)	ADDRESS	4	UEPUSID	ADDRESS OF TASK USERID
(3C)	ADDRESS	4	UEPPGM	ADDRESS OF PROGRAM NAME
(40)	ADDRESS	4	UEPLOAD	PROGRAM LOAD ADDRESS
(44)	ADDRESS	4	UEPRSA	ADDRESS OF APPL REGISTER SAVE AREA
(48)	ADDRESS	4	UEP_EI_PBTOK	ADDRESS OF PB TOKEN
XEIOUT PARAMETERS VALID RETURN CODES FOR XEIOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPARG - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPEXECB - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPUSID - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPPGM - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPLOAD - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPRSA - AS DEFINED ABOVE
(48)	ADDRESS	4		UEP_EI_PBTOK - AS DEFINED ABOVE
XEISPIN PARAMETERS VALID RETURN CODES FOR XEISPIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPARG - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPEXECB - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPUSID - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPPGM - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPLOAD - AS DEFINED ABOVE

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(44)	ADDRESS	4		UEPRSA - AS DEFINED ABOVE
(48)	ADDRESS	4		UEP_EI_PBTOK - AS DEFINED ABOVE
XEISPOUT PARAMETERS VALID RETURN CODES FOR XEISPOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPARG - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPEXECB - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPUSID - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPPGM - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPLOAD - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPRSA - AS DEFINED ABOVE
(48)	ADDRESS	4		UEP_EI_PBTOK - AS DEFINED ABOVE
XSNEX PARAMETERS VALID RETURN CODES FOR XSNEX ARE: UERCPREV EQU X'04' PREVIOUS SIGNON BEHAVIOR				
XSNON PARAMETERS VALID RETURN CODES FOR XSNON ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPUSRID	ADDRESS OF TERMINAL USERID
(34)	ADDRESS	4	UEPUSRLN	ADDRESS OF TERMINAL USERID LENGTH
(38)	ADDRESS	4	UEPGRPID	ADDRESS OF GROUP ID
(3C)	ADDRESS	4	UEPGRPLN	ADDRESS OF GROUP ID LENGTH
(40)	ADDRESS	4	UEPNETN	ADDRESS OF NETNAME
(44)	ADDRESS	4	UEPTRMID	ADDRESS OF TERMINAL ID
(48)	ADDRESS	4	UEPTCTUA	ADDRESS OF TCT USER AREA
(4C)	ADDRESS	4	UEPTCTUL	ADDRESS OF TCT USER AREA LENGTH

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	ADDRESS	4	UEPTRMTY	ADDRESS OF TERMINAL TYPE BYTE
Terminal Type is derived from the DEVICE attribute of the TERMTYPE RDO resource.				
(54)	ADDRESS	4	UEPSNFLG	ADDRESS OF SIGNON/OFF FLAG BYTES
equates for Signon/off flag byte1				
	....		UEPSNOK	"0" Sign-on/off successful
(54)	SIGNED	0	UEPSNFL	"1" Sign-on/off failed
(54)	SIGNED	0	UEPSNPSS	"2" PS signon sucessful
(54)	SIGNED	0	UEPSNPSF	"3" PS signon failed
equates for Signon/off flag byte2				
	....		UEPSNNML	"0" Normal sign-on/off (not timeout)
(54)	SIGNED	0	UEPSNTIM	"1" Timeout sign-off
XSNOFF PARAMETERS VALID RETURN CODES FOR XSNOFF ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPUSRID - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPUSRLN - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPGRPID - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPGRPLN - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPNETN - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTRMID - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPTCTUA - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPTCTUL - AS DEFINED ABOVE
(50)	ADDRESS	4		UEPTRMTY - AS DEFINED ABOVE
(54)	ADDRESS	4		UEPSNFLG - AS DEFINED ABOVE
XRMIIN PARAMETERS VALID RETURN CODES FOR XRMIIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	ADDRESS	4	UEPTRUEN	ADDRESS OF NAME OF TRUE
(34)	ADDRESS	4	UEPTRUEP	ADDRESS OF TRUE's PARAMETER LIST
(38)	ADDRESS	4	UEP_RM_PBTOK	ADDRESS OF PB TOKEN
(3C)	ADDRESS	4		RESERVED
(40)	ADDRESS	4		RESERVED
(44)	ADDRESS	4		RESERVED
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
``` XRMIOUT PARAMETERS VALID RETURN CODES FOR XRMIOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED ```				
(30)	ADDRESS	4		UEPTRUEN - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTRUEP - AS DEFINED ABOVE
(38)	ADDRESS	4		UEP_RM_PBTOK - AS DEFINED ABOVE
(3C)	ADDRESS	4		RESERVED
(40)	ADDRESS	4		RESERVED
(44)	ADDRESS	4		RESERVED
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE

```
   XFCBFAIL PARAMETERS
 VALID RETURN CODES FOR XFCBFAIL ARE:
 UERCNORM EQU X'00' NORMAL (DEFAULT)
 UERCBYP EQU X'04' BYPASS (IGNORE ERROR)
 VALID VALUES FOR UEPFCRSP ARE:
 UEDUPREC EQU X'10' DUPLICATE KEY ON UNIQUE AIX
 UENOSPAC EQU X'20' NO SPACE AVAILABLE
 UEIOEROR EQU X'24' I/O ERROR
 UENOLDEL EQU X'40' LOGICAL DELETE BYPASSED
 UENBWBAK EQU X'41' NON-BWO BACKUP IN PROGRESS
 UEDLOCK EQU X'B0' DEADLOCK
 UERLSERR EQU X'C0' VSAM RLS FAILURE DETECTED
 UERLSDIS EQU X'C1' VSAM RLS ACCESS DISABLED
 UERLSCON EQU X'C2' CONTINUATION OF RLS REQUEST DISABLED
 UECACHE EQU X'C3' VSAM RLS CACHE FAILURE
 UELCKFUL EQU X'C4' VSAM LOCK STRUCTURE FULL
 UEAIXFUL EQU X'F0' NO SPACE IN NON_UNIQUE AIX
 UEOPENER EQU X'FB' FILE OPEN ERROR
 UEUNEXP EQU X'FE' UNEXPECTED ERROR
 VALID VALUES FOR UEPERR ARE:
 XBFENO EQU X'00' NO ERROR
 XBFERU EQU X'01' READ UPDATE ERROR
 XBFERE EQU X'04' REWRITE ERROR
 XBFEWR EQU X'08' WRITE ERROR
 XBFEDL EQU X'20' DELETE ERROR
```

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	ADDRESS	4	UEPBLOGR	ADDRESS OF LOG RECORD BEING BACKED OUT
(34)	ADDRESS	4	UEPTRANS	ADDRESS OF TRANSACTION ID
(38)	ADDRESS	4	UEPTRMNL	ADDRESS OF TERMINAL ID
(3C)	ADDRESS	4	UEPTASK	ADDRESS OF TASK NUMBER
(40)	ADDRESS	4	UEPFCRSP	ADDRESS OF FILE CONTROL RESPONSE BYTE
(44)	ADDRESS	4	UEPERR	ADDRESS OF ERROR-TYPE BYTE
XFCLDEL PARAMETERS VALID RETURN CODES FOR XFCLDEL ARE: UERCFAIL EQU X'00' TREAT AS BACKOUT FAILURE UERCLDEL EQU X'04' LOGICALLY DELETE RECORD BY REAPPLYING				
(30)	ADDRESS	4		UEPBLOGR - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTRANS - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPTRMNL - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPTASK - AS DEFINED ABOVE
(40)	ADDRESS	4	UEPFDATA	ADDRESS OF DATA TO LOGICALLY DELETE
(44)	ADDRESS	4	UEPFLEN	ADDRESS OF FULLWORD LENGTH OF DATA
XFCBOVER PARAMETERS VALID RETURN CODES FOR XFCBOVER ARE: UERCNORM EQU X'00' DO NOT BACKOUT LOG RECORD UERCBCKO EQU X'04' PERFORM THE BACKOUT OF THE LOG RECORD				
(30)	ADDRESS	4	UEPOLOGR	ADDRESS OF OVERRIDEN LOG RECORD
(34)	ADDRESS	4	UEPODSN	ADDRESS OF OVERRIDEN DATA SET
XFCBOUT PARAMETERS THE ONLY VALID RETURN CODE FOR XFCBOUT IS: UERCNORM EQU X'00' CONTINUE PROCESSING				
(30)	ADDRESS	4	UEPFLOGR	ADDRESS OF FC LOG RECORD

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
XLGSTRM PARAMETERS VALID RETURN CODES FOR XLGSTRM ARE: UERCNORM EQU X'00' NORMAL (DEFINE STREAM) UERCBYP EQU X'04' BYPASS (DO NOT DEFINE STREAM) VALID VALUES FOR UEPLGTYP ARE: UEPSYSLG EQU X'01' SYSTEM LOG UEPGENLG EQU X'02' GENERAL LOG				
(40)	ADDRESS	4	UEPLSN	ADDRESS OF 26-BYTE LOG STREAM NAME
(44)	ADDRESS	4	UEPMLSN	ADDRESS OF 26-BYTE MODEL STREAM NAME
(48)	ADDRESS	4	UEPIXG	ADDRESS OF IXGINVNT MACRO LIST FORM
(4C)	ADDRESS	4	UEPLGTYP	ADDRESS OF 1-BYTE LOG TYPE
(4C)	BITSTRING	0	UEPSYSLG	"X'01'" SYSTEM LOG
(4C)	BITSTRING	0	UEPGENLG	"X'02'" GENERAL LOG
XLGWBC PARAMETERS VALID RETURN CODES FOR XLGWBC ARE: UERCNORM EQU X'00' NORMAL				
(40)	ADDRESS	4	UEP_LG_FUNCTION	address of 1-byte function Note: This is a reserved GLUE, if it is enabled it will be ignored by the Log Manager
(40)	BITSTRING	0	UEP_LG_FUN_OPEN	"X'01'" open function, called when the log is connected to
(40)	BITSTRING	0	UEP_LG_FUN_WRITE	"X'02'" write function, called following a successful write to the log
(40)	BITSTRING	0	UEP_LG_ FUN_TERM_ LOG_FAIL_GAP	
				"X'03'" terminate function, called following a log failure and the possibility of a gap exists
(40)	BITSTRING	0	UEP_LG_ FUN_TERM_ LOG_FAIL_NO_GAP	

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				"X'04'" terminate function, called following a log failure and there is no gap
(40)	BITSTRING	0	UEP_LG_ FUN_TERM_ LOG_OK_GAP	
				"X'05'" terminate function, called when the log is disconnected normally but there is a possibility that a gap exists
(40)	BITSTRING	0	UEP_LG_ FUN_TERM_ LOG_OK_NO_GAP	
				"X'06'" terminate function, called when the log is disconnected normally and there is no gap
(40)	BITSTRING	0	UEP_LG_ FUN_GET_ DELETE_POINT	
				"X'07'" get delete point function, called when a delete is about to be issued and returns a log delete point. This only applies to the system log.
Parameters applicable to ALL functions (and always present)				
(44)	ADDRESS	4	UEP_LG_ LOG_STREAM_NAME	
				address of 26-byte log stream name
(48)	ADDRESS	4	UEP_LG_LOG_TYPE	address of 1-byte log stream type
(48)	BITSTRING	0	UEP_LG_ SYSTEM_LOG	"X'01'" system log
(48)	BITSTRING	0	UEP_LG_ GENERAL_LOG	"X'02'" general log
(4C)	ADDRESS	4	UEP_LG_ CICS_START_GMT	
				address of an 8-byte field containing the CICS start time in STCK format

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	ADDRESS	4	UEP_LG_CICS_APPLID	address of an 8-byte field containing the CICS applid (or the generic applid for XRF)
Extra parameters applicable ONLY to the WRITE function				
(54)	ADDRESS	4	UEP_LG_BLOCK	address of a variable length block containing the data just written to the log
(58)	ADDRESS	4	UEP_LG_BLOCK_LENGTH	
				address of a 4-byte field containing the length of the block of data just written to the log
(5C)	ADDRESS	4	UEP_LG_BLOCK_ID	address of an 8-byte field containing the id of the block just written to to the log
(60)	ADDRESS	4	UEP_LG_BLOCK_TIMESTAMP	
				address of an 8-byte field containing the timestamp of the block just written to the log
Extra parameters applicable ONLY to the GET DELETE POINT function				
(64)	ADDRESS	4	UEP_LG_DELETE_BLOCK_ID	
				address of an 8-byte field, on return containing the block id of the log delete point chosen by the exit program. A zero address on return implies keep all data on the log.
(68)	ADDRESS	4	UEP_LG_DELETE_TIMESTAMP	
				address of an 8-byte field, on return containing the timestamp of the log delete point chosen by the exit program
XFCVSDS PARAMETERS Valid return codes for XFCVSDS are: UERCNORM EQU X'00' Normal (process VSAM RLS action) UERCBYP EQU X'04' Bypass (suppress VSAM RLS action)				

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	ADDRESS	4	UEPDSNAM	Address of dataset name
(34)	ADDRESS	4	UEPVSACT	Address of VSAM RLS action (byte)
(38)	ADDRESS	4	UEPQUCLS	Address of close type (byte)
(3C)	ADDRESS	4	UEPCPTEC	Address of copy technique (byte)
Constants for byte addressed by UEPVSACT				
(3C)	SIGNED	0	UEQUIES	"1" Quiesce dataset
(3C)	SIGNED	0	UEUNQUIS	"2" Unquiesce dataset
(3C)	SIGNED	0	UENBWST	"3" Non-BWO backup start
(3C)	SIGNED	0	UENBWCMP	"4" Non-BWO backup complete
(3C)	SIGNED	0	UEBWOST	"5" BWO backup start
(3C)	SIGNED	0	UEBWOCMP	"6" BWO backup complete
Constants for byte addressed by UEPQUCLS				
(3C)	SIGNED	0	UEORDCLO	"1" Close files when syncpoint reached
(3C)	SIGNED	0	UEIMMCLO	"2" Close files immediately via purge
Constants for byte addressed by UEPCPTEC				
(3C)	SIGNED	0	UEORDCOP	"1" Concurrent copy will not be used
(3C)	SIGNED	0	UECONCOP	"2" Concurrent copy will be used
XFCQUIS PARAMETERS Valid return codes for XFCQUIS are: UERCNORM EQU X'00' Normal				
(30)	ADDRESS	4	UEPQDSNM	Addr of dataset name
(34)	ADDRESS	4	UEPQSTAT	Addr of desired quiesce state (byte)
(38)	ADDRESS	4	UEPQRCDE	Addr of quiesce result (byte)
(3C)	ADDRESS	4	UEPQCONF	Addr of any conflicting quiesce (byte)
Constants for byte addressed by UEPQSTAT				
(3C)	SIGNED	0	UEQSD	"1" Quiesced (normal close) requested
(3C)	SIGNED	0	UEIMQSD	"2" Quiesced (immediate close) requested

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	SIGNED	0	UEUNQSD	"3" Unquiesced requested
Constants for byte addressed by UEPQRCDE				
(3C)	SIGNED	0	UEQOK	"1" Successful
(3C)	SIGNED	0	UEQREJEC	"2" Rejected - see UEPQCONF for conflict
(3C)	SIGNED	0	UEQCANCL	"3" Failed - quiesce cancelled by user
(3C)	SIGNED	0	UEQTIMED	"4" Failed - quiesce cancelled by timeout
(3C)	SIGNED	0	UEQIOERR	"5" Failed - i/o error or server failure
(3C)	SIGNED	0	UEQUNKNO	"6" Failed - dataset not DFSMS VSAM
(3C)	SIGNED	0	UEQMIGRT	"7" Failed - dataset migrated
Constants for byte addressed by UEPQCONF				
(3C)	SIGNED	0	UEQUIINP	"1" Conflicting quiesce in progress
(3C)	SIGNED	0	UEUNQINP	"2" Conflicting unquiesce in progress
(3C)	SIGNED	0	UENBWINP	"3" Conflicting non-BWO backup in progress
(3C)	SIGNED	0	UEBWOINP	"4" Conflicting BWO backup in progress
(3C)	SIGNED	0	UEUNKINP	"5" Unknown conflicting event
XBADEACT PARAMETERS VALID RETURN CODES FOR XBADEACT ARE: UERCNORM EQU X'00' NORMAL check parm list hasn't already been generated by XBADEACT				
(40)	ADDRESS	4	UEPACIN	ADDRESS OF ACTIVITY INDICATOR BYTE
EQUATES FOR ACTIVITY INDICATOR				
(40)	CHARACTER	0	UEPROOT	"C'R'" ROOT ACTIVITY
(40)	CHARACTER	0	UEPCHILD	"C'C'" CHILD ACTIVITY
(44)	ADDRESS	4	UEPACID	ADDRESS OF ACTIVITY ID
(48)	ADDRESS	4	UEPACNA	ADDRESS OF ACTIVITY NAME
(4C)	ADDRESS	4	UEPPRID	ADDRESS OF PROCESS ID

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	ADDRESS	4	UEPPRTY	ADDRESS OF PROCESS TYPE
(54)	ADDRESS	4	UEPPRNA	ADDRESS OF PROCESS NAME
(58)	ADDRESS	4	UEPARESP	ADDRESS OF COMPLETION CODE
(5C)	ADDRESS	4	UEPAABND	ADDRESS OF ABEND CODE
XBMIN PARAMETERS VALID RETURN CODES FOR XBMIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPBMTCT	ADDRESS OF TCTTE
(34)	ADDRESS	4		UEPEXECB - AS DEFINED ABOVE
(38)	ADDRESS	4	UEPBMCNT	ADDRESS OF FIELD COUNT
(3C)	ADDRESS	4	UEPBMTAB	ADDRESS OF FIELD INFO TABLE
XBMOUT PARAMETERS VALID RETURN CODES FOR XBMOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPBMTCT - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPEXECB - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPBMCNT - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPBMTAB - AS DEFINED ABOVE
XWBOPEN PARAMETERS VALID RETURN CODES FOR XWBOPEN ARE: UERCNORM EQU X'00' INITIALISATION SUCCESSFUL UERCBARR EQU X'04' REMOTE HOST NAME IS BARRED UERCPROX EQU X'08' PROXY INFORMATION PROVIDED UERCERR EQU X'0C' ERROR OCCURRED IN EXIT PROCESSING check parm list hasn't already been generated by XWBOPEN				
(40)	ADDRESS	4	UEPHOST	ADDRESS OF NAME OF HOST
(44)	ADDRESS	4	UEPHOSTL	ADDRESS OF HALFWORD LENGTH OF HOST
(48)	ADDRESS	4	(9)	Various other parms
(6C)	ADDRESS	4	UEPHOSTT	Address of a byte that describes the type of information found in UEPHOST
VALID values for UEPHOSTT are:				

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6C)	BITSTRING	0	UEPHSTNM	"X'01'" UEPHOST contains a host name
(6C)	BITSTRING	0	UEPIPV4A	"X'02'" UEPHOST contains an IPV4 addr
(6C)	BITSTRING	0	UEPIPV6A	"X'03'" UEPHOST contains an IPV6 addr
(48)	ADDRESS	4	UEPPROXY	ADDRESS OF ADDRESS OF PROXY
(4C)	ADDRESS	4	UEPPROXYL	ADDRESS OF HALFWORD LENGTH OF PROXY
<td colspan="5">```
XWBSNDO PARAMETERS
VALID RETURN CODES FOR XWBSNDO ARE:
UERCNORM EQU X'00' PATH PERMITTED
UERCBARR EQU X'04' PATH NOT PERMITTED
check parm list hasn't already been generated by XWBSNDO
``</td>				
<td colspan="5">```
UEPHOST DS A ADDRESS OF NAME OF HOST
UEPHOSTL DS A ADDRESS OF HALFWORD LENGTH OF HOST
DS 9A Various other parms
UEPHOSTT DS A Address of a byte that describes the
type of information found in UEPHOST
VALID values for UEPHOSTT are:
UEPHSTNM EQU X'01' UEPHOST contains a host name
UEPIPV4A EQU X'02' UEPHOST contains an IPV4 addr
UEPIPV6A EQU X'03' UEPHOST contains an IPV6 addr
UEPHOST, UEPHOSTL, UEPHOSTT PREVIOUSLY DEFINED
``</td>				
(48)	ADDRESS	4	UEPPATH	ADDRESS OF PATH SPECIFIED ON SEND
(4C)	ADDRESS	4	UEPPATHL	ADDRESS OF HALFWORD LENGTH OF PATH
<td colspan="5">```
XWBAUTH PARAMETERS
VALID RETURN CODES FOR XWBAUTH ARE:
UERCNORM EQU X'00' CREDENTIALS SUPPLIED
UERCBYP EQU X'04' CREDENTIALS OMITTED. BYPASS AUTHENTICATION
UERCERR EQU X'0C' CREDENTIALS OMITTED. SIGNAL EXIT ERROR
``</td>				
<td colspan="5">```
UEPHOST DS A ADDRESS OF NAME OF HOST
UEPHOSTL DS A ADDRESS OF HALFWORD LENGTH OF HOST
DS 9A Various other parms
UEPHOSTT DS A Address of a byte that describes the
type of information found in UEPHOST
VALID values for UEPHOSTT are:
UEPHSTNM EQU X'01' UEPHOST contains a host name
UEPIPV4A EQU X'02' UEPHOST contains an IPV4 addr
UEPIPV6A EQU X'03' UEPHOST contains an IPV6 addr
UEPHOST, UEPHOSTL, UEPHOSTT PREVIOUSLY DEFINED
``</td>				
<td colspan="5">```
UEPPATH DS A ADDRESS OF PATH SPECIFIED ON SEND
UEPPATHL DS A ADDRESS OF HALFWORD LENGTH OF PATH
``</td>				
(50)	ADDRESS	4	UEPREALM	ADDRESS OF REALM FROM 401 RESPONSE

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	ADDRESS	4	UEPREALML	ADDRESS OF HALFWORD LENGTH OF REALM
(58)	ADDRESS	4	UEPAUTHT	ADDRESS OF AUTHENTICATION TYPE
(5C)	ADDRESS	4	UEPUSNM	ADDRESS OF USERNAME BUFFER POINTER
(60)	ADDRESS	4	UEPUSNML	ADDRESS OF USERNAME HALFWORD LENGTH
(64)	ADDRESS	4	UEPPSWD	ADDRESS OF PASSWORD BUFFER POINTER
(68)	ADDRESS	4	UEPPSWDL	ADDRESS OF PASSWORD HALFWORD LENGTH
XAPADMGR PARAMETERS VALID RETURN CODES FOR XAPADMGR ARE: UERCNORM EQU X'00' NORMAL (default).				
(40)	ADDRESS	4	UEPADCB	Address of ADCB (input)
(44)	ADDRESS	4	UEPADCBL	Address of length of ADCB (input)
(48)	ADDRESS	4	UEPUCD	Address of UCD (output)
XWSPRRWI PARAMETERS VALID RETURN CODES FOR XWSPRRWI ARE: UERCNORM EQU X'00' UERCRPIP EQU X'04' BYPASS REQUEST				
(40)	ADDRESS	4	UEPCHANN	ADDRESS OF NAME OF CHANNEL
(44)	ADDRESS	4	UEPCONTR	ADDRESS OF CONTAINER NAME
XWSPRROI PARAMETERS VALID RETURN CODES FOR XWSPRROI ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XWSPRROO PARAMETERS VALID RETURN CODES FOR XWSPRROO ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
(48)	ADDRESS	4	UEPAPAB	ADDRESS OF APPLCATION ABEND IND.

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
EQUATES FOR APPLICATION ABEND INDICATOR				
(48)	BITSTRING	0	UEPAPABY	"X'80'" APPLICATION ABENDED
(48)	BITSTRING	0	UEPAPABN	"X'40'" APPLICATION NOT ABENDED
(4C)	ADDRESS	4	UEPAPSF	ADDRESS OF SET RC INDICATOR
EQUATES FOR APPLICATION SET SOAPFAULT INDICATOR				
(4C)	BITSTRING	0	UEPAPSFY	"X'80'" APPLICATION SET SOAPFAULT
(4C)	BITSTRING	0	UEPAPSFN	"X'40'" APPLICATION NOT SET SOAPFAULT
XWSPRRWO PARAMETERS VALID RETURN CODES FOR XWSPRRWO ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
UEPAPAB DS A ADDRESS OF APPLICATION ABEND IND.				
UEPAPSF DS A ADDRESS OF APPL. SET SOAPFAULT IND.				
XWSRQRWO PARAMETERS VALID RETURN CODES FOR XWSRQRWO ARE: UERCNORM EQU X'00' UERCRPIP EQU X'04' BYPASS REQUEST				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XWSRQROO PARAMETERS VALID RETURN CODES FOR XWSRQROO ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XWSRQROI PARAMETERS VALID RETURN CODES FOR XWSRQROI ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XWSRQRWI PARAMETERS VALID RETURN CODES FOR XWSRQRWI ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XWSSRRWO PARAMETERS VALID RETURN CODES FOR XWSSRRWO ARE: UERCNORM EQU X'00' UERCRPIP EQU X'04' BYPASS REQUEST				

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XWSSRROO PARAMETERS VALID RETURN CODES FOR XWSSRROO ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XWSSRROI PARAMETERS VALID RETURN CODES FOR XWSSRROI ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XWSSRRWI PARAMETERS VALID RETURN CODES FOR XWSSRRWI ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XFCRLSCO PARAMETERS Exit specific parameters are: UEPFILEN - Address of 8 byte field containing the file name UEPDSNAME - Address of 44 byte field containing the DSNAME UEPFSERV - Address of the file servreqs flag UEPFDSACC - Address of the file access method flag - 2 pointers reserved UEPRECUR - Address of halfword recursion level VALID RETURN CODES FOR XFCSREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS THE OPEN FAILURE				
(30)	ADDRESS	4	UEPFILEN	Address of 8 character file name
(34)	ADDRESS	4	UEPDSNAME	Address of 44 character DSNAME
(38)	ADDRESS	4	UEPFSERV	Address of file servreqs flag
Valid values for UEPFSERV are:				
(38)	BITSTRING	0	UEPFRDIM	"X'80'" Read Valid Indicator
(38)	BITSTRING	0	UEPFUPDIM	"X'20'" Update Valid Indicator
(38)	BITSTRING	0	UEPFADDIM	"X'10'" Add Valid Indicator
(38)	BITSTRING	0	UEPFDELIM	"X'08'" Delete Valid Indicator
(38)	BITSTRING	0	UEPFBRZIM	"X'02'" Browse Valid Indicator
(3C)	ADDRESS	4	UEPFDSACC	Address of file access method flag
Valid values for UEPFDSACC are:				

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3C)	BITSTRING	0	UEPFVSAM	"X'80'" VSAM File Indicator
(3C)	BITSTRING	0	UEPFDTBL	"X'20'" Data table File Indicator
(3C)	BITSTRING	0	UEPFDTUM	"X'10'" User Data table File Indicator
(3C)	BITSTRING	0	UEPFRLS	"X'04'" RLS File Indicator
(3C)	BITSTRING	0	UEPFCFDT	"X'02'" CFDT File Indicator
(40)	ADDRESS	4		Reserved
(44)	ADDRESS	4		Reserved
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
XEPCAP PARAMETERS VALID RETURN CODES FOR XEPCAP ARE: UERCNORM EQU X'00' NORMAL (default).				
(40)	ADDRESS	4		UEPLOAD - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPRSA - AS DEFINED ABOVE
(48)	ADDRESS	4	UEPEPTASK	Address of the current task number
(4C)	ADDRESS	4	UEPEPCX	Address of the EPCX
XINDT1 PARAMETERS VALID RETURN CODES FOR XINDT1 ARE: UERCNORM EQU X'00' NORMAL				
(40)	ADDRESS	4	UEPREMK	ADDRESS OF 8-BYTE REMARK
(44)	ADDRESS	4	UEPRUEI	ADDRESS OF RUEI TO BE LOGGED
(B0)	FULLWORD	4	UEPEPEND (0)	END OF TYPE = EP DSECT
(B0)		0	UEPEPLEN	"UEPEPEND-UEPEXN"
RETURN CODE EQUATES All RC Equates except UERCNORM which is above				
	....		UERCSYS	"X'00'" TAKE SYSTEM ACTION
	....		UERCDTAC	"X'00'" Accept record
(B0)	BITSTRING	0	UERCDTRJ	"X'04'" Reject record
(B0)	BITSTRING	0	UERCDTCL	"X'04'" Close file
	....		UERCDTOK	"X'00'" File open OK
(B0)	BITSTRING	0	UERCDTOP	"X'08'" Optimise data table add
(B0)	BITSTRING	0	UERCDTEX	"X'0C'" Extension for data tables

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	BITSTRING	0	UERCDTSH	"X'08'" Shared data table load
	....		UERCNOAC	"X'00'" NO ACTION
(B0)	BITSTRING	0	UERCTDOK	"X'04'" Quit TD processing - return "normal" to caller
(B0)	BITSTRING	0	UERCSWCH	"X'04'" SWITCH TO ALTERNATE OR DON'T SWITCH AUTOSWITCH OFF.
(B0)	BITSTRING	0	UERCBYP	"X'04'" BYPASS (NO ACTION)
(B0)	BITSTRING	0	UERCBYPL	"X'08'" BYPASS AND KEEP MIRROR
(B0)	BITSTRING	0	UERCRESU	"X'04'" Resource unavailable for request
(B0)	BITSTRING	0	UERCCOIG	"X'04'" IGNORE
(B0)	BITSTRING	0	UERCQUE	"X'04'" QUEUE THE REQUEST
(B0)	BITSTRING	0	UERCMEA	"X'04'" PROGRAM CONTROL ADDRESS MODIFIED
(B0)	BITSTRING	0	UERCSWAP	"X'04'" ISSUE SYSEVENT TO ALLOW ADDRESS-SPACE SWAP
(B0)	BITSTRING	0	UERCTDNA	"X'08'" Quit TD processing - return "notauth" to caller
	....		UERCFAIL	"X'00'" TREAT AS BACKOUT FAILURE
(B0)	BITSTRING	0	UERCLDEL	"X'04'" LOGICALLY DELETE RECORD BY REAPPLYING
(B0)	BITSTRING	0	UERCBCKO	"X'04'" PERFORM THE BACKOUT OF THE LOG RECORD
(B0)	BITSTRING	0	UERCIGN	"X'08'" IGNORE, RETURN SYSIDERR
(B0)	BITSTRING	0	UERCABNO	"X'08'" ABEND CICS WITHOUT DUMP
(B0)	BITSTRING	0	UERCNOSW	"X'08'" SYSEVENT TO SUPPRESS ADDRESS-SPACE SWAP
(B0)	BITSTRING	0	UERCABDU	"X'0C'" ABEND CICS WITH DUMP

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	....		UERCTEUN	"X'00'" TERMINAL UNKNOWN
(B0)	BITSTRING	0	UERCNETN	"X'04'" TERMINAL KNOWN, NETNAME RETURNED
(B0)	BITSTRING	0	UERCSYSI	"X'08'" TERMINAL KNOWN, SYSID RETURNED
(B0)	BITSTRING	0	UERCPURG	"X'20'" TASK BEING PURGED
	....		UERCAQUE	"X'00'" Queue allocate request
(B0)	BITSTRING	0	UERCAPUR	"X'04'" Purge allocate request
(B0)	BITSTRING	0	UERCAKLL	"X'08'" Kill queued tasks for connection
(B0)	BITSTRING	0	UERCAKLM	"X'0C'" Kill queued tasks for modegrp
(B0)	BITSTRING	0	UERCSCPE	"X'08'" Scope returned
(B0)	BITSTRING	0	UERCPREV	"X'04'" Pre-2.1 SIGNON behavior
	....		UERCNOCA	"X'00'" Abend task ASRB, don't cancel exits
(B0)	BITSTRING	0	UERCCANC	"X'04'" Abend task ASRB, cancel exits
(B0)	BITSTRING	0	UERCCICS	"X'08'" Abend CICS
(B0)	BITSTRING	0	UERCBARR	"X'04'" Remote host name is barred
(B0)	BITSTRING	0	UERCPROX	"X'08'" Proxy information provided
(B0)	BITSTRING	0	UERCERR	"X'0C'" Error occurred in exit processing
(B0)	BITSTRING	0	UERCRPIP	"X'04'" Return pipe
END OF RETURN CODE EQUATES FILE CONTROL RETURN CODE EQUATES FOR UEPFCRSP				
(B0)	BITSTRING	0	UEDUPREC	"X'10'" DUPLICATE KEY ON UNIQUE AIX
(B0)	BITSTRING	0	UENOSPAC	"X'20'" NO SPACE AVAILABLE
(B0)	BITSTRING	0	UEIOEROR	"X'24'" I/O ERROR
(B0)	BITSTRING	0	UENOLDEL	"X'40'" LOGICAL DELETE BYPASSED
(B0)	BITSTRING	0	UENBWBAK	"X'41'" NON-BWO BACKUP IN PROGRESS

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	BITSTRING	0	UEDLOCK	"X'B0'" DEADLOCK
(B0)	BITSTRING	0	UERLSERR	"X'C0'" VSAM RLS FAILURE DETECTED
(B0)	BITSTRING	0	UERLSDIS	"X'C1'" VSAM RLS ACCESS DISABLED
(B0)	BITSTRING	0	UERLSCON	"X'C2'" CONTINUATION OF RLS REQUEST DISABLED
(B0)	BITSTRING	0	UECACHE	"X'C3'" VSAM RLS CACHE FAILURE
(B0)	BITSTRING	0	UELCKFUL	"X'C4'" VSAM LOCK STRUCTURE FULL
(B0)	BITSTRING	0	UEAIXFUL	"X'F0'" NO SPACE IN NON_UNIQUE AIX
(B0)	BITSTRING	0	UEOPENER	"X'FB'" FILE OPEN ERROR
(B0)	BITSTRING	0	UEUNEXP	"X'FE'" UNEXPECTED ERROR

END OF FILE CONTROL RETURN CODE EQUATES
   FILE CONTROL ERROR TYPE BYTE EQUATES FOR UEPERR
   THE ERROR TYPE INDICATES THE STAGE DURING BACKOUT AT WHICH
   THE FAILURE OCCURRED				

	....		XBFENO	"X'00'" NO ERROR
(B0)	BITSTRING	0	XBFERU	"X'01'" READ UPDATE ERROR
(B0)	BITSTRING	0	XBFERE	"X'04'" REWRITE ERROR
(B0)	BITSTRING	0	XBFEWR	"X'08'" WRITE ERROR
(B0)	BITSTRING	0	XBFEDL	"X'20'" DELETE ERROR
END OF FILE CONTROL ERROR TYPE BYTE EQUATES				
(B0)	BITSTRING	0	UERTPREP	"X'80'" PREPARE
(B0)	BITSTRING	0	UERTCOMM	"X'40'" COMMIT UNCONDITIONALLY
(B0)	BITSTRING	0	UERTBACK	"X'20'" BACKOUT
(B0)	BITSTRING	0	UERTDGCS	"X'10'" LOST TO CICS INITIAL START
(B0)	BITSTRING	0	UERTDGNK	"X'08'" RM SHOULD NOT BE IN-DOUBT
(B0)	BITSTRING	0	UERTWAIT	"X'04'" RM WILL HAVE TO WAIT FOR OUTCOME
(B0)	BITSTRING	0	UERTRSYN	"X'02'" RESYNC

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	BITSTRING	0	UERTLAST	"X'01'" LAST COMMIT/ABORT IN THREAD
(B0)	BITSTRING	0	UERTONLY	"X'80'" RM IS ONLY UPDATER - TRUE CAN PERFORM SINGLE PHASE COMMIT
(B0)	BITSTRING	0	UERTELUW	"X'40'" RM IS READ ONLY - TRUE CAN INVOKE RM WITH END LUW CALL.
(B0)	SIGNED	0	UERFPREP	"4" VOTE-YES
(B0)	SIGNED	0	UERFBACK	"8" VOTE-NO
(B0)	SIGNED	0	UERFNLOG	"12" VOTE-YES-BUT-DO-NOT-LOG
(B0)	SIGNED	0	UERFDONE	"4" COMMIT/ABORT COMPLETE
(B0)	SIGNED	0	UERFHOLD	"8" REMEMBER COMMIT/ABORT
(B0)	SIGNED	0	UERFOK	"4" SINGLE PHASE (UERTONLY): COMMITTED OK
(B0)	SIGNED	0	UERFBOUT	"8" SINGLE PHASE (UERTONLY): BACKED OUT
(B0)	BITSTRING	0	UERTEOTR	"X'80'" END OF THREAD
(B0)	BITSTRING	0	UERTSOTR	"X'40'" START OF TASK
(B0)	BITSTRING	0	UERTRTTR	"X'82'" no longer used
(B0)	BITSTRING	0	UERTRTST	"X'42'" no longer used
(B0)	SIGNED	0	UERFEOTR	"4" CALL UNDERSTOOD
(B0)	BITSTRING	0	UERTCONN	"X'80'" EXTERNAL RESOURCE MANAGER IS
(B0)	BITSTRING	0	UERTNCON	"X'40'" EXTERNAL RESOURCE MANAGER IS NOT
(B0)	BITSTRING	0	UERTCORD	"X'80'" CICS Orderly Termination
(B0)	BITSTRING	0	UERTCIMM	"X'40'" CICS Immediate Termination
(B0)	BITSTRING	0	UERTCABY	"X'20'" CICS ABEND (Retry possible - TCBs Dispatchable)

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	BITSTRING	0	UERTCABN	"X'10'" CICS ABEND (Retry NOT possible - TCBs Dispatchable)
(B0)	BITSTRING	0	UERTOPCA	"X'01'" Operator Cancel (Retry NOT possible - TCBs NOT dispatchable)
EXITID EQU-LIST - Global User Exit Number				
(B0)	SIGNED	0	XTCIN	"1"
(B0)	SIGNED	0	XTCOUT	"2"
(B0)	SIGNED	0	XTCATT	"3"
(B0)	SIGNED	0	XTCTIN	"4"
(B0)	SIGNED	0	XTCTOUT	"5"
(B0)	SIGNED	0	XDSBWT	"6"
(B0)	SIGNED	0	XDSAWT	"7"
(B0)	SIGNED	0	XLGSTRM	"8"
(B0)	SIGNED	0	XDUREQ	"9"
(B0)	SIGNED	0	XDUCLSE	"10"
(B0)	SIGNED	0	XDUOUT	"11"
(B0)	SIGNED	0	XMEOUT	"12"
(B0)	SIGNED	0	XFCREQ	"13"
(B0)	SIGNED	0	XFCREQC	"14"
(B0)	SIGNED	0	XTSPTOUT	"15"
(B0)	SIGNED	0	XGMTEXT	"16"
(B0)	SIGNED	0	XMNOUT	"17"
(B0)	SIGNED	0	XRCINIT	"18"
(B0)	SIGNED	0	XRCINPT	"19"
(B0)	SIGNED	0	XICREQ	"20"
(B0)	SIGNED	0	XICEXP	"21"
(B0)	SIGNED	0	XISLCLQ	"22"
(B0)	SIGNED	0	XPCFTCH	"23"
(B0)	SIGNED	0	XPCHAIR	"24"
(B0)	SIGNED	0	XPCTA	"25"
(B0)	SIGNED	0	XPCABND	"26"
(B0)	SIGNED	0	XPCREQ	"27"
(B0)	SIGNED	0	XPCREQC	"28"
(B0)	SIGNED	0	XTDREQ	"29"
(B0)	SIGNED	0	XTDIN	"30"
(B0)	SIGNED	0	XTDOUT	"31"
(B0)	SIGNED	0	XTSQRIN	"32"
(B0)	SIGNED	0	XTSQROUT	"33"

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	SIGNED	0	XTSPTIN	"34"
(B0)	SIGNED	0	XZCIN	"35"
(B0)	SIGNED	0	XZCOUT	"36"
(B0)	SIGNED	0	XZCATT	"37"
(B0)	SIGNED	0	XZCOUT1	"38"
(B0)	SIGNED	0	XXRSTAT	"39"
(B0)	SIGNED	0	XXDFA	"40"
(B0)	SIGNED	0	XXDFB	"41"
(B0)	SIGNED	0	XXDTO	"42"
(B0)	SIGNED	0	XSTOUT	"43"
(B0)	SIGNED	0	XDLIPRE	"44"
(B0)	SIGNED	0	XDLIPOST	"45"
(B0)	SIGNED	0	XFCSREQ	"46"
(B0)	SIGNED	0	XEIIN	"47"
(B0)	SIGNED	0	XEIOUT	"48"
(B0)	SIGNED	0	XALTENF	"49"
(B0)	SIGNED	0	XICTENF	"50"
(B0)	SIGNED	0	XDTAD	"51"
(B0)	SIGNED	0	XDTRD	"52"
(B0)	SIGNED	0	XDTLC	"53"
(B0)	SIGNED	0	XSTERM	"54"
(B0)	SIGNED	0	XSRAB	"55"
(B0)	SIGNED	0	XFCSREQC	"56"
(B0)	SIGNED	0	XSZBRQ	"57"
(B0)	SIGNED	0	XSZARQ	"58"
(B0)	SIGNED	0	XISCONA	"59"
(B0)	SIGNED	0	XRSINDI	"60"
(B0)	SIGNED	0	XXMATT	"61"
(B0)	SIGNED	0	XZIQUE	"62"
(B0)	SIGNED	0	XTSEREQ	"63"
(B0)	SIGNED	0	XTSEREQC	"64"
(B0)	SIGNED	0	XTDEREQ	"65"
(B0)	SIGNED	0	XTDEREQC	"66"
(B0)	SIGNED	0	XICEREQ	"67"
(B0)	SIGNED	0	XICEREQC	"68"
(B0)	SIGNED	0	XALCAID	"69"
(B0)	SIGNED	0	XSNON	"70"
(B0)	SIGNED	0	XSNOFF	"71"
(B0)	SIGNED	0	XRMIIN	"72"
(B0)	SIGNED	0	XRMIOUT	"73"

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	SIGNED	0	XAKUSER	"74"
(B0)	SIGNED	0	XFCNREC	"75"
(B0)	SIGNED	0	XFCBFAIL	"76"
(B0)	SIGNED	0	XFCLDEL	"77"
(B0)	SIGNED	0	XFCBOVER	"78"
(B0)	SIGNED	0	XFCBOUT	"79"
(B0)	SIGNED	0	XFCVSDS	"80"
(B0)	SIGNED	0	XFCQUIS	"81"
(B0)	SIGNED	0	XDUREQC	"82"
(B0)	SIGNED	0	XFCAREQ	"83"
(B0)	SIGNED	0	XFCAREQC	"84"
(B0)	SIGNED	0	XEISPIN	"85"
(B0)	SIGNED	0	XEISPOUT	"86"
(B0)	SIGNED	0	XNQEREQ	"87"
(B0)	SIGNED	0	XNQEREQC	"88"
(B0)	SIGNED	0	XFAINTU	"89"
(B0)	SIGNED	0	XBMIN	"90"
(B0)	SIGNED	0	XBMOUT	"91"
(B0)	SIGNED	0	XBADEACT	"92"
(B0)	SIGNED	0	XLDLOAD	"93"
(B0)	SIGNED	0	XLDELETE	"94"
(B0)	SIGNED	0	XSNEX	"95"
(B0)	SIGNED	0	XFCFRIN	"96"
(B0)	SIGNED	0	XFCFROUT	"97"
(B0)	SIGNED	0	XICERES	"98"
(B0)	SIGNED	0	XPCERES	"99"
(B0)	SIGNED	0	XWBOPEN	"100"
(B0)	SIGNED	0	XWBSNDO	"101"
(B0)	SIGNED	0	XWBAUTH	"102"
(B0)	SIGNED	0	XAPADMGR	"103"
(B0)	SIGNED	0	XISQUE	"104"
(B0)	SIGNED	0	XWSPRROO	"105"
(B0)	SIGNED	0	XWSPRRWI	"106"
(B0)	SIGNED	0	XWSPRROI	"107"
(B0)	SIGNED	0	XWSPRRWO	"108"
(B0)	SIGNED	0	XWSRQRWO	"109"
(B0)	SIGNED	0	XWSRQROO	"110"
(B0)	SIGNED	0	XWSRQROI	"111"
(B0)	SIGNED	0	XWSRQRWI	"112"
(B0)	SIGNED	0	XWSSRRWO	"113"

Table 731. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B0)	SIGNED	0	XWSSRROO	"114"
(B0)	SIGNED	0	XWSSRROI	"115"
(B0)	SIGNED	0	XWSSRRWI	"116"
(B0)	SIGNED	0	XISQLCL	"117"
(B0)	SIGNED	0	XFCRLSCO	"118"
(B0)	SIGNED	0	XEPCAP	"119"
(B0)	SIGNED	0	XINDT1	"120"
(B0)	SIGNED	0	XINDT2	"121"
(B0)	SIGNED	0	XLGWBC	"122"

URL User supplied route list entry

```
@BANNER_START 02
                    DFHURLDS
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
MODULE NAME = DFHULRDS
DESCRIPTIVE NAME  = CICS USER-SUPPLIED ROUTE LIST ENTRY
COPYBOOK DFHURLDS.
All programs which issue DFHBMS TYPE=ROUTE macro instructions
must contain a user-supplied route list, defining the terminals
and/or operator to which the logical message is to be routed. The
entries in the route list must be formatted as described by this
DSECT.
```

Table 732.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHURLDS	DUMMY SECTION - USER'S ROUTE LIST
(0)	CHARACTER	4	URLTRMID	TERMINAL IDENTIFICATION
(4)	CHARACTER	2	URLLDCMN	LOGICAL DEVICE MNEMONIC
(6)	CHARACTER	3	URLOPID	OPERATOR IDENTIFICATION
(9)	BITSTRING	1	URLTSF	STATUS FLAG
(9)	BITSTRING	0	URLSKIP	"X'80'" USER ROUTE LIST ENTRY SKIPPED
(9)	BITSTRING	0	URLITI	"X'40'" INVALID TERMINAL IDENTIFICATION
(9)	BITSTRING	0	URLNS	"X'20'" TERMINAL NOT SUPPORTED UNDER BMS
(9)	BITSTRING	0	URLONSO	"X'10'" OPERATOR NOT SIGNED ON

Table 732. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(9)	BITSTRING	0	URLSOUST	"X'08'" OPERATOR SIGNED ON UNSUPPORTED TERMINAL
(9)	BITSTRING	0	URLINVMN	"X'04'" INVALID LDC MNEMONIC
(A)	CHARACTER	6	URLRESV	RESERVED - MUST BE BLANKS
(A)		0	URLNEXT	"*" START NEXT ENTRY
(0)	CHARACTER	2	URLCHIND	URL CHAIN INDICATOR
THE FOLLOWING ARE ACCEPTABLE VALUES FOR 'URLCHIND'				
(0)	BITSTRING	0	URLEND	"X'FFFF'" END OF URL
(0)	BITSTRING	0	URLCONT	"X'FFFE'" URL CONTINUED IN NEXT SEGMENT
(2)	CHARACTER	2		RESERVED
(4)	CHARACTER	4	URLCHADR	URL CHAIN ADDRESS (NEEDED WHEN URLCHIND IS X'FFFE')
(10)		0	URLCAD	"*-DFHURLDS" LENGTH OF USER ROUTE LIST ENTRY

VMID Module identifier

```
CONTROL BLOCK NAME = DFHVMDS
DESCRIPTIVE NAME  = CICS Module Identifier.
FUNCTION =
 All CICS modules begin with a DFHVM macro that expands to generate
 the name of the module, its entry point address, the version,
 modification level and the date and time of assembly. The expansion
 of the macro is described by DFHVMDS.
```

Table 733.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHVMDS	MODULE IDENTIFIER
(0)	CHARACTER	1	VMSTART	'*' EYECATCHER
(1)	CHARACTER	8	VMNAME	FULL NAME FIELD
(9)	ADDRESS	4	VMEPA31	Entry point
(D)	CHARACTER	4	VMVERS	VERSION AND MOD LEVEL
(11)	CHARACTER	1	VMASM	ASSEMBLED BY USER
(12)	CHARACTER	2	VMTIME	ASSEMBLY TIME

Table 733. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	CHARACTER	2	VMDATE	ASSEMBLY DATE
(16)	CHARACTER	8	VMPTFNO	PTF NUMBER
(1E)	BITSTRING	1	VMFLAG1	FIRST FLAG FIELD
(1E)	BITSTRING	0	VMDLIGEN	"X'40'" DL/I GENERATED
(1E)	BITSTRING	0	VMMVSGEN	"X'10'" FOR MVS
(1E)	BITSTRING	0	VMSRBGEN	"X'08'" SRB GENERATED
(1E)	BITSTRING	0	VMMVS811	"X'04'" FOR MVS/811
(1F)	BITSTRING	1	VMFLAG2	SECOND FLAG FIELD
(1F)	BITSTRING	0	VMAMODE1	"X'80'" AMODE BIT 1
(1F)	BITSTRING	0	VMAMODE2	"X'40'" AMODE BIT 2
(1F)	BITSTRING	0	VMRMODE	"X'20'" RMODE 31
(20)	HALFWORD	2	(0)	
(20)		0	VMLNGTH	"*-DFHVMDS" MEMBER-DEPENDENT LENGTH

VSWA FC VSAM work area

```
CONTROL BLOCK NAME = DFHVSWAS
DESCRIPTIVE NAME  = CICS/ESA (FC) VSAM WORK AREA
 @BANNER_START 02
                      DFHVSWAS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     The VSWA is the File Control VSAM Work Area.
     The VSAM Work Area is created by the File Control Program
     DFHFCVS at the start of processing of a VSAM request
     (GET, PUT) or series of requests (GET UPDATE - PUT UPDATE,
     STARTBR - READNEXT - END BROWSE, etc.) and contains
     information related to the request. The VSWA consists of
     a CICS part and a VSAM part. The VSAM part is the
     VSAM RPL that represents the request to VSAM. The VSWA
     is deleted when the request is terminated.
LIFETIME =
     Created by DFHFCVS at the start of a request or series of
     requests. Destroyed by FCVS when the request/series ends.
STORAGE CLASS =
     Above 16M line.
LOCATION =
     VSWA is pointed to by the field FRT_WORK_AREA_ADDRESS in
     the File Request Thread Element (FRTE).
INNER CONTROL BLOCKS =
     The VSWA contains within it (at offset 8) the VSAM
     Request Parameter List (RPL).
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
```

```
                      MODULE TYPE = Control block definition
              ----------------------------------------------------------------
                EXTERNAL REFERENCES = None
                   DATA AREAS = None.
                   CONTROL BLOCKS = None.
                   GLOBAL VARIABLES (Macro pass) = None.
                              VSAM WORK AREA
```

Table 734.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHVSWA	VSAM work area
(0)	CHARACTER	8	VSWA_SAA	This section replaces the old storage accounting area
(0)	CHARACTER	1	VSWACLS	Stg class
(1)	CHARACTER	1	*	Reserved
(2)	UNSIGNED	2	VSWALNTH	Length of VSWA
(4)	ADDRESS	4	VSWANXT	Next VSWA on free chain
(8)	CHARACTER	76	VSWARPL	VSAM Request Parameter List
(8)	FULLWORD	4	VSWAIDWD	RPL identification word
(8)	UNSIGNED	1	VSWAID	RPL identifier
(9)	UNSIGNED	1	VSWASTYP	RPL subtype
(A)	UNSIGNED	1	VSWAREQ	Request type
(B)	UNSIGNED	1	VSWARLEN	RPL length
(C)	ADDRESS	4	VSWAPLHP	PLH address
(10)	ADDRESS	4	VSWAECB	Event control block (ECB) or address of ECB if VSWAECBS = '1'B
(10)	CHARACTER	4	VSWAECBC	ECB as string
(14)	CHARACTER	4	VSWARESP	RPL response bytes
(14)	UNSIGNED	1	VSWASTAT	RPL status flags
(15)	CHARACTER	3	VSWAFDBK	RPL feedback area
(15)	UNSIGNED	1	VSWARTNC	RPL return code
(16)	CHARACTER	2	VSWACNDC	RPL condition code
(16)	UNSIGNED	1	VSWACMPN	Component issuing the code
(17)	UNSIGNED	1	VSWAERRC	Error Code
(18)	HALFWORD	2	VSWARKYL	RPL key length
(1A)	HALFWORD	2	VSWASTID	RPL string identifier
(1C)	ADDRESS	4	VSWACCHR	Control character address
(20)	ADDRESS	4	VSWAACB	ACB address
(24)	ADDRESS	4	VSWATCB	TCB address
(28)	ADDRESS	4	VSWAREA	Area Address

Table 734. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	ADDRESS	4	VSWAARG	Argument address
(30)	CHARACTER	4	VSWAOPTC	Option codes
(30)	UNSIGNED	1	VSWAOPT1	Option code byte 1
	1...		*	Reserved
	.1..		VSWADIR	Direct search access
	..1.		VSWASEQ	Sequential access
	...1		*	Reserved
	.... 1...		VSWAASY	Asynchronous request
	.... .11.		*	Reserved
	1		VSWAECBS	VSWAECB has ADDR(ECB)
(31)	UNSIGNED	1	VSWAOPT2	Option code byte 2
	1111 11..		*	Reserved
	.... ..1.		VSWAUPD	Update Processing
	1		*	Reserved
(32)	UNSIGNED	1	VSWAOPT3	Option code byte 3
(33)	UNSIGNED	1	VSWAOPT4	Option code byte 4
(34)	ADDRESS	4	VSWANRPL	Next RPL Address
(38)	FULLWORD	4	VSWALEN	Record length
(3C)	FULLWORD	4	VSWABUFL	Buffer length
(40)	FULLWORD	4	*	Reserved
(44)	CHARACTER	8	VSWARBAR	RBA return field
(44)	FULLWORD	4	*	
(48)	UNSIGNED	4	VSWALRBA	Record RBA
(4C)	UNSIGNED	1	*	Reserved
(4D)	UNSIGNED	1	VSWACTIV	Check not issued
(4E)	HALFWORD	2	VSWAEML	Error message length
(50)	ADDRESS	4	VSWAEMA	Error message area address
(54)	CHARACTER	8	VSWA_SUSPEND_CHN	VSWA suspend chain
(54)	ADDRESS	4	VSWA_NEXT_ACT	- Next in chain
(58)	CHARACTER	4	VSWA_TASK_TOK	- Task token END OF FIXED SECTION
	VARIABLE SECTION			
(5C)	CHARACTER	20	VSWAVRS0	Variable section 0
(5C)	ADDRESS	4	VSWAFCT	File control table entry addr
(60)	ADDRESS	4	VSWA_RECORD_LOCK	Addr record lock area
(64)	ADDRESS	4	VSWA_DELETE_LOCK	Addr delete lock area

Table 734. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(68)	HALFWORD	2	VSWAENQL	Length of ENQ argument
(6A)	HALFWORD	2	VSWA_BKL	Base key/RBA/RRN length
(6C)	ADDRESS	4	*	Reserved
(70)	CHARACTER	12	VSWAVRS2	Variable section 2
(70)	ADDRESS	4	VSWARIF	Record ID field address
(74)	CHARACTER	1	VSWAFLG1	Flag byte 1
	1...		VSWABGEN	Generic browse
	.1..		VSWABRBA	RBA browse
	..1.		VSWABIP	Browse in progress
	...1		VSWA_SEQUENTIAL	Browse positioned for SEQ
	.... 1...		VSWA_XRBA_ BROWSE	XRBA Browse
	.... .1..		VSWA_DT_WAIT	Data table open is waiting for this request to complete
	.... ..1.		VSWA_080X14	Index and Base maybe out of sync @BA45354A
	1		VSWA_INFLIGHT	VSAM request is in flight
(75)	CHARACTER	1	VSWAFLG2	Flag byte 2
	1...		VSWA_SUSPENDED	Resume is required
	.1..		VSWA_NQ_ WAIT_REQD	
				NQ/busy abt to WAIT
	..1.		VSWA_PURGE_ PROTECT	
				Start Purge Prot
	...1		VSWA_REPAIR	Reposition needed
	.... 1...		VSWA_RETRY_ USING_BASE	
				Use Base ACB
	.... .111		*	Reserved
(76)	HALFWORD	2	VSWAKEYL	Key length
(78)	ADDRESS	4	*	Reserved
(7C)	CHARACTER	68	VSWAVRS3	Variable section 3
(7C)	ADDRESS	4	VSWACHN	General VSWA chain field
(80)	ADDRESS	4	VSWANEXT	Pointer to next VSWA in base cluster chain.

Table 734. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)	ADDRESS	4	VSWAPREV	Pointer to previous VSWA in base cluster chain.
(88)	ADDRESS	4	VSWAXCHN	Pointer to next VSWA waiting for my owner.
(8C)	ADDRESS	4	VSWAOWND	Pointer to VSWA chain for me.
(90)	ADDRESS	4	VSWAOWNR	Pointer to VSWA for which I am waiting.
(94)	UNSIGNED	1	VSWA_VICTIM_ COUNT	No. of attempts to kill this VSWA@BA45354A
(95)	CHARACTER	1	VSWAIND	VSAM work area indicators
	1...		VSWAEREQ	VSAM ENDREQ is required
	.1..		VSWABRZI	This is a browse VSWA
	..1.		VSWAMASS	Mass insert VSWA
	...1		VSWAFRST	First request in BROWSE or MASS INSERT sequence or single ADD.
	.... 1...		VSWASTRG	VSAM string acquired
	.... .1..		*	Reserved
	.... ..1.		VSWALSRP	Path browse request to LSR file.
	1		VSWARLO	Record lock only update
(96)	HALFWORD	2	VSWASTG	Number of strings allocated to access request for a file using LSR.
(98)	FULLWORD	4	VSWARQST	VSAM Request code
(9C)	CHARACTER	4	VSWA_JECN	System log event number
(A0)	CHARACTER	4	VSWA_SAVE_OPTC	Saved RPL option bytes
(A4)	ADDRESS	4	VSWASV12	TCA address
(A8)	ADDRESS	4	VSWA_FRTE	Address of related FRTE
(AC)	HALFWORD	2	VSWA_REQD_ STRINGS	Number of strings required for a request (LSR only)
(AE)	BIT(8)	1	*	

Table 734. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		VSWA_REM	Need to release exclusive conflict resources.
	.1..		VSWA_MASS_ INSERT	Mass insert
	..1.		VSWA_ADD_ DELETE	Single add or delete
	...1		VSWALOCK	End of range id. is locked and must be released
	.... 1...		VSWA_ESDS_LOCK	ESDS WRITE lock held
	.... .1..		VSWA_UPDATE	Performing an update
	.... ..1.		VSWA_NONRECOV_ LOCK	
				Record lock held for duration of read update of non-recoverable file.
	1		VSWA_SET_ BROWSE	1st after STARTBR/RESETBR
(AF)	BIT(8)	1	*	
	1...		VSWA_0890_POST	DFHFCVR is waiting for this request to complete. Set by DFHFCVR to indicate its interest in completion of request
	.1..		VSWA_BACKWARDS	Backward browse
	..11 1111		*	Reserved
(B0)	ADDRESS	4	VSWA_DATA_ BUFFER1	1st work-buffer address
(B4)	ADDRESS	4	VSWA_DATA_ BUFFER2	2nd work-buffer address
(B8)	HALFWORD	2	VSWA_LAST_LEN	Last specified keylength
(BA)	HALFWORD	2	VSWA_LOG_LENGTH	Length for logging
(BC)	CHARACTER	4	VSWA_SUSPEND_ TOKEN	
				Suspend token for exclusive control conflict.
Ensure 32 byte boundary for dump viewing				
(C0)	CHARACTER	288	VSWA_TRACE_TABLE	
(C0)	CHARACTER	28	VSWA_TRACE_ DIAGS	Diags for this task
(C0)	CHARACTER	4	VSWA_TASKID	owning taskid

Table 734. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C4)	CHARACTER	4	VSWA_TRANID	owning tranid
(C8)	CHARACTER	4	VSWA_XTASKID	taskid of excl ctrl conflict owning VSWA
(CC)	CHARACTER	4	VSWA_XTRANID	tranid of excl ctrl conflict owning VSWA
(D0)	CHARACTER	8	VSWA_SUSP	last suspend call
(D8)	UNSIGNED	1	VSWA_DEADLOCK_ RSN	
				deadlock reason
(D9)	CHARACTER	3	*	Spare
(DC)	ADDRESS	4	VSWA_TRACE_NEXT	Next trace entry
(E0)	CHARACTER	0	VSWA_TRACE_ START	Start of trace table
(E0)	CHARACTER	32	VSWA_TRACE_ RECORD (4294967303:130390112)	Trace table
(1C0)	CHARACTER	0	VSWA_TRACE_END	End of trace table
We used to have 8 trace entries above. The last one was split off and is now used to collect the parameters of the last call to UPADEXIT. The layout of this is below.				
(1C0)	CHARACTER	32	VSWA_TRACE_UPAD	UPAD data
(1C0)	CHARACTER	8	VSWA_TRACE_ UPAD_TOD	
				TOD
(1C8)	CHARACTER	24	VSWA_TRACE_ UPAD_DATA	
				Rest of entry
(1C8)	ADDRESS	4	VSWA_TRACE_ UPADRPLA	
				RPL address
(1CC)	ADDRESS	4	VSWA_TRACE_ UPADACBA	
				ACB address
(1D0)	ADDRESS	4	VSWA_TRACE_ UPADECBA	
				ECB address
(1D4)	ADDRESS	4	VSWA_TRACE_ UPADPRTN	
				POST return code
(1D8)	ADDRESS	4	VSWA_TRACE_ UPAD_RSV	
				reserved

Table 734. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1DC)	CHARACTER	1	VSWA_TRACE_UPADTYPE	
				X type(Wait/Post)
(1DD)	CHARACTER	3	*	unused
(1E0)	CHARACTER	*	VSWADBA	End of fixed part of VSWA
Reference key copy.				
(1E0)	CHARACTER	*	VSWAXKEY	Reference key

Extension for base key copy.

Table 735.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	VSWAENID	Enqueue identifier
(0)	ADDRESS	4	VSWABCAD	Addr of base cluster block
(4)	CHARACTER	*	VSWABKEY	Primary key of record

Table 736.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	VSWA_TRACE	
(0)	CHARACTER	8	VSWAT_TOD	TOD High Word
(8)	ADDRESS	4	VSWAT_VSWAFCT	FCT address
(8)	CHARACTER	1	*	Hi bit used for
	1...		VSWAT_BASE_RETRY	retry using base
(C)	FULLWORD	4	VSWAT_W2	
(C)	CHARACTER	1	VSWAT_VSWAOPT1	Opt code 1
(D)	CHARACTER	1	VSWAT_VSWAOPT2	Opt code 2
(E)	CHARACTER	1	VSWAT_VSWAOPT3	Opt code 3
(F)	BIT(8)	1	VSWAT_VSWARQST	VSAM request code
(10)	CHARACTER	4	VSWAT_VSWA_TASKID	Task issuing request
(14)	CHARACTER	4	VSWAT_VSWARESP	FFFFFFFFx if inflight
(14)	UNSIGNED	1	VSWAT_VSWASTAT	RPL status flags
(15)	UNSIGNED	1	VSWAT_VSWARTNC	RPL return code
(16)	UNSIGNED	1	VSWAT_VSWACMPN	Component issuing code
(17)	UNSIGNED	1	VSWAT_VSWAERRC	Error Code
(18)	ADDRESS	4	VSWAT_VSWA_PLH	PLH address
(1C)	ADDRESS	4	VSWAT_VSWA_TCB	TCB address
(20)	CHARACTER	0	*	

Constants

Table 737.

Len	Type	value	Name	Description
4	DECIMAL	7	VSWAT_NRECS	# trace entries
4	DECIMAL	32	VSWAT_SIZE	Size of entries
Values of VSWA_DEADLOCK_RSN for deadlock handling We decide whether to terminate our task or the task that we are in deadlock with (the victim) The decision is based on whether either task has priority This table describes the options				
1	DECIMAL	0	VSWA_DR_KILL_VICTIM	
1	DECIMAL	1	VSWA_DR_NO_VICTIM	
1	DECIMAL	2	VSWA_DR_MULTIPLE_ OFFENDER	
1	DECIMAL	3	VSWA_DR_VICTIM_ BROKE_AIX	
1	DECIMAL	4	VSWA_DR_BOTH_ TASKS_NORMAL	

W2AP Web2.0 DFHATOMPARMS container

```
CONTROL BLOCK NAME = DFHW2APC
DESCRIPTIVE NAME  = CICS (W2) DFHATOMPARMS container
 @BANNER_START 02

                      DFHW2APC
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = Mapping of DFHATOMPARMS container passed to
           resource-dependent Atom service routines.
 NOTES :
 DEPENDENCIES = z/Arch
 RESTRICTIONS =
 MODULE TYPE = Control block definition
----------------------------------------------------------------
 DFHATOMPARMS container
 This copybook contains a mapping of fields in the DFHATOMPARMS
 container, which is intended to be used at the parameter list
 for the resource-dependent service routine called by the
 Atomservice feed manager.
 ATMP_OPTIONS
   Address of a double word containing 64 option bits.
   The first word is used to send options to the service routine,
   and the second word is used to receive options from the
   service routine.
 ATMP_RESPONSE
   Address of a double word in which the response and reason
   code can be returned. These are both initialized to zero,
   indicating successful completion.
 ATMP_RESNAME
   Address of a double word containing a pointer to the CICS
   resource name, followed by its length.
 ATMP_RESTYPE
   Address of a double word containing a pointer to the CICS
   resource type name in uppercase, followed by its length.
   The type can be PROGRAM, FILE, or TSQUEUE.
 ATMP_ATOMTYPE
```

Address of a double word containing a pointer to the type of
Atom document being processed, in lowercase, followed by its
length. The value of the type string is either "entry" or
"feed".

ATMP_ATOMID

Address of a triple word containing the address of a buffer
containing Atom request identifier from the atom:id element,
followed by its length, followed by the total length of the
containing buffer. When handling a POST request, you can use
this buffer to return a new atom id to represent the newly
constructed resource.

ATMP_HTTPMETH

Address of a double word containing a pointer to the HTTP
method padded with spaces, followed by its length.
It is one of GET, POST, PUT or DELETE.

ATMP_TAG_AUTHORITY

Address of a double word containing a pointer to a URI
authority name, followed by its length. The authority name
is a host name or email address that can be can be used by
the service routine to construct tag scheme URIs as described
in RFC4151.

ATMP_TAG_DATE

Address of a double word containing a pointer to a date
associated with ATMP_TAG_AUTHORITY, followed by its length.
The date is in ISO8601 format (YYYY-MM-DD) and is a date at
which this system is permitted to use the authority named
in ATMP_TAG_AUTHORITY for minting tag scheme URIs.

ATMP_XMLTRANSFORM

Address of a double word containing a pointer to the name
of an XMLTRANSFORM resource, followed by its length. The
XMLTRANSFORM resource describes the layout of records within
the CICS resource being externalized in the feed. If the
length of this name is zero, it indicates that no bindfile
was specified for the resource, and the service routine must
perform its own mapping.

ATMP_ROOT_ELEMENT

Address of a double word containing a pointer to the name
of the root element of the XML structure being mapped by the
XMLTRANSFORM resource, followed by its length.

ATMP_MTYPEIN

Address of a double word containing a pointer to the
 mediatype of the incoming HTTP request body, if any,
followed by its length. It is only meaningful if the HTTP
method is POST or PUT, otherwise the pointer and length are
both zero.

ATMP_MTYPEOUT

Address of a double word containing a pointer to an area in
which the routine must return the mediatype of the data being
returned in the DFHATOMCONTENT container, followed by the
length of that area (56 bytes). On entry to the service
routine, this area contains the requested content type:
"text", "html", "xhtml", or a mediatype such as "text/xml",
that can be used to control the format of document returned.

ATMP_PUBLISHED

Address of a double word containing a pointer to an area in
which the routine must return the date and time at which the
returned document was first published, followed by the length
of that area (32 bytes). The value must be returned in
xs:dateTime format, which is the same as RFC3339 format,
(namely yyyy-mm-ddThh:mm:ss.fffZ) or as spaces.
The .fff fractional seconds are optional, and may be omitted.
If spaces are returned, the current time is assumed.

ATMP_UPDATED

Address of a double word containing a pointer to an area in
which the routine must return the date and time at which the
returned document was last updated, followed by the length of
that area (32 bytes). The value must be returned in

xs:dateTime format, which is the same as RFC3339 format,
(namely yyyy-mm-ddThh:mm:ss.fffZ) or as spaces.
The .fff fractional seconds are optional, and may be omitted.
If spaces are returned, the current time is assumed.

ATMP_EDITED
Address of a double word containing a pointer to an area in
which the routine must return the date and time at which the
returned document was last edited, followed by the length of
that area (32 bytes). The value must be returned in
xs:dateTime format, which is the same as RFC3339 format,
(namely yyyy-mm-ddThh:mm:ss.fffZ) or as spaces.
The .fff fractional seconds are optional, and may be omitted.
If spaces are returned, the current time is assumed.

ATMP_ETAGVAL
Address of a double word containing a pointer to the Etag
value for the selected record, followed by its length.
The Etag (or entity tag) is any string that can be used to
identify the record instance uniquely.

ATMP_WINSIZE
Address of a double word containing a pointer to the feed
window size, followed by its length. The value is a numeric
string that contains the default number of entries to be
returned in each feed.

ATMP_SELECTOR
Address of a double word containing a pointer to the selector
value from the URL, followed by its length. This parameter is
used to select the record in the CICS resource that is to be
accessed.

ATMP_NEXTSEL
Address of a double word into which the service routine
should set a pointer and length of a selector value for the
next record in the resource, if any.

ATMP_PREVSEL
Address of a double word into which the service routine
should set a pointer and length of a selector value for the
previous record in the resource, if any.

ATMP_FIRSTSEL
Address of a double word into which the service routine
should set a pointer and length of a selector value for the
first (newest) record in the resource, if any.

ATMP_LASTSEL
Address of a double word into which the service routine
should set a pointer and length of a selector value for the
last (oldest) record in the resource, if any.

ATMP_ID_FLD
Address of a double word containing a pointer to the name of
the field within the resource that contains the atom
identifier from the atom:id element, if present, followed by
its length. If it is present, the service routine should use
this named field to store the contents of the atom:id element.

ATMP_PUBLISHED_FLD
Address of a double word containing a pointer to the name of
the field within the resource that contains the time when the
resource was first published, if present, followed by its
length. If no such field exists, the pointer and length are
both zero. If it is present, the service routine should use
this named field to locate the value of the timestamp that
can be used to construct the value returned in the
ATMP_PUBLISHED parameter. This parameter may be all spaces
if the resource does not contain such a field.

ATMP_UPDATED_FLD
Address of a double word containing a pointer to the name of
the field within the resource that contains the time when the
resource was last updated, if present, followed by its length.
If no such field exists, the pointer and length are both zero.
If it is present, the service routine should use this named
field to locate the value of the timestamp that can be used

to construct the value returned in the ATMP_UPDATED parameter.
This parameter may be all spaces if the resource does not
contain such a field.

ATMP_EDITED_FLD
  Address of a double word containing a pointer to the name of
  the field within the resource that contains the time when the
  resource was last edited, if present, followed by its length.
  If no such field exists, the pointer and length are both zero.
  If it is present, the service routine should use this named
  field to locate the value of the timestamp that can be used
  to construct the value returned in the ATMP_EDITED parameter.
  This parameter may be all spaces if the resource does not
  contain such a field.

ATMP_KEY_FLD
  Address of a double word containing a pointer to the name of
  the field within the resource that contains the key (RIDFLD)
  for File Control operations, if any, followed by its length.
  This is only relevant for key-sequenced VSAM files (KSDS).

ATMP_TITLE_FLD
  Address of a double word containing a pointer to the name of
  the field within the resource that contains the Atom title of
  the represented entry, if present, followed by its length.
  If it is present, the service routine should use this named
  field to locate the entry title, and return it in the
  DFHATOMTITLE container.

ATMP_SUBTITLE_FLD
  Address of a double word containing a pointer to the name of
  the field within the resource that contains the Atom subtitle
  of the represented entry, if present, followed by its length.
  If it is present, the service routine should use this named
  field to locate the entry subtitle, and return it in the
  DFHATOMSUBTITLE container.

ATMP_SUMMARY_FLD
  Address of a double word containing a pointer to the name of
  the field within the resource that contains the Atom summary
  of the represented entry, if present, followed by its length.
  If it is present, the service routine should use this named
  field to locate the entry summary, and return it in the
  DFHATOMSUMMARY container.

ATMP_CONTENT_FLD
  Address of a double word containing a pointer to the name of
  the field within the resource that contains the whole content
  of the represented entry, if present, followed by its length.
  If this field is not present, the entire contents of the
  record will be returned.

ATMP_CONTENT_TYPE_FLD
  Address of a double word containing a pointer to the name of
  the field within the resource that contains the content type
  of the represented entry, if present, followed by its length.
  This field is used in combination with ATMP_CONTENT_FLD when
  you are returning data that is not structured XML, such as
  plain text or escaped HTML. If this field is not present,
  a content type of "application/xml" is assumed.

ATMP_CATEGORY_FLD
  Address of a double word containing a pointer to the name of
  the field within the resource that contains the Atom
  categories of the represented entry, if present, followed by
  its length. If it is present, the service routine should
  use this named field to locate the entry summary, and return
  it in the DFHATOMCATEGORY container.

ATMP_AUTHOR_FLD
  Address of a double word containing a pointer to the name of
  the field within the resource that contains the name of the
  principal author of the record, followed by its length.

ATMP_AUTHORURI_FLD
  Address of a double word containing a pointer to the name of
  the field within the resource that contains a URI for the

```
          principal author of the record, followed by its length.
        ATMP_EMAIL_FLD
          Address of a double word containing a pointer to the name of
          the field within the resource that contains an email address
          for the principal author of the record, followed by its
          length.
```

Table 738.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	148	ATMP_PARAMETER_LIST	
(0)	ADDRESS	4	ATMP_OPTIONS	Options bitstip
(4)	ADDRESS	4	ATMP_RESPONSE	Response/reason doubleword
(8)	ADDRESS	4	ATMP_RESNAME	CICS resource name
(C)	ADDRESS	4	ATMP_RESTYPE	CICS resource type
(10)	ADDRESS	4	ATMP_ATOMTYPE	Atom document type
(14)	ADDRESS	4	ATMP_ATOMID	Atom identifier
(18)	ADDRESS	4	ATMP_HTTPMETH	HTTP method
(1C)	ADDRESS	4	ATMP_TAG_AUTHORITY	Authority for tag URIs
(20)	ADDRESS	4	ATMP_TAG_DATE	Date for tag URIs
(24)	ADDRESS	4	ATMP_XMLTRANSFORM	XMLTRANSFORM resource name
(28)	ADDRESS	4	ATMP_ROOT_ELEMENT	Root element in bind file
(2C)	ADDRESS	4	ATMP_MTYPEIN	Mediatype of input
(30)	ADDRESS	4	ATMP_MTYPEOUT	Mediatype of output
(34)	ADDRESS	4	ATMP_PUBLISHED	Datestamp when first published
(38)	ADDRESS	4	ATMP_UPDATED	Datestamp when last updated
(3C)	ADDRESS	4	ATMP_EDITED	Datestamp when last edited
(40)	ADDRESS	4	ATMP_ETAGVAL	Entity tag value
(44)	ADDRESS	4	ATMP_WINSIZE	Feed window size
(48)	ADDRESS	4	ATMP_SELECTOR	Selector for current item
(4C)	ADDRESS	4	ATMP_NEXTSEL	Selector for next item
(50)	ADDRESS	4	ATMP_PREVSEL	Selector for previous item
(54)	ADDRESS	4	ATMP_FIRSTSEL	Selector for first item
(58)	ADDRESS	4	ATMP_LASTSEL	Selector for last item
(5C)	ADDRESS	4	ATMP_ID_FLD	Name of field for Atom id
(60)	ADDRESS	4	ATMP_PUBLISHED_FLD	Name of field for PUBLISHED
(64)	ADDRESS	4	ATMP_UPDATED_FLD	Name of field for UPDATED

Table 738. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(68)	ADDRESS	4	ATMP_EDITED_FLD	Name of field for EDITED
(6C)	ADDRESS	4	ATMP_KEY_FLD	Name of field for KEY
(70)	ADDRESS	4	ATMP_TITLE_FLD	Name of field for TITLE
(74)	ADDRESS	4	ATMP_SUBTITLE_FLD	Name of field for SUBTITLE
(78)	ADDRESS	4	ATMP_SUMMARY_FLD	Name of field for SUMMARY
(7C)	ADDRESS	4	ATMP_CONTENT_FLD	Name of field for CONTENT
(80)	ADDRESS	4	ATMP_CONTENT_TYPE_FLD	
				Name of field for CONTENT TYPE
(84)	ADDRESS	4	ATMP_CATEGORY_FLD	Name of field for CATEGORY
(88)	ADDRESS	4	ATMP_AUTHOR_FLD	Name of field for AUTHOR
(8C)	ADDRESS	4	ATMP_AUTHORURI_FLD	Name of field for AUTHORURI
(90)	ADDRESS	4	ATMP_EMAIL_FLD	Name of field for AUTHOREMAIL

Table 739.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	ATMP_RESPONSES	Addressed by ATMP_RESPONSE
(0)	UNSIGNED	4	ATMP_RESPONSE_CODE	Response code
(4)	UNSIGNED	4	ATMP_REASON_CODE	Reason code

Table 740.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	ATMP_PARAMETER	Parameter locator double word
(0)	ADDRESS	4	ATMP_PARAMETER_PTR	Parameter address
(4)	FULLWORD	4	ATMP_PARAMETER_LEN	Parameter length

Table 741.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	ATMP_OPTIONS_BITS	Bits addressed by ATMP_OPTIONS

Table 741. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	BIT(32)	4	ATMP_OPTIONS_ INBIT	
(0)	BIT(8)	1	ATMP_INOPT_ BYTE0	
	1111 1...		*	High five bits not usable in COBOL
	.... .1..		OPTFIRST	First entry within a feed
(1)	BIT(8)	1	ATMP_INOPT_ BYTE1	
	1...		OPTSELHEX	Selector encoded in hexadecimal
	.1..		OPTSELDEC	Selector encoded in decimal
(2)	BIT(8)	1	ATMP_INOPT_ BYTE2	
(3)	BIT(8)	1	ATMP_INOPT_ BYTE3	
(4)	BIT(32)	4	ATMP_OPTIONS_ OUTBIT	
(4)	BIT(8)	1	ATMP_OUTOPT_ BYTE0	
	1111 1...		*	High five bits not usable in COBOL
	.... .1..		OPTPRVFEED	Prev link is for feed, not entry
(5)	BIT(8)	1	ATMP_OUTOPT_ BYTE1	
	1...		OPTTITLE	DFHATOMTITLE container returned
	.1..		OPTSUBTI	DFHATOMSUBTITLE container retn'd
	..1.		OPTSUMMA	DFHATOMSUMMARY container returned
	...1		OPTCATEG	DFHATOMCATEGORY container retn'd
	.... 1...		OPTAUTHOR	DFHATOMAUTHOR container returned
	.... .1..		OPTAUTHEML	DFHATOMEMAIL container returned
	.... ..1.		OPTAUTHURI	DFHATOMAUTHORURI container retn'd
	1		*	Reserved
(6)	BIT(8)	1	ATMP_OUTOPT_ BYTE2	
(7)	BIT(8)	1	ATMP_OUTOPT_ BYTE3	

Table 742.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	ATMP_OPTIONS_WORDS	Words addressed by ATMP_OPTIONS
(0)	UNSIGNED	4	ATMP_OPTIONS_IN	Input request bits (not used)
(4)	UNSIGNED	4	ATMP_OPTIONS_OUT	Output response bits

W2AP Web2.0 DFHATOMPARMS constant definitions

```
CONTROL BLOCK NAME = DFHW2CNC
DESCRIPTIVE NAME  = CICS (W2) DFHATOMPARMS contants
 @BANNER_START 02

                       DFHW2CNC
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = z/Arch
 RESTRICTIONS =
 MODULE TYPE = Constant definitions
 ----------------------------------------------------------------
 The following values can be used to test values passed in
 ATMP-OPTIONS-IN in COBOL, which cannot handle bit settings.
```

Constants

Table 743.

Len	Type	value	Name	Description
4	DECIMAL	67108864	OPTFIRST_NUM	OPTFIRST value
4	DECIMAL	8388608	OPTSELHEX_NUM	OPTSELHEX value
4	DECIMAL	4194304	OPTSELDEC_NUM	OPTSELDEC value
The following values can be used to set ATMP-OPTIONS-OUT in COBOL, which cannot handle bit settings.				
4	DECIMAL	67108864	OPTPRVFEED_NUM	OPTPRVFEED value
4	DECIMAL	8388608	OPTTITLE_NUM	OPTTITLE value
4	DECIMAL	4194304	OPTSUBTI_NUM	OPTSUBTI value
4	DECIMAL	2097152	OPTSUMMA_NUM	OPTSUMMA value
4	DECIMAL	1048576	OPTCATEG_NUM	OPTCATEG value
4	DECIMAL	524288	OPTAUTHOR_NUM	OPTAUTHOR value
4	DECIMAL	262144	OPTAUTHEML_NUM	OPTAUTHEML value
4	DECIMAL	131072	OPTAUTHURI_NUM	OPTAUTHURI value
The following values specify the return codes that can be set in DFHATMP_RESPONSE.				

Table 743. (continued)

Len	Type	value	Name	Description
4	DECIMAL	0	ATMP_RESP_NORMAL	Normal success response
4	DECIMAL	4	ATMP_RESP_NOT_FOUND	Resource not found
4	DECIMAL	8	ATMP_RESP_NOT_AUTH	Resource not authorized
4	DECIMAL	12	ATMP_RESP_DISABLED	Resource is disabled
4	DECIMAL	16	ATMP_RESP_ ALREADY_EXISTS	
				Resource already exists
4	DECIMAL	20	ATMP_RESP_ ETAG_NO_MATCH	
				If-Match compare failed
4	DECIMAL	24	ATMP_RESP_ INVALID_REQUEST	
				Request not valid
4	DECIMAL	32	ATMP_RESP_ ACCESS_ERROR	
				Other resource error
4	DECIMAL	36	ATMP_RESP_ CONVERSION_FAILED	
				XML Conversion error
4	DECIMAL	40	ATMP_RESP_UNUSABLE	Resource is unusable
The following values specify the reason codes that can be set in DFHATMP_REASON.				
4	DECIMAL	1	ATMP_REAS_ MALFORMED_REQUEST	
				Malformed request XML
4	DECIMAL	2	ATMP_REAS_ OMITTED_ENTRY	
				No atom:entry element
4	DECIMAL	3	ATMP_REAS_ OMITTED_CONTENT	
				No atom:content element
4	DECIMAL	4	ATMP_REAS_ UNSUPPORTED_TYPE	
				Unknown content type
4	DECIMAL	5	ATMP_REAS_ OMITTED_CICS_DATA	
				No cics root element

Table 743. (continued)

Len	Type	value	Name	Description
4	DECIMAL	6	ATMP_REAS_ TRANSFORM_ERROR	
				XMLTRANSFORM error

W2RDS Web2.0 Domain (ATOMSERVICE) Statistics

```
CONTROL BLOCK NAME = DFHW2RDS
DESCRIPTIVE NAME  = CICS Web 2.0 Domain (Atomservice)
Statistics
    @BANNER_START 02
                        DFHW2RDS
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION =
        This data area contains the web 2.0 atomservice statistics
        provided by the Web 2.0 Domain.
        It is provided for use in users monitoring applications
        to map the statistics returned via the API or the
        statistics global user exit.
        There is a single instance of this data block.
LIFETIME =
        This data block is created by the Web 2.0 Domain to store
        statistics to be passed to the user in response to a
        for atomservice statistics. The storage is released when
        the user task is detached.
        The DSECT also maps the contents of part of the SMF buffer
        created by the statistics domain and is used in the
        statistics exit.
STORAGE CLASS =
LOCATION =
        The user is passed a pointer to the head of the storage
        block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHW2RDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 744.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHW2RDS	Web 2.0 Domain Resid stats record
(0)	HALFWORD	2	W2RDS_LEN	Web 2.0 Domain stats record len
(2)	ADDRESS	2	W2RDS_ID	Web 2.0 Domain stats id
(4)	CHARACTER	1	W2RDS_VERS	Web 2.0 Domain stats version
(5)	CHARACTER	3		Reserved

Table 744. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	CHARACTER	8	W2R_ATOMSERV_ NAME	Atomservice name
(10)	BITSTRING	1	W2R_ATOMSERV_ TYPE	Atomservice type
(11)	BITSTRING	3		Reserved
(14)	BITSTRING	255	W2R_ATOMSERV_ BINDING_FILE	
				Atomservice binding file
(113)	BITSTRING	1		Reserved
(114)	BITSTRING	255	W2R_ATOMSERV_ CONFIG_FILE	
				Atomservice configuration file
(213)	BITSTRING	1		Reserved
(214)	BITSTRING	1	W2R_ATOMSERV_ RESTYPE	
				Atomservice resource type
(215)	BITSTRING	3		Reserved
(218)	CHARACTER	16	W2R_ATOMSERV_ RESNAME	
				Atomservice resource name
(228)	CHARACTER	8		Reserved
(230)	FULLWORD	4	W2R_ATOMSERV_ REF_COUNT	
				Reference count
(234)	FULLWORD	4	W2R_ATOMSERV_ REF_DISABLED	
				Reference disabled
(238)	FULLWORD	4		Reserved
(23C)	FULLWORD	4	W2R_ATOMSERV_ POST_FEED_CNT	
				POST issued for feed
(240)	FULLWORD	4	W2R_ATOMSERV_ GET_FEED_CNT	
				GET issued for feed
(244)	FULLWORD	4	W2R_ATOMSERV_ GET_ENTRY_CNT	
				GET issued for entry
(248)	FULLWORD	4	W2R_ATOMSERV_ PUT_ENTRY_CNT	
				PUT issued for entry

Table 744. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24C)	FULLWORD	4	W2R_ATOMSERV_ DEL_ENTRY_CNT	
				DELETE issued for entry
(250)	CHARACTER	16		Reserved
(260)	CHARACTER	8	W2R_ATOMSERV_ DEFINE_SOURCE	
				Group installed from
(268)	BITSTRING	8	W2R_ATOMSERV_ CHANGE_TIME	
				Change/create time
(270)	CHARACTER	8	W2R_ATOMSERV_ CHANGE_USERID	
				Change userid
(278)	BITSTRING	2	W2R_ATOMSERV_ CHANGE_AGENT	
				Change agent
(27A)	BITSTRING	2	W2R_ATOMSERV_ INSTALL_AGENT	
				Install agent
(27C)	BITSTRING	8	W2R_ATOMSERV_ INSTALL_TIME	
				Install/Create time
(284)	CHARACTER	8	W2R_ATOMSERV_ INSTALL_USERID	
				Install userid
(28C)	CHARACTER	8	W2R_ATOMSERV_ URIMAP	
				URIMAP
(294)	CHARACTER	32	W2R_ATOMSERV_ XMLTRANSFORM	
				XMLTRANSFORM
(294)		0	W2RDS_END	"*"
(294)		0	W2RDS_LENGTH	"*-W2RDS_LEN" W2 Atomservice record length
Constants that denote a W2 atomservice stats record				
(294)	SIGNED	0	W2RIDR	"110" W2 Atomservice resid stats id
(294)	BITSTRING	0	W2R_VERS	"X'01'" Record version number
(294)	BITSTRING	0	W2R_ATOMTYPE_ CATEGORY	
				"X'01'" Atomservice type - Category

Table 744. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(294)	BITSTRING	0	W2R_ATOMTYPE_ COLLECTION	
				"X'02'" Atomservice type - Collection
(294)	BITSTRING	0	W2R_ATOMTYPE_ FEED	"X'03'" Atomservice type - Feed
(294)	BITSTRING	0	W2R_ATOMTYPE_ SERVICE	
				"X'04'" Atomservice type - Service
(294)	BITSTRING	0	W2R_RESTYPE_FILE	"X'01'" Atomservice restype - File
(294)	BITSTRING	0	W2R_RESTYPE_ PROGRAM	
				"X'02'" Atomservice restype - Program
(294)	BITSTRING	0	W2R_RESTYPE_ TSQUEUE	
				"X'03'" Atomservice restype - Tsqueue
(294)	BITSTRING	0	W2R_RESTYPE_ NOTAPPLIC	
				"X'04'" Atomservice restype - N/A Change Agents
(294)	SIGNED	0	W2R_CSDAPI_ CHANGE	"0001" CSD API
(294)	SIGNED	0	W2R_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(294)	SIGNED	0	W2R_DREPAPI_ CHANGE	"0003" DREP API
(294)	SIGNED	0	W2R_CREATE_ CHANGE	"0004" EXEC CREATE SPI Install Agents
(294)	SIGNED	0	W2R_CSDAPI_ INSTALL	"0001" CSD API
(294)	SIGNED	0	W2R_CREATE_ INSTALL	"0004" EXEC CREATE SPI
(294)	SIGNED	0	W2R_GRPLIST_ INSTALL	
				"0005" GRPLIST
(294)	SIGNED	0	W2R_BUNDLE_ INSTALL	"0009" BUNDLE

WBCDC Web Interface Converter parms *MCA

```
!:refstep.dfhwburp_converter_interface --------------- DFHWBURP 651 -
!
!
! This copybook defines the parameter lists which
! are passed to the 2 functions
! (DECODE and ENCODE)
! of the user replaceable converter program.
!
!-----------------------------------------------------------------
!:refstep.dfhwburp_dfhcommarea ---------------------- DFHWBURP 669 -
!
! The top level definition for dfhcommarea.
!
!-----------------------------------------------------------------
```

Table 745.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHCOMMAREA	
(0)	CHARACTER	*	COMM_PARMLIST	

```
!:erefstep.dfhwburp_  dfhcommarea -------------------------------------
!:refstep.dfhwburp_ converter_ common_fields ----------- DFHWBURP 681 -
!
  ! The fields at the start of the converter
  ! commarea must be accessible
  ! independent of the converter function being called.
  ! These declarations provide a definition of the
  ! commarea in terms of these common fields.
!
! < Variable >
! Meaning
!
! < converter_ parms >
  ! The high-level definition of the parameter area
  ! passed to the converter in the COMMAREA.
!
! < converter_ eyecatcher >
  ! The eyecatcher used to determine that the converter COMMAREA
  ! is not corrupt. The value it takes varies depending on the
  ! converter function involved. The possible values are
  ! defined in the DFHWBUCx copybook.
!
! < converter_ function >
  ! The value used to determine which converter function is
  ! involved on this call. Possible values are the constants
  ! DECODE, ENCODE.
!
! < converter_ response >
  ! The fullword response value produced by a converter
! which has not been passed a valid converter_ function
  ! value. The recommended response in this circumstance
! is URP_ INVALID.
!
! < converter_ reason >
  ! The fullword reason value returned by a converter which has
! not been passed a valid converter_ function value.
  ! No reason values are architected for this error situation in
  ! the CICS Web Browser Interface. Users may define their own
! values.
!
! < converter_ parmlist >
  ! The rest of the parameters. The structure of this data
```

```
                          ! varies depending on which converter function is involved.
                       !
                          !-------------------------------------------------------------------
```

Table 746.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CONVERTER_PARMS	
(0)	CHARACTER	8	CONVERTER_ EYECATCHER	
(8)	CHARACTER	1	CONVERTER_ VERSION	
(9)	CHARACTER	1	CONVERTER_ VOLATILE	
(A)	HALFWORD	2	CONVERTER_ FUNCTION	
(C)	UNSIGNED	4	CONVERTER_ RESPONSE	
(10)	UNSIGNED	4	CONVERTER_REASON	
(14)	CHARACTER	*	CONVERTER_ PARMLIST	

```
              !:erefstep.dfhwburp_ converter_ common_fields ------------------------
              !:refstep.dfhwburp_ decode_ interface ------------------ DFHWBURP 737 -
              !
                ! These declarations define the parameter list which
                ! is passed to the DECODE function of the user replaceable
                ! converter program. It is called by the server controller.
              !
                ! The variables in the decode parameter list are as follows:
              !
              ! < Variable >
              ! Meaning
              !
              ! < decode_  eyecatcher > (input)
                ! A character field to contain an eyecatcher to help with
                ! diagnostics and provide a sanity check for the Converter
                ! program if required. The
                ! Server Controller sets this to the value of constant
              ! DECODE_ EYECATCHER_ INIT before calling decode.
              !
              ! < decode_ version > (input)
              !
                ! A single-character parameter-list version identifier.
                ! It will change whenever the layout of the parameter list changes.
                ! Possible values:
                ! Binary zero (X'00') -- pre-CICS/TS1.3 version parameter list
                ! Character zero (X'F0') -- CICS/TS1.3 version parameter list
                ! Character one (X'F1') -- CICS/TS4.1 version parameter list
              !
              ! < decode_  volatile > (input)
                ! A single-character code that indicates whether the data area
              ! pointed to by "decode_  data_ptr" can be replaced or not:
                ! '0' -- The area cannot be replaced: it is part of another
              ! commarea.
              ! '1' -- The storage pointed to by "decode_  data_ptr" can be freed
                ! and replaced by a different size workarea.
              !
              ! < decode_  function > (input)
              ! A halfword set to the constant value URP_ DECODE .
                ! Set to indicate to the converter the function required.
```

```
!
! < decode_  response > (output)
  ! The response value produced by decode.
  ! Possible values are:
!
! - URP_OK
! - URP_ EXCEPTION
! - URP_INVALID
! - URP_DISASTER
!
! < decode_ reason > (output)
  ! The reason for a response produced by decode.
  ! The architected values for EXCEPTION responses are:
!
! - URP_ SECURITY_FAILURE
!
  ! Other values may be supplied and given user-defined meanings.
!
! < decode_ client_ address > (input)
  ! The IP address of the client (ipv4 only).
!
! < decode_ client_ address_string > (input)
  ! The IP address of the client in "ww.xx.yy.zz" format. (ipv4 only)
!
! < decode_  data_ptr > (input / output)
  ! A pointer to the HTTP request sent by the client.
!
! < decode_ method_ ptr > (input)
  ! Pointer to the method specified on the HTTP request sent by the
! client.
!
! < decode_ http_version_ ptr > (input)
  ! Pointer to a string identifying the HTTP version supported by the
! client.
!
! < decode_ http_resource_ ptr > (input)
  ! Pointer to the CICS resource requested by the client. In HTTP
! protocol
  ! terminology, this is the "absolute path" information in the HTTP
  ! request. Because CICS does not have any concept of "paths" or
  ! the hierarchical file systems on which paths rely, we have
! elected
  ! to use a term more appropriate to CICS in our documentation.
!
! < decode_ request_ header_ptr > (input)
  ! Pointer to the first HTTP header in the HTTP request. There are
  ! usually multiple HTTP headers for each HTTP request. Each header
  ! is delimited by a CR+LF. The end of the header information is
  ! delimited by a null header (that is, an additional CR+LF
! following
  ! final HTTP header).
!
! < decode_ user_data_ ptr > (input)
  ! A pointer to any user data for this HTTP request.
!
! < decode_ method_ length > (input)
  ! Length of the method specified on the HTTP request sent by the
! client.
!
! < decode_ http_version_ length > (input)
  ! Length of the string identifying the
  ! version of HTTP supported by the client.
!
! < decode_ http_resource_ length > (input)
  ! Length of the string containing the
  ! HTTP header information for this HTTP request.
  ! This length includes the lengths of all the delimiting CR+LFs
```

```
                         ! for all the headers, including the final CR+LF of the null header
                         ! which signals the end of the headers.
                         !
                         ! < decode_ request_ header_length > (input)
                           ! Length of the string identifying the
                           ! CICS resource requested by supported by the client.
                         !
                         ! < decode_ user_data_ length > (input)
                           ! Length of the user data.
                         !
                         ! < decode_ input_data_ len > (output)
                           ! The server input data length associated
                           ! with the program processing the HTTP request. This is set to the
                           ! default 32767, but can be overwritten in decode,
                           ! possibly to reflect information contained in the client data.
                           ! This length is used as INPUTDATALENGTH on the EXEC CICS LINK to
                           ! the user program.
                         !
                         ! < decode_ output_ data_len > (output)
                           ! The server output data length associated
                           ! with the program processing the HTTP request. This is set to the
                           ! default 32767, but can be overwritten in decode,
                           ! possibly to reflect information contained in the client data. It
                           ! is the size of the output commarea.
                         !
                         ! < decode_ server_ program > (input / output)
                           ! The CICS program invoked to process the incoming HTTP
                           ! request. Initialised to the program name allocated by the ATTACH
                           ! exit for the requested URL. The program name can be changed by
                         ! the analyzer.
                         !
                         ! < decode_  user_token > (input / output)
                           ! A token for use by users. Could for example identify
                           ! any state data associated with this HTTP request.
                         !
                         ! < decode_  entry_count > (input)
                           ! This parameter shows how many times the decode and encode
                           ! converter functions have been executed in the current CWI
                           ! execution. It is useful when looping back from encode.
                         !
                         ! < decode_ client_ ipv6_address > (input)
                         !
                           ! The IP address of the client. This field will contain either
                           ! an ipv4 (in mapped format) or ipv6 client address.
                         !
                         ! < decode_ client_ address_ipv6_string > (input)
                         !
                           ! The IP address of the client in displayable format. If the client
                           ! is ipv4 then a dotted decimal format will be storage here. And if
                           ! the client is ipv6 then an IPV6 (colon formated) address will be
                         ! supplied.
                         !
                           !----------------------------------------------------------------
```

Table 747.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	160	DECODE_PARMS	
(0)	CHARACTER	8	DECODE_ EYECATCHER	
(8)	CHARACTER	1	DECODE_VERSION	
(9)	CHARACTER	1	DECODE_VOLATILE	
(A)	HALFWORD	2	DECODE_FUNCTION	

Table 747. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	UNSIGNED	4	DECODE_RESPONSE	
(10)	UNSIGNED	4	DECODE_REASON	
(14)	UNSIGNED	4	DECODE_ CLIENT_ADDRESS	
(18)	CHARACTER	15	DECODE_ CLIENT_ ADDRESS_STRING	
(27)	CHARACTER	1	*	
(28)	ADDRESS	4	DECODE_DATA_PTR	
(2C)	ADDRESS	4	DECODE_ METHOD_PTR	
(30)	ADDRESS	4	DECODE_ HTTP_VERSION_PTR	
(34)	ADDRESS	4	DECODE_ RESOURCE_PTR	
(38)	ADDRESS	4	DECODE_ REQUEST_ HEADER_PTR	
(3C)	ADDRESS	4	DECODE_ USER_DATA_PTR	
(40)	HALFWORD	2	DECODE_ METHOD_LENGTH	
(42)	HALFWORD	2	DECODE_ HTTP_VERSION_ LENGTH	
(44)	HALFWORD	2	DECODE_ RESOURCE_LENGTH	
(46)	HALFWORD	2	DECODE_ REQUEST_ HEADER_LENGTH	
(48)	FULLWORD	4	DECODE_ INPUT_DATA_LEN	
(4C)	HALFWORD	2	DECODE_ USER_DATA_LENGTH	
(4E)	CHARACTER	2	*	unused/reserved
(50)	FULLWORD	4	DECODE_ OUTPUT_DATA_LEN	
(54)	CHARACTER	8	DECODE_ SERVER_PROGRAM	
(5C)	CHARACTER	8	DECODE_ USER_TOKEN	
(64)	FULLWORD	4	DECODE_ ENTRY_COUNT	
(68)	CHARACTER	16	DECODE_ CLIENT_ IPV6_ADDRESS	
				ipv6 address

Table 747. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(68)	CHARACTER	12	DECODE_ CLIENT_ IPV6_IP6PFX	
				for ipv4 compatb
(74)	CHARACTER	4	DECODE_ CLIENT_ IPV6_IPADDR4	
(78)	CHARACTER	39	DECODE_ CLIENT_ IPV6_ADDRESS_STRING	
				display addr
(9F)	CHARACTER	1	*	unused/reserved

```
!:erefstep.dfhwburp_decode_interface --------------------------------
!:refstep.dfhwburp_encode_interface ----------------- DFHWBURP 928 -
!
! These declarations define the parameter list which
! is passed to the ENCODE function of the user replaceable
! Converter program. It is called by the alias program
! if data mapping of the remote procedure's output is required.
! The parameter list is passed as a commarea from the alias.
!
! < Variable >
! Meaning
!
! < encode_eyecatcher >
! A character field to contain an eyecatcher
! to help with diagnostics and provide a sanity check for
! the Converter program if required. The alias
! sets this to the value of constant ENCODE_EYECATCHER_INIT
! before calling encode.
!
! < encode_version > (input)
! A single-character parameter-list version identifier.
! It will change whenever the layout of the parameter list changes.
! Possible values:
! Binary zero (X'00') -- pre-CICS/TS1.3 version parameter list
! Character zero (X'F0') -- CICS/TS1.3 version parameter list
!
! < encode_volatile > (input)
! A single-character code that indicates whether the data area
! pointed to by "encode_data_ptr" can be replaced or not:
! '0' -- The area cannot be replaced: it is part of another
! commarea.
! '1' -- The storage pointed to by "encode_data_ptr" can be freed
! and replaced by a different size workarea.
!
! < encode_function > (input)
! A halfword set to the constant value URP_ENCODE .
! This is set by the alias before linking to the converter
! program. It allows the converter to determine which function
! is being requested.
!
! < encode_response > (output)
! The fullword response value produced by decode.
! Possible values are:
!
! - URP_OK
! - URP_EXCEPTION
! - URP_INVALID
! - URP_DISASTER
!
! < encode_reason > (output)
```

```
                  ! The fullword reason value returned by encode for response
                  ! values other than OK. No reason values are architected for
                  ! encode in the CICS Web Browser Interface.
                  ! Users may define their own values.
                  !
                  ! < encode_data_ptr > (input)
                  ! A pointer reference to the storage area containing
                  ! the output from the server program which is to be manipulated
                  ! by the encode function
                  !
                  ! < encode_input_data_len > (input)
                  ! A fullword field indicating the length of the data to be
                  ! encoded by the converter.
                  !
                  ! < encode_user_token > (input)
                  ! A token for use by users. Could for example identify
                  ! any state data associated with this HTTP request.
                  ! < encode_entry_count > (input)
                  ! This parameter shows how many times the decode and encode
                  ! converter functions have been executed in the current CWI
                  ! execution. It is useful when looping back from encode.
                  !
                  !----------------------------------------------------------------
```

Table 748.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	ENCODE_PARMS	
(0)	CHARACTER	8	ENCODE_ EYECATCHER	
(8)	CHARACTER	1	ENCODE_VERSION	
(9)	CHARACTER	1	ENCODE_VOLATILE	
(A)	HALFWORD	2	ENCODE_FUNCTION	
(C)	UNSIGNED	4	ENCODE_RESPONSE	
(10)	UNSIGNED	4	ENCODE_REASON	
(14)	ADDRESS	4	ENCODE_DATA_PTR	
(18)	FULLWORD	4	ENCODE_ INPUT_DATA_LEN	
(1C)	CHARACTER	8	ENCODE_ USER_TOKEN	
(24)	FULLWORD	4	ENCODE_ ENTRY_COUNT	

WBCLC Web client parameter list

Table 749.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	160	DFHWBCLI_ARG	
(0)	UNSIGNED	1	WBCLI_VERSION_NO	Parameter list version
(1)	UNSIGNED	1	WBCLI_FUNCTION	Function requested
(2)	UNSIGNED	1	WBCLI_METHOD	HTTP method requested
(3)	BIT(8)	1	WBCLI_FLAGS	Miscellaneous flags

Table 749. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		WBCLI_OFFSET_MODE	Pointers are commarea offsets
	.1..		WBCLI_DOCUMENT	Request body is CICS document
	..1.		WBCLI_USE_PROXY	Request is via a proxy
	...1		WBCLI_SET_RESP_BUFFER	
				CICS will get response buffer
	.... 11..		*	Reserved
	.... ..1.		WBCLI_NATIVE_REQUEST_BODY	
				Don't translate request
	1		WBCLI_NATIVE_RESPONSE_BODY	
				Don't translate response
(4)	HALFWORD	2	WBCLI_RESPONSE	Function response code
(6)	HALFWORD	2	WBCLI_REASON	Function reason code
(8)	CHARACTER	8	WBCLI_SESSION_TOKEN	
				Session token
(10)	ADDRESS	4	WBCLI_URL_PTR	Address of requested URL
(14)	FULLWORD	4	WBCLI_URL_LEN	Length of requested URL
(18)	ADDRESS	4	WBCLI_PROXY_URL_PTR	
				Address of proxy URL
(1C)	FULLWORD	4	WBCLI_PROXY_URL_LEN	
				Length of proxy URL
(20)	ADDRESS	4	WBCLI_HEADER_PTR	Address of request headers
(24)	FULLWORD	4	WBCLI_HEADER_LEN	Length of request headers
(28)	CHARACTER	16	WBCLI_REQUEST_DOCTOKEN	
				Request body document token
(28)	CHARACTER	8	WBCLI_REQUEST_BODY	

Table 749. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Request body buffer structure
(28)	ADDRESS	4	WBCLI_REQUEST_ BODY_PTR	
				Address of request body
(2C)	FULLWORD	4	WBCLI_REQUEST_ BODY_LEN	
				Length of request body
(38)	CHARACTER	8	WBCLI_RESPONSE_ BODY	
				Response buffer structure
(38)	ADDRESS	4	WBCLI_RESPONSE_ BODY_PTR	
				Address of response buffer
(3C)	FULLWORD	4	WBCLI_RESPONSE_ BODY_LEN	
				Length of response buffer
(40)	CHARACTER	40	WBCLI_MEDIATYPE	IANA media type of body
(68)	CHARACTER	40	WBCLI_CHARSET	IANA charset of body
(90)	CHARACTER	10	WBCLI_HOST_ CODEPAGE	
				EBCDIC codepage of CICS host
(9A)	CHARACTER	3	*	Reserved
(9D)	CHARACTER	3	WBCLI_HTTP_ STATUS_CODE	
				HTTP status code
(A0)	CHARACTER	0	*	

Constants

Table 750.

Len	Type	value	Name	Description
1	DECIMAL	1	WBCLI_VERSION_ CURRENT	
1	DECIMAL	0	WBCLI_FUNCTION_ CONVERSE	
1	DECIMAL	1	WBCLI_FUNCTION_SEND	
1	DECIMAL	2	WBCLI_FUNCTION_ RECEIVE	

Table 750. (continued)

Len	Type	value	Name	Description
1	DECIMAL	3	WBCLI_FUNCTION_ INQUIRE_PROXY	
1	DECIMAL	4	WBCLI_FUNCTION_CLOSE	
1	DECIMAL	1	WBCLI_METHOD_GET	
1	DECIMAL	2	WBCLI_METHOD_POST	
1	DECIMAL	3	WBCLI_METHOD_HEAD	
1	DECIMAL	4	WBCLI_METHOD_PUT	
1	DECIMAL	5	WBCLI_METHOD_DELETE	
1	DECIMAL	6	WBCLI_METHOD_LINK	
1	DECIMAL	7	WBCLI_METHOD_UNLINK	
1	DECIMAL	8	WBCLI_METHOD_REQUEUE	
1	DECIMAL	9	WBCLI_METHOD_OPTIONS	
1	DECIMAL	10	WBCLI_METHOD_TRACE	
2	DECIMAL	0	WBCLI_RESPONSE_OK	
2	DECIMAL	4	WBCLI_RESPONSE_ EXCEPTION	
2	DECIMAL	8	WBCLI_RESPONSE_ DISASTER	
2	DECIMAL	1	WBCLI_REASON_ INVALID_URL	
2	DECIMAL	2	WBCLI_REASON_ INVALID_HEADER	
2	DECIMAL	3	WBCLI_REASON_ INVALID_DOCUMENT	
2	DECIMAL	4	WBCLI_REASON_ GETMAIN_ERROR	
2	DECIMAL	5	WBCLI_REASON_ PROXY_ERROR	
2	DECIMAL	6	WBCLI_REASON_ SOCKET_ERROR	
2	DECIMAL	7	WBCLI_REASON_ HTTP_ERROR	
2	DECIMAL	8	WBCLI_REASON_ TRANSLATE_ERROR	
2	DECIMAL	9	WBCLI_REASON_ TRUNCATED	

WBCLB Web client session

Table 751.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	576	WBO_SESSION	Outbound session data

Table 751. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	HALFWORD	2	WBO_LEN	length of this session data
(2)	CHARACTER	14	WBO_EYECATCHER	Eyecatcher >DFHWBOSESSION
(10)	ADDRESS	4	WBO_WBA_NEXT	WBA chain: forward link
(14)	ADDRESS	4	WBO_WBA_PREV	WBA chain: backward link
(18)	ADDRESS	4	WBO_TXN_NEXT	TXN chain: forward link
(1C)	ADDRESS	4	WBO_TXN_PREV	TXN chain: backward link
(20)	STRUCTURE IsA(ETOKEN)	8	*	Reserved
(20)	ADDRESS	4	P	
(24)	FULLWORD	4	N	
(28)	STRUCTURE IsA(ETOKEN)	8	WBO_TXN	Transaction token
(28)	ADDRESS	4	P	
(2C)	FULLWORD	4	N	
(30)	BIT(8)	1	WBO_FLAG1	Request status
	1...		WBO_PROXY	Proxy required
	.1..		WBO_HEADERS_ SENT	Headers have been sent
	..1.		WBO_ALLOW_ TRAILERS	
				Allow chunk trailers
	...1		WBO_CONCLOSE_ SENT	Connection: close sent
	.... 1...		WBO_VERSION_ SAVED	Version already saved
	.... .1..		WBO_NATIVE_ REQUEST	
				Don't translate request body
	.... ..1.		WBO_PROTOCOL_ ISC	Protocol is ISC
	1		WBO_CHUNKED_ REQUEST	
				Send chunked data
(31)	UNSIGNED	1	WBO_FLAG2	Response status
	1...		WBO_HTTP11	Server is at HTTP1.1 or later
	.1..		WBO_HEADERS_ RECEIVED	

Table 751. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Headers have been received
	..1.		WBO_TEXT_ RESPONSE	Response is text-based
	...1		WBO_SESSION_ CLOSED	
				Session closed by peer
	.... 1...		WBO_MBCS_ RESPONSE	Response body is DBCS/MBCS
	.... .1..		WBO_NATIVE_ RESPONSE	
				Don't translate response body
	.... ..1.		WBO_TRAILER_ HEADERS	
				Trailer headers expected
	1		WBO_CHUNKED_ RESPONSE	
				Receive chunked data
(32)	UNSIGNED	1	WBO_SCHEME	URL scheme 1=HTTP, 2=HTTPS
(33)	UNSIGNED	1	WBO_METHOD	HTTP method
(34)	CHARACTER	16	WBO_BIN_ IP_ADDRESS	Outbound IP address
(44)	UNSIGNED	1	WBO_CHAR_ IP_ADDRESS_LEN	
				Char IP address length
(45)	CHARACTER	39	WBO_CHAR_ IP_ADDRESS	
				Char IP address
(6C)	UNSIGNED	1	WBO_IP_ ADDRESS_TYPE	
				Outbound IP address type
(6D)	CHARACTER	3	*	Reserved
(70)	UNSIGNED	2	WBO_PORTNUMBER	Outbound port number
(72)	UNSIGNED	1	WBO_FLAG3	Various flags
	1...		WBO_OPTIONS_ REQUEST	
				Request is options
	.1..		WBO_CLOSE_HDR	Close hdr on resp

Table 751. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		WBO_SUPPRESS_ EXITS	
				Suppress user exits
	...1		WBO_SUPPRESS_ MONITORING	
				Suppress monitoring
	.... 1...		WBO_USER_ CT_HEADER	
				User written cont type hdr
	.... .1..		WBO_ADSFX_SET	connect with adsfx
	.... ..1.		WBO_IPV6_HOST	Hostname is IPv6 address
	1		WBO_TRACE_ SUPPRESSION	
				Suppress body trace
(73)	UNSIGNED	1	WBO_FLAG4	More flags
	1...		WBO_PROXY_ HEADERS_X	
				Proxy headers exist
	.1..		WBO_CONTENT_ LENGTH_X	
				Content-len exists
(74)	FULLWORD	4	WBO_HEADER_LEN	Length of req/resp + hdrs
(78)	FULLWORD	4	WBO_RESP_ HEADER_LEN	
				Length of resp headers
(7C)	FULLWORD	4	WBO_BODY_LEN	Len of request/response body
(80)	FULLWORD	4	WBO_PENDING_ REQ_COUNT	
				Requests pending response
(84)	ADDRESS	4	WBO_REALM_PTR	Address of realm extensn
(88)	UNSIGNED	4	WBO_SOCKETPOOL_ SIZE	
				Pool size used at open_ses
(8C)	UNSIGNED	4	WBO_REPOSITORY_ TOKEN	
				Web repository token
(90)	CHARACTER	4	WBO_TRANNUM	Trannum

Table 751. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(94)	CHARACTER	10	WBO_HOST_ CODEPAGE	host codepage
(9E)	CHARACTER	2	*	reserved
(A0)	STRUCTURE IsA(ETOKEN)	8	WBO_HOST_ CCSTOKEN	CCS token for host
(A0)	ADDRESS	4	P	
(A4)	FULLWORD	4	N	
(A8)	ADDRESS	4	WBO_SOCKETPOOL_ TOKEN	
				Token for socketpool
(AC)	CHARACTER	4	*	
(B0)	STRUCTURE IsA(ETOKEN)	8	WBO_HDRS_ CCSTOKEN	CCS token for HTTP headers
(B0)	ADDRESS	4	P	
(B4)	FULLWORD	4	N	
(B8)	UNSIGNED	4	WBO_HOST_CCSID	Host IBM ccsid
(BC)	UNSIGNED	4	WBO_GUEST_CCSID	Guest IBM ccsid
(C0)	STRUCTURE IsA(BUFFER)	16	WBO_WORK_BUFFER	Addr(work buff)
(C0)	ADDRESS	4	P	
(C4)	FULLWORD	4	N	
(C8)	FULLWORD	4	M	
(CC)	FULLWORD	4	T	
(D0)	STRUCTURE IsA(BUFFER)	16	WBO_SET_BUFFER	Address of SET buffer
(D0)	ADDRESS	4	P	
(D4)	FULLWORD	4	N	
(D8)	FULLWORD	4	M	
(DC)	FULLWORD	4	T	
(E0)	STRUCTURE IsA(BUFFER)	16	WBO_EXCESS_ BODY_BUFFER	
				Excess body (NOTRUNC)
(E0)	ADDRESS	4	P	
(E4)	FULLWORD	4	N	
(E8)	FULLWORD	4	M	
(EC)	FULLWORD	4	T	
(F0)	ADDRESS	4	WBO_HDR_ BROWSE_PTR	Header browse buffer
(F4)	ADDRESS	4	WBO_HDR_NEXT_PTR	Header browse cursor
(F8)	HALFWORD	2	WBO_HTTP_VNUM	http version

Table 751. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(FA)	HALFWORD	2	WBO_HTTP_RNUM	http release
(FC)	UNSIGNED	4	WBO_HOSTBUF_LEN	Length of hostname
(100)	STRUCTURE IsA(BLOCK)	8	WBO_HOSTNAME	host name
(100)	ADDRESS	4	P	
(104)	FULLWORD	4	N	
(108)	STRUCTURE IsA(BLOCK)	8	WBO_PROXY_URL	proxy url
(108)	ADDRESS	4	P	
(10C)	FULLWORD	4	N	
(110)	STRUCTURE IsA(BLOCK)	8	WBO_PATH	path
(110)	ADDRESS	4	P	
(114)	FULLWORD	4	N	
(118)	CHARACTER	8	WBO_URIMAP	Urimap
(120)	UNSIGNED	4	WBO_RESP_CCSID	Response ccsid
(124)	STRUCTURE IsA(ETOKEN)	8	WBO_EXCESS_TOKEN	DBCS/MBCS excess token
(124)	ADDRESS	4	P	
(128)	FULLWORD	4	N	
(12C)	ADDRESS	4	WBO_EXCESS_ INPUT_PTR	
				Excess input pointer
(130)	UNSIGNED	4	WBO_EXCESS_ INPUT_LEN	
				Excess input length
(134)	STRUCTURE IsA(BUFFER)	16	WBO_EXCESS_ INPUT_BUFFER	
				Excess input buffer
(134)	ADDRESS	4	P	
(138)	FULLWORD	4	N	
(13C)	FULLWORD	4	M	
(140)	FULLWORD	4	T	
(144)	STRUCTURE IsA(BUFFER)	16	WBO_SET_BUFFER2	2nd set buffer
(144)	ADDRESS	4	P	
(148)	FULLWORD	4	N	
(14C)	FULLWORD	4	M	
(150)	FULLWORD	4	T	
(154)	UNSIGNED	2	WBO_PROXY_ PORTNUMBER	
				Proxy port num

Table 751. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(156)	UNSIGNED	1	WBO_SOIS_ IPADDRESSTYPE	
				saving address type
(157)	UNSIGNED	1	WBO_CIPHER_COUNT	Number of ciphers
(158)	CHARACTER	28	WBO_CIPHER_ SUITES	Cipher codes for SSL
(174)	CHARACTER	32	WBO_CERTLABEL	Certificate label
(194)	ADDRESS	4	WBO_USER_TOKEN	User Token
(198)	STRUCTURE IsA(BLOCK)	8	WBO_PROXY_ HEADERS	Address of proxy
(198)	ADDRESS	4	P	
(19C)	FULLWORD	4	N	
	The wbo_client_server_block is also mapped by cbs_client_server_block. A similar block is located in wbs (wbs_client_server_block). If one of these blocks is changed, the other two should also be changed.			
(1A0)	CHARACTER	124	WBO_CLIENT_ SERVER_BLOCK	
(1A0)	BIT(8)	1	WBO_PEEK_FLAGS	
(1A1)	CHARACTER	3	*	
(1A4)	STRUCTURE IsA(BUFFER)	16	WBO_PEEK_ HEADER_BUFFER	
(1A4)	ADDRESS	4	P	
(1A8)	FULLWORD	4	N	
(1AC)	FULLWORD	4	M	
(1B0)	FULLWORD	4	T	
(1B4)	ADDRESS	4	WBO_SOCK_TOKEN	
(1B8)	STRUCTURE IsA(ETOKEN)	8	WBO_SESSION_ TOKEN	
(1B8)	ADDRESS	4	P	
(1BC)	FULLWORD	4	N	
(1C0)	FULLWORD	4	WBO_HEADERS_ PROCESSED_OFFSET	
(1C4)	FULLWORD	4	WBO_LENGTH_ OF_HEADERS	
(1C8)	FULLWORD	4	WBO_LENGTH_ OF_BODY	
(1CC)	FULLWORD	4	WBO_LENGTH_ OF_BODY_RECEIVED	
(1D0)	FULLWORD	4	WBO_LENGTH_ OF_BODY_ IN_BUFFER1	
(1D4)	FULLWORD	4	WBO_BODY_OFFSET	

Table 751. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1D8)	FULLWORD	4	WBO_MEDIATYPE_ OFFSET	
(1DC)	FULLWORD	4	WBO_MEDIATYPE_ LENGTH	
(1E0)	FULLWORD	4	*	
(1E4)	FULLWORD	4	*	
(1E8)	FULLWORD	4	WBO_CHARSET_ OFFSET	
(1EC)	FULLWORD	4	WBO_CHARSET_ LENGTH	
(1F0)	FULLWORD	4	WBO_STATUS_ TEXT_OFFSET	
(1F4)	FULLWORD	4	WBO_STATUS_ TEXT_LENGTH	
(1F8)	FULLWORD	4	WBO_STATUS_CODE	
(1FC)	STRUCTURE IsA(BUFFER)	16	WBO_SEND_ HEADERS_BUFFER	
(1FC)	ADDRESS	4	P	
(200)	FULLWORD	4	N	
(204)	FULLWORD	4	M	
(208)	FULLWORD	4	T	
(20C)	STRUCTURE IsA(BUFFER)	16	WBO_DISCARD_ BUFFER	
(20C)	ADDRESS	4	P	
(210)	FULLWORD	4	N	
(214)	FULLWORD	4	M	
(218)	FULLWORD	4	T	
(21C)	ADDRESS	4	WBO_AC_STR_PTR	ARM correlator str ptr
(220)	FULLWORD	4	WBO_AC_STR_LEN	ARM correlator str len
(224)	1...		WBO_PROCESS_AC	Process ARM correlator?
	.111 1111		*	Alignment padding
(225)	CHARACTER	16	WBO_ADSFX	ApplData suffix
(235)	UNSIGNED	1	WBO_OPEN_ AUTHENTICATION	
				Open authentication
(236)	CHARACTER	10	*	Alignment padding
(240)	CHARACTER	0	*	End of WBO

Table 752.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	128	WBOX_SESSION_ EXTENSION	
				Web outbound extension
(0)	HALFWORD	2	WBOX_LEN	Length of WBO extension
(2)	CHARACTER	14	WBOX_EYECATCHER	Eyecatcher >DFHWBOSESSEXT
(10)	ADDRESS	4	WBOX_SESSION_PTR	Address of owning WBO
(14)	CHARACTER	1	WBOX_EXTENSION_ TYPE	
				Type of extension
(15)	BIT(8)	1	WBOX_FLAGS	Extension flags
(16)	BIT(16)	2	*	Reserved
(18)	CHARACTER	104	WBOX_EXTENSION_ OVERLAY	
(18)	CHARACTER	104	WBOX_REALM_DATA	Realm extension overlay
(18)	HALFWORD	2	WBOX_REALM_LEN	Length of realm name
(1A)	CHARACTER	102	WBOX_REALM_ NAME	Partner's realm name
(80)	CHARACTER	0	*	End of WBO extension

Table 753.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	TXN_WBO_ANCHOR	
(0)	HALFWORD	2	TXN_WBO_LEN	length of this block
(2)	CHARACTER	14	TXN_WBO_ EYECATCHER	Eyecatcher >DFHWBTXNWBO
(10)	ADDRESS	4	*	unused
(14)	ADDRESS	4	*	unused
(18)	ADDRESS	4	TXN_WBO_FIRST	TXN/WBO chain: first
(1C)	ADDRESS	4	TXN_WBO_LAST	TXN/WBO chain: last

WBEPC Web Error Program parms *NHA

```
!:refstep.dfhwbep_commarea -------------------------- DFHWBEPP 104 -
!
!
! These declarations define the commarea which is passed
! to the user replaceable Web Error program by the CICS WEB
! Interface
! via a Program Manager Domain EXEC_LINK call.
!
```

```
! Variable
! Meaning
!
! < wbep_length > (input)
! Length of DFHWBEPC copybook
!
! < wbep_eyecatcher >
! A character field to contain an eyecatcher
! to help with diagnostics.
! The caller sets this to '>wbepca '
! before calling the Web Error Program
!
! < wbep_version >
! Version of DFHWBEPC copybook being passed by CICS
!
! < wbep_error_code > (input)
! The two byte signed binary number indicating the cause of the
! original error. Constants which this field may contain can be
! found in copybook DFHWBUCC.
!
! < wbep_abend_code > (input)
! The four character abend code associated with this exception.
!
! < wbep_message_number > (input)
! Message number associated with this exception
!
! < wbep_message_ptr > (input)
! A pointer to the CICS message text associated with this exception
!
! < wbep_response_len > (input)
! The full word length of the HTTP error response to be returned to
! the
! the HTTP client. On entry to DFHWBEP this contains the default
! CICS
! HTTP error response for the reported error.
!
! < wbep_response_ptr > (input)
! A pointer to the 32K buffer containing the HTTP error response to
! be
! returned to the HTTP client. On entry to DFHWBEP this contains
! the
! default HTTP error response returned by CICS for the reported
! error.
!
! < wbep_response_len > (input)
! The full word length of the response message text associated with
! this exception.
!
! < wbep_client_address_len > (input)
! One byte field containing the length of the address contained in
! wbep_client_address
!
! < wbep_client_address > (input)
! The 39 character TCPIP address of the client.
!
! < wbep_server_address_len > (input)
! One byte field containing the length of the address contained in
! wbep_server_address
!
! < wbep_server_address > (input)
! The 39 character TCPIP address of the TCP/IP stack on which this
! request was received
!
! < wbep_tcpipservice_name > (input)
! Name of the TCPIPSERVICE associated with the failing request
!
! < wbep_converter_program < (input)
```

```
                ! The 8 character name of the converter program associated with
                ! this
                ! request
                !
                ! < wbep_target_program > (input)
                ! The target program associated with the web request.
                !
                ! < wbep_failing_program > (input)
                ! The program which CICS was invoking when the failure occurred
                !
                ! < wbep_http_response_code > (input)
                ! HTTP error response code CICS is returning for this error.
                ! This can be overriden by changing the content of the buffer
                ! containing the HTTP response
                !
                ! < wbep_analyzer_response > (input)
                ! Response code returned by analyzer program
                !
                ! < wbep_analyzer_reason > (input)
                ! Reason code returned by analyzer program
                !
                ! < wbep_converter_response > (input)
                ! Response code returned by converter program
                !
                ! < wbep_converter_reason > (input)
                ! Reason code returned by converter program
                !
                !-------------------------------------------------------------------
```

Table 754.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	208	DFHWBEPC	
(0)	CHARACTER	12	WBEP_PREFIX	
(0)	HALFWORD	2	WBEP_LENGTH	
(2)	CHARACTER	8	WBEP_EYECATCHER	
(A)	HALFWORD	2	WBEP_VERSION	
(C)	CHARACTER	196	WBEP_DATA	
(C)	HALFWORD	2	WBEP_ERROR_CODE	
(E)	BIT(8)	1	WBEP_FLAGS	indicator flags
	1...		WBEP_SUPPRESS_ ABEND	
				suppress if set
The filler bits in WBEP_FLAGS are permanently reserved due to complexity of bit manipulation in cobol.				
	.111 1111		*	DO NOT USE
(F)	UNSIGNED	1	WBEP_ACTIVITY	
(10)	CHARACTER	4	WBEP_ABEND_CODE	
(14)	FULLWORD	4	WBEP_MESSAGE_ NUMBER	
(18)	ADDRESS	4	WBEP_MESSAGE_ PTR	
(1C)	FULLWORD	4	WBEP_MESSAGE_ LEN	

Table 754. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	ADDRESS	4	WBEP_RESPONSE_ PTR	
(24)	FULLWORD	4	WBEP_RESPONSE_ LEN	
(28)	UNSIGNED	1	WBEP_CLIENT_ ADDRESS_LEN	
(29)	CHARACTER	15	WBEP_CLIENT_ ADDRESS	
(38)	UNSIGNED	1	WBEP_SERVER_ ADDRESS_LEN	
(39)	CHARACTER	15	WBEP_SERVER_ ADDRESS	
(48)	CHARACTER	8	WBEP_TCPIPSERVICE_ NAME	
(50)	CHARACTER	8	WBEP_CONVERTER_ PROGRAM	
(58)	CHARACTER	8	WBEP_TARGET_ PROGRAM	
(60)	CHARACTER	8	WBEP_FAILING_ PROGRAM	
(68)	FULLWORD	4	WBEP_HTTP_ RESPONSE_CODE	
(6C)	FULLWORD	4	WBEP_ANALYZER_ RESPONSE	
(70)	FULLWORD	4	WBEP_ANALYZER_ REASON	
(74)	FULLWORD	4	WBEP_CONVERTER_ RESPONSE	
(78)	FULLWORD	4	WBEP_CONVERTER_ REASON	
(7C)	CHARACTER	1	WBEP_CLOSE_CONN	
(7D)	CHARACTER	3	*	unused/reserved
(80)	UNSIGNED	1	WBEP_CLIENT_ IPV6_ADDRESS_LEN	
				length next fld
(81)	CHARACTER	39	WBEP_CLIENT_ IPV6_ADDRESS	
				client addr
(A8)	UNSIGNED	1	WBEP_SERVER_ IPV6_ADDRESS_LEN	
				length next fld
(A9)	CHARACTER	39	WBEP_SERVER_ IPV6_ADDRESS	
				server addr
(D0)	CHARACTER	0	*	

Constants

Table 755.

Len	Type	value	Name	Description
\- WBEP Version number \-				
2	DECIMAL	1	WBEP_VERSION_CTS130	
2	DECIMAL	2	WBEP_VERSION_CTS410	
2	DECIMAL	2	WBEP_CURRENT_VERSION	
4	DECIMAL	0	WBEP_ACTIVITY_SERVER	Acting as server
4	DECIMAL	1	WBEP_ACTIVITY_CLIENT	Acting as client
4	DECIMAL	2	WBEP_ACTIVITY_ PIPELINE	
				Acting as pipeline
4	DECIMAL	3	WBEP_ACTIVITY_ ATOMSERVICE	
				Acting as atomservice

WBGDS Web Domain (URIMAP) Global Statistics

```
CONTROL BLOCK NAME = DFHWBGDS
DESCRIPTIVE NAME  = CICS Web Domain (Urimap) Global Statistics
   @BANNER_START 02
                      DFHWBGDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This data area contains the web urimap global statistics
      provided by the Web Domain.
      It is provided for use in users monitoring applications
      to map the statistics returned via the API or the
      statistics global user exit.
      There is a single instance of this data block.
LIFETIME =
      This data block is created by the Web Domain to store
      statistics to be passed to the user in response to a
      for urimap global statistics. The storage is released
      when the user task is detached.
      The DSECT also maps the contents of part of the SMF buffer
      created by the statistics domain and is used in the
      statistics exit.
STORAGE CLASS =
LOCATION =
      The user is passed a pointer to the head of the storage
      block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
 ----------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHWBGDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 756.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHWBGDS	Web Urimap Global stats record
(0)	HALFWORD	2	WBGDS_LEN	Web Urimap stats record length
(2)	ADDRESS	2	WBGDS_ID	Web Urimap stats id
(4)	CHARACTER	1	WBGDS_VERS	Web Urimap stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	WBG_URIMAP_ REFERENCE_COUNT	
				Urimap reference count
(C)	FULLWORD	4	WBG_URIMAP_ MATCH_DISABLED	
				Urimap host/path match disabled
(10)	FULLWORD	4	WBG_URIMAP_ NO_MATCH_COUNT	
				Urimap host/path no match
(14)	FULLWORD	4	WBG_URIMAP_ MATCH_COUNT	
				Urimap host/path match
(18)	FULLWORD	4	WBG_URIMAP_ MATCH_REDIRECT	
				Urimap host/path match redirect
(1C)	FULLWORD	4	WBG_URIMAP_ MATCH_ANALYZER	
				Urimap host/path match analyzer
(20)	FULLWORD	4	WBG_URIMAP_ STATIC_CONTENT	
				Urimap static content
(24)	FULLWORD	4	WBG_URIMAP_ DYNAMIC_CONTENT	
				Urimap dynamic content
(28)	FULLWORD	4	WBG_URIMAP_ PIPELINE_REQS	
				Urimap pipeline requests
(2C)	FULLWORD	4	WBG_URIMAP_ SCHEME_HTTP	
				Urimap scheme(http) requests

Table 756. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(30)	FULLWORD	4	WBG_URIMAP_ SCHEME_HTTPS	
				Urimap scheme(https) requests
(34)	FULLWORD	4		Reserved
(38)	FULLWORD	4	WBG_HOST_ DISABLED_COUNT	
				Host disabled count
(3C)	FULLWORD	4	WBG_URIMAP_ ATOMSERV_REQS	
				Urimap atomservice requests
(40)	BITSTRING	16		Reserved
(50)	BITSTRING	16		Reserved
(50)		0	WBGDS_END	"*"
(50)		0	WBGDS_LENGTH	"*-WBGDS_LEN" Web Urimap Global record length
Constants that denote a WB urimap global stats record				
(50)	SIGNED	0	WBGIDE	"101" Web Urimap global stats id
(50)	BITSTRING	0	WBG_VERS	"X'01'" Record version number

WBRDS Web Domain (URIMAP) Statistics

```
CONTROL BLOCK NAME = DFHWBRDS
DESCRIPTIVE NAME  = CICS Web Domain (Urimap) Statistics
   @BANNER_START 02
                        DFHWBRDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This data area contains the web urimap statistics
      provided by the Web Domain.
      It is provided for use in users monitoring applications
      to map the statistics returned via the API or the
      statistics global user exit.
      There is a single instance of this data block.
LIFETIME =
      This data block is created by the Web Domain to store
      statistics to be passed to the user in response to a
      for urimap statistics. The storage is released when the
      user task is detached.
      The DSECT also maps the contents of part of the SMF buffer
      created by the statistics domain and is used in the
      statistics exit.
STORAGE CLASS =
LOCATION =
      The user is passed a pointer to the head of the storage
      block.
```

```
        INNER CONTROL BLOCKS = None
        NOTES :
            DEPENDENCIES = S/370
            RESTRICTIONS = None
            MODULE TYPE = Control block definition
        ----------------------------------------------------------------
        ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHWBRDS IS
        NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
        PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 757.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHWBRDS	Web Urimap Resid stats record
(0)	HALFWORD	2	WBRDS_LEN	Web Urimap stats record length
(2)	ADDRESS	2	WBRDS_ID	Web Urimap stats id
(4)	CHARACTER	1	WBRDS_VERS	Web Urimap stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	WBR_URIMAP_NAME	Urimap name
(10)	BITSTRING	1	WBR_URIMAP_USAGE	Urimap usage
(11)	BITSTRING	1	WBR_URIMAP_ SCHEME	Urimap scheme
(12)	BITSTRING	1	WBR_URIMAP_ ANALYZER_USE	
				Urimap analyzer program use
(13)	BITSTRING	1	WBR_URIMAP_ REDIRECT_TYPE	
				Urimap redirection type
(14)	BITSTRING	1	WBR_URIMAP_ AUTHENTICATE	
				Urimap authenticate
(15)	BITSTRING	3		Reserved
(18)	BITSTRING	116	WBR_URIMAP_ HOSTNAME	
				Urimap hostname
(8C)	FULLWORD	4	WBR_URIMAP_PORT	Urimap port
(90)	BITSTRING	255	WBR_URIMAP_PATH	Urimap path
(18F)	BITSTRING	1		Reserved
(190)	BITSTRING	48	WBR_URIMAP_ TEMPLATENAME	
				Urimap templatename
(1C0)	BITSTRING	255	WBR_URIMAP_ HFSFILE	Urimap hfsfile
(2BF)	BITSTRING	1		Reserved

Table 757. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C0)	BITSTRING	255	WBR_URIMAP_ LOCATION	
				Urimap location
(3BF)	BITSTRING	1		Reserved
(3C0)	BITSTRING	4		Reserved
(3C4)	CHARACTER	4	WBR_URIMAP_ TRANS_ID	
				Urimap transaction id
(3C8)	CHARACTER	8	WBR_URIMAP_ TCPIPSERVICE	
				Urimap tcpipservice name
(3D0)	CHARACTER	8	WBR_URIMAP_ CONVERTER	
				Urimap converter name
(3D8)	CHARACTER	8	WBR_URIMAP_ PROGRAM_NAME	
				Urimap program name
(3E0)	CHARACTER	32	WBR_URIMAP_ WEBSERVICE	
				Urimap webservice name
(400)	CHARACTER	8	WBR_URIMAP_ PIPELINE	
				Urimap pipeline name
(408)	CHARACTER	8	WBR_URIMAP_ ATOMSERVICE	
				Urimap atomservice name
(410)	FULLWORD	4	WBR_URIMAP_ REFERENCE_COUNT	
				Urimap reference count
(414)	FULLWORD	4	WBR_URIMAP_ MATCH_DISABLED	
				Urimap host/path match disabled
(418)	FULLWORD	4	WBR_URIMAP_ MATCH_REDIRECT	
				Urimap host/path match redirect
(41C)	BITSTRING	4		Reserved

Table 757. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(420)	FULLWORD	4	WBR_URIMAP_ SOCKETCLOSE	
				Timeout value
(424)	FULLWORD	4	WBR_URIMAP_ SOCKPOOLSIZE	
				Curr no. in pool
(428)	FULLWORD	4	WBR_URIMAP_ SOCKPOOLSIZE_PEAK	
				Peak in pool
(42C)	FULLWORD	4	WBR_URIMAP_ SOCKETS_RECLAIMED	
				Reclaimed from the pool
(430)	FULLWORD	4	WBR_URIMAP_ SOCKETS_TIMEDOUT	
				Timedout while in pool
(434)	BITSTRING	12		Reserved
(440)	CHARACTER	39	WBR_URIMAP_ IP_ADDRESS	
				Urimap IP Address
(467)	CHARACTER	1	WBR_URIMAP_ IP_FAMILY	
				Urimap IP Family
(468)	BITSTRING	16		Reserved
(478)	CHARACTER	8	WBR_URIMAP_ DEFINE_SOURCE	
				Group installed from
(480)	BITSTRING	8	WBR_URIMAP_ CHANGE_TIME	
				Change/create time
(488)	CHARACTER	8	WBR_URIMAP_ CHANGE_USERID	
				Change userid
(490)	BITSTRING	2	WBR_URIMAP_ CHANGE_AGENT	
				Change agent
(492)	BITSTRING	2	WBR_URIMAP_ INSTALL_AGENT	
				Install agent
(494)	BITSTRING	8	WBR_URIMAP_ INSTALL_TIME	
				Install/Create time
(49C)	CHARACTER	8	WBR_URIMAP_ INSTALL_USERID	

Table 757. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Install userid
(49C)		0	WBRDS_END	"*"
(49C)		0	WBRDS_LENGTH	"*-WBRDS_LEN" Web Urimap record length
Constants that denote a WB urimap stats record				
(49C)	SIGNED	0	WBRIDR	"104" Web Urimap resid stats id
(49C)	BITSTRING	0	WBR_VERS	"X'01'" Record version number
(49C)	BITSTRING	0	WBR_USAGE_SERVER	"X'01'" Urimap usage - Server
(49C)	BITSTRING	0	WBR_USAGE_CLIENT	"X'02'" Urimap usage - Client
(49C)	BITSTRING	0	WBR_USAGE_ PIPELINE	"X'03'" Urimap usage - Pipeline
(49C)	BITSTRING	0	WBR_USAGE_ATOM	"X'04'" Urimap usage - Atom
(49C)	BITSTRING	0	WBR_SCHEME_HTTP	"X'01'" Urimap scheme - HTTP
(49C)	BITSTRING	0	WBR_SCHEME_HTTPS	"X'02'" Urimap scheme - HTTPS
(49C)	BITSTRING	0	WBR_ANALYZER_NO	"X'01'" Urimap Analyzer use - No
(49C)	BITSTRING	0	WBR_ANALYZER_YES	"X'02'" Urimap Analyzer use - Yes
(49C)	BITSTRING	0	WBR_REDIRECTION_ NONE	
				"X'01'" Urimap Redirection type - None
(49C)	BITSTRING	0	WBR_REDIRECTION_ TEMP	
				"X'02'" Urimap Redirection type - Temporary
(49C)	BITSTRING	0	WBR_REDIRECTION_ PERM	
				"X'03'" Urimap Redirection type - Permanent
	....		WBR_AUTHENTICATE_ NONE	
				"X'00'" Urimap Authenticate - None
(49C)	BITSTRING	0	WBR_AUTHENTICATE_ BASIC	

Table 757. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				"X'01'" Urimap Authenticate - Basic
	....		WBR_IP_ FAMILY_UNKNOWN	
				"X'00'" Urimap IP family = Unknown
(49C)	BITSTRING	0	WBR_IP_ FAMILY_IPV4	"X'01'" Urimap IP family = IPv4
(49C)	BITSTRING	0	WBR_IP_ FAMILY_IPV6	"X'02'" Urimap IP family = IPv6 Change Agents
(49C)	SIGNED	0	WBR_CSDAPI_ CHANGE	"0001" CSD API
(49C)	SIGNED	0	WBR_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(49C)	SIGNED	0	WBR_DREPAPI_ CHANGE	"0003" DREP API
(49C)	SIGNED	0	WBR_CREATE_ CHANGE	"0004" EXEC CREATE SPI
(49C)	SIGNED	0	WBR_DYNAMIC_ CHANGE	"0008" DYNAMIC Install Agents
(49C)	SIGNED	0	WBR_CSDAPI_ INSTALL	"0001" CSD API
(49C)	SIGNED	0	WBR_CREATE_ INSTALL	"0004" EXEC CREATE SPI
(49C)	SIGNED	0	WBR_GRPLIST_ INSTALL	
				"0005" GRPLIST
(49C)	SIGNED	0	WBR_DYNAMIC_ INSTALL	
				"0008" DYNAMIC
(49C)	SIGNED	0	WBR_BUNDLE_ INSTALL	"0009" BUNDLE

WBTDC Web Interface Analyzer Parms *MCA

```
!:refstep.dfhwburp_analyzer_interface -------------- DFHWBURP 1017 -
!
!
! These declarations define the parameter list which
! is passed to the ANALYZER program by the server controller
! component on an EXEC CICS LINK.
!
! < Variable >
! Meaning
!
! < wbra_eyecatcher >
! A character field to contain an eyecatcher
! to help with diagnostics and provide a sanity check for
```

```
! the analyzer. Server Controller sets this to the value of
! constant
! WBRA_EYECATCHER_INIT before calling the analyzer.
!
! < wbra_response > (output)
! The fullword response value produced by the analyzer.
! Possible values are:
!
! - URP_OK
! - URP_EXCEPTION
! - URP_INVALID
! - URP_DISASTER
!
! < wbra_reason > (output)
! The fullword reason value returned by the analyzer for response
! values other than OK. No reason values are architected for
! the analyzer in the CICS Web Browser Interface.
! Users may define their own values.
!
! < wbra_server_program > (input output)
!
! The CICS program to be used for this HTTP request.
!
! < wbra_converter_program > (input output)
!
! The converter to be used for this HTTP request.
!
! < wbra_userid > (input output)
!
! The userid which is to be used on the EXEC CICS START for the
! alias transaction for this HTTP request.
!
! < wbra_alias_tranid > (input output)
!
! The alias transaction ID to be used for this HTTP request.
!
! < wbra_alias_termid > (output)
! The termid to be used on the START request for the alias.
!
! < wbra_user_token > (output)
! A char(8) token which uniquely identifies the HTTP request being
! processed.
!
! < wbra_dfhcnv_key > (output)
! A char(8) name to be used as the key into the DFHCNV table for
! the
! codepage translation of the user data for this request.
!
! < wbra_version > (input)
!
! A single-character parameter-list version identifier.
! It will change whenever the layout of the parameter list changes.
! Possible values:
! Binary zero (X'00') -- pre-CICS/TS4.1 version parameter list
! Character one (X'F1') -- CICS/TS4.1 version parameter list
!
! < wbra_client_ip_address > (input)
! The TCP/IP address of the client.
!
! < wbra_server_ip_address > (input)
! The TCP/IP address of the CICS system.
!
! < wbra_resource_escaped_ptr > (input)
!
! Pointer to a copy of the HTTP headers which have not been
! unescaped
!
```

```
! < wbra_method_ptr > (input)
! Pointer to the method specified on the HTTP request sent by the
! client.
!
! < wbra_http_version_ptr > (input)
! Pointer to a string identifying the HTTP version supported by the
! client.
!
! < wbra_http_resource_ptr > (input)
! Pointer to the CICS resource requested by the client. In HTTP
! protocol
! terminology, this is the "absolute path" information in the HTTP
! request. Because CICS does not have any concept of "paths" or
! the hierarchical file systems on which paths rely, we have
! elected
! to use a term more appropriate to CICS in our documentation.
!
! < wbra_request_header_ptr > (input)
! Pointer to the first HTTP header in the HTTP request. There are
! usually multiple HTTP headers for each HTTP request. Each header
! is delimited by a CR+LF. The end of the header information is
! delimited by a null header (that is, an additional CR+LF
! following
! final HTTP header).
!
! < wbra_user_data_ptr > (input)
! Pointer to the user data section of the input data. For a
! non-HTTP
! request this will point to the start of the received data.
!
! < wbra_method_length > (input)
! Length of the method specified on the HTTP request sent by the
! client.
!
! < wbra_http_version_length > (input)
! Length of the string identifying the
! version of HTTP supported by the client.
!
! < wbra_http_resource_length > (input)
! Length of the string containing the
! HTTP header information for this HTTP request.
!
! < wbra_request_header_length > (input)
! Length of the string identifying the
! CICS resource requested by supported by the client.
! This length includes the lengths of all the delimiting CR+LFs
! for all the headers, including the final CR+LF of the null header
! which signals the end of the headers.
!
! < wbra_user_data_length > (input output)
!
! Length of the user data section of the input data. For a non-HTTP
! request this will be the length of the entire received block.
!
! < wbra_old_request_type > (input)
!
! A value indicating whether the request to be analyzed is HTTP
!
! or non-HTTP(note that this parameter has been relocated to
!
! the end of the parameter list. This is because it was
!
! defined as bin(8) which when converted for the PL/1
!
! version of the commarea caused misalignment.
!
!
```

```
! < wbra_unescape > (output)
!
! A value indicating whether the user forms data is to be unescaped
! by CICS.
!
!
! < wbra_content_length > (input)
!
! Length of the user data section of the input data as
!
! specified in the <Content-Lenth> HTTP header.
!
!
! < wbra_urimap > (input)
!
! The URIMAP associated with the request.
!
! < wbra_commarea > (output)
!
! A flag indicating that the server application is commarea style
!
! and we should therefore process as for HTTP/1.0
!
! Not setting this bit causes the default setting to apply - the
!
! application will be assumed to be WEB API style.
!
!
! < wbra_characterset > (output)
!
! The IANA character set to be used during data convertion.
!
! < wbra_hostcodepage > (output)
!
! The host IBM codepage to be used during data convertion.
!
! < wbra_hostname_ptr > (input)
! Pointer to the hostname on the HTTP request sent by the
! client. This will have been taken from the URI if it is
! absolute or from the host header if not.
!
! < wbra_querystring_ptr > (input)
! Pointer to the querystring (if any) on the HTTP request
! sent by the client.
!
! < wbra_hostname_length > (input)
! Length of the hostname.
!
! < wbra_querystring_length > (input)
! Length of the querystring.
!
!
! < wbra_request_type > (input)
!
! A value indicating whether the request to be analyzed is
!
! HTTP or non-HTTP.
!
!
! < wbra_client_ipv6_address > (input)
!
! The TCP/IP address of the client. If the client is ipv4 then a
! mapped formated of the ipv4 address will be available here.
!
! < wbra_server_ipv6_address > (input)
!
! The TCP/IP address of the CICS system. If the server is ipv4 then
```

```
          ! a
          ! mapped formatted of the ipv4 address wiil be available here.
          !
          !----------------------------------------------------------------
          !:refstep.dfhwburp_dfhcommarea --------------------- DFHWBURP 669 -
          !
          ! The top level definition for dfhcommarea.
          !
          !----------------------------------------------------------------
```

Table 758.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	DFHCOMMAREA	
(0)	CHARACTER	*	COMM_PARMLIST	

```
          !:erefstep.dfhwburp_  dfhcommarea --------------------------------------
```

Table 759.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	224	WBRA_PARMS	
(0)	CHARACTER	8	WBRA_EYECATCHER	Constant
(8)	UNSIGNED	4	WBRA_FUNCTION	Input
(C)	UNSIGNED	4	WBRA_RESPONSE	Output
(10)	UNSIGNED	4	WBRA_REASON	Output
(14)	CHARACTER	8	WBRA_SERVER_ PROGRAM	
				In|Output
(1C)	CHARACTER	8	WBRA_CONVERTER_ PROGRAM	
				In|Output
(24)	CHARACTER	8	WBRA_USERID	In|Output
(2C)	CHARACTER	4	WBRA_ALIAS_ TRANID	In|Output
(30)	CHARACTER	4	WBRA_ALIAS_ TERMID	Output
(34)	CHARACTER	8	WBRA_USER_TOKEN	Output
(3C)	CHARACTER	8	WBRA_DFHCNV_KEY	Output
(44)	UNSIGNED	4	WBRA_CLIENT_ IP_ADDRESS	
				Input
(48)	UNSIGNED	4	WBRA_SERVER_ IP_ADDRESS	
				Input
(4C)	ADDRESS	4	WBRA_RESOURCE_ ESCAPED_PTR	
				Input
(50)	ADDRESS	4	WBRA_METHOD_PTR	Input
(54)	ADDRESS	4	WBRA_HTTP_ VERSION_PTR	

Table 759. (continued)

Offset Hex	Type	Len	Name (dim)	Description
				Input
(58)	ADDRESS	4	WBRA_RESOURCE_ PTR	Input
(5C)	ADDRESS	4	WBRA_REQUEST_ HEADER_PTR	
				Input
(60)	ADDRESS	4	WBRA_USER_ DATA_PTR	Input
(64)	HALFWORD	2	WBRA_METHOD_ LENGTH	Input
(66)	HALFWORD	2	WBRA_HTTP_ VERSION_LENGTH	
				Input
(68)	HALFWORD	2	WBRA_RESOURCE_ LENGTH	
				Input
(6A)	HALFWORD	2	WBRA_REQUEST_ HEADER_LENGTH	
				Input
(6C)	HALFWORD	2	WBRA_USER_ DATA_LENGTH	
				In|Output
(6E)	CHARACTER	1	WBRA_OLD_ REQUEST_TYPE	
				Input
(6F)	CHARACTER	1	WBRA_UNESCAPE	
(70)	UNSIGNED	4	WBRA_CONTENT_ LENGTH	
				Input
(74)	CHARACTER	8	WBRA_URIMAP	Input
(7C)	BIT(8)	1	WBRA_APPLICATION_ STYLE	
				Output
	1...		WBRA_COMMAREA	Output
	.111 1111		*	Reserved
(7D)	CHARACTER	40	WBRA_CHARACTERSET	Output
(A5)	CHARACTER	10	WBRA_HOSTCODEPAGE	Input
(AF)	CHARACTER	1	WBRA_VERSION	Input
(B0)	ADDRESS	4	WBRA_HOSTNAME_ PTR	Input
(B4)	ADDRESS	4	WBRA_QUERYSTRING_ PTR	
				Input

Table 759. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B8)	HALFWORD	2	WBRA_HOSTNAME_ LENGTH	
				Input
(BA)	HALFWORD	2	WBRA_QUERYSTRING_ LENGTH	
				Input
(BC)	HALFWORD	2	WBRA_REQUEST_ TYPE	Input
(BE)	CHARACTER	2	*	Unused(align)
(C0)	CHARACTER	16	WBRA_CLIENT_ IPV6_ADDRESS	
				Input
(C0)	CHARACTER	12	WBRA_CLIENT_ IPV6_IP6PFX	
				Input
(CC)	CHARACTER	4	WBRA_CLIENT_ IPV6_IPADDR4	
				Input
(D0)	CHARACTER	16	WBRA_SERVER_ IPV6_ADDRESS	
				Input
(D0)	CHARACTER	12	WBRA_SERVER_ IPV6_IP6PFX	
				Input
(DC)	CHARACTER	4	WBRA_SERVER_ IPV6_IPADDR4	
				Input
(E0)	CHARACTER	0	*	End of struct

WBTLC Web Interface Template Manager *MCA

Table 760.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	56	DFHWBTL_ARG	
(0)	UNSIGNED	2	WBTL_VERSION_NO	
(2)	HALFWORD	2	WBTL_FUNCTION	
(4)	HALFWORD	2	WBTL_RESPONSE	
(6)	HALFWORD	2	WBTL_REASON	
(8)	CHARACTER	8	WBTL_CONNECT_ TOKEN	
(10)	CHARACTER	8	WBTL_TEMPLATE_ NAME	

Table 760. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	CHARACTER	8	WBTL_TEMPLATE_ ABSTIME	
(20)	ADDRESS	4	WBTL_TEMPLATE_ BUFFER_PTR	
(24)	FULLWORD	4	WBTL_TEMPLATE_ BUFFER_LEN	
(28)	ADDRESS	4	WBTL_SYMBOL_ LIST_PTR	
(2C)	FULLWORD	4	WBTL_SYMBOL_ LIST_LEN	
(30)	ADDRESS	4	WBTL_HTML_ BUFFER_PTR	
(34)	FULLWORD	4	WBTL_HTML_ BUFFER_LEN	
(38)	CHARACTER	0	*	

Constants

Table 761.

Len	Type	value	Name	Description
!:refstep.dfhwbtl_interface ------------------------ DFHWBURP 1284 - ! ! ! This is the parameter list for the CICS Web Interface Template ! Manager, DFHWBTL. ! !--- !:refstep.wbtl_functions --------------------------- DFHWBURP 1294 - ! ! The Template Manager supports the following functions: ! ! BUILD_HTML_PAGE ! This function builds a whole HTML page from a specified ! template, using optional symbol substitution. This function is a ! composite of all the other HTML building functions of this ! module. ! START_HTML_PAGE ! This function initializes an environment for the ! ADD_HTML_TEMPLATE function, and optionally builds an symbol ! table from the list supplied in the parameter SYMBOL_LIST. It ! returns a token in CONNECT_TOKEN that represents the created ! environment. ! ADD_HTML_SYMBOLS ! This function adds further symbols to the symbol table created ! by START_HTML_PAGE. The names of the symbols are case-sensitive. ! If a symbol is added with the same name as one that is already ! defined, the new symbol definition replaces the old one. ! READ_HTML_TEMPLATE ! This function reads a named HTML template into main storage. If ! the template named in WBTL_TEMPLATE_NAME exists as a member of ! the partitioned dataset allocated to the DFHHTML data definition ! statement, it is read into main storage. The address and length ! of the storage containing the buffer are returned in ! WBTL_TEMPLATE_BUFFER_PTR and WBTL_TEMPLATE_BUFFER_LEN, and the ! template name is cleared to binary zeroes. ! ADD_HTML_TEMPLATE ! This function interprets an HTML template by substituting into ! it the current values of the symbols. ! END_HTML_PAGE ! This function destroys the environment created by the ! START_HTML_PAGE function, and releases any storage acquired by ! earlier functions in the sequence. ! !---				
2	DECIMAL	1	WBTL_BUILD_HTML_PAGE	
2	DECIMAL	2	WBTL_START_HTML_PAGE	
2	DECIMAL	3	WBTL_ADD_ HTML_SYMBOLS	
2	DECIMAL	4	WBTL_READ_ HTML_TEMPLATE	
2	DECIMAL	5	WBTL_ADD_ HTML_TEMPLATE	
2	DECIMAL	6	WBTL_END_HTML_PAGE	

Table 761. (continued)

Len	Type	value	Name	Description
!:erefstep.wbtl_parameters -- !:refstep.wbtl_constants -------------------------- DFHWBURP 1346 - ! ! The following is the value that should be specified in ! WBTL_VERSION_NO to show the level at which the calling module was ! compiled. ! !---				
2	DECIMAL	0	WBTL_CURRENT_VERSION	
2	DECIMAL	56	WBTL_PARAMETER_LEN	
!:erefstep.wbtl_constants -- !:refstep.wbtl_responses -------------------------- DFHWBURP 1338 - ! ! The following are the possible responses from the DFHWBTL program. ! !---				
2	DECIMAL	0	WBTL_OK	
2	DECIMAL	4	WBTL_EXCEPTION	
2	DECIMAL	8	WBTL_INVALID	
2	DECIMAL	12	WBTL_DISASTER	
!:erefstep.wbtl_responses -- !:refstep.wbtl_reasons --------------------------- DFHWBURP 1354 - ! ! The following are the possible responses from the DFHWBTL program, ! if the returned reason is not OK. ! !---				
2	DECIMAL	1	WBTL_INVALID_ FUNCTION	
2	DECIMAL	2	WBTL_INVALID_TOKEN	
2	DECIMAL	3	WBTL_INVALID_ SYMBOL_LIST	
2	DECIMAL	4	WBTL_INVALID_ BUFFER_PTR	
2	DECIMAL	5	WBTL_FEATURE_ INACTIVE	
2	DECIMAL	6	WBTL_TEMPLATE_ NOT_FOUND	
2	DECIMAL	7	WBTL_TEMPLATE_ TRUNCATED	
2	DECIMAL	8	WBTL_PAGE_TRUNCATED	
2	DECIMAL	9	WBTL_GETMAIN_ERROR	
2	DECIMAL	10	WBTL_FREEMAIN_ERROR	
2	DECIMAL	11	WBTL_INVALID_VERSION	

WCG XRF Global control block

```
                    CONTROL BLOCK NAME = DFHWCGPS
                    DESCRIPTIVE NAME  = CICS (XRF) Global Control Block
                     @BANNER_START 02

                                       DFHWCGPS
                     Licensed Materials - Property of IBM
                     "Restricted Materials of IBM"
                     5655-S97
                     @BANNER_END
                    FUNCTION =
                         XRF surveillance/state managament mechanism analogue of
                         the CICS CSA. A single instance of this block is created
                         at XRF SIGNON.
                    LIFETIME =
                         Created by XRF SIGNON and destroyed by SIGNOFF (NORMAL)
                    STORAGE CLASS =
                         Non-CICS storage. In MVS subpool 0 storage above 16M line.
                    LOCATION =
                         Located either via WCSGLBLA in the XRF Static storage
                         (DFHWCSPS) addressed by SSZXRF in the SSA, or via
                         WXBGLBLA in the XRF process block in the case of
                         code running as an XRF process.
                    INNER CONTROL BLOCKS =
                         None.
                    NOTES :
                     DEPENDENCIES = S/370
                     RESTRICTIONS =
                          None.
                     MODULE TYPE = Control block definition
                    ------------------------------------------------------------------
                    EXTERNAL REFERENCES =
                          None
                      DATA AREAS =
                          None
                      CONTROL BLOCKS =
                          None
                      GLOBAL VARIABLES (Macro pass) =
                          None

                    ------------------------------------------------------------------
```

Table 762.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	144	DFHWCGPS	CAVM Global Control Block
(0)	CHARACTER	8	WCGIDENT	Eye Catcher XRF-GLBL
(8)	ADDRESS	4	WCGSTATA	CAVM Static Area address
(C)	ADDRESS	4	WCGCKDA	Pointer to TOD Clock Difference Data (BACKUP systems only)
(10)	ADDRESS	4	WCGNTA	Entry table for routines above 16M line.
(14)	ADDRESS	4	WCGXRFNT	Entry table for routines below 16M line (copy of CSAXRFNT in CSAOPFL).

Table 762. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	ADDRESS	4	WCGDA	Process Management data
(1C)	ADDRESS	4	WCGFA	Status and State file data
(20)	ADDRESS	4	WCGMA	Message data
(24)	ADDRESS	4	WCGTRA	Trace control area
(28)	ADDRESS	4	WCGLFA	LIFO work area
(2C)	ADDRESS	4	WCGSA	Status control area
(30)	ADDRESS	4	WCGSXA	Surveillance exits control area
(34)	CHARACTER	8	WCGSAPPL	System's Specific APPLID
(3C)	CHARACTER	84	WCGCS	Common services area
(3C)	CHARACTER	72	WCGCSSVA	Common services save area
(84)	CHARACTER	12	WCGCSPRM	Common services parameter area.
(90)	CHARACTER	0	WCGEND	

```
                        Entry Table.
          This is the definition of the list of entry points to XRF
                 modules located above the 16M line.
```

Table 763.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	WCGENTAB	
(0)	ADDRESS	4	WCGELGET	Entry to DFHWLGET
(4)	ADDRESS	4	WCGELFRE	DFHWLFRE
(8)	ADDRESS	4	WCGEDATT	DFHWDATT
(C)	ADDRESS	4	WCGEDWAT	DFHWDWAT
(10)	ADDRESS	4	WCGEMS20	DFHWMS20
(14)	ADDRESS	4	WCGETRP	DFHWTRP
(18)	ADDRESS	4	WCGEDISP	DFHWDISP
(1C)	ADDRESS	4	WCGECCS	DFHWCCS

```
                    Common service Interface
          This defines the parameter area to be passed to the Common
          Services routine DFHWCCS.
```

Table 764.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	DFHWCIPS	XRF Common Services parameter block
(0)	FULLWORD	4	WCIPID	Request Identifier

Table 764. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	ADDRESS	4	WCIPSA	Storage area address
(4)	ADDRESS	4	WCIPECBA	Address of ECB
(4)	ADDRESS	4	WCIPMSGA	Address of message
(4)	ADDRESS	4	WCIPXPBA	Address of XPB
(8)	FULLWORD	4	WCIPSL	Storage area length
(8)	FULLWORD	4	WCIPCOMP	POST completion code
(8)	ADDRESS	4	WCIPSVA	Address of Save area
(8)	FULLWORD	4	WCIPABCD	ABEND code
(8)	BIT(8)	1	WCIPDOPT	Dump options
(9)	BIT(12)	2	WCIPSABC	System ABEND code
(A)	BIT(12) POS(5)	2	WCIPUABC	User ABEND code

Table 765.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	*	XRF Common Services parameter block
(0)	FULLWORD	4	*	Request Identifier
(4)	CHARACTER	8	WCIPCHAR	Character result
(4)	CHARACTER	4	WCIPHEX	Hex source

Constants

Table 766.

Len	Type	value	Name	Description
Request IDs (values for WCIPID)				
4	DECIMAL	0	WCIINTER	Internal error detected
4	DECIMAL	1	WCIGETM	MVS GETMAIN for subpool 0 storage above 16M line.
4	DECIMAL	2	WCIFREEM	MVS FREEMAIN
4	DECIMAL	3	WCIPOST	MVS Hand POST
4	DECIMAL	4	WCIXCONV	Convert hex to character
4	DECIMAL	5	WCIBLDPC	Build XPB for CICS TCB
4	DECIMAL	6	WCIBLDPX	Build XPB for XRF TCB
4	DECIMAL	7	WCIMSGAB	Message/ABEND

WCS XRF CAVM static control block

```
CONTROL BLOCK NAME = DFHWCSDS
DESCRIPTIVE NAME  = CICS (XRF) - CAVM Static Control Block
   @BANNER_START 02

                          DFHWCSDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
       The CAVM Static Control Block provides a common anchor to
       enable CAVM State Management and Message Management
       functions to be invoked from code running in a CICS
       environment. It resides below the 16M line and includes
       the few items of CAVM data referenced by AMODE 24 routines.
       Each XRF system contains a single CAVM Static Control Block.
LIFETIME =
       The CAVM Static Control Block is created by DFHWSSN1 at
       the beginning of SIGNON and destroyed by DFHWSRTR at the
       end of SIGNOFF.
STORAGE CLASS =
       Non-CICS storage. In MVS subpool 0 below 16M line.
LOCATION =
       Fields SSAXRF in the CICS SSA (DFHSSADS) and WCGSTATA in
       the CAVM Global Control Block (DFHWCGDS) both contain a
       pointer to the CAVM Static Control Block.
INNER CONTROL BLOCKS =
       None.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS =
        None.
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
       None.
    DATA AREAS =
       None.
    CONTROL BLOCKS =
       None.
    GLOBAL VARIABLES (Macro pass) =
       None.
-------------------------------------------------------------------
```

Table 767.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHWCSDS	CAVM Static Control Block
(0)	CHARACTER	8	WCSIDENT	Eye Catcher XRF-STAT
(8)	ADDRESS	4	WCSGLBLA	Pointer to CAVM Global Control Block
(C)	ADDRESS	4	WCSXTCBP	Pointer to CAVM TCB
(10)	ADDRESS	4	WCSETECB	End of task ECB for CAVM TCB
(14)	BITSTRING	1	WCSSMRST	State Management record status

Table 767. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	....		WCSSSOFN	"0" Signed off normally or did not sign on (must be zero)
(14)	SIGNED	0	WCSSSON	"1" Signed on
(14)	SIGNED	0	WCSSSOFA	"2" Signed off abnormally
(14)	BITSTRING	0	WCSSSNIP	"X'81'" SIGNON in progress
(14)	BITSTRING	0	WCSSSFIP	"X'FF'" SIGNOFF in progress
(15)	BITSTRING	1	WCSCSAVM	CAVM Services available mask
(15)	BITSTRING	0	WCSSMMAV	"X'80'" State and message management services are available
(15)	BITSTRING	0	WCSPUTAV	"X'40'" Message management PUT is available
(16)	HALFWORD	2	WCSSOFML	Length of TAKEOVER message for ACTIVE job if it signs off during TAKEOVER
(18)	ADDRESS	4	WCSSOFMP	Pointer to TAKEOVER message for ACTIVE job
(1C)	ADDRESS	4	WCSTCECB	TAKEOVER response or SIGNON ECB
(20)	ADDRESS	4	WCSTXECB	TAKEOVER request ECB
(24)	ADDRESS	4	WCSTKVPP	Pointer to TAKEOVER parameter area
(28)	HALFWORD	2	WCSRESP (0)	
(28)	SIGNED	1		Response code for CAVM request
(29)	SIGNED	1	WCSREASC	Reason code for CAVM request
(2A)	BITSTRING	1	WCSTKRID	TAKEOVER request ID
(2B)	CHARACTER	1	WCSSOFCD	SIGNOFF code (normal or abnormal)
(2B)	CHARACTER	0	WCSRSOFA	"C'A'" Request for SIGNOFF ABNORMAL
(2B)	CHARACTER	0	WCSRSOFN	"C'N'" Request for SIGNOFF NORMAL

Table 767. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	ADDRESS	4		Reserved
(30)	ADDRESS	4	WCSACSVC	Pointer to CSVC's SVC instruction in the CICS CSA
(30)		0	WCSL	"*-DFHWCSDS"

Table 768.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WCSENTAB	Entry point table for code below 16M
(0)	ADDRESS	4	WCSEMS	Message management services EPA
(4)	ADDRESS	4		Not used
(8)	ADDRESS	4		Not used

WDG XRF Process block

```
CONTROL BLOCK NAME = DFHWDGPS
DESCRIPTIVE NAME  = CICS (XRF) Process Block
 @BANNER_START 02
                      DFHWDGPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     XRF process dispatcher control area.
     There is a single instance of this control block in
     a CICS system which has successfully signed on to XRF.
     It contains state information for the XRF process
     dispatcher such as the currently dispatched process,
     head and tail of the chain of extant processes etc..
LIFETIME =
     Created by INIT_ATTACH (DFHWDINA) and destroyed when
     XRF TCB terminates.
STORAGE CLASS =
     Non-CICS storage. MVS subpool 0 storage above 16M line.
LOCATION =
     Address is in WCGDA in XRF Global area DFHWCGPS.
INNER CONTROL BLOCKS =
     WDGP
     Definition of internal dispatcher parameter block format.
     WDGLOCKH
     Lock hierarchy table (set up by DFHWDINA).
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
       None
 MODULE TYPE = Control block definition
 ------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
       None
   CONTROL BLOCKS =
       None
   GLOBAL VARIABLES (Macro pass) =
```

```
                None
     ----------------------------------------------------------------
     Fixed part of Dispatcher Global Area (in XRF Global area)
```

Table 769.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	120	DFHWDGPS	Addressed from WS Global
(0)	CHARACTER	64	WDGEXTNL	This substructure contains data which are maintained across dispatcher calls
(0)	ADDRESS	4	WDGFXPB	First process in dispatch chain.
(4)	ADDRESS	4	WDGLXPB	Last process in dispatch chain.
(8)	ADDRESS	4	WDGCXPB	Currently dispatched process.
(C)	ADDRESS	4	WDGIAR13	Save slot for Reg 13 of issuer of INIT_ATTACH
(10)	ADDRESS	4	WDGESTA	ESTAE PARAM area
(14)	ADDRESS	4	WDGESPA	ESPIE PARAM area
(18)	ADDRESS	4	* (4294967298:130363672)	Reserved
(20)	BIT(32)	4	WDGGLKSM	Granted locks mask
(24)	HALFWORD	2	WDGXPBNO	Last allocated process id
(26)	HALFWORD	2	*	Reserved
(28)	CHARACTER	24	WDGXPB	Space for the base part of a dummy XPB used by the dispatcher for tracing
(40)	CHARACTER	56	WDGLOCAL	This substructure contains data which are local to a single dispatcher call
(40)	BIT(32)	4	WDGLKACC	Lock table work area used by DFHWDINA.
(40)	BIT(32)	4	WDGLKTMP	Lock temporary used by DFHWDWAT.
(44)	HALFWORD	2	*	Reserved
(46)	HALFWORD	2	WDGWLL	Number items in WAIT list
(46)	HALFWORD	2	WDGLKI	Lock level counter
(48)	ADDRESS	4	WDGWL (4294967308:130363392)	WAIT List
(78)	CHARACTER	0	WDGEND	End of fixed part of area

```
     Dispatcher internal parameter block.
```

Table 770.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	WDGP	
(0)	FULLWORD	4	WDGPID	Request identifier
(4)	ADDRESS	4	WDGPEPRM	ESPIE/ESTAE parameter
(4)	ADDRESS	4	WDGPEDA	Error data - SDWA or EPIE
(8)	ADDRESS	4	WDGPSRPA	SRP Area address
(8)	ADDRESS	4	WDGPIDA	ATTACH initial data
(8)	ADDRESS	4	WDGPNPSW	New IA for retry PSW

Constants

Table 771.

Len	Type	value	Name	Description
Request IDs (values for WDGPID).				
4	DECIMAL	0	WDGPSINT	Initialize DFHWDSRP
4	DECIMAL	1	WDGPSTRM	Terminate DFHWDSRP
4	DECIMAL	2	WDGPSESP	ESPIE
4	DECIMAL	3	WDGPSEST	ESTAE
Lock and event record values				
4	HEX	00000000	WDGNOEVS	All events set OFF
4	HEX	FFFFFFFF	WDGALEVS	All events set ON
4	HEX	00000000	WDGNOLKS	All locks set OFF
4	HEX	FFFFFFFF	WDGALLKS	All locks set ON

WDI XRF Dispatcher interface

```
CONTROL BLOCK NAME = DFHWDSPS
DESCRIPTIVE NAME  = CICS (XRF) Dispatcher interface
                        block definitions.
 @BANNER_START 02

                       DFHWDSPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
    Defines interface to XRF dispatcher for ATTACH and WAIT.
    Caller provides storage for an instance of the interface
    block and sets parameters as required.
LIFETIME =
    Duration of XRF dispatcher call.
STORAGE CLASS =
    Caller's choice. Usually above 16M line.
LOCATION =
    Passed to dispatcher as address in R1.
INNER CONTROL BLOCKS =
    None
```

```
      NOTES :
       DEPENDENCIES = S/370
       RESTRICTIONS =
             None
       MODULE TYPE = Control block definition
     -----------------------------------------------------------------
      EXTERNAL REFERENCES =
        DATA AREAS =
             None
         CONTROL BLOCKS =
             None
         GLOBAL VARIABLES (Macro pass) =
             None
     -----------------------------------------------------------------
       ATTACH Request Parameter Block
```

Table 772.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	28	DFHWDIPS	Addressed from WS Global
(0)	ADDRESS	4	WDIGA	WS Global address (for INITIAL_ATTACH call only)
(4)	ADDRESS	4	WDIEPA	Process entry address
(8)	ADDRESS	4	WDIIDA	Initial data address
(C)	ADDRESS	4	WDIESPIE	ESPIE exit addr.
(10)	ADDRESS	4	WDIESPDA	ESPIE parameter.
(14)	ADDRESS	4	WDIESTAE	ESTAE exit addr.
(18)	ADDRESS	4	WDIESTDA	ESTAE parameter.
(1C)	CHARACTER	0	WDIEND	

```
                 WAIT Request Parameter Block
```

Table 773.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	DFHWDSPS	Addressed from WS Global
(0)	ADDRESS	4	WDSTYPE	Reserved - must be zero
(4)	ADDRESS	4	WDSEECBA	External event address
(8)	ADDRESS	4	WDSIECBA	Internal event address
(C)	BIT(32)	4	WDSWEVM	Awaited broadcast events
(10)	BIT(32)	4	WDSPEVM	Events to be broadcast
(14)	BIT(32)	4	WDSREVM	Broadcast events to reset for this process.
(18)	BIT(32)	4	WDSFLKM	Locks to be freed
(1C)	BIT(32)	4	WDSGLKM	Locks to be acquired
(20)	CHARACTER	0	WDSEND	

Constants

Table 774.

Len	Type	value	Name	Description
	Broadcast event numbers			
4	DECIMAL	1	WDSBTICK	Timer cycle
4	DECIMAL	2	WDSBCHNG	Some change in partner status other than ones with specific events.
4	DECIMAL	3	WDSBSON	Partner has signed on
4	DECIMAL	4	WDSBSOF	Partner has signed off
4	DECIMAL	5	WDSBRSV1	No longer used - reserved
4	DECIMAL	6	WDSBBPSA	BACKUP public status now available.
4	DECIMAL	7	WDSBFASA	Final ACTIVE public status now available (during TAKEOVER)
4	DECIMAL	8	WDSBPRST	Please read ACTIVE's latest status
4	DECIMAL	9	WDSBSSR	Start Status Reader processes
4	DECIMAL	25	WDSBPWC1	Primary write complete - odd cycle.
4	DECIMAL	26	WDSBPWE1	Primary write completed with error - odd cycle.
4	DECIMAL	27	WDSBPWC2	Primary write complete - even cycle.
4	DECIMAL	28	WDSBPWE2	Primary write completed with error - even cycle.
4	DECIMAL	29	WDSBSWC1	Secondary write complete - odd cycle.
4	DECIMAL	30	WDSBSWE1	Secondary write completed with error - odd cycle.
4	DECIMAL	31	WDSBSWC2	Secondary write complete - even cycle.
4	DECIMAL	32	WDSBSWE2	Secondary write completed with error - even cycle.
	Lock numbers			
4	DECIMAL	1	WDSLPSTW	Primary status write lock
4	DECIMAL	2	WDSLSSTW	Secondary status write lock

WFG XRF CAVM file control block

```
CONTROL BLOCK NAME = DFHWFGDS
DESCRIPTIVE NAME  = CICS (XRF) - CAVM File Control Block
   @BANNER_START 02

                        DFHWFGDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
       The CAVM File Control Block contains data relating to the
       CAVM Control data set and Message data set such as ACB
       pointers, CI size, RBAs of certain records and a pointer
       to the RESERVE parameter list used to serialise accesses to
       the Control data set during SIGNON, SIGNOFF and TAKEOVER.
       Each XRF system contains a single CAVM File Control Block.
LIFETIME =
       The CAVM File Control Block is created by DFHWSSN3 during
       CAVM SIGNON.
STORAGE CLASS =
       Non-CICS storage. MVS subpool 0 above 16M line.
LOCATION =
       Field WCGFA in the CAVM Global Control Block (DFHWCGDS)
       contains a pointer to the CAVM File Control Block.
INNER CONTROL BLOCKS =
       None.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS =
         None.
   MODULE TYPE = Control block definition
 ------------------------------------------------------------------
EXTERNAL REFERENCES =
       None.
   DATA AREAS =
       None.
   CONTROL BLOCKS =
       None.
   GLOBAL VARIABLES (Macro pass) =
       None.
 ------------------------------------------------------------------
```

Table 775.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHWFGDS	CAVM File Control Block
(0)	ADDRESS	4	WFGPACB	Pointer to Message File ACB
(4)	ADDRESS	4	WFGSACB	Pointer to Control File ACB
(8)	FULLWORD	4	WFGCISIZ	Control interval size of both files
(C)	FULLWORD	4	WFGHARBA	High allocated RBA of Message File
(10)	FULLWORD	4	WFGLORBA	Lowest RBA available for use by Message Management in Message File
(14)	FULLWORD	4	WFGHURBA	High used RBA of Message File

Table 775. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	FULLWORD	4	WFGRPLLN	Length of an RPL
(1C)	FULLWORD	4	WFGSMRBA	RBA of State Management Record in Control File
(20)	FULLWORD	4	WFGASRBA	RBA of ACTIVE's status CI in either file
(24)	ADDRESS	4	WFGRSVPP	Pointer to RESERVE parameter list
(24)		0	WFGL	"*-DFHWFGDS"

WDL XRF LIFO workspace

```
                CONTROL BLOCK NAME = DFHWLGPS
                DESCRIPTIVE NAME  = CICS (XRF) LIFO Workspace
                 @BANNER_START 02
                                    DFHWLGPS
                 Licensed Materials - Property of IBM
                 "Restricted Materials of IBM"
                 5655-S97
                 @BANNER_END
                FUNCTION =
                     Workspace for XRF trace calls from LIFO and dispatcher
                     services. Single instance.
                LIFETIME =
                     Created by XRF INITIAL ATTACH (DFHWDINA) and destroyed
                     by XRF SIGNOFF.
                STORAGE CLASS =
                     Non-CICS storage above 16M line. Suballocated from XRF
                     WS Global allocation created at XRF SIGNON.
                LOCATION =
                     Addressed by WCGLFA in DFHWCGPS
                INNER CONTROL BLOCKS =
                     WLGSA Standards OS Register save area.
                NOTES :
                 DEPENDENCIES = S/370
                 RESTRICTIONS =
                        None
                 MODULE TYPE = Control block definition
              -----------------------------------------------------------------
                EXTERNAL REFERENCES =
                  DATA AREAS =
                      None
                  CONTROL BLOCKS =
                      DFHWTRPS. An instance of an XRF Trace parameter area
                                is imbedded.
                  GLOBAL VARIABLES (Macro pass) =
                      None
              -----------------------------------------------------------------
```

Table 776.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	100	DFHWLGPS	Addressed from WS Global
(0)	CHARACTER	72	WLGSAVE	Standard OS Save Area

Table 776. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	CHARACTER	28	WLGTRACE	Space for trace parameter block.
(64)	CHARACTER	0	WLGEND	

Standard OS Save Area

Table 777.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	72	WLGSA	Standard Save Area
(0)	ADDRESS	4	*	
(4)	ADDRESS	4	WLGSABCN	backward chain
(8)	ADDRESS	4	WLGSAFCN	forward chain
(C)	CHARACTER	60	WLGSAREG	Registers 14-12
(C)	ADDRESS	4	WLGSAR14	R14
(10)	ADDRESS	4	WLGSAR15	R15
(14)	ADDRESS	4	WLGSAR00	R0
(18)	ADDRESS	4	WLGSAR01	R1
(1C)	ADDRESS	4	* (4294967305:130365200)	R2 - R10
(40)	ADDRESS	4	WLGSAR11	R11
(44)	ADDRESS	4	WLGSAR12	R12

WMG XRF Message manager global area

```
CONTROL BLOCK NAME = DFHWMGPS
DESCRIPTIVE NAME  = CICS (XRF) Message manager global area
 @BANNER_START 02
                         DFHWMGPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     Anchor for all XRF message management control information.
     There is a single instance of this block.
LIFETIME =
     Created by DFHWMI when it is called as part of the XRF
     SIGNON process. It then remains for the life of the CICS
     system.
STORAGE CLASS =
     Non-CICS storage. Usually above the 16M line.
LOCATION =
     Addressed by WCGMA in XRF Global area.
INNER CONTROL BLOCKS =
     WMGPUT Control area specific to PUTMSG processing.
                A single instance created by DFHWMP1 when called
                during SIGNON by DFHWMI, and addressed by WMGPUTA
                in DFHWMGPS. It contains, among other things, the
                PUTMSG work queue anchor for the queued request
                interface between XRF server and CICS user TCBs.
     WMGGET Control area specific to GETMSG processing.
                A single instance created by DFHWMG1 when called
                during SIGNON by DFHWMI, and addressed by WMGGETA
```

in DFHWMGPS. It contains, among other things, the
hash table which is contains anchors for chains
of message queue anchor blocks (DFHWMMPS).
WMGRQR Control area specific to PUTREQ/PUTRSP processing.
A single instance created by DFHWMR1 when called
during SIGNON by DFHWMI, and addressed by WMGRQRA
in DFHWMGPS. It contains, among other things, the
PUTREQ and PUTRSP anchors for the queued request
between the XRF server and CICS user TCBs.
```
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
        None
  MODULE TYPE = Control block definition
------------------------------------------------------------------
  EXTERNAL REFERENCES =
    DATA AREAS =
        None
    CONTROL BLOCKS =
        None
    GLOBAL VARIABLES (Macro pass) =
        None
------------------------------------------------------------------
  Message Manager Global Area (in XRF Global area)
  Common area
```

Table 778.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	DFHWMGPS	Addressed from WS Global
(0)	CHARACTER	40	WMGCOMM	Common data
(0)	ADDRESS	4	WMGCFKB	Free 1K block chain
(4)	ADDRESS	4	WMGCFMQE	Free message queue element chain
(8)	BIT(8)	1	WMGCFLG1	Flags
	1...		WMGCFMOV	Moving data
	.111 1111		*	Reserved
(9)	CHARACTER	3	*	Reserved
(C)	ADDRESS	4	WMGPUTA	Address of PUTMSG area
(10)	ADDRESS	4	WMGGETA	Address of GETMSG area
(14)	ADDRESS	4	WMGRQRA	Address of RQR area
(18)	ADDRESS	4	WMGPMECB	PUTMSG Start ECB
(1C)	ADDRESS	4	WMGCWAIT	Work element waiting for MQS to post it.
(20)	ADDRESS	4	WMGCPOST	Work element MQS is about to post.
(24)	FULLWORD	4	WMGCINST	Current ACTIVE message source instance number.
(28)	CHARACTER	0	*	

```
    PUTMSG area
```

Table 779.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	40	WMGPUT	PUTMSG data
(0)	CHARACTER	16	WMGPUTQ	PUTMSG request queue anchor area.
(10)	ADDRESS	4	WMGPMTA	Message transmission state data.
(14)	CHARACTER	12	WMGPID	Initial parameters for PUTMSG process
(20)	ADDRESS	4	* (4294967298:130371912)	Reserved
(28)	CHARACTER	0	WMGPEND	End of fixed part

Table 780.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	WMGPB (*)	Alternate specific data for PUT process.
(0)	UNSIGNED	4	WMGPCLCK	Start time for rejection of non-crucial messages.

```
                    GETMSG area
```

Table 781.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	WMGGET	GETMSG data
(0)	ADDRESS	4	WMGGMTA	Message transmission state data.
(4)	ADDRESS	4	*	Reserved
(8)	BIT(8)	1	*	Flags
	1...		WMGGFASA	Final ACTIVE status seen
	.111 1111		*	Reserved
(9)	UNSIGNED	1	*	Reserved
(A)	CHARACTER	2	WMGGRESP	Response data - like WMSRESP.
(C)	CHARACTER	12	WMGGID	Initial parameters for GETMSG process
(18)	ADDRESS	4	WMGGHA	Address of hash table
(1C)	FULLWORD	4	WMGGINDX	BACKUP index number
(20)	FULLWORD	4	WMGGINST	BACKUP instance number
(24)	ADDRESS	4	WMGGWAIT	Queue anchor waiting for MQH to post it.
(28)	ADDRESS	4	WMGGPOST	Queue anchor MQH is about to post.

Table 781. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	ADDRESS	4	*	Reserved
(30)	ADDRESS	4	*	Reserved

Hash table for message queue anchor chains.

Table 782.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	WMGGH	
(0)	FULLWORD	4	WMGGHTNM	Number of entries in hash table.
(4)	ADDRESS	4	WMGGHT (4294967297:130370680)	Hash table entry array
	1...		WMGGHTCL	'Closed' indicator

PUTREQ, PUTRSP area

Table 783.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	WMGRQR	PUTREQ, PUTRSP data
(0)	CHARACTER	16	WMGREQQ	PUTREQ request queue anchor area.
(10)	CHARACTER	16	WMGRSPQ	PUTRSP request queue anchor area.
(20)	HALFWORD	2	WMGRMINC	Minimum source channel - 0 for BACKUP, 1 for ACTIVE
(22)	HALFWORD	2	WMGRMAXC	Maximum source channel - 0 for BACKUP, WSAGBN for ACTIVE.
(24)	CHARACTER	12	WMGRID (4294967299:130376640)	Initial parameters for PUTREQ, PUTRSP and RECEIVE
(48)	CHARACTER	8	WMGRIVN	Target of last PUTREQ
(48)	FULLWORD	4	WMGRINST	Instance number
(4C)	FULLWORD	4	WMGRVERN	Version Number
(50)	CHARACTER	0	WMGREND	
(50)	CHARACTER	4	WMGRQA (*)	Channel status array

Table 784.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	WMGRQ	Status of channel with individual partner

Offset Hex	Type	Len	Name (dim)	Description
(0)	UNSIGNED	1	WMGRQIST	Inbound State
(1)	UNSIGNED	1	WMGRQOST	Outbound State
(2)	HALFWORD	2	*	Reserved

Request Queue Anchor Block

Table 785.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	WMGQANCH	Addressed from message manager global area.
(0)	ADDRESS	4	WMGQFRST	Address of first (newest) entry in request chain.
	1...		WMGQCLSD	Service is closed
(4)	ADDRESS	4	WMGQLAST	Address of last (oldest) entry in request chain.
(4)	CHARACTER	2	*	
(6)	CHARACTER	2	WMGQRESP	Termination response like WMSRESP.
(8)	ADDRESS	4	WMGQECB	MVS ECB posted by issuer of request.
(C)	ADDRESS	4	WMGQLSEL	Address of latest entry selected for processing

Constants

Table 786.

Len	Type	value	Name	Description
2	DECIMAL	1	WMGGHTN	Number of entries in hash table.
Constants for WMGRQIST/WMGRQOST				
1	DECIMAL	0	WMGRQNTR	No traffic
1	DECIMAL	1	WMGRQRSP	Response pending
Constants for setting WMGQCLSD and WMGGHTCL				
4	HEX	80000000	WMGQCLON	
4	HEX	7FFFFFFF	WMGQCLOF	

WMI XRF Internal interface block

```
CONTROL BLOCK NAME = DFHWMIPS
DESCRIPTIVE NAME  = CICS (XRF) Internal interface block
 @BANNER_START 02
                       DFHWMIPS
Licensed Materials - Property of IBM
```

```
                   "Restricted Materials of IBM"
                   5655-S97
                   @BANNER_END
                   FUNCTION =
                       Defines a three word parameter block which is used
                       throughout XRF message management as the interface
                       between the various modules of which it is composed.
                       The block has many different overlays depending on
                       the function being invoked. However, excepting the
                       special case of the call from DFHWMS, the first word,
                       WMIPID, always a function code. The function code
                       values are named WMIxxyyy where xx is the module
                       supporting the function (DFHWMxx) and yyy is the
                       specific function requested.
                   LIFETIME =
                       Created by caller of a routine and lasts for duration
                       of call.
                   STORAGE CLASS =
                       User choice. Usually in storage above the 16M line.
                   LOCATION =
                       Conventionally addressed by R1 w hen passed to callee.
                   INNER CONTROL BLOCKS =
                       None
                   NOTES :
                    DEPENDENCIES = S/370
                    RESTRICTIONS =
                          None
                    MODULE TYPE = Control block definition
                   -----------------------------------------------------------------
                   EXTERNAL REFERENCES =
                     DATA AREAS =
                         None
                     CONTROL BLOCKS =
                         None
                     GLOBAL VARIABLES (Macro pass) =
                         None
                   -----------------------------------------------------------------
```

Table 787.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	DFHWMIPS	XRF Message manager parameter block
(0)	FULLWORD	4	WMIPID	Request Identifier
(0)	CHARACTER	2	*	
(2)	CHARACTER	2	WMIPRESP	Response (like WMSRESP)
(4)	ADDRESS	4	WMIPWQE	Work queue element addr
(4)	ADDRESS	4	WMIPRB	User Request block addr
(4)	ADDRESS	4	WMIPCCA	CI Control area address
(4)	CHARACTER	2	*	
(6)	CHARACTER	2	WMIPTRSP	Termination response
(8)	ADDRESS	4	WMIPQA	Work queue anchor addr
(8)	ADDRESS	4	WMIPTGT	Target for message copy

Table 787. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	FULLWORD	4	WMIPOPTC	RPL type (PUT or GET)
(8)	CHARACTER	4	WMIPQNAM	Message queue name
(8)	CHARACTER	2	*	
(A)	CHARACTER	2	WMIPCRSP	Completion response

Table 788.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	*	Parameter block
(0)	FULLWORD	4	*	Request Identifier
(4)	ADDRESS	4	WMIPEPA	EPIE/SDWA
(8)	ADDRESS	4	WMIPIDA	Initial data of process
(8)	ADDRESS	4	WMIPNPSW	New PSW for ESPIE return

Constants

Table 789.

Len	Type	value	Name	Description
Request IDs for DFHWMG1				
4	DECIMAL	0	WMIG1INT	Initialize
4	DECIMAL	1	WMIG1GET	GETMSG process
4	DECIMAL	2	WMIG1EST	ESTAE exit
Request IDs for DFHWMMT				
4	DECIMAL	1	WMIMTBLD	Build CI areas
4	DECIMAL	2	WMIMTPUT	Issue VSAM PUT
4	DECIMAL	3	WMIMTGET	Issue VSAM GET
4	DECIMAL	4	WMIMTFMT	Format message datset
Request IDs for DFHWMPG				
4	DECIMAL	1	WMIPGWRT	Copy data to target
4	DECIMAL	2	WMIPGESP	Program check has occured
Request IDs for DFHWMP1				
4	DECIMAL	0	WMIP1INT	Initialize
4	DECIMAL	1	WMIP1PUT	PUTMSG process
4	DECIMAL	2	WMIP1EST	ESTAE exit
4	DECIMAL	3	WMIP1ESP	ESPIE exit
Request IDs for DFHWMQH				
4	DECIMAL	0	WMIQHINT	Initialize
4	DECIMAL	1	WMIQHENQ	Place message on queue

Table 789. (continued)

Len	Type	value	Name	Description
4	DECIMAL	2	WMIQHLOC	Locate/Create queue anchor
4	DECIMAL	3	WMIQHTRM	Terminate
Request IDs for DFHWMQS				
4	DECIMAL	1	WMIQSGN	Get next queue element
4	DECIMAL	2	WMIQSCMP	Complete request
4	DECIMAL	3	WMIQSCMB	Complete batch of requests
4	DECIMAL	4	WMIQSTRM	Close down queue and post any remaining requests.
Request IDs for DFHWMRD				
4	DECIMAL	0	WMIRDINT	Initialize
4	DECIMAL	1	WMIRDGET	Read message
Request IDs for DFHWMR1				
4	DECIMAL	0	WMIR1INT	Initialize
4	DECIMAL	1	WMIR1REQ	PUTREQ process
4	DECIMAL	2	WMIR1RSP	PUTRSP process
4	DECIMAL	3	WMIR1RCV	RECEIVE process
4	DECIMAL	4	WMIR1ESP	ESPIE exit
4	DECIMAL	5	WMIR1EST	ESTAE exit
Request IDs for DFHWMWR				
4	DECIMAL	0	WMIWRINT	Initialize
4	DECIMAL	1	WMIWRPUT	Write message
4	DECIMAL	2	WMIWRHDN	Harden messages

WMM XRF Message queue anchor block

```
CONTROL BLOCK NAME = DFHWMMPS
DESCRIPTIVE NAME  = CICS (XRF) Message queue anchor block
 @BANNER_START 02
                          DFHWMMPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     Anchor for chain of in core message elements built by
     the XRF GETMSG process.
     An instance of this block is created for each distinct
     message queue name for which either the reader process
     retrieves messages from the message dataset, or for
     which GETMSG requests are issued by the CICS TCB.
     Each such block serves as an anchor for the chain of
     messages yet to be read, and contains the ECB on
     which a CICS transaction will wait if it issues a GETMSG
     for a queue with no messages pending.
LIFETIME =
     Created by either the XRF message reader process under
```

```
             the XRF TCB, or by GETMSG under the CICS TCB, at the
             first appearance of a message queue name.
             Destroyed when the BACKUP either signs off, or takes over.
             This is done only under the CICS TCB at a time when it is
             known that no other CICS transactions have references to
             the block or anything depending on it.
     STORAGE CLASS =
             Non-CICS storage. Usually in MVS subpool 0 storage
             above 16M line.
     LOCATION =
             The anchor blocks are formed into hash chains using
             WMMAHASH as chain field and WMGGHT (in DFHWMGPS) as
             hash table.
     INNER CONTROL BLOCKS =
             WMME is the message queue element description. These
                       blocks form chains from the message anchor blocks
                       and contain the individual messages waiting to
                       be read. They are created by the reader process
                       when it reads a message, and destroyed by GETMSG
                       when the message has been delivered.
     NOTES :
      DEPENDENCIES = S/370
      RESTRICTIONS =
              None
      MODULE TYPE = Control block definition
   ----------------------------------------------------------------
     EXTERNAL REFERENCES =
       DATA AREAS =
              None
       CONTROL BLOCKS =
              None
       GLOBAL VARIABLES (Macro pass) =
              None
   ----------------------------------------------------------------
     Message Manager Message Queue Anchor Block
```

Table 790.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	DFHWMMPS	
(0)	ADDRESS	4	WMMANEXT	Address of next anchor block (first in chain is addressed from hash table in GETMSG global area).
(4)	CHARACTER	4	WMMAQNAM	Queue name.
(8)	ADDRESS	4	WMMAFRST	First element in message chain for this queue.
(C)	ADDRESS	4	WMMALAST	Last element in message chain for this queue.
(10)	HALFWORD	2	WMMAHASH	Hash table index
(12)	BIT(16)	2	*	
	1...		WMMAEOD	Flag set by reader process if EOD/SIGNOFF or an error occurs.
(12)	BIT(15) POS(2)	2	*	Reserved

Table 790. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	ADDRESS	4	WMMAECB	ECB posted at 'End-of-data or whenever this queue becomes non-empty.
	1...		*	
	.1..		WMMAPOST	POST bit in ECB
(14)	BIT(30) POS(3)	4	*	
(18)	CHARACTER	0	WMMAEND	

```
Message Queue Element
```

Table 791.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	WMME	
(0)	CHARACTER	8	WMMECTL	Control part of element
(0)	ADDRESS	4	WMMEOLDR	Next older element
(4)	ADDRESS	4	WMMENEWR	Next newer element
(8)	CHARACTER	0	WMMEDATA	Start of message data. This contains a copy of whole of the record read from the message dataset. See DFHWMRPS for format.

WMQ XRF Message request queue

```
CONTROL BLOCK NAME = DFHWMQPS
DESCRIPTIVE NAME  = CICS (XRF) Message request queue
                       work element.
 @BANNER_START 02
                      DFHWMQPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     Represents an XRF message manager request - PUTMSG,
     PUTREQ, or PUTRSP.
LIFETIME =
     Created by DFHWMQP in response to a message manager PUT
     request when the queue of free work elements (WMGCFMQE)
     is empty. Never destroyed.
STORAGE CLASS =
     Non-CICS storage, in MVS subpool 0 above 16M line, plus
     an 8 byte allocation in the CICS SHARED subpool for an
     ECB (KCP can handle only ECBs below the 16M line).
LOCATION =
     Chained from one of the message manager request service
     queue anchors (WMGPUTQ, WMGREQQ, WMGRSPQ) or from the free
     element head WMGCFMQE.
INNER CONTROL BLOCKS =
     None
```

```
              NOTES :
               DEPENDENCIES = S/370
               RESTRICTIONS =
                      None
               MODULE TYPE = Control block definition
              ------------------------------------------------------------------
               EXTERNAL REFERENCES =
                 DATA AREAS =
                      None
                 CONTROL BLOCKS =
                      None
                 GLOBAL VARIABLES (Macro pass) =
                      None
              ------------------------------------------------------------------
              Message Manager Request Queue Element.
```

Table 792.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	48	DFHWMQPS	
(0)	CHARACTER	24	WMQECTL	Control part of element
(0)	ADDRESS	4	WMQEOLDR	Next older element
(4)	ADDRESS	4	WMQENEWR	Next newer element
(8)	ADDRESS	4	*	Reserved
(C)	ADDRESS	4	WMQEQAA	Queue anchor address
(10)	ADDRESS	4	WMQEECB	ECB on which requesting CICS Xaction will wait.
	1...		*	
	.1..		WMQEPOST	POST bit in ECB
(10)	BIT(30) POS(3)	4	*	
(14)	BIT(32)	4	WMQECSWD	This field is subject of a CS instruction and is described by WMQECS.
(18)	CHARACTER	24	WMQEPARM	Copy of request parameter block.
(30)	CHARACTER	0	WMQEEND	

```
              Overlay for word containing 'cancelled' and 'about to post'
              flags (WMQECSWD).
```

Table 793.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	6	WMQECS	
(0)	BIT(16)	2	WMQEFLGS	This field is subject of a CS instruction.
	1...		WMQEFATP	About-to-post
	.1..		WMQEFCAN	Request cancelled
(2)	BIT(14)	2	*	Reserved
(3)	BIT(16) POS(7)	3	*	Reserved

Block chain. Chain of free 4K blocks used by DFHWMS10 as XPBs.

Table 794.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	WMQB	
(0)	ADDRESS	4	WMQBNEXT	Address of next free block

WMR XRF Message record

```
CONTROL BLOCK NAME = DFHWMRPS
DESCRIPTIVE NAME  = CICS (XRF) Message Record
 @BANNER_START 02
                        DFHWMRPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     Defines the format of an XRF Message Management message
     record.
     Message records do not exist as independent control blocks
     in their own right. The definition here is of the message
     record component of other structures. Such components
     exist as records within the XRF status VSAM dataset, as
     the data part of in-core message blocks (WMME) created by
     the XRF reader process, and as the message part of the
     report data in a status CI (WSAR).
     Message records contain the data which are transmitted
     between ACTIVE and BACKUP systems by means of the PUTMSG,
     GETMSG, PUTREQ and PUTRSP message manager requests.
LIFETIME =
     Same as containing structure.
STORAGE CLASS =
     Same as containing structure.
LOCATION =
     Same as containing structure.
INNER CONTROL BLOCKS =
     WMRCR Format of control record which is the first in
             each message dataset CI.
     WMRCIDF Defines the format of a VSAM CIDF
     WMRRDF Defines the format of a VSAM RDF
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
       None
 MODULE TYPE = Control block definition
 ----------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
       None
   CONTROL BLOCKS =
       None
   GLOBAL VARIABLES (Macro pass) =
       None
 ----------------------------------------------------------------
   Message Data Record
```

Table 795.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	DFHWMRPS	

Table 795. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	UNSIGNED	1	WMRTYPE	Record type
(1)	BIT(8)	1	WMRRFLGS	Reserved
(2)	HALFWORD	2	WMRDATLN	Message data length i.e. number of bytes in record following WMREND
(4)	FULLWORD	4	WMRSEQNO	Message sequence number
(8)	CHARACTER	8	WMRIVN	Instance and version/queue
(8)	FULLWORD	4	WMRINSTN	Applicable instance number
(C)	FULLWORD	4	WMRVERSN	Version number
(C)	CHARACTER	4	WMRQNAME	Queue name
(10)	CHARACTER	0	WMREND	Start of message data

```
Message Control Record
```

Table 796.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	WMRCR	
(0)	BIT(8)	1	*	Record type - WMRTCNO
(1)	CHARACTER	3	*	Reserved
(4)	FULLWORD	4	WMRCRCNO	Message cycle number
(8)	CHARACTER	0	WMRCREND	

```
VSAM CIDF Format
```

Table 797.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	4	WMRCIDF	
(0)	HALFWORD	2	WMRCIDFO	Offset of start of unused space in this CI.
(2)	HALFWORD	2	WMRCIDFL	Length of unused space in this CI.

```
VSAM RDF Format
```

Table 798.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	3	WMRRDF	Cancel data passed to KCP at WAIT.

Table 798. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	BIT(8)	1	WMRRDFF	Flags - always zero in the subset used by XRF message manager.
(1)	HALFWORD	2	WMRRDFL	Length of record which corresponds to this RDF.

Constants

Table 799.

Len	Type	value	Name	Description
Message Dataset Record Types (WMRTYPE)				
1	DECIMAL	0	WMRTDATA	Message record
1	DECIMAL	1	WMRTCNO	Control record

WMS XRF Message manager request

```
CONTROL BLOCK NAME = DFHWMSPS
DESCRIPTIVE NAME  = CICS (XRF) Message manager request
                      interface block.
@BANNER_START 02

                      DFHWMSPS
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5655-S97
@BANNER_END
FUNCTION =
    Defines the format of the parameter block passed by the
    user of XRF message services.
    Since the user's parameter block is usually copied into
    a work queue element the definition of such an element,
    DFHWMQPS, includes an area to which this definition
    applies.
LIFETIME =
    Created by caller of message services and lasts for the
    duration of the processing of the request.
STORAGE CLASS =
    User choice.
LOCATION =
    Usually in caller's LIFO.
INNER CONTROL BLOCKS =
    None
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
      None
 MODULE TYPE = Control block definition
 ----------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
      None
   CONTROL BLOCKS =
      None
   GLOBAL VARIABLES (Macro pass) =
      None
 ----------------------------------------------------------------
```

Table 800.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	DFHWMSPS	XRF Message manager parameter block
(0)	FULLWORD	4	WMSREQID	Request Identifier
(4)	BIT(8)	1	WMSRQFL1	Request flag byte 1
	1...		WMSCRUCL	CRUCIAL Message (PUTMSG)
	.111 1111		*	Reserved
(5)	BIT(8)	1	WMSRQFL2	Request flag byte 2
	1...		WMSFORCE	Harden message before returning (PUTMSG)
	.111 1111		*	Reserved
(6)	CHARACTER	2	WMSRC	Response field
(8)	ADDRESS	4	WMSDATAD	Data area address
(C)	HALFWORD	2	WMSDATSZ	Size of data area
(E)	HALFWORD	2	WMSDATLN	Data length
(10)	CHARACTER	8	WMSIVN	Instance and version/queue
(10)	FULLWORD	4	WMSINSTN	Instance number
(14)	FULLWORD	4	WMSVERSN	Version no (PUTREQ,PUTRSP)
(14)	CHARACTER	4	WMSQNAME	Queue name (GETMSG,PUTMSG)
(18)	CHARACTER	0	WMSEND	

```
Response field
```

Table 801.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	2	WMSRESP	Response
(0)	UNSIGNED	1	WMSRETC	Return code
(1)	UNSIGNED	1	WMSREASN	Reason code

Constants

Table 802.

Len	Type	value	Name	Description
Request Identifier (WMSREQID) definitions				
4	DECIMAL	1	WMSPMSG	PUTMSG
4	DECIMAL	2	WMSGMSG	GETMSG
4	DECIMAL	3	WMSPREQ	PUTREQ
4	DECIMAL	4	WMSPRSP	PUTRSP
Return Codes (WMSRETC) definitions				

Table 802. (continued)

Len	Type	value	Name	Description
1	DECIMAL	0	WMSNORML	Normal
1	DECIMAL	4	WMSEXCPN	Exception
1	DECIMAL	8	WMSFAIL	Failed
Reason Codes (WMSREASN) definitions If WMSRETC = WMSEXCP				
1	DECIMAL	1	WMSNOXRF	XRF not active
1	DECIMAL	2	WMSEOD	End of data. We are about to take over. The active will send no more records.
1	DECIMAL	3	WMSSGNOF	Backup has SIGNED OFF from XRF. No more records will be presented.
If WMSRETC = WMSFAIL				
1	DECIMAL	1	WMSINVRC	Invalid request code
1	DECIMAL	2	WMSCLOSD	Service closed
1	DECIMAL	3	WMSCANCL	Task cancelled
1	DECIMAL	4	WMSDLERR	Data length error. Either too large or -ve.
1	DECIMAL	5	WMSOVLAP	ACTIVE reject non-crucial message rather than risk damaging a BACKUP. BACKUP lapped by ACTIVE message writer.
1	DECIMAL	6	WMSNODST	No SIGNED-ON destination exists for this message
1	DECIMAL	7	WMSBUSY	Message queue busy
1	DECIMAL	8	WMSCHECK	Program check while copying message data.
1	DECIMAL	9	WMSABEND	XRF TCB Abend
1	DECIMAL	10	WMSIOER	Message dataset I/O error
1	DECIMAL	11	WMSFMTER	Message dataset format error.
1	DECIMAL	12	WMSSEQER	Message dataset sequence number error.
1	DECIMAL	13	WMSNACTV	System not ACTIVE yet

WMT XRF message manager message

```
CONTROL BLOCK NAME = DFHWMTPS
DESCRIPTIVE NAME  = CICS (XRF) Message manager message
                        transmission control.
 @BANNER_START 02

                        DFHWMTPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     Contains an RPL for issuing VSAM requests against a
     particular CI buffer, and data representing the state
     of that buffer.
     XRF message management builds these blocks to control the
     reading and writing of CIs in the message dataset.
     Each instance represents a single buffer. At present,
     with single buffering, only a single instance each exists
     for the PUTMSG and GETMSG processes.
LIFETIME =
     Created by DFHWMMT when called during the initialization
     of the GETMSG or PUTMSG process. Lasts for the lifetime
     of the process.
STORAGE CLASS =
     Non-CICS storage. MVS GETMAIN above 16M line.
LOCATION =
     Addressed by WMTPCCCA or WMTGCCA.
INNER CONTROL BLOCKS =
     WMTP PUTMSG transmission control area. Addressed by
             WMGPMTA. Contains data controlling the position
             reached in writing to the message dataset.
     WMTG GETMSG transmission control area. Addressed by
             WMGGMTA. Contains data controlling the position
             reached in reading the message dataset.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
        None
 MODULE TYPE = Control block definition
-----------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
        None
   CONTROL BLOCKS =
        None
   GLOBAL VARIABLES (Macro pass) =
        None
-----------------------------------------------------------------
CI Control Area
```

Table 803.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	168	DFHWMTPS	
(0)	ADDRESS	4	*	Reserved for chain ptr
(4)	BIT(8)	1	WMTCFLGS	Flags
	1...		WMTCFCHG	CI has been changed
	.1..		WMTCFSAF	CI can be written without impacting any backup.

Table 803. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		WMTCFUWM	CI contains unwritten complete messages.
(5)	CHARACTER	3	WMTCFDBK	VSAM feedback data copied from RPL.
(5)	UNSIGNED	1	WMTCRTNC	VSAM return code
(6)	UNSIGNED	1	*	VSAM component code
(7)	UNSIGNED	1	WMTCRSNC	VSAM reason code
(8)	ADDRESS	4	WMTCBUFA	Address of CI buffer
(C)	ADDRESS	4	WMTCIDFA	Address of CIDF in buffer
(10)	ADDRESS	4	WMTCECB	ECB for VSAM to post
(14)	UNSIGNED	4	WMTCRBA	RBA argument for VSAM requests.
(18)	ADDRESS	4	WMTCWQEF	Address of queue element of most recent record in CI which specifed FORCE
(18)	ADDRESS	4	WMTCRDFA	Address of last used RDF
(1C)	HALFWORD	2	WMTCOFF	Offset of end of last complete message record in CI - 0 if none.
(1E)	HALFWORD	2	WMTCICL	Length of CI control area
(20)	FULLWORD	4	WMTCCNO	Cycle to which CI belongs
(24)	CHARACTER	128	WMTCMSGA	VSAM request message area
(A8)	CHARACTER	0	WMTCRPL	End of fixed part. Start of associated RPL.

PUTMSG Transmission control data

Table 804.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	WMTP	
(0)	CHARACTER	8	WMTPAWC	Active write cursor of end of latest complete message
(0)	FULLWORD	4	WMTPWCNO	Active write cycle number
(4)	UNSIGNED	4	WMTPWRBA	Active write RBA

Table 804. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	FULLWORD	4	WMTPSEQN	Message sequence number
(C)	ADDRESS	4	WMTPCCCA	Current CI control area
(10)	FULLWORD	4	WMTPCCNO	Current write cycle number
(14)	BIT(16)	2	WMTPFLGS	
	1...		WMTPFMOV	Moving user data
	.1..		WMTPFMDS	'Multiple discard' - the previous non-crucial msg was also discarded.
(14)	BIT(14) POS(3)	2	*	Reserved
(16)	HALFWORD	2	WMTPMAXL	Maximum record length
(18)	CHARACTER	0	WMTPEND	

GETMSG Transmission control data

Table 805.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	28	WMTG	
(0)	CHARACTER	8	WMTGBRC	Backup read cursor
(0)	FULLWORD	4	WMTGRCNO	Backup read cycle number
(4)	UNSIGNED	4	WMTGRRBA	Backup read RBA
(8)	CHARACTER	8	WMTGAWC	Active write cursor when current CI was read.
(8)	FULLWORD	4	WMTGWCNO	Active write cycle number
(C)	UNSIGNED	4	WMTGWRBA	Active write RBA
(10)	FULLWORD	4	WMTGSEQN	Message sequence number
(14)	ADDRESS	4	WMTGCCCA	Current CI control area
(18)	BIT(16)	2	WMTGFLGS	
	1...		WMTGFMOV	Moving user data
	.1..		WMTGFFMR	First message received
(18)	BIT(14) POS(3)	2	*	Reserved
(1A)	HALFWORD	2	*	Reserved
(1C)	CHARACTER	0	WMTGEND	

WNF XRF CAVM notify exit

```
                    CONTROL BLOCK NAME = DFHWNFPS
                    DESCRIPTIVE NAME  = CICS (XRF) - CAVM NOTIFY Exit
                                                    Parameter Block
                     @BANNER_START 02
                                        DFHWNFPS
                     Licensed Materials - Property of IBM
                     "Restricted Materials of IBM"
                     5655-S97
                     @BANNER_END
                    FUNCTION =
                         CAVM uses the NOTIFY Exit Parameter Block to describe an
                         event it has detected which needs to be brought to the
                         attention of the user of CAVM.
                    LIFETIME =
                         The duration of the call to the NOTIFY exit.
                    STORAGE CLASS =
                         Non-CICS storage. Usually in the automatic storage
                         (managed by the CAVM LIFO mechanism) of the NOTIFY exit's
                         caller.
                    LOCATION =
                         On entry to the NOTIFY exit, R1 contains the address of its
                         parameter block.
                    INNER CONTROL BLOCKS =
                         None.
                    NOTES :
                     DEPENDENCIES = S/370
                     MODULE TYPE = Control block definition
                    ----------------------------------------------------------------
                    EXTERNAL REFERENCES =
                      DATA AREAS =
                          None.
                      CONTROL BLOCKS =
                          None.
                      GLOBAL VARIABLES (Macro pass) =
                          None.
                    ----------------------------------------------------------------
```

Table 806.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	DFHWNFPS	
(0)	FULLWORD	4	WNFRSV1	Reserved - must be zero
(4)	UNSIGNED	1	WNFEVENT	Event code
(5)	BIT(8)	1	WNFEVNTM	Event modifier bits
	1...		WNFMDCEC	Event was in different CEC
	.1..		WNFMICPA	Event refers to an incipient ACTIVE
	..1.		WNFMSYSD	If on, event refers to a sign-off due to MVS failure
	...1 1111		*	Reserved
(6)	BIT(8)	1	WNFXBITS	Existence bits for other fields
	1...		WNFIX	Index exists
	.1..		WNFD1X	DATA1 exists

Table 806. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	..1.		WNFD2X	DATA2 exists
	...1		WNFDAX	Additional DATA exists
	 1111		*	Reserved
(7)	UNSIGNED	1	WNFINDEX	Index identifying BACKUP slot - zero for ACTIVE
(8)	FULLWORD	4	WNFDATA1	First data word
(8)	FULLWORD	4	WNFINST#	Instance no. for signon, signoff etc
(8)	FULLWORD	4	WNFHBLAT	No. of seconds 'heart-beat' is late
(8)	FULLWORD	4	WNFABCC	ABEND code (WNFEFAIL)
(C)	FULLWORD	4	WNFDATA2	Second data word
(C)	FULLWORD	4	WNFVERN#	Version no. for signon, signoff etc
(C)	CHARACTER	4	WNFQNAME	New queue name (WNFENEWQ)
(10)	ADDRESS	4	WNFDATAA	Address of additional data
(14)	FULLWORD	4	WNFDATAL	Length of additional data
(18)	CHARACTER	0	WNFEND	

Constants

Table 807.

Len	Type	value	Name	Description
Event codes for WNFEVENT				
1	DECIMAL	1	WNFESON	Signon
1	DECIMAL	2	WNFESOFN	Signoff normal
1	DECIMAL	3	WNFESOFA	Signoff abnormal
1	DECIMAL	7	WNFECKDC	The TOD clock difference has changed
1	DECIMAL	8	WNFEIHRC	The 'Inquire Health' response has changed
1	DECIMAL	9	WNFEHBOD	Heart-beat is overdue
1	DECIMAL	10	WNFEHBRS	Heart-beat has restarted
1	DECIMAL	15	WNFERQTK	This system wants to take over from you.

Len	Type	value	Name	Description
1	DECIMAL	16	WNFEICPA	You are now the incipient active but your TOD clock might be behind
1	DECIMAL	17	WNFECKAS	Your TOD clock is now ahead of active's at signoff
1	DECIMAL	18	WNFEACTV	You are now the active in all respects except that your TOD clock might still be behind
1	DECIMAL	19	WNFECKAT	Your TOD clock is now ahead of active's at job termination
1	DECIMAL	20	WNFEPRMT	Another BACKUP pre-empted you after your TAKEOVER request had been accepted
1	DECIMAL	21	WNFETKFL	Takeover failed because of an error detected after the request had been accepted
1	DECIMAL	24	WNFEFAIL	CAVM has failed
1	DECIMAL	25	WNFEINVL	Active has invalidated you
1	DECIMAL	32	WNFENEWQ	Message arrival has caused a new message queue to be created
1	DECIMAL	33	WNFEREQM	Request message arrived
1	DECIMAL	34	WNFERSPM	Response message received
1	DECIMAL	35	WNFERSPX	Expected responder to a PUTREQ has gone away
1	DECIMAL	36	WNFENEWA	A message has arrived from a new ACTIVE instance

WS2 XRF DFHWSSN2 parameter list

```
CONTROL BLOCK NAME = DFHWS2DS
DESCRIPTIVE NAME  = CICS (XRF) - Parameter list for DFHWSSN2
   @BANNER_START 02

                      DFHWS2DS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
```

```
                    @BANNER_END
                FUNCTION =
                    This parameter list is used to provide DFHWSSN2 with the
                    data it needs to process a CAVM SIGNON request.
                    It is used just once during every CAVM SIGNON.
                LIFETIME =
                    The DFHWSSN2 parameter list is created by DFHWSSN1,
                    completed by DFHWSRTR, which issues the call to DFHWSSN2,
                    and destroyed by DFHWSSN1.
                STORAGE CLASS =
                    Non-CICS storage. In DFHWSSN1's automatic storage.
                LOCATION =
                    On entry to DFHWSSN2, R1 contains a pointer to its parameter
                    list.
                INNER CONTROL BLOCKS =
                    None.
                NOTES :
                  DEPENDENCIES = S/370
                  RESTRICTIONS =
                      None.
                  MODULE TYPE = Control block definition
            -----------------------------------------------------------------
            EXTERNAL REFERENCES =
                    None.
                DATA AREAS =
                    None.
                CONTROL BLOCKS =
                    None.
                GLOBAL VARIABLES (Macro pass) =
                    None.
            -----------------------------------------------------------------
```

Table 808.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SN2PLIST	Parameter List for DFHWSSN2
(0)	FULLWORD	4	SN2FUNC	Zero entry point address to tell DFHWSRTR to process a SIGNON request
(4)	ADDRESS	4	SN2ENTBP	Pointer to entry point table
(8)	ADDRESS	4	SN2WSSPP	Pointer to State Management parameter list for SIGNON received by DFHWSSN1
(C)	ADDRESS	4	SN2STATA	Pointer to XRF Static Area built by DFHWSSN1
(10)	ADDRESS	4	SN2XRFNT	Pointer to table of entry points of routines below 16M line (copy of CSAXRFNT in the CICS CSA)
(14)	ADDRESS	4	SN2ESSOF	Entry point address of DFHWSSOF
(14)		0	SN2PLL	"*-SN2PLIST"

Table 809.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SONENTAB	Table of entry points in DFHWSSON
(0)	ADDRESS	4	SONESSN2	EPA of DFHWSSN2
(4)	ADDRESS	4	SONEDINA	EPA of DFHWDINA
(8)	ADDRESS	4	SONESXPI	EPA of DFHWSXPI

WS3 XRF DFHWSSN3 parameter list

```
CONTROL BLOCK NAME = DFHWS3DS
DESCRIPTIVE NAME  = CICS (XRF) - Parameter list for DFHWSSN3
   @BANNER_START 02

                         DFHWS3DS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION =
      This parameter list is used to provide DFHWSSN3 with the
      data it needs to prepare the CAVM control and message data
      sets for use by SIGNON.
      It is used just once in every CAVM SIGNON.
LIFETIME =
      The DFHWSSN3 parameter list is both created and destroyed
      by DFHWSSN2.
STORAGE CLASS =
      Non-CICS storage. In DFHWSSN2's automatic storage.
LOCATION =
      On entry to DFHWSSN3, R1 contains a pointer to its parameter
      list.
INNER CONTROL BLOCKS =
      None.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS =
        None.
   MODULE TYPE = Control block definition
 ----------------------------------------------------------------
 EXTERNAL REFERENCES =
      None.
   DATA AREAS =
      None.
   CONTROL BLOCKS =
      None.
   GLOBAL VARIABLES (Macro pass) =
      None.
 ----------------------------------------------------------------
```

Table 810.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SN3PLIST	Parameter List for DFHWSSN3
(0)	CHARACTER	8	SN3GAPPL	Generic APPLID of system signing on
(8)	CHARACTER	8	SN3SAPPL	Specific APPLID of system signing on

Table 810. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	CHARACTER	12	SN3MVSID	MVS system identification - SMF ID and time & date of IPL
(1C)	FULLWORD	4	SN3#CIS	No. of CIs required for use by State Management in each CAVM file
(20)	ADDRESS	4	SN3CIBFP	Pointer to CI buffer allocated by DFHWSSN3
(24)	ADDRESS	4	SN3VSAMB	Pointer to VSAM Request Block built by DFHWSSN3
(28)	ADDRESS	4	SN3FAA	Pointer to CAVM File Control Area built by DFHWSSN3
(28)		0	SN3PLL	"*-SN3PLIST"

Table 811.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	VSAMRQB	VSAM Request Block
(0)	FULLWORD	4	VSAMRBA	RBA of record to read or write
(4)	ADDRESS	4	VSAMECB	External ECB for asynchronous request
(8)	FULLWORD	4	VSAMRPL (0)	Start of RPL for VSAM request
(8)		0	VSAMRQBL	"*-VSAMRQB"

WSA XRF CAVM surveillance status

```
CONTROL BLOCK NAME = DFHWSADS
DESCRIPTIVE NAME  = CICS (XRF) - CAVM Surveillance Status
                                        Control Blocks
    @BANNER_START 02
                        DFHWSADS
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION =
        The various CAVM Surveillance Status Control Blocks exist
        to permit the 4 independent CAVM surveillance processes
        (2 status writers and 2 status readers) to communicate with
        other CAVM processes and with each other.
        Each XRF system contains a single set of these Surveillance
        Status Control Blocks.
LIFETIME =
        The Surveillance Status Control Block, Public Status Area
        Descriptors and Public Status Areas in a given XRF system
        are all created at the same time during CAVM SIGNON by
        DFHWSSN2.
```

```
              The actual Status CIs are created by DFHWSSN3 as records
              filled with binary zeroes when it formats a new CAVM Control
              or Message Data Set. They are never destroyed except by
              deletion of the data set.
      STORAGE CLASS =
              Non-CICS storage. In MVS subpool 0 above the 16M line.
              The Status CIs themselves reside on DASD in the CAVM Control
              or Message Data Sets or in I/O buffers in MVS subpool 0
              above the 16M line.
      LOCATION =
              Field WCGSA in the CAVM Global Control Block (DFHWCGDS)
              contains a pointer to the Surveillance Status Control
              Block (DFHWSADS), which itself includes an array of Public
              Status Area Descriptors (WSADs) starting at WSAGWSAD.
      INNER CONTROL BLOCKS =
              See FUNCTION and LOCATION.
      NOTES :
        DEPENDENCIES = S/370
        RESTRICTIONS =
              Status Record must not become too large to fit in a 4K CI.
        MODULE TYPE = Control block definition
      ----------------------------------------------------------------
      EXTERNAL REFERENCES =
              None.
        DATA AREAS =
              None.
        CONTROL BLOCKS =
              None.
        GLOBAL VARIABLES (Macro pass) =
              None.
      ----------------------------------------------------------------
```

Table 812.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHWSADS	CAVM Surveillance Status Control Block
(0)	CHARACTER	8	WSAGID	Eye Catcher DFHWSAPS
(8)	BITSTRING	1	WSAGWRQD	Status Write Required Mask
(8)	BITSTRING	0	WSAGPSWR	"X'80'" Status Write to Control File needed
(8)	BITSTRING	0	WSAGSSWR	"X'40'" Status Write to Message File needed
(9)	BITSTRING	1	WSAGVRQD	Status Verification Required Mask
(9)	BITSTRING	0	WSAGPSVR	"X'80'" Control File status verify needed
(9)	BITSTRING	0	WSAGSSVR	"X'40'" Message File status verify needed
(A)	BITSTRING	1	WSAGWSTK	Status Writers Stuck Mask
(B)	BITSTRING	1	WSAGRSTK	Status Readers Stuck Mask
(C)	HALFWORD	2	WSAGBN	Maximum number of concurrent BACKUPs

Table 812. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E)	HALFWORD	2	WSAGINDX	Index to this system's entry in the array of status descriptors (zero origin)
(10)	HALFWORD	2	WSAG#BSU	No. of BACKUPs whose Public Status is not yet available - WDSBBPSA is broadcast when this reaches zero
(12)	BITSTRING	1	WSAGSRFL	Flags for controlling Status Readers
(12)	BITSTRING	0	WSAGQBSR	"X'80'" Quiesce Backup Status Readers
(13)	BITSTRING	1	WSAGPRST	Flags for recording the progress of a request to read the ACTIVE's latest status
(14)	FULLWORD	4	(0)	Ensure full word alignment
(14)	BITSTRING	4	WSAGRES	Internal ECB POSTed when request to read the ACTIVE's latest status has been completed
(18)	BITSTRING	4	WSAGWEP	Internal ECB POSTed to request a Status Write to the Control File
(1C)	BITSTRING	4	WSAGWES	Internal ECB POSTed to request a Status Write to the Message File
(20)	BITSTRING	8	WSAGPWCM (0)	Control File Write Complete Masks
(20)	BITSTRING	4	WSAGWCP	Mask defining event which will be broadcast when next Status Write to Control File completes successfully
(24)	BITSTRING	4	WSAGWCEP	Mask defining event which will be broadcast when next Status Write to Control File completes with error
(28)	BITSTRING	8	WSAGSWCM (0)	Message File Write Complete Masks

Table 812. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(28)	BITSTRING	4	WSAGWCS	Mask defining event which will be broadcast when next Status Write to Message File completes successfully
(2C)	BITSTRING	4	WSAGWCES	Mask defining event which will be broadcast when next Status Write to Message File completes with error
(30)	FULLWORD	4	(0)	Ensure full word alignment
(30)	CHARACTER	8	WSAGPAIV	Instance & version no. of previous ACTIVE job which has either signed off or is no longer executing according to JES (BACKUPs only)
(38)	ADDRESS	4	WSAGP (0)	Start of Array of Status Descriptors
(38)	ADDRESS	4	WSAGWSAD (0)	Start of Array of Status Descriptors
(38)		0	WSAGHDRL	"*-DFHWSADS"

Table 813.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WSAD	CAVM Public Status Area Descriptor
(0)	ADDRESS	4	WSADPB (0)	Alternative Name
(0)	ADDRESS	4	WSADPSA	Address of Public Status Area
(4)	HALFWORD	2	WSADTOTL	Total length of Public Status
(6)	HALFWORD	2	WSADSHRL	Length of shared Status section
(8)	HALFWORD	2	WSADIDVL	Length of individual Status section
(A)	HALFWORD	2	WSADPOFF	Offset to my individual section in partner's Public Status

Table 813. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	ADDRESS	4	WSADSRCP	Pointer to Communications Area for Status Reader and Writer Processes
(C)		0	WSADL	"*-WSAD"

Table 814.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WSAS	Common Shared Section of Status
(0)	SIGNED	1	WSASST1	System Status 1
	....		WSASSOFN	"0" Signed off normally (must be zero)
(0)	SIGNED	0	WSASSON	"1" Signed on
(0)	SIGNED	0	WSASSOFA	"2" Signed off abnormally
(1)	SIGNED	1	WSASST2	System Status 2
(1)	SIGNED	0	WSASACT	"1" System is ACTIVE
(1)	SIGNED	0	WSASINCP	"2" System is incipient ACTIVE
(1)	SIGNED	0	WSASBKUP	"3" System is a BACKUP
(2)	BITSTRING	1	WSASST3	System status 3
(2)	BITSTRING	0	WSASXCFA	"X'80'" System has XCF services avail.
(3)	BITSTRING	1		Reserved
(4)	CHARACTER	8	WSASI#V# (0)	Instance and Version number
(4)	CHARACTER	8	WSASIVN (0)	Alternative name for I & V
(4)	FULLWORD	4	WSASINST	System's Instance number
(8)	FULLWORD	4	WSASVERN	System's Version number (always 1 for BACKUPs)
(C)	CHARACTER	16	WSASM (0)	Message state data (meaningful only for ACTIVE system)
(C)	FULLWORD	4	WSASMCID	CIDF corresponding to AWC
(10)	CHARACTER	8	WSASMAWC (0)	ACTIVE Write Cursor
(10)	FULLWORD	4	WSASMCNO	Message cycle number

Table 814. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(14)	FULLWORD	4	WSASMRBA	RBA of end of last message
(18)	FULLWORD	4	WSASMSQN	Sequence no. of last message
(1C)	CHARACTER	12	WSASMVSI	MVS System Identification - SMF ID and time & date of IPL
(28)	CHARACTER	8	WSASSPLX	XCF Sysplex name
(30)	CHARACTER	8	WSASSNAM	MVS System name
(38)	CHARACTER	4	WSASSTOK	MVS Instance token
(3C)	FULLWORD	4	WSASHBI	'Heart-beat' interval
(40)	FULLWORD	4	WSASHBC	'Heart-beat' counter
(44)	HALFWORD	2		Reserved
(46)	HALFWORD	2	WSASIHLL	Length of local 'Inquire Health' data
(48)	CHARACTER	256	WSASIHLD	Local 'Inquire Health' data
(148)	HALFWORD	2		Reserved
(14A)	HALFWORD	2	WSASIHGL	Length of global 'Inquire Health' data
(14C)	CHARACTER	128	WSASIHGD	Global 'Inquire Health' data
(14C)		0	WSASL	"*-WSAS"

Table 815.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WSAR	Specific Partner's Section of Status
(0)	HALFWORD	2		Reserved
(2)	HALFWORD	2	WSARQROF	Offset to Message Management PUTREQ data (WSARQR)
(4)	CHARACTER	16	WSARM (0)	Message state data
(4)	CHARACTER	8	WSARMBRC (0)	BACKUP Read Cursor or Initial Read Cursor
(4)	FULLWORD	4	WSARMCNO	Message file cycle number
(8)	FULLWORD	4	WSARMRBA	RBA of end of last message read or of 1st message to be read
(C)	FULLWORD	4	WSARINST	Instance Number
(10)	FULLWORD	4		Reserved

Table 815. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)		0	WSARL	"*-WSAR"

Table 816.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WSARIV	Invalidation Message from ACTIVE
(0)	FULLWORD	4	WSARIVI#	Instance number of BACKUP which is now invalid
(4)	CHARACTER	12	WSARIVRC	Invalidation reason code
(4)		0	WSARIVL	"*-WSARIV"

Table 817.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WSARTM	TAKEOVER message from BACKUP
(0)	HALFWORD	2		Reserved
(2)	HALFWORD	2	WSARTMLN	Length of message
(4)	FULLWORD	4	WSARTMSI	Instance number of BACKUP trying to take over
(8)	CHARACTER	8	WSARTMIV (0)	
(8)	FULLWORD	4	WSARTMI#	Instance number of ACTIVE to be taken over
(C)	FULLWORD	4	WSARTMV#	Version number of ACTIVE to be taken over
(10)	CHARACTER	128	WSARTMSG	Takeover message
(10)		0	WSARTML	"*-WSARTM"

Table 818.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WSARQR	Message Management PUTREQ & PUTRSP messages
(0)	SIGNED	0	WSARQRL	"128" Length of a Request or Response Message
(0)	CHARACTER	128	WSARREQ	Request message (PUTREQ)
(80)	FULLWORD	4	(0)	Ensure full word alignment
(80)	CHARACTER	1	WSARRSP	Response message (PUTRSP)

Table 819.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WSASV1	Version 1 WSAS
(0)	SIGNED	1	WSV1ST1	System Status 1
	....		WSV1SOFN	"0" Signed off normally (must be 0)
(0)	SIGNED	0	WSV1SON	"1" Signed on
(0)	SIGNED	0	WSV1SOFA	"2" Signed off abnormally
(1)	SIGNED	1	WSV1ST2	System Status 2
(1)	SIGNED	0	WSV1ACT	"1" System is ACTIVE
(1)	SIGNED	0	WSV1INCP	"2" System is incipient ACTIVE
(1)	SIGNED	0	WSV1BKUP	"3" System is a BACKUP
(2)	HALFWORD	2		Reserved
(4)	CHARACTER	8	WSV1I#V# (0)	Instance and Version number
(4)	CHARACTER	8	WSV1IVN (0)	Alternative name for I & V
(4)	FULLWORD	4	WSV1INST	System's Instance number
(8)	FULLWORD	4	WSV1VERN	System's Version number (always 1 for BACKUPs)
(C)	CHARACTER	16	WSV1M (0)	Message state data (meaningful only for ACTIVE system)
(C)	FULLWORD	4	WSV1MCID	CIDF corresponding to AWC
(10)	CHARACTER	8	WSV1MAWC (0)	ACTIVE Write Cursor
(10)	FULLWORD	4	WSV1MCNO	Message cycle number
(14)	FULLWORD	4	WSV1MRBA	RBA of end of last message
(18)	FULLWORD	4	WSV1MSQN	Sequence no. of last message
(1C)	CHARACTER	12	WSV1MVSI	MVS System Identification - SMF ID and time & date of IPL
(28)	FULLWORD	4	WSV1HBI	'Heart-beat' interval
(2C)	FULLWORD	4	WSV1HBC	'Heart-beat' counter
(30)	HALFWORD	2		Reserved
(32)	HALFWORD	2	WSV1IHLL	Length of local 'Inquire Health' data

Table 819. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(34)	CHARACTER	256	WSV1IHLD	Local 'Inquire Health' data
(134)	HALFWORD	2		Reserved
(136)	HALFWORD	2	WSV1IHGL	Length of global 'Inquire Health' data
(138)	CHARACTER	128	WSV1IHGD	Global 'Inquire Health' data
(138)		0	WSV1L	"*-WSASV1"

WSC XRF CAVM Time-of-day clock difference

```
                    CONTROL BLOCK NAME = DFHWSCDS
                    DESCRIPTIVE NAME  = CICS (XRF) - CAVM TOD Clock Difference
                                                    Control Area
                        @BANNER_START 02
                                        DFHWSCDS
                        Licensed Materials - Property of IBM
                        "Restricted Materials of IBM"
                        5655-S97
                        @BANNER_END
                    FUNCTION =
                          A BACKUP system uses this control block to keep track of
                          the difference between the ACTIVE system's TOD clock and
                          its own when they are running in different CECs.
                          There is one instance of this control block per BACKUP.
                    LIFETIME =
                          DFHWSXPI creates this control block when a BACKUP system
                          signs on to CAVM and DFHWSTKV destroys it when the BACKUP
                          takes over from the ACTIVE.
                    STORAGE CLASS =
                          Non-CICS storage. In MVS subpool 0 above 16M line.
                    LOCATION =
                          Field WCGCKDA in the XRF Global Control Block (DFHWCGDS)
                          contains a pointer to the TOD Clock Difference Control Area.
                    INNER CONTROL BLOCKS =
                          None.
                    NOTES :
                       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 820.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WSCKD	TOD Clock Difference Control Area

Table 820. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	DBL WORD	8	CKDLTMIN	Current minimum estimate of amount by which ACTIVE's TOD clock is ahead of this BACKUP's
(8)	DBL WORD	8	CKDLTMAX	Current maximum estimate of amount by which ACTIVE's TOD clock is ahead of this BACKUP's
(10)	FULLWORD	4	CKDTOD	ACTIVE's TOD clock reading corresponding to the current deltas to permit compensation for relative gain or loss of TOD clocks
(10)	SIGNED	0	CKDSHIFT	"10" Shift value corresponding to max. assumed relative rate of gain or loss of two TOD clocks (1 in 1024)
(14)	CHARACTER	12	CKDMVSI	MVS instance (SMF ID, IPL time & date) to which clock difference refers
(14)		0	WSCKDL	"*-WSCKD"

WSM XRF CAVM state manager record description

```
CONTROL BLOCK NAME = DFHWSMDS
DESCRIPTIVE NAME  = CICS (XRF) - CAVM State Management
                                    Record Description
    @BANNER_START 02
                        DFHWSMDS
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION =
        This control block defines the format of the State
        Management Record in the CAVM Control Data Set, which
        is used to keep track of what CICS jobs are signed on
        to CAVM and their current state (ACTIVE, normal BACKUP,
        BACKUP performing TAKEOVER, etc.).
        There is one State Management Record in each CAVM
        Control Data Set. It contains just one instance of
        SMDESCR and instances of WSJDESC for each ACTIVE or
        BACKUP job which CAVM will allow to sign on concurrently
        using that particular CAVM Control Data Set. The instance
        of WSJDESC which immediately follows SMDESCR always refers
        to the ACTIVE job.
LIFETIME =
        The State Management Record is created by DFHWSSN3 when it
        formats a new CAVM Control Data Set and is initialised by
        DFHWSSN2 during the first successful SIGNON.
```

```
                    It is never destroyed except by deletion of the data set.
         STORAGE CLASS =
                 This control block resides on DASD in the CAVM Control
                 Data Set or in an I/O buffer or work area in MVS subpool
                 0 above the 16M line.
         LOCATION =
                 Field WFGSMRBA in the CAVM File Control Block (DFHWFGDS)
                 contains the RBA of the State Management Record within
                 the CAVM Control Data Set. It is always the second CI
                 in the data set.
         INNER CONTROL BLOCKS =
                 None.
         NOTES :
            DEPENDENCIES = S/370
            RESTRICTIONS =
                   None.
            MODULE TYPE = Control block definition
         ------------------------------------------------------------------
         EXTERNAL REFERENCES =
                 None.
            DATA AREAS =
                 None.
            CONTROL BLOCKS =
                 None.
            GLOBAL VARIABLES (Macro pass) =
                 None.
         ------------------------------------------------------------------
```

Table 821.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SMDESCR	State Management Record Global Data
(0)	FULLWORD	4	SMDSECCT	Security count updated whenever the State Management Record is updated
(4)	FULLWORD	4	SMDINST#	Instance Number assigned to last system which signed on (ACTIVE or BACKUP)
(8)	CHARACTER	8	SMDAI#V# (0)	Last ACTIVE instance & version
(8)	FULLWORD	4	SMDAINST	Instance no. of current (or last) ACTIVE system
(C)	FULLWORD	4	SMDAVERN	Version no. of current (or last) ACTIVE system
(10)	DBL WORD	8	SMDR#TOD (0)	Array of resource time-stamps
(10)	DBL WORD	8	SMDR1TOD	Time-stamp for resource set R1 - estimated reading of last updater's TOD clock when he signed off from CAVM

Table 821.   (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	DBL WORD	8	SMDR2TOD	Time-stamp for resource set R2 - estimated reading of last updater's TOD clock when his job terminated
(20)	HALFWORD	2	SMDR#NDX (0)	Array of resource ownership indices in same order as time-stamps
(20)	HALFWORD	2	SMDR1NDX	Index to the job description of the current owner of resource set R1 or 1's complement of last owner's index if R1 is free
(22)	HALFWORD	2	SMDR2NDX	Index to the job description of the current owner of resource set R2 or 1's complement of last owner's index if R2 is free
(24)	HALFWORD	2	SMDTKNDX	Index to the job description of the BACKUP which is performing TAKEOVER or 1's complement of index of last BACKUP to attempt it
(26)	HALFWORD	2	SMD#JOBS	Number of job descriptions in the State Management Record
(28)	DBL WORD	8	SMDSMJ0 (0)	Start of ACTIVE's job description
(28)		0	SMDL	"*-SMDESCR"

Table 822.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WSJDESC	State Management Record Job Description
(0)	CHARACTER	8	WSJSAPPL	Specific APPLID
(8)	CHARACTER	8	WSJOBNAM	Job Name
(10)	CHARACTER	8	WSJOBID	JES Job Identifier
(10)		0	WSJS1END	"*"
(8)	CHARACTER	16	WSJOBNID	

Table 822. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(18)	FULLWORD	4	WSJSTIME	Job submission time (from JMR)
(1C)	FULLWORD	4	WSJSDATE	Job submission date (from JMR)
(20)	FULLWORD	4	WSJATIME	Time when job-step task was ATTACHed
(24)	CHARACTER	4	WSJSSNAM	MVS subsystem name of job's JES
(28)	CHARACTER	12	WSJMVSID	MVS system instance - SMF ID and time & date of IPL
(28)		0	WSJS2END	"*"
(24)	CHARACTER	16	WSJMVSIJ	
(34)	CHARACTER	8	WSJCANNM	Name to use in MVS CANCEL command to cancel this job (from CSCB)
(3C)	HALFWORD	2	WSJASID	ASID of job's address space
(3C)		0	WSJS3END	"*"
(8)	CHARACTER	54	WSJOBSTI	
(3E)	CHARACTER	1	WSJSIND	System Indicator
(3E)	BITSTRING	0	WSJXCFA	"X'80'" XCF available in MVS release
(3F)	SIGNED	1	WSJSTAT	Job status - signed on, signed off normally or signed off abnormally
(40)	DBL WORD	8	WSJSNTOD	TOD clock reading when CAVM SIGNON processing started
(48)	CHARACTER	4	WSJRST (0)	Restart information field
(48)	CHARACTER	3	WSJEYECA	Restart Eyecatcher '>RS'
(4B)	CHARACTER	1	WSJRSTYP	Restart type indicator
(4B)	BITSTRING	0	WSJRSJOB	"X'01'" Restart as JOB
(4B)	BITSTRING	0	WSJRSSTC	"X'02'" Restart as Started Task
(4C)	FULLWORD	4		Spare
(50)	DBL WORD	8	(0)	Force length to double word multiple
(50)		0	WSJLVER1	"*-WSJDESC" Len of pre-CICS/ESA 3.2 job desc
(50)	CHARACTER	8	WSJSPLX	XCF Sysplex Name

Table 822. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(58)	CHARACTER	8	WSJSNAM	MVS Sytem name
(60)	CHARACTER	4	WSJSTOK	MVS System Instance token
(68)	DBL WORD	8	(0)	Force length to double word
(68)		0	WSJS4END	"*"
(50)	CHARACTER	24	WSJXCFD	XCF Details
(58)	CHARACTER	16	WSJSDET	MVS System details
(68)		0	WSJL	"*-WSJDESC" Len of CICS/ESA 3.2 job desc.

The following DSECT describes the control CI of the CAVM control
and message datasets. All the fields are set by DFHWSSN3 when
it opens a new pair of CAVM datasets for the first time and the
contents are verified on all subsequent SIGNON's.

Table 823.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	CTLREC	Control CI description
(0)	FULLWORD	4	CTLVER#	CAVM dataset version number CTLVER# = 1 --> Pre CICS 3.2 CTLVER# = 2 --> CICS 3.2
(4)	FULLWORD	4		
(8)	CHARACTER	8	CTLDDN	CAVM DD name (CDS or MDS ?)
(10)	CHARACTER	8	CTLGAPPL	Generic applid initialised for
(18)	CHARACTER	20	CTLUNQID	TOD d/s initialised plus MVS id
(18)		0	CTLRECL	"*-CTLREC"

WSN XRF DFHWSMS entry points table

```
CONTROL BLOCK NAME = DFHWSNDS
DESCRIPTIVE NAME  = CICS (XRF) - Table of Entry Points in
                                    load module DFHWSMS
    @BANNER_START 02
                        DFHWSNDS
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION =
      This entry point table makes the entry points of modules
      in load module DFHWSMS available for use by code in the
      separate transient CAVM SIGNON load module DFHWSSON.
      The only instance of the table is in module DFHWSTI.
LIFETIME =
```

```
                 Not applicable.
       STORAGE CLASS =
                 Not applicable.
       LOCATION =
                 This entry point table is contained in module DFHWSTI.
                 On entry to DFHWSXPI, its address is in R1.
       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 824.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SMSENTAB	Table of entry points in DFHWSMS
(0)	ADDRESS	4	SMSESTKV	EPA of DFHWSTKV
(4)	ADDRESS	4	SMSESSW	EPA of DFHWSSW
(8)	ADDRESS	4	SMSESSR	EPA of DFHWSSR
(C)	ADDRESS	4	SMSEMMI	EPA of DFHWMMI

WSR XRF CAVM surveillance

```
       CONTROL BLOCK NAME = DFHWSRDS
       DESCRIPTIVE NAME  = CICS (XRF) - CAVM Surveillance
                                                  Communications Area
          @BANNER_START 02
                            DFHWSRDS
          Licensed Materials - Property of IBM
          "Restricted Materials of IBM"
          5655-S97
          @BANNER_END
       FUNCTION =
             The Surveillance Communications Areas are needed to allow
             the 4 independent CAVM surveillance processes (2 status
             writers and 2 status readers) to share some common data.
             In each XRF system, there are separate Surveillance
             Communications Areas referring to each actual or potential
             partner XRF system as well as a single Surveillance
             Communications Area referring to that system itself.
             The Status Record Header contains a TOD clock reading used
             in clock difference calculations and a sequence number used
             to determine which of two status records contains the more
             up-to-date information. It is built immediately before
             writing an XRF system's status to its Status CI in the
             CAVM Control Data Set or Message Data Set.
       LIFETIME =
             All the Surveillance Communications Areas in a given XRF
             system are created at the same time during CAVM SIGNON by
             DFHWSSN2.
```

```
                    STORAGE CLASS =
                          Non-CICS storage. In MVS subpool 0 above 16M line.
                    LOCATION =
                          Field WSADSRCP in each Public Status Area Descriptor (WSAD)
                          contains a pointer to the corresponding XRF system's
                          Surveillance Communications Area.
                    INNER CONTROL BLOCKS =
                          None.
                    NOTES :
                      DEPENDENCIES = S/370
                      RESTRICTIONS =
                            None.
                      MODULE TYPE = Control block definition
                  ----------------------------------------------------------------
                    EXTERNAL REFERENCES =
                          None.
                      DATA AREAS =
                          None.
                      CONTROL BLOCKS =
                          None.
                      GLOBAL VARIABLES (Macro pass) =
                          None.
                  ----------------------------------------------------------------
```

Table 825.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SRHEADER	Status Record Header
(0)	DBL WORD	8	SRHTOD	Latest TOD clock reading
(8)	FULLWORD	4	SRHSEQ#	Sequence number of Status Write
(8)		0	SRHEADRL	"*-SRHEADER" Length of Status Record Header
(8)		0	SRHWSAS	"*" Start of common shared section of Status (WSAS)

Table 826.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	SRVCOM	Surveillance Communications Area
(0)	CHARACTER	1	SRVCHBOD	Indicator that 'heart-beat overdue' NOTIFY has been issued
(1)	CHARACTER	1	SRVCSOFA	Indicator that 'sign-off' abnormal NOTIFY has been issued
(2)	CHARACTER	1	SRVCSVCF	Indicator that DFH6646 msg has been issued as a result of SVC failureL1A

Table 826. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(3)	BITSTRING	1	SRVCHBPM	'Heart-beat' position mask showing which CAVM file is being read to track this partner's 'heart-beat'
(4)	BITSTRING	1	SRVCHBLM	'Heart-beat' late mask showing which files have been read without finding this partner's 'heart-beat'
(5)	BITSTRING	1	SRVCIOEM	I/O error mask showing which files have had an I/O error during the last read or write of this status CI
(8)	FULLWORD	4	SRVCLIHT	TOD when most recent indication that this partner's 'INQUIRE HEALTH' exit had run was detected
(C)	FULLWORD	4	SRVCPBS#	Status write sequence no. of Public Status
(10)	FULLWORD	4	SRVCLS#P	Sequence no. of latest status read from or written to the control file
(14)	FULLWORD	4	SRVCLS#S	Sequence no. of latest status read from or written to the message file
(14)		0	SRVCOML	"*-SRVCOM"

WSS XRF CAVM state manager parameter list

```
CONTROL BLOCK NAME = DFHWSSDS
DESCRIPTIVE NAME  = CICS (XRF) - CAVM State Management
                                  Parameter Block
    @BANNER_START 02
                       DFHWSSDS
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5655-S97
    @BANNER_END
FUNCTION =
      The CAVM State Management Parameter Block is used to
      describe a CAVM SIGNON, SIGNOFF or TAKEOVER request.
LIFETIME =
      Determined by the user of CAVM.
STORAGE CLASS =
      Determined by the user of CAVM.
LOCATION =
      On entry to CAVM code, R1 points at the parameter block.
INNER CONTROL BLOCKS =
```

```
                  None.
          NOTES :
             DEPENDENCIES = S/370
             RESTRICTIONS =
                    None.
             MODULE TYPE = Control block definition
        ------------------------------------------------------------------
          EXTERNAL REFERENCES =
                   None.
              DATA AREAS =
                   None.
              CONTROL BLOCKS =
                   None.
              GLOBAL VARIABLES (Macro pass) =
                   None.
        ------------------------------------------------------------------
```

Table 827.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHWSSDS	State management parameter block - pointed to by R1
(0)	FULLWORD	4	WSSFUNC	Function
(4)	HALFWORD	2	WSSFUNCM	Function modifier
(6)	SIGNED	1	WSSRESP	Response
(7)	SIGNED	1	WSSREASC	Reason code
(8)	ADDRESS	4	WSSUNIQA	Addr. of section unique to function
(C)	FULLWORD	4	WSSUNIQL	Length of section unique to function
(C)		0	WSSCOMND	"*" End of common section
(C)		0	WSSCOMLN	"*-DFHWSSDS" Length of common section

Table 828.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WSSSONDS	Unique parameters for SIGNON
(0)	CHARACTER	8	WSSGAPPL	Generic APPLID
(8)	CHARACTER	8	WSSSAPPL	Specific APPLID
(10)	ADDRESS	4	WSSNFEPA	Address of NOTIFY exit routine
(14)	FULLWORD	4	WSSNFPRM	Parameter for NOTIFY exit
(18)	ADDRESS	4	WSSIHEPA	Address of INQUIRE HEALTH exit
(1C)	FULLWORD	4	WSSIHPRM	Parameter for INQUIRE HEALTH exit
(20)	FULLWORD	4	WSSHBINT	Heart-beat interval in seconds

Table 828. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	CHARACTER	4	WSSMVID	MVS SMF id. returned to caller
(28)	CHARACTER	4	WSSJSID	JES subsystem id. ret to caller
(2C)	CHARACTER	8	WSSSPLX	XCF Sysplex name
(34)	CHARACTER	8	WSSSNAM	MVS System name
(3C)	CHARACTER	4	WSSSTOK	MVS System Instance token
(40)	BITSTRING	1	WSSSIND	MVS System Indicator byte
(40)	BITSTRING	0	WSSXCFA	"X'80'" ... XCF services available
(40)		0	WSSSONND	"*" End of section unique to SIGNON
(40)		0	WSSSONLN	"*-WSSSONDS" Length of section unique to SIGNON

Table 829.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WSSSOFDS	Unique parameters for SIGNOFF
(0)	ADDRESS	4		Reserved - must be zero
(4)	HALFWORD	2		Reserved half-word - must be zero
(6)	HALFWORD	2		Reserved - must be zero
(8)	ADDRESS	4	WSSSFMMA	Address of my response msg buffer
(C)	HALFWORD	2	WSSSFMBL	Length of my response msg buffer
(E)	HALFWORD	2	WSSSFMML	Length of msg received from partner
(E)		0	WSSSOFND	"*" End of section unique to SIGNOFF
(E)		0	WSSSOFLN	"*-WSSSOFDS" Length of section unique to SIGNOFF

Table 830.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WSSTKVDS	Unique parameters for TAKEOVER
(0)	FULLWORD	4	WSSINST#	Instance number of ACTIVE

Table 830. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	FULLWORD	4	WSSVER#	Version number of ACTIVE (ignored if request is pre-emptive)
(8)	FULLWORD	4	WSSJTMTL	Job termination time limit (seconds)
(C)	ADDRESS	4	WSSTKVMA	Address of 'TAKEOVER' msg for ACTIVE
(10)	HALFWORD	2		Reserved half-word - must be zero
(12)	HALFWORD	2	WSSTKVML	Length of 'TAKEOVER' msg for ACTIVE
(12)		0	WSSTKVND	"*" End of section unique to TAKEOVER
(12)		0	WSSTKVLN	"*-WSSTKVDS" Length of section unique to TAKEOVER
Function codes - values for WSSFUNC				
(12)	SIGNED	0	WSSFSON	"1" SIGNON
(12)	SIGNED	0	WSSFSOFF	"2" SIGNOFF
(12)	SIGNED	0	WSSFTKVR	"3" TAKEOVER
Function modifiers - values for WSSFUNCM				
	....		WSSMSONA	"0" SIGNON as ACTIVE
(12)	SIGNED	0	WSSMSONB	"1" SIGNON as BACKUP
	....		WSSMSOFN	"0" SIGNOFF NORMAL
(12)	SIGNED	0	WSSMSOFA	"1" SIGNOFF ABNORMAL
	....		WSSMTKVN	"0" Non-pre-emptive TAKEOVER
(12)	SIGNED	0	WSSMTKVP	"1" Pre-emptive TAKEOVER

WST XRF takeover parameter area

```
CONTROL BLOCK NAME = DFHWSTDS
DESCRIPTIVE NAME  = CICS (XRF) - Takeover Parameter Area
  @BANNER_START 02
                        DFHWSTDS
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5655-S97
  @BANNER_END
FUNCTION =
```

The Takeover Parameter Area is a storage area belonging to
the CAVM TCB which is used to keep copies of the parameters
CICS specified on the TAKEOVER request that the CAVM TCB
is currently working on. DFHWSRTR makes the copies of the
TAKEOVER parameters while running under the CICS TCB and
the requesting TCA. If a subsequent failure in this TCA
should lead to the freeing of the storage it owns, the
CAVM TCB's processing of the TAKEOVER request will not be
affected.
Each XRF BACKUP system has a single TAKEOVER parameter area.
To avoid the problems which might arise from concurrent use
of the Takeover Parameter Area, the CAVM TCB does not
reference it unless the POST bit in WCSTXECB is 1, whereas
the CICS TCB does not reference it unless this bit is 0 and
also issues a CICS ENQ on WCSTCECB to serialise with other
CICS TCAs which might be issuing TAKEOVER requests.
LIFETIME =
        The Takeover Parameter Area is created by DFHWSXPI when a
        BACKUP system signs on to CAVM and is destroyed by
        DFHWSTKV during TAKEOVER processing.
STORAGE CLASS =
        Non-CICS storage. In MVS subpool 0 above 16M line.
LOCATION =
        Field WCSTKVPP in the XRF Static Area (DFHWCSDS) contains
        a pointer to the Takeover Parameter Area.
INNER CONTROL BLOCKS =
        None.
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
         None.
    MODULE TYPE = Control block definition

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

Table 831.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	TKVPA	TAKEOVER parameter area
(0)	HALFWORD	2	TKVFUNCM	Copy of TAKEOVER modifier from State Management parameter list
(2)	HALFWORD	2		Reserved - must be zero
(4)	FULLWORD	4	TKVINST#	Instance no. of ACTIVE system to be taken over
(8)	FULLWORD	4	TKVVER#	Version no. of ACTIVE system to be taken over (ignored if pre-emption is requested)

Table 831. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	FULLWORD	4	TKVJTMTL	Time limit for termination of the ACTIVE job after which operator assistance is sought (seconds)
(10)	FULLWORD	4	TKVMSGL	Length of TAKEOVER message to send to the ACTIVE job
(14)	CHARACTER	128	TKVMSG	TAKEOVER message for ACTIVE job
(14)		0	TKVPALEN	"*-TKVPA"

WSX XRF CAVM surveillance exits

```
              CONTROL BLOCK NAME = DFHWSXDS
              DESCRIPTIVE NAME  = CICS (XRF) - CAVM Surveillance Exits
                                              Control Area
                @BANNER_START 02
                                  DFHWSXDS
                Licensed Materials - Property of IBM
                "Restricted Materials of IBM"
                5655-S97
                @BANNER_END
              FUNCTION =
                    The Surveillance Exits Control Area contains the entry
                    point addresses and parameter values that the user
                    specified at CAVM SIGNON for the NOTIFY and INQUIRE HEALTH
                    exits, which are driven under the CAVM TCB during
                    surveillance processing.
                    Each XRF system contains a single Surveillance Exits
                    Control Area.
              LIFETIME =
                    The Surveillance Exits Control Area is created by DFHWSSN2
                    during CAVM SIGNON.
              STORAGE CLASS =
                    Non-CICS storage. In MVS subpool 0 above 16M line.
              LOCATION =
                    Field WCGSXA in the XRF Global Control Block (DFHWCGDS)
                    contains a pointer to the Surveillance Exits Control Area.
              INNER CONTROL BLOCKS =
                    None.
              NOTES :
                 DEPENDENCIES = S/370
                 RESTRICTIONS =
                       None.
                 MODULE TYPE = Control block definition
              ----------------------------------------------------------------
               EXTERNAL REFERENCES =
                       None.
                  DATA AREAS =
                       None.
                  CONTROL BLOCKS =
                       None.
                  GLOBAL VARIABLES (Macro pass) =
                       None.
              ----------------------------------------------------------------
```

Table 832.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHWSXDS	Surveillance Exits Control Area
(0)	DBL WORD	8	WSXNFEPM (0)	Data for NOTIFY exit
(0)	ADDRESS	4	WSXNFEPA	NOTIFY exit entry point
(4)	ADDRESS	4	WSXNFPRM	NOTIFY exit parameter (R0)
(8)	DBL WORD	8	WSXIHEPM (0)	Data for INQUIRE HEALTH exit
(8)	ADDRESS	4	WSXIHEPA	INQUIRE HEALTH exit entry point
(C)	ADDRESS	4	WSXIHPRM	INQUIRE HEALTH exit parameter (R0)
(C)		0	WSXEND	"*"
(C)		0	WSXLEN	"*-DFHWSXDS" Length of control block

WTA XRF takeover initiation argument block

```
            CONTROL BLOCK NAME = DFHWTADS
            DESCRIPTIVE NAME  = CICS XRF Takeover Initiation
                              Argument Block
              @BANNER_START 02
                              DFHWTADS
            Licensed Materials - Property of IBM
            "Restricted Materials of IBM"
            5655-S97
            @BANNER_END
            FUNCTION =
                  Used to specify arguments for a request to
                  XRF Takeover Initiation Program (DFHWTI).
                  Requests are:
                     o Takeover Initiation
                     o Verify CLT
                     o Overseer Operator Command
                     o Inquire Job Status
                     o Process CLT
                     o Issue MODIFY USERVAR
                     o Terminate External Subsystem
                     o Verify AXI
                     o Issue subsystem command
                     o Disable XRF services
                  There is one instance of this control block per request.
            LIFETIME =
                  Created and destroyed by caller.
            STORAGE CLASS =
                  MVS program key storage.
            LOCATION =
                  Pointed to by R1 on entry to Takeover Initiation Program.
            INNER CONTROL BLOCKS =
                  None.
            NOTES :
               DEPENDENCIES = S/370 XA
               RESTRICTIONS =
               MODULE TYPE = Control block definition
```

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

Table 833.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHWTADS	
REQUEST TYPE				
(0)	FULLWORD	4	WTAREQ (0)	
(0)	BITSTRING	1	WTAFUNC	Function
(1)	BITSTRING	1	WTAMOD	Modifier
(2)	CHARACTER	1	(2)	Reserved
ARGUMENTS:				
(4)	FULLWORD	4	WTAARGS (0)	
Takeover Initiation Inquire Job Status Process CLT				
	....		WTACLLEN	"*-WTAARGS" Length of arguments for
(4)	CHARACTER	1	WTAICIND	CEC indicators Treat old active job as..
(4)	BITSTRING	0	WTAICISA	"X'80'" ..same MVS instance
(4)	BITSTRING	0	WTAISYSA	"X'40'" ..same XCF Sysplex
(6)	HALFWORD	2	WTAISCMD	Command code (Issue subsys cmd)
(8)	CHARACTER	4	WTAICMVS	MVS system identifier if active
(C)	FULLWORD	4	WTAICTOD	Most significant fullword of
(10)	CHARACTER	8	WTAIJOBN	Job name as known by JES
(18)	CHARACTER	8	WTAIJOBI	Job identifier as known by JES
(20)	CHARACTER	8	WTAISNAM	MVS System name (CVTSNAM)
(28)	CHARACTER	4	WTAISTOK	MVS Instance Token (QUASSID)
(2C)	BITSTRING	1	WTAISTAT	MVS System State
(2C)	BITSTRING	0	WTAISPRT	"X'80'" ..In Sysplex Partitioning
(2C)	BITSTRING	0	WTAILOCL	"X'40'" ..In XCFLOCAL mode
(2D)	CHARACTER	1	(3)	Reserved

Table 833. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2D)		0	WTAIJLEN	"*-WTAARGS" Length of arguments for
(30)	CHARACTER	8	WTAITCAN	Job name for CANCEL command
(38)	CHARACTER	4	WTAITJES	JES subsystem name
(3C)	HALFWORD	2	WTAITASI	Address space indentifier
(3E)	HALFWORD	2		Reserved OLD CICS ACTIVE WAIT FOR TERMINATION DATA:
(40)	FULLWORD	4	WTAIJESI	JES delay interval
(40)		0	WTATILEN	"*-WTAARGS" Length of arguments for
(40)		0	WTAVCLEN	"*-WTAARGS" Length of arguments for
(44)	CHARACTER	4	WTAISSID	External subsystem id.
(44)		0	WTASCLEN	"*-WTAARGS" Length of arguments for
(44)		0	WTATELEN	"*-WTAARGS" Length of arguments for
(44)		0	WTAVALEN	"*-WTAARGS" Length of arguments for
Modify Uservar Overseer Operator Command Disable XRF services				
	....		WTADXLEN	"*-WTAARGS" Length of arguments for
	....		WTAMULEN	"*-WTAARGS" Length of arguments for
(4)	CHARACTER	5	WTAOCOMD (0)	Command data
(4)	ADDRESS	4	WTAOCAD	Address of command string
(8)	BITSTRING	1	WTAOCCL	Command string length (Maximum
(8)		0	WTAOCLEN	"*-WTAARGS" Length of arguments for
Inquire System Details				
(4)	CHARACTER	8	WTAGSNAM	MVS System Name (CVTSNAM)
(C)	CHARACTER	4	WTAGSTOK	MVS Instance Token (QUASSID)
(10)	BITSTRING	1	WTAGSTAT	MVS System State
(10)	BITSTRING	0	WTAGSPRT	"X'80'" ...In Sysplex Partitioning

Table 833. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(10)	BITSTRING	0	WTAGLOCL	"X'40'" ...In XCFLOCAL mode
(10)		0	WTAGSLEN	"*-WTAARGS" Length of arguments for
(48)		0	WTALEN	"*-DFHWTADS" Overall length
..as in MVS DSECT SSOB Request Function codes (WTAFUNC)				
(48)	BITSTRING	0	WTAFTI	"X'01'" Takeover Initiation
(48)	BITSTRING	0	WTAFJS	"X'02'" Inquire Job Status
(48)	BITSTRING	0	WTAFVC	"X'03'" Verify CLT
(48)	BITSTRING	0	WTAFOC	"X'04'" Overseer Operator Command
(48)	BITSTRING	0	WTAFMU	"X'05'" Issue 'F USERVAR'
(48)	BITSTRING	0	WTAFCL	"X'06'" Process CLT only
(48)	BITSTRING	0	WTAFTE	"X'07'" Terminate External Subsystem
(48)	BITSTRING	0	WTAFVA	"X'08'" Verify AXI
(48)	BITSTRING	0	WTAFSC	"X'09'" Issue subsystem command
(48)	BITSTRING	0	WTAFDX	"X'0A'" Disable XRF services
(48)	BITSTRING	0	WTAFIS	"X'0B'" Inquire MVS system details
Request Modifiers Takeover initiation				
(48)	BITSTRING	0	WTATICM	"X'01'" Do not terminate active job
(48)	BITSTRING	0	WTATIPC	"X'02'" Do not process CLT
(48)	BITSTRING	0	WTATICS	"X'04'" Process CLT for same CEC only
Process CLT				
(48)		0	WTATPCS	"WTATICS" Process CLT for same CEC only
Takeover external subsystem				
(48)		0	WTATECM	"WTATICM" Do not terminate active system
Verify AXI				
(48)	BITSTRING	0	WTAVANCN	"X'01'" Do not check cancel name in AXI

Table 833. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(48)	BITSTRING	0	WTAVANSS	"X'02'" Do not check subsystem id.
Command Codes (WTAISCMD) Issue Subsystem Command				
(48)	SIGNED	0	WTASCERE	"1" /ERE
(48)	SIGNED	0	WTASCSWT	"2" /SWITCH STANDBY SYSTEM
RETURN CODES: Contents of register 15 on return				
	....		WTARC0	"0" Successful: Warning reason
(48)	SIGNED	0	WTARCF	"8" Failure: Failure reason
Contents of register zero on return Byte 0 Original function code Byte 1 Original modifier Bytes 2-3 Reason code as below Reason code values Any request type Failures				
(48)	BITSTRING	0	WTARISD	"X'0004'" Service disabled
(48)	BITSTRING	0	WTARIIA	"X'0008'" Invalid request or argument
Takeover Initiation Warnings				
(48)	BITSTRING	0	WTARIDV	"X'000C'" CEC Dead Data request failed
(48)	BITSTRING	0	WTARIDG	"X'0010'" CEC Dead Data PUT failed due
(48)	BITSTRING	0	WTARITF	"X'0014'" Terminate command failed
Failures				
(48)	BITSTRING	0	WTARIAF	"X'0018'" Authorization check failed
(48)	BITSTRING	0	WTARIAS	"X'001C'" AFCS not found
Inquire Job Status Successful:				
	....		WTARJNX	"X'0000'" Job not executing - says JES
(48)	BITSTRING	0	WTARJSX	"X'0020'" Job executing
(48)	BITSTRING	0	WTARXNX	"X'0021'" Job not executing - says XCF
Failures				

Table 833. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	BITSTRING	0	WTARJXF	"X'0023'" IXCQUERY failure
(48)	BITSTRING	0	WTARJNU	"X'0024'" JES not up
(48)	BITSTRING	0	WTARJSSG	"X'0025'" subt. stor. Getmain failed
(48)	BITSTRING	0	WTARJSAT	"X'0026'" Subtask Attach failed
(48)	BITSTRING	0	WTARJSTO	"X'0027'" Subtask TimeOut
(48)	BITSTRING	0	WTARJSE	"X'0028'" Subtask error
(48)	BITSTRING	0	WTARJJDE	"X'0029'" Jes Detected Error
Verify CLT Failures:				
(48)		0	WTARVAF	"WTARIAF" Authorization check failed
(48)		0	WTARVAS	"WTARIAS" AFCS not found
(48)	BITSTRING	0	WTARVNF	"X'002C'" Cancel name check failed
(48)	BITSTRING	0	WTARVMF	"X'0030'" MVS SID check failed
(48)	BITSTRING	0	WTARVJF	"X'0034'" JES subsystem name check failed
(48)	BITSTRING	0	WTARVSF	"X'0038'" Subsystem name check failed
Overseer Operator Command Failures:				
(48)	BITSTRING	0	WTARONA	"X'003C'" Not authorised
Process CLT Failures:				
(48)		0	WTARPAF	"WTARIAF" Authorization check failed
(48)		0	WTARPAS	"WTARIAS" AFCS not found
(48)	BITSTRING	0	WTARIMC	"X'0040'" Modify uservar CSCB not found
(48)	BITSTRING	0	WTARIMB	"X'0044'" Modify uservar command too long

Table 833. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(48)	BITSTRING	0	WTARIMS	"X'0048'" Modify uservar MGCR SVC error
(48)	BITSTRING	0	WTARIMV	"X'004C'" Modify uservar ISTAVT not found
Issue Subsystem Command Failures:				
(48)	BITSTRING	0	WTARCSF	"X'0050'" SSI failure
(48)	BITSTRING	0	WTARCCF	"X'0054'" Command failure
Inquire System Details command Successful:				
(48)	BITSTRING	0	WTARSOK	"X'0060'" Inquire system details OK
(48)	BITSTRING	0	WTARSNFN	"X'0061'" Named system not in sysplex
Failures:				
(48)	BITSTRING	0	WTARSLOG	"X'0065'" IXCQUERY Logic error

```
              Contents of register 1 on return
              Subtask failure indicators
     For Takeover Initiation, Terminate Subsystem
     and Inquire Job Status :-
              SSI/Subtask error status data
```

Table 834.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WTARCR1	
(0)	FULLWORD	4	WTARSSRC (0)	SSI/Subtask error flags
(0)	BITSTRING	1	WTARSJND	STATUS error indicators:
(0)	BITSTRING	0	WTARSJNC	"X'80'" STATUS has hung. When caller TCB
(0)	BITSTRING	0	WTARSJNJ	"X'01'" SSOBRETN byte 3 from IEFSSREQ
(0)	BITSTRING	0	WTARSJNS	"X'02'" R15 byte 3 from IEFSSREQ
(0)	BITSTRING	0	WTARSJNG	"X'04'" Subtask/exit routine storage
(0)	BITSTRING	0	WTARSJNA	"X'08'" Subtask ATTACH failed
(0)	BITSTRING	0	WTARSJNT	"X'10'" Subtask timeout occurred

Table 834. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1)	BITSTRING	1	WTARSJSE	SSI return code from STATUS
(2)	BITSTRING	1	WTARSVND	SSI VERIFY/COMMAND errors
(2)	BITSTRING	0	WTARSVNJ	"X'01'" SSOBRETN byte 3 from IEFSSREQ
(2)	BITSTRING	0	WTARSVNS	"X'02'" R15 byte 3 after IEFSSREQ
(2)	BITSTRING	0	WTARSVNM	"X'04'" CICS not an MVS subsystem
(3)	BITSTRING	1	WTARSVSE	SSI return code from VERIFY/COMMAND

WTG XRF trace control area

```
CONTROL BLOCK NAME = DFHWTGPS
DESCRIPTIVE NAME  = CICS (XRF) Trace Control area
 @BANNER_START 02
                        DFHWTGPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     Contains description of the XRF Trace area. There is
     a single instance.
LIFETIME =
     Created on first call to XRF Trace (normally the result
     of the call to GET LIFO (DFHWLGET) made by XRF ATTACH
     (DFHWDATT) when called from INITIAL ATTACH (DFHWDINA)
     during the XRF SIGNON process.
     Destroyed during XRF SIGNOFF.
STORAGE CLASS =
     Non-CICS storage. Usually above 16M line.
LOCATION =
     Addressed by WCGTRA in XRF Global area DFHWCGPS.
INNER CONTROL BLOCKS =
     WTGAREA When DFHWTRP allocates the Trace control area
             it also allocates the trace area itself.
             WTGAREA describes the header of the trace area.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
       None
 MODULE TYPE = Control block definition
-----------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
       None
   CONTROL BLOCKS =
       WCGTRA Base for trace control area.
-----------------------------------------------------------------
```

Table 835.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	DFHWTGPS	Addressed from WS Global
(0)	CHARACTER	16	WTGAHDNG	Heading text - text is defined in WTGATEXT
(10)	ADDRESS	4	WTGSTART	Start of trace table
(14)	ADDRESS	4	WTGEND	End of trace table
(18)	ADDRESS	4	WTGNEXT	Next trace table entry
(1C)	BIT(16)	2	WTGFLAGS	
	1...		WTGFWRAP	Table has wrapped
(1C)	BIT(15) POS(2)	2	*	Reserved
(1E)	HALFWORD	2	*	Reserved
(20)	CHARACTER	8	WTGCLOCK	Target for STCK instrn issued by DFHWTRP.
(28)	ADDRESS	4	*	Reserved
(2C)	UNSIGNED	4	*	Reserved
(30)	CHARACTER	8	WTGCOPY	Shifted copy of STCK
(30)	UNSIGNED	4	WTG1647	STCK bits 16-47
(38)	ADDRESS	4	WTGCSTEP	Address of latest clock step entry.
(3C)	ADDRESS	4	WTGENTRY	Work space for trace

Constants

Table 836.

Len	Type	value	Name	Description
Size of trace area to be allocated				
4	DECIMAL	65536	WTGASIZE	Allocate 64K
Heading text				
16	CHARACTER	*** XRF TRACE **	WTGATEXT	

WTR XRF trace interface

```
CONTROL BLOCK NAME = DFHWTRPS
DESCRIPTIVE NAME  = CICS (XRF) XRF Trace Interface
 @BANNER_START 02
                      DFHWTRPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     XRF Trace parameter block description used by a caller
     of trace as a template to build a parameter block to
     pass to trace (DFHWTRP).
LIFETIME =
     Duration of this particular use of storage is a single
```

```
                        call to trace.
            STORAGE CLASS =
                User's discretion subject to lifetime constraint.
            LOCATION =
                Address is passed to DFHWTRP in Register 1.
            INNER CONTROL BLOCKS =
                WTRENTRY This defines the structure of the entries in
                         the XRF trace area and includes DFHWTRPS itself.
                WTRXxx Several definitions of the contents of the user
                         parts of trace entries for the various primary
                         entry types. DFHWTRPS also contains declarations
                         of the values for the primary types and subtypes
                         of the trace table entries.
           NOTES :
            DEPENDENCIES = S/370
            RESTRICTIONS =
                   None
            MODULE TYPE = Control block definition
        ---------------------------------------------------------------
         EXTERNAL REFERENCES =
           DATA AREAS =
               None
           CONTROL BLOCKS =
               None
           GLOBAL VARIABLES (Macro pass) =
               None
        ---------------------------------------------------------------
         Interface to trace and user data part of trace entry
```

Table 837.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	28	DFHWTRPS	
(0)	CHARACTER	2	WTRTYPE	Entry type
(0)	UNSIGNED	1	WTRPRITP	Primary type code
(1)	UNSIGNED	1	WTRSUBTP	Subtype code
(2)	HALFWORD	2	WTRXPBNO	Process id. (set by trace routine not caller)
(4)	CHARACTER	24	WTRUSFLD	User fields

```
                    Trace Entry format
```

Table 838.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	WTRENTRY	
(0)	CHARACTER	28	WTRUDATA	User data part
(1C)	UNSIGNED	4	WTRCLOCK	Bits 15-46 of STCK value relative to last midnight
(20)	CHARACTER	0	WTREND	

```
          Specific trace entry formats.

         Linkage
```

Table 839.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	WTRX01	Call
(0)	CHARACTER	8	WTRX01NM	Module name
(8)	ADDRESS	4	WTRX01LA	LIFO allocation address

```
                  Dispatcher
                    Usage is: WTRSTATT - WTRX021 = WDSIEPA (ATTACH argument)
                                              22 = WDSIIDA
                                              23 = WDSESPIE
                                              24 = WDSESTAE
                                              25 = Addr of attached process XPB
                                              26 = Process id. of attached proc.
                              WTRSTDET - No data
                              WTRSTDSP - WTRX021 = WXBEECBA
                                              22 = WXBIECBA
                                              23 = WXBWEVM
                                              24 = WXBPEVM
                                              25 = Addr of process XPB
                                              26 = WXBHLKM
                              WTRSTXWE - WTRX021 = WDSEECBA (WAIT arguments)
                                              22 = WDSIECBA
                                              23 = WDSWEVM
                                              24 = WDSPEVM
                                              25 = WDSREVM
                              WTRSTXWL - WTRX021 = WDSFLKM (WAIT arguments)
                                              22 = WDSGLKM
                                              25 = WDGGLKSM
                                              26 = WXBHLKM
                              WTRSTEND - No data
                              WTRSTOSW - WTRX025 = Addr of MVS WAIT list
                                              26 = Number of events in list
                              WTRSTOSR - No data
```

Table 840.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	WTRX02	Dispatcher
(0)	ADDRESS	4	WTRX021	Field 1
(4)	ADDRESS	4	WTRX022	Field 2
(8)	ADDRESS	4	WTRX023	Field 3
(C)	ADDRESS	4	WTRX024	Field 4
(10)	ADDRESS	4	WTRX025	Field 5
(14)	ADDRESS	4	WTRX026	Field 6

```
                  Message Manager I/O
```

Table 841.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	WTRX03	Call
(0)	ADDRESS	4	WTRX03RP	RPL address
(4)	ADDRESS	4	WTRX03RB	RBA of CI
(8)	CHARACTER	1	*	Reserved
(9)	CHARACTER	3	WTRX03FB	VSAM Feedback

```
        Message Manager Requests
      Usage is: WTRSTENQ - WTRX042 = Queue name
                              43 = Message sequence number
                              44 = Address of message block
                  WTRSTWRT - WTRX042 = QUEUE name
                              43 = Message sequence number
                              44 = Message cycle number
                              45 = RBA of message
                              46 = Response to request
                  WTRSTRQO - WTRX041 = Instance number
                              42 = Version number
                              43 = Message sequence number
                              44 = Channel number
                              45 = Channel status
                              46 = Response to request
            WTRSTRPO, WTRSTRQI, WTRSTRPI same as WTRSTRQO
```

Table 842.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	24	WTRX04	Message manager requests
(0)	CHARACTER	8	WTRX04IV	Instance/Version
(0)	ADDRESS	4	WTRX041	Field 1
(4)	ADDRESS	4	WTRX042	Field 2
(8)	ADDRESS	4	WTRX043	Field 3
(C)	ADDRESS	4	WTRX044	Field 4
(10)	ADDRESS	4	WTRX045	Field 5
(14)	ADDRESS	4	WTRX046	Field 6
(14)	CHARACTER	2	*	Filler
(16)	CHARACTER	2	WTRX046R	Field 6R

```
        Clock step
```

Table 843.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	WTRXFE	Clock step
(0)	CHARACTER	8	WTRXFECK	Actual STCK value
(8)	UNSIGNED	4	WTRXFEOM	Old midnight value
(C)	UNSIGNED	4	WTRXFENM	New midnight value
(10)	ADDRESS	4	WTRXFEPE	Previous clock step entry

```
        Reserved
```

Table 844.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	WTRXFF	Reserved
(0)	CHARACTER	0	*	Reserved

Constants

Table 845.

Len	Type	value	Name	Description
Trace types codes - Values for WTRPRITP and WTRSUBTP.				
1	DECIMAL	1	WTRPTLNK	Link
1	DECIMAL	1	WTRSTCAL	Link - Call
1	DECIMAL	2	WTRSTRTN	Link - Return
1	DECIMAL	2	WTRPTDSP	Dispatcher
1	DECIMAL	1	WTRSTATT	Disp - Process Attach
1	DECIMAL	2	WTRSTDET	Disp - Process Detach
1	DECIMAL	3	WTRSTDSP	Disp - Process Dispatch
1	DECIMAL	4	WTRSTXWE	Disp - XRF Wait (events)
1	DECIMAL	5	WTRSTXWL	Disp - XRF Wait (locks)
1	DECIMAL	6	WTRSTEND	Disp - No process
1	DECIMAL	7	WTRSTOSW	Disp - OS WAIT
1	DECIMAL	8	WTRSTOSR	Disp - OS dispatch
1	DECIMAL	3	WTRPTMMV	Message Manager I/O
1	DECIMAL	1	WTRSTVGT	MMV - VSAM GET Request
1	DECIMAL	2	WTRSTVPT	MMV - VSAM PUT Request
1	DECIMAL	3	WTRSTVRP	MMV - VSAM Response
1	DECIMAL	4	WTRPTMMR	Message Manager Requests
1	DECIMAL	1	WTRSTENQ	MMR - GET Message ENQ
1	DECIMAL	2	WTRSTWRT	MMR - PUT Message out
1	DECIMAL	3	WTRSTRQO	MMR - RQR Request Out
1	DECIMAL	4	WTRSTRPO	MMR - RQR Response Out
1	DECIMAL	5	WTRSTRQI	MMR - RQR Request In
1	DECIMAL	6	WTRSTRPI	MMR - RQR Response In
1	DECIMAL	254	WTRPTCLK	Clock step
1	DECIMAL	255	WTRPTRSV	Reserved

WXB XRF process block

```
                   CONTROL BLOCK NAME = DFHWXBPS
                   DESCRIPTIVE NAME  = CICS (XRF) Process Block
                    @BANNER_START 02

                                      DFHWXBPS
                    Licensed Materials - Property of IBM
                    "Restricted Materials of IBM"
                    5655-S97
                    @BANNER_END
                   FUNCTION =
                        XRF process analogue of the CICS TCA supporting the XRF
                        LIFO mechanism and process dispatching.
                   LIFETIME =
                        Created by XRF ATTACH (DFHWDATT) and destroyed when
                        process returns (DFHWDISP).
                        Artificial instances are sometimes created by other
                        modules, e.g. DFHWMS10, when they wish to create an
                        environment in which the XRF LIFO mechanism can be
                        used, though such instances are never visible to the
                        XRF process dispatcher.
                   STORAGE CLASS =
                        Non-CICS storage. Usually in MVS subpool 0 storage
                        above 16M line.
                   LOCATION =
                        Conventionally addressed by R12. Those created by
                        ATTACH are also on the XRF dispatcher chain WDGFXPB.
                   INNER CONTROL BLOCKS =
                        None
                   NOTES :
                    DEPENDENCIES = S/370
                    RESTRICTIONS =
                           None
                    MODULE TYPE = Control block definition
                   ----------------------------------------------------------------
                    EXTERNAL REFERENCES =
                           None
                     DATA AREAS =
                           None
                     CONTROL BLOCKS =
                           None.
                     GLOBAL VARIABLES (Macro pass) =
                           None
                   ----------------------------------------------------------------
```

Table 846.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	144	DFHWXBPS	XRF Process block (XPB)
(0)	CHARACTER	48	WXBDSTAT	Dispatcher state data
Dispatcher chain and LIFO anchors				
(0)	CHARACTER	24	WXBBASE	Basic part
(0)	ADDRESS	4	WXBCHAIN	Next XPB in dispatcher chain
(4)	FULLWORD	4	WXBSIZE	Size of block
(8)	ADDRESS	4	WXBLA	Current LIFO addr
(C)	ADDRESS	4	WXBGLBLA	WS Global address
(10)	HALFWORD	2	WXBXPBNO	Process identifier
(12)	BIT(16)	2	WXBPFLGS	Flags

Table 846. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		WXBFWAIT	Process issued a WAIT
	.1..		WXBFXRF	XRF Process XPB
(12)	BIT(14) POS(3)	2	*	Spare
(14)	ADDRESS	4	WXBLBLKA	Current LIFO block addr
Locks and events				
(18)	CHARACTER	24	WXBLED	Lock and event data
(18)	ADDRESS	4	WXBEECBA	External event address
(1C)	ADDRESS	4	WXBIECBA	Internal event address
(20)	BIT(32)	4	WXBWEVM	Broadcast events waited
(24)	BIT(32)	4	WXBPEVM	Broadcast events posted
(28)	BIT(32)	4	WXBRLKM	Freed locks mask
(2C)	BIT(32)	4	WXBHLKM	Locks held mask
Dispatcher save area				
(30)	CHARACTER	64	WXBDSVA	Dispatcher register save area.
(30)	ADDRESS	4	WXBDSV00	Register 0 save slot
(34)	ADDRESS	4	WXBDSV01	Register 1 save slot
(38)	ADDRESS	4	WXBDSV02	Register 2 save slot
(3C)	ADDRESS	4	WXBDSV03	Register 3 save slot
(40)	ADDRESS	4	WXBDSV04	Register 4 save slot
(44)	ADDRESS	4	WXBDSV05	Register 5 save slot
(48)	ADDRESS	4	WXBDSV06	Register 6 save slot
(4C)	ADDRESS	4	WXBDSV07	Register 7 save slot
(50)	ADDRESS	4	WXBDSV08	Register 8 save slot
(54)	ADDRESS	4	WXBDSV09	Register 9 save slot
(58)	ADDRESS	4	WXBDSV10	Register 10 save slot
(5C)	ADDRESS	4	WXBDSV11	Register 11 save slot
(60)	ADDRESS	4	WXBDSV12	Register 12 save slot
(64)	ADDRESS	4	WXBDSV13	Register 13 save slot
(68)	ADDRESS	4	WXBDSV14	Register 14 save slot
(6C)	ADDRESS	4	WXBDSV15	Register 15 save slot
Data from ATTACH				
(70)	ADDRESS	4	WXBIDA	Initial data parameter
(74)	ADDRESS	4	WXBESPIE	ESPIE exit address
(78)	ADDRESS	4	WXBESPDA	ESPIE parameter
(7C)	ADDRESS	4	WXBESTAE	ESTAE exit address
(80)	ADDRESS	4	WXBESTDA	ESTAE parameter

Table 846. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(84)	ADDRESS	4	* (4294967299:130363392)	Reserved
Dummy stack block starts at end of XPB.				
(90)	CHARACTER	0	WXBISB	Dummy stack block

Overlay of status used when XPB is a dummy built simply to
gain access to LIFO support.

Table 847.

Offset Hex	Type	Len	Name (dim)	Description
(18)	STRUCTURE	8	WXBCICS	
(18)	ADDRESS	4	WXBTCA	TCA address of task which is using this XPB.
(1C)	ADDRESS	4	WXBCSA	CSA address

Constants

Table 848.

Len	Type	value	Name	Description
Special process number values (WXBXPBNO).				
2	DECIMAL	-1	WXBPNDSP	Dispatcher pseudo-process
2	DECIMAL	-2	WXBPNSRP	Error pseudo-process

WXL XRF LIFO stack area

```
CONTROL BLOCK NAME = DFHWXLPS
DESCRIPTIVE NAME  = CICS (XRF) XRF LIFO Stack Areas
 @BANNER_START 02
                        DFHWXLPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
    Control data at the beginning of a block of storage from
    which XRF LIFO storage is allocated.
LIFETIME =
    Created by GET LIFO (DFHWLGET) when a new stack block is
    acquired for an XRF process.
    Destroyed by FREE LIFO (DFHWLFRE) when a all allocations
    of LIFO in the block have been released.
    An instance is also imbedded within an XRF process block
    (DFHWXBPS) to provide a first block containing space for
    just a standard OS Save Area used when a process is first
    dispatched.
STORAGE CLASS =
    Non-CICS storage. MVS subpool 0 storage above 16M line.
LOCATION =
    WXBLBLKA addresses the currently active stack block for
    a given XRF process.
INNER CONTROL BLOCKS =
    WXLAHDR Describes the allocation header which precedes
```

```
                              each individual LIFO allocation within a LIFO
                              stack block. The current allocation for a given
                              XRF process is addressed by WXBLA.
             NOTES :
              DEPENDENCIES = S/370
              RESTRICTIONS =
                     None
             MODULE TYPE = Control block definition
          ---------------------------------------------------------------
             EXTERNAL REFERENCES =
               DATA AREAS =
                     None
               CONTROL BLOCKS =
                     WXBLBLKA
                     WXBLA
               GLOBAL VARIABLES (Macro pass) =
                     None
          ---------------------------------------------------------------
          Stack Block header
```

Table 849.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	DFHWXLPS	XRF LIFO Stack block hdr
(0)	ADDRESS	4	WXLPREV	Previous block address
(4)	ADDRESS	4	WXLBOS	Bottom of this block
(8)	ADDRESS	4	WXLEOS	End of this block
(C)	ADDRESS	4	WXLNAB	Next available byte in the block.
(10)	CHARACTER	0	WXLEND	

```
          Allocation header
```

Table 850.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	16	WXLAHDR	XRF LIFO Allocation header
(0)	CHARACTER	8	WXLAHID	Module identifier
(8)	ADDRESS	4	WXLAHPLA	Previous LIFO allocation
(C)	FULLWORD	4	WXLAHALN	Length of allocation (not including this header).
(10)	CHARACTER	0	WXLAHEND	

XCTRC DFHXCTRA parameter list definition

```
             CONTROL BLOCK NAME = DFHXCTRC
             DESCRIPTIVE NAME  = CICS External CICS Interface, DFHXCTRA
                                    Parameter list definition.
             @BANNER_START 02
                              DFHXCTRC
             Licensed Materials - Property of IBM
             "Restricted Materials of IBM"
             5655-S97
```

```
                @BANNER_END
      FUNCTION = This file contains the XCTRA_PLIST definition. This
           DSECT defines the parameter list between DFHXCTRP (the
           EXCI trace module) and DFHXCTRA (the EXCI global trap
           module). Akin the CICS trap module DFHTRAP.
           If DFHXCTRA is active, (by having TRAP=ON defined in
           DFHXCOPTS), then DFHXCTRA will be invoked for every
           trace entry put out by the EXCI facility.
      LIFETIME = The storage mapped by this DSECT is GETMAINED
           by DFHXCTRI on the very first Init user request on every
           TCB, and kept until TCB termination.
      LOCATION = The XCTRA_PLIST dsect is actually part of a larger
           control block called TRAP_WA (also included in this copy
           book), which includes the areas pointed at by fields in
           XCTRA_PLIST. TRAP_WA is chained off the XCGLOBAL for the
           TCB.
      NOTES :
       DEPENDENCIES = S/390
       RESTRICTIONS = None.
       MODULE TYPE = Control block definition
    -----------------------------------------------------------------
      XCTRL - Mapping of LIFO storage required by DFHXCTRP, DFHXCTRI
              and DFHXCDMP.
```

Table 851.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	580	XCTRL	
(0)	CHARACTER	72	RSA	Save Area for external calls
(0)	FULLWORD	4	*	Reserved
(4)	FULLWORD	4	RSACB	Backward Pointer
(8)	FULLWORD	4	RSACF	Forward Pointer
(C)	FULLWORD	4	* (4294967311:263675536)	Regs 14 - 12
(48)	ADDRESS	4	PLIST_PTR	Pointer to base plist on
(4C)	FULLWORD	4	AREA_LENGTH	Used in table initialisation
(50)	FULLWORD	4	BLOCK_COUNT	Used in table initialisation
(54)	FULLWORD	4	I	Loop Index
(58)	FULLWORD	4	J	Loop Index
(5C)	FULLWORD	4	*	Reserved
(60)	ADDRESS	8	SAVEGR14	area to save R14
(68)	ADDRESS	8	SAVE2GR14	area to save R14
(70)	ADDRESS	8	BACKPTR	Used in table initialisation
(78)	ADDRESS	8	TR_BLOCK_PTR	Base for DFHTRBL structure
(80)	ADDRESS	8	ENTRY_PTR	Ptr to entry in table
(88)	FULLWORD	4	ENTRY_LEN	Entry length
(8C)	BIT(8)	1	FOOTPRINTS	Footprint flags

Table 851. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		TRA_FREEMAIN_ REQ	Freemain of DFHTRA required
	.1..		TABLE_FREEMAIN_ REQ	
				Freemain of Trace table req.
	..1.		TRAP_WA_ FREEMAIN_REQ	
				Freemain of trap wa required
	...1		GTF_BUF_ FREEMAIN_REQ	
				Freemain of GTF buffer req.
	.... 1...		MOVING_DATA	Moving Data into trace table
	.... .1..		TRAP_IN_CONTROL	Control passed to DFHXCTRA.
	.... ..1.		OVERLENGTH_ ENTRY	overlength entry detected
	1		*	Reserved
(8D)	BIT(8)	1	* (4294967299:263675536)	Reserved
(90)	CHARACTER	16	XCSVC_PLIST	Parameter list to call XCSVC
(90)	ADDRESS	4	XCSVC_CODEP	Pointer to dump code
(94)	ADDRESS	4	XCSVC_IDP	Pointer to dump id
(98)	ADDRESS	4	XCSVC_USERP	Pointer to user name
(9C)	ADDRESS	4	XCSVC_TCBP	Pointer to TCB address
(A0)	CHARACTER	8	WORK8	Work area for CVD and unpack
(A8)	CHARACTER	8	TCBA_STR	Char form of TCB address
(B0)	CHARACTER	3	WORK3	work area
(B3)	CHARACTER	4	SDUMP_RC	Save area for SDUMP rc
(B7)	CHARACTER	9	WORK9	Work area
(C0)	CHARACTER	5	WORK5	Work area
(C5)	CHARACTER	4	WORK4	work area
(C9)	CHARACTER	3	*	reserved
(CC)	HALFWORD	2	INDEX	Index into string
(CE)	HALFWORD	2	RETRY_TIME_TO_GO	SDUMP retry time left
(D0)	ADDRESS	4	MSG_PLIST_PTR	Pointer to mebm plist

Table 851. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(D4)	BIT(8)	1	XCDMP_FOOTPRINTS	footprints for XCDMP
	1...		STIMERM_FAILED	remember STIMERM failed
	.1..		BUSY_MSG_ISSUED	Only issue busy msg once
	..1.		SYSTEM_DUMP_TKN	sdump has been taken
	...1 1111		*	Reserved
(D5)	BIT(8)	1	* (4294967299:263675536)	Reserved
(D8)	CHARACTER	184	MSG_PARM_AREA	plist for MEBM
(190)	ADDRESS	4	MEBM_TEMP_PTR	temp ptr used for mebm
(194)	CHARACTER	132	XCTRL_MSG	Message buffer
(194)	HALFWORD	2	XCTRL_MSG_LEN	LL
(196)	HALFWORD	2	XCTRL_MSG_0	BB
(198)	CHARACTER	124	XCTRL_MSG_TEXT	Maximum size msg output
(214)	CHARACTER	4	XCTRL_MSG_ WTO_PARMS	
				Space for extra WTO parms
(218)	UNSIGNED	4	*	Reserved
(220)	ADDRESS	8	GTF_PTR	Address of data for GTRACE
(228)	UNSIGNED	4	GTF_LEN	Length of data for GTRACE *
(22C)	UNSIGNED	4	GTF_LTG	Length-to-go for GTRACE
(230)	CHARACTER	8	GTRACE_AUTO	Parameter area for GTRACE *
(238)	CHARACTER	12	XCTRL_SYMP_STR	symptom string
(238)	CHARACTER	8	XCTRL_SYMP_ STR_USER	
				user name
(240)	CHARACTER	2	XCTRL_SYMP_ STR_TPT	
				trace point id
(242)	CHARACTER	2	*	Reserved

```
XCTRA_PLIST - Parameter list passed to Global trap DFHXCTRA
```

Table 852.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	72	XCTRA_PLIST	

Table 852. (continued)

Offset Hex	Type	Len	Name (dim)	Description

XCTRA_FLGSA Address of return actions flag word
Return actions flag settings are in the byte addressed from
field XCTRA_FLGSA in the parameter list to DFHXCTRA.
The individual flag settings are as follows, and are declared
as constants at the end of the structure.
XCTRA_FTRE EQU X'80' .. Make further trace entry on
                 behalf of trap exit
XCTRA_DUMP EQU X'40' .. Take a system dump
XCTRA_SKIP EQU X'20' .. Skip putting current trace entry
                 out to GTF
XCTRA_DISA EQU X'10' .. Disable trap so that it cannot
                 be used again under this TCB.
Any combination of these flags may be set and wherever possible
all requested actions will be honoured upon return to DFHXCTRP.				

(0)	ADDRESS	4	XCTRA_FLGSA	A(Return actions flag word)
(4)	ADDRESS	4	*	Reserved
XCTRA_CURTA Address of current entry in internal trace table This field points to the trace entry constructed by DFHXCTRP on the same invocation for which it is calling DFHXCTRA. This entry should not be modified by DFHXCTRA. Its structure is mapped by the DSECT DFHTREN.				
(8)	ADDRESS	8	XCTRA_CURTA	A(Current entry)
XCTRA_WORKA Address of 80-byte work area for DFHXCTRA. This work area is acquired when DFHXCTRA is activated and is not changed by the EXCI until DFHXCTRA is de-activated, so it may be used for saving information between invocations of DFHXCTRA.				
(10)	ADDRESS	4	XCTRA_WORKA	A(80-byte work area)
TRAD1A/L, TRAD2A/L and TRAD3A/L These six fields are used in conjunction with the setting of XCTRA_FTRE in the return actions flag byte. This flag indicates that DFHXCTRP should make a further trace entry. TRADnA/L are address and length pairs for the data fields to be included in this entry. If XCTRA_FTRE is set, DFHXCTRP examines the length fields in turn. All fields up to the first with a zero length will be included in the extra trace entry.				
(14)	CHARACTER	24	XCTRA_TRDAT	Total length of data fields
(14)	ADDRESS	4	XCTRA_TRAD1A	Address of DATA1 information
(18)	UNSIGNED	4	XCTRA_TRAD1L	Length of DATA1 information
(1C)	ADDRESS	4	XCTRA_TRAD2A	Address of DATA2 information
(20)	UNSIGNED	4	XCTRA_TRAD2L	Length of DATA2 information
(24)	ADDRESS	4	XCTRA_TRAD3A	Address of DATA3 information
(28)	UNSIGNED	4	XCTRA_TRAD3L	Length of DATA3 information
XCTRA_XCGLOBALA - Address of the XCGLOBAL block for this TCB. Address may be 0 if block not set up yet.				

Table 852. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2C)	ADDRESS	4	XCTRA_XCGLOBALA	A(XCGLOBAL block)
XCTRA_XCUSERA - Address of the XCUSER block representing the particular user on whose behalf this request is running. Address may be 0 if block not set up yet.				
(30)	ADDRESS	4	XCTRA_XCUSERA	A(XCUSER blcok)
XCTRA_XCPIPEA - Address of the XCPIPE block representing the particular pipe being used for this request for this user. Address may be 0 if block not set up yet.				
(34)	ADDRESS	4	XCTRA_XCPIPEA	A(XCPIPE)
XCTRA_XCPRH_WAA - Address of the working storage of the program request handler. Address may be 0 if block not set up yet.				
(38)	ADDRESS	4	XCTRA_XCPRH_WAA	A(DFHXCPRH's working storage)
XCTRA_XCEIP_WAA - Address of the working storage of the EXEC Interface program. Address may be 0 if block not set up yet, or the EXCI EXEC Interface is not being used.				
(3C)	ADDRESS	4	XCTRA_XCEIP_WAA	A(DFHXCEIP's working storage)
XCTRA_RSAA - Address of the register save area to be used by DFHXCTRA.				
(40)	ADDRESS	4	XCTRA_RSAA	RSA address
(44)	ADDRESS	4	*	Reserved
(48)	CHARACTER	0	XCTRA_PLIST_END	Ending address

TRAP_WA - Work areas for Global trap DFHXCTRA

Table 853.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	1024	TRAP_WA	
(0)	CHARACTER	72	TRAP_REGSAVE	RSA for DFHXCTRA
(48)	CHARACTER	72	TRAP_PLIST	
(90)	BIT(8)	1	TRAP_FLAGS	Trap return action flags
	1...		TRAP_TRACE	Further trace entry required
	.1..		TRAP_DUMP	system dump required
	..1.		TRAP_SKIP_GTF	Skip outputting entry to GTF
	...1		TRAP_DISABLE	Disable the trap
	 1111		*	Reserved
(91)	BIT(24)	3	*	Reserved

Table 853. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(94)	CHARACTER	128	TRAP_TR_DU_PLIST	Area for plist for calling trace and dump
(114)	CHARACTER	580	TRAP_TR_DU_WS	Working stg required for recursive Trace call.
(358)	CHARACTER	72	TRAP_TR_DU_RSA	RSA for recursive trace call
(3A0)	CHARACTER	96	TRAP_WORK	Force D-word alignment for..
(3A0)	CHARACTER	16	TRAP_WORK_EYEC	'>DFHXCTRA_WKAREA' eyecatcher
(3B0)	CHARACTER	80	TRAP_WORKAREA	Work area for DFHXCTRA

Constants

Table 854.

Len	Type	value	Name	Description
Constants for use with XCTRA_FLGSA				
1	HEX	80	XCTRA_FTRE	
1	HEX	40	XCTRA_DUMP	
1	HEX	20	XCTRA_SKIP	
1	HEX	10	XCTRA_DISA	
External CICS Interface Trace Points Note: The exception trace point IDs correspond to the EXCI return code values for the particular error. Please consult DFHXCRCC if any changes are made.				
2	HEX	0001	XCPRH_PIPE_ ALREADY_OPEN	
2	HEX	0002	XCPRH_PIPE_ ALREADY_CLOSED	
2	HEX	0003	XCPRH_VERIFY_ BLOCK_FM_ERROR	
2	HEX	0005	XCPRH_XCP_FM_ERR	
2	HEX	0006	XCPRH_IRP_ IOAREA_FM_ERR	
2	HEX	0007	XCPRH_SERVER_ TERMINATED	
2	HEX	0008	XCPRH_XFRASTG1_ FM_ERR	
2	HEX	0201	XCPRH_NO_ CICS_IRC_STARTED	
2	HEX	0202	XCPRH_NO_PIPE	
2	HEX	0203	XCPRH_NO_ CICS_ON_OPEN	

Table 854. *(continued)*

Len	Type	value	Name	Description
2	HEX	0204	XCPRH_NO_ CICS_ON_DPL_1	
2	HEX	0205	XCPRH_NO_ CICS_ON_DPL_2	
2	HEX	0206	XCPRH_NO_ CICS_ON_DPL_3	
2	HEX	0403	XCPRH_INVALID_ APPL_NAME	
2	HEX	0405	XCPRH_PIPE_ NOT_CLOSED	
2	HEX	0406	XCPRH_PIPE_ NOT_OPEN	
2	HEX	0407	XCPRH_INVALID_ USERID	
2	HEX	0408	XCPRH_INVALID_ UOWID	
2	HEX	0409	XCPRH_INVALID_ TRANSID	
2	HEX	0414	XCPRH_ABORT_ RECEIVED	
2	HEX	0415	XCPRH_INVALID_ CONNECTION	
2	HEX	0416	XCPRH_INVALID_ CICS_RELEASE	
2	HEX	0417	XCPRH_PIPE_ MUST_CLOSE	
2	HEX	0418	XCPRH_INVALID_ PIPE_TOKEN	
2	HEX	0422	XCPRH_SERVER_ ABENDED	
2	HEX	0423	XCPRH_SURROGATE_ CHECK_FAILED	
2	HEX	0426	XCPRH_INVALID_ TRANSID2	
2	HEX	0427	XCPRH_INVALID_ CCSID	
2	HEX	0428	XCPRH_INVALID_ ENDIAN	
2	HEX	0603	XCPRH_XCUSER_ GM_ERROR	
2	HEX	0604	XCPRH_XCPIPE_ GM_ERROR	
2	HEX	0605	XCPRH_VERIFY_ BLOCK_GM_ERROR	
2	HEX	0606	XCPRH_SSI_ VERIFY_FAILED	

Table 854. (continued)

Len	Type	value	Name	Description
2	HEX	0607	XCPRH_SVC_ CALL_FAILURE	
2	HEX	0608	XCPRH_IRP_ LOGON_FAILURE	
2	HEX	0609	XCPRH_IRP_ CONNECT_FAIL	
2	HEX	0610	XCPRH_IRP_ DISC_FAIL	
2	HEX	0611	XCPRH_IRP_ LOGOFF_FAILED	
2	HEX	0612	XCPRH_TRANSFORM_ 1_ERROR	
2	HEX	0613	XCPRH_TRANSFORM_ 4_ERR	
2	HEX	0614	XCPRH_IRP_ NULL_DATA	
2	HEX	0615	XCPRH_IRP_ NEG_RESPONSE	
2	HEX	0616	XCPRH_IRP_ SWITCH_PULL_ERR	
2	HEX	0617	XCPRH_IRP_ IOAREA_GM_ERR	
2	HEX	0619	XCPRH_IRP_ BAD_IOAREA	
2	HEX	0620	XCPRH_IRP_ PROTOCOL_ERR	
2	HEX	0621	XCPRH_PIPE_ RECOVERY_FAILURE	
2	HEX	0622	XCPRH_ESTAE_ SETUP_FAIL	
2	HEX	0623	XCPRH_ESTAE_ INVOKED	
2	HEX	0624	XCPRH_TIMEDOUT	
2	HEX	0625	XCPRH_STIMER_ SETUP_FAIL	
2	HEX	0626	XCPRH_STIMER_ CANCEL_FAIL	
2	HEX	0627	XCPRH_INCORRECT_ SVC_LVL	
2	HEX	0628	XCPRH_INCORRECT_ IRP_LVL	
2	HEX	0629	XCPRH_SERVER_ PROTOCOL_ERR	
2	HEX	0800	XCPRH_LENGERR	
2	HEX	0801	XCPRH_INVREQ	
2	HEX	0802	XCPRH_PGMIDERR	

Table 854. (continued)

Len	Type	value	Name	Description
2	HEX	0803	XCPRH_ROLDBACK	
2	HEX	0804	XCPRH_NOTAUTH	
2	HEX	0805	XCPRH_SYSIDER	
2	HEX	0806	XCPRH_TERMERR	
2	HEX	0807	XCPRH_RESUNAVAIL	
2	HEX	1000	XCPRH_ENTRY	
2	HEX	1001	XCPRH_EXIT	
2	HEX	1010	XCEIP_ENTRY	
2	HEX	1011	XCEIP_EXIT	
2	HEX	2000	XCPRH_IRP_LOGON	
2	HEX	2001	XCPRH_IRP_CONN	
2	HEX	2002	XCPRH_IRP_DISC	
2	HEX	2003	XCPRH_IRP_LOGOFF	
2	HEX	2004	XCPRH_IRP_SWITCH	
2	HEX	2005	XCPRH_IRP_ SWITCH_DATA	
2	HEX	2006	XCPRH_IRP_DATA	
2	HEX	2007	XCPRH_PRE_URM	
2	HEX	2008	XCPRH_POST_URM	
2	HEX	2009	XCPRH_PRE_RACROUTE	
2	HEX	200A	XCPRH_POST_ RACROUTE	
2	HEX	0900	XCTRI_TRA_GM_ERROR	
2	HEX	0901	XCTRI_TRACE_ TABLE_GM_ERROR	
2	HEX	0902	XCTRI_TRAP_ WA_GM_ERROR	
2	HEX	0903	XCTRI_GTF_ BUFFER_GM_ERROR	
2	HEX	0904	XCTRP_OVERLENGTH_ ENTRY	
2	HEX	0905	XCTRA_REQUESTED_ ENTRY	
2	HEX	0906	XCTRI_TIME_ WA_GM_ERROR	
2	HEX	3000	XCEIP_ESTAE_ SETUP_ERROR	
2	HEX	3001	XCEIP_ESTAE_ INVOKED	
2	HEX	3002	XCEIP_INV_ CTYPE_ON_INIT	

Table 854. (continued)

Len	Type	value	Name	Description
2	HEX	3003	XCEIP_INV_ VNUM_ON_INIT	
2	HEX	3004	XCEIP_INV_ ANAME_ON_INIT	
2	HEX	3005	XCEIP_INV_ CTYPE_ON_ALLOC	
2	HEX	3006	XCEIP_INV_ VNUM_ON_ALLOC	
2	HEX	3007	XCEIP_INV_ UTOKEN_ON_ALLOC	
2	HEX	3008	XCEIP_INV_ CTYPE_ON_OPEN	
2	HEX	3009	XCEIP_INV_ VNUM_ON_OPEN	
2	HEX	3010	XCEIP_INV_ UTOKEN_ON_OPEN	
2	HEX	3011	XCEIP_INV_ PTOKEN_ON_OPEN	
2	HEX	3012	XCEIP_INV_ CTYPE_ON_DPL	
2	HEX	3013	XCEIP_INV_ VNUM_ON_DPL	
2	HEX	3014	XCEIP_INV_ UTOKEN_ON_DPL	
2	HEX	3015	XCEIP_INV_ PTOKEN_ON_DPL	
2	HEX	3017	XCEIP_INV_USERID	
2	HEX	3018	XCEIP_PIPE_ NOT_OPEN_ON_DPL	
2	HEX	3019	XCEIP_PIPE_ MUST_CLOSE_ON_DPL	
2	HEX	3020	XCEIP_INV_ CTYPE_ON_CLOSE	
2	HEX	3021	XCEIP_INV_ VNUM_ON_CLOSE	
2	HEX	3022	XCEIP_INV_ UTOKEN_ON_CLOSE	
2	HEX	3023	XCEIP_INV_ PTOKEN_ON_CLOSE	
2	HEX	3024	XCEIP_INV_ CTYPE_ON_DEALL	
2	HEX	3025	XCEIP_INV_ VNUM_ON_DEALL	
2	HEX	3026	XCEIP_INV_ UTOKEN_ON_DEALL	
2	HEX	3027	XCEIP_INV_ PTOKEN_ON_DEALL	

Table 854. (continued)

Len	Type	value	Name	Description
2	HEX	3028	XCEIP_PIPE_ NOT_CLOSED_ON_ DEALL	
2	HEX	3029	XCEIP_RETRYING	
2	HEX	3030	XCEIP_SURROGATE_ CHK_FAIL_ON_DPL	
2	HEX	4000	XCGUR_ENTRY	
2	HEX	4001	XCGUR_EXIT	
2	HEX	4002	XCGUR_PRE_SVC	
2	HEX	4003	XCGUR_POST_SVC	
2	HEX	4004	XCGUR_RRS_ NOT_SUPPORTED	
2	HEX	4005	XCGUR_RRS_ERROR	
2	HEX	4006	XCGUR_SVC_ EXCEPTION	
2	HEX	4007	XCGUR_GETMAIN_ERR	

XFIOA Transformed MRO function

```
MACRO NAME = DFHXFIOA
DESCRIPTIVE NAME  = CICS DFHXFX TRANSFORMED MRO AND IPIC
                             FUNCTION SHIPPING REQUEST AND
                             REPLY DSECT
 @BANNER_START 02
                     DFHXFIOA
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION = THIS MACRO GENERATES THE DSECT USED BY THE FAST PATH
           MRO FUNCTION SHIPPING TRANSFORMER ( DFHXFX ) TO
           FORMAT TIOA'S USED TO SEND REQUESTS AND REPLIES FROM
           ONE MRO REGION TO ANOTHER.
           THE DSECT IS ALSO USED BY THE IPIC FUNCTION SHIPPING
           TRANSFORMER (DFHISFS) TO FORMAT THE BUFFERS USED TO
           SEND REQUESTS AND REPLIES VIA IPIC.
 INPUT = THERE ARE NO PARAMETERS ON THIS MACRO.
 OUTPUT = THE TIOA DSECT.
 EXTERNAL REFERENCES = NONE
The Pre IDPROP TIOA consists of the following sections:
TIOAHdr + FHM5 + 'FFFF'x + Request
Because Request can be > max TIOA size we cannot add an ICRX
to the end of the TIOA. If ICRX exist must be in 1st TIOA.
Note that this is only done if both sides understand ICRXs.
If ICRXs are understood by both sides and exist, TIOA is now:
TIOAHdr + FMH5 + 'FFFF'x + 'FFFF00'x + offset + ICRX + oldTIOA
FMH attch processing can then use TIOA with or without ICRX
by rebasing depending whether or not 'FFFF00'X is present
```

Table 855.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHXFIOA	TIOA DSECT

Table 855. (continued)

Offset Hex	Type	Len	Name (dim)	Description
THIS PART OF THE DSECT DESCRIBES THE FORMAT OF THE TIOA USED TO SEND REQUESTS. IT IS USED BY TRANSFORMERS 1 AND 2 ONLY.				
	....		XRQDS	"*"
(0)	FULLWORD	4	(3)	TIOA HEADER
(0)		0	XRQTHLEN	"*-XRQDS" Length of TIOA Header
(0)		0	XRQSTART	"*" START OF REQUEST DATA
COMMON REQUEST PARAMETERS				
(C)	CHARACTER	13	XRQFMHAR	AREA FOR ATTACH FMH
(19)	CHARACTER	2	XRQTAG	X'FFFF' MEANS XFX TIOA
(19)		0	XRQTLEN	"*-XRQDS" Length of TIOA Attach Hdr
(1B)	CHARACTER	9	XRQARG0	EIP'S ARG0 ON REQUESTS
(24)	HALFWORD	2	XRQDOFF	OFFSET OF DATA IN TIOA
(26)	HALFWORD	2	XRQPARMS (0)	GROUP SPECIFIC PARMS
ICRX Optional insert (must be full number of words)				
(1B)	CHARACTER	3	XRQICRXH	X'FFFF00' means ICRX insert
(1E)	HALFWORD	2	XRQICRXO	TIOA offset to fake TIOA
(20)	HALFWORD	2	XRQICRXL	Length of ICRX
(22)	CHARACTER	1	XRQICRXD (0)	Data area for ICRX
(22)		0	XRQILEN	"*-XRQICRXH" Length of ICRX Header
ODR optional message insert (Note- must be full number of words)				
(1B)	CHARACTER	3	XRQODRMH	X'FFFFEE' means ODR msg insert
(1E)	HALFWORD	2	XRQODRMO	TIOA offset to fake TIOA
(20)	HALFWORD	2	XRQODRML	Length of ODR msg insert
(22)	CHARACTER	1	XRQODRMD (0)	Data area for ODR msg insert
(22)		0	XRQFLEN	"*-XRQODRMH" Length of ODR insert header
Adapter optional message insert (Note- must be full no. of words)				
(1B)	CHARACTER	3	XRQADPTH	X'FFFFDD' means adapter insert

Table 855. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(1E)	HALFWORD	2	XRQADPTO	TIOA offset to fake TIOA
(20)	HALFWORD	2	XRQADPTL	Length of adapter msg insert
(22)	CHARACTER	1	XRQADPTD (0)	Data area for adapter msg insert
(22)		0	XRQALEN	"*-XRQADPTH" Length of adapter insert header
FILE CONTROL REQUEST PARAMETERS				
(26)	CHARACTER	8	XRQFCDSN	DATA SET NAME
(2E)	HALFWORD	2	XRQFCDLN	DATA LENGTH
(30)	HALFWORD	2	XRQFCKLN	RIDFLD LENGTH
(32)	CHARACTER	2	XRQFCRQD	REQUEST ID
(34)	HALFWORD	2	XRQFCKOF	OFFSET OF KEY IN TIOA
(36)	CHARACTER	1	XRQFCKDA (0)	KEY FOLLOWED BY DATA
(36)		0	XRQFCLEN	"*-XRQSTART" LEN OF FIXED PART
(36)		0	XRQFCLNI	"*-XRQARG0" LEN OF FIXED PART FOR IPIC
TRANSIENT DATA REQUEST PARAMETERS				
(26)	CHARACTER	4	XRQTDQNM	QUEUE NAME
(2A)	HALFWORD	2	XRQTDDLN	DATA LENGTH
(2C)	CHARACTER	1	XRQTDDA (0)	DATA AREA FOR WRITES
(2C)		0	XRQTDLEN	"*-XRQSTART" LEN OF FIXED PART
(2C)		0	XRQTDLNI	"*-XRQARG0" LEN OF FIXED PART FOR IPIC
TEMPORARY STORAGE REQUEST PARAMETERS				
(26)	CHARACTER	8	XRQTSQNM	QUEUE NAME (8 BYTES ONLY)
(2E)	HALFWORD	2	XRQTSDLN	DATA LENGTH
(30)	HALFWORD	2	XRQTSITM	ITEM NUMBER
(32)	CHARACTER	1	XRQTSDA (0)	DATA AREA FOR WRITES
(32)	CHARACTER	1	XRQTSEND (0)	END OF FIRST PART OF TSRQ AREA
AN ADDITIONAL PARAMETER HAS BEEN ADDED AND SINCE THE ABOVE PARAMETER LIST IS FIXED LENGTH AND IS FOLLOWED BY DATA IT HAS HAD TO BE ADDED AFTER THE DATA. IT IS ADDRESSED BY XRQTSDA +XRQTSDLN (DATA ADDRESS + DATA LENGTH FOR WRITEQ TS OTHERWISE AT XRQTSQ16.)				

Table 855. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(32)	CHARACTER	16	XRQTSQ16 (0)	16 BYTE TS QUEUE NAME
(32)	CHARACTER	8	XRQTSQ8A	TS QUEUE NAME PART 1
(3A)	CHARACTER	8	XRQTSQ8B	TS QUEUE NAME PART 2
(3A)		0	XRQTSLEN	"*-XRQSTART" TOTAL LENGTH OF FIXED PART
	INTERVAL CONTROL REQUEST PARAMETERS			
(26)	CHARACTER	4	XRQICTR	TRANSID
(2A)	CHARACTER	4	XRQICTE	TERMID
(2E)	CHARACTER	4	XRQICRTR	RTRANSID
(32)	CHARACTER	4	XRQICRTE	RTERMID
(36)	CHARACTER	4	XRQICIOT	INTERVAL OR TIME
(3A)	CHARACTER	8	XRQICQUE	QUEUE
(42)	CHARACTER	8	XRQICRQD	REQID
(4A)	HALFWORD	2	XRQICFLN	FROM LENGTH
(4C)	CHARACTER	1	XRQICFDA (0)	FROM DATA
(4C)		0	XRQICLEN	"*-XRQSTART" LEN OF FIXED PART
AN ADDITIONAL PARAMETER HAS BEEN ADDED AND SINCE THE ABOVE PARAMETER LIST IS FIXED LENGTH AND IS FOLLOWED BY DATA IT HAS HAD TO BE ADDED AFTER THE DATA. IT IS ADDRESSED BY ADDR(XRQICFDA)+XRQICFLN + (address of FROM data + length of FROM data)				
(0)	CHARACTER	8	XRQICUID	USERID
(8)	CHARACTER	8	XRQICSYN	Applid of System
(10)	CHARACTER	8	XRQICTRN	Terminal netname
CHANNEL data has been added. Since this may overflow into second and further TIOAs, the beginning of the channel data must be the very last thing in the first TIOA. Field XRQICCTO gives the offset to the start of the CHANNEL data from the beginning of XRQICCTO. CHANNEL data is addressed by ADDR(XRQICCTO) + XRQICCTO Any new fields added in subsequent releases must be added AFTER XRQICCTO and before XRQCHAND. DFHXFX assumes that any fields added between XRQQICTO and XRQCHAND will always be present even if they are not used.				
(18)	BITSTRING	2	XRQICCTO	Offset to CHANNEL data
(1A)	CHARACTER	1	XRQCHAND (0)	Channel data
	IPIC TEMPORARY STORAGE REQUEST PARAMETERS			
(26)	CHARACTER	16	XRQTSQNI	16 BYTE TS QUEUE NAME
(38)	FULLWORD	4	XRQTSDLI	DATA LENGTH
(3C)	FULLWORD	4	XRQTSITI	ITEM NUMBER

Table 855. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	CHARACTER	1	XRQTSDAI (0)	DATA AREA FOR WRITES
(40)		0	XRQTSLNI	"*-XRQARG0" TOTAL LENGTH OF IPIC FIXED PART
THIS PART OF THE DSECT DESCRIBES THE FORMAT OF THE TIOA USED TO SEND REPLIES. IT IS USED BY TRANSFORMERS 3 AND 4 ONLY.				
	....		XRPDS	"*"
(0)	FULLWORD	4	(3)	TIOA HEADER
(0)		0	XRPSTART	"*" START OF REPLY DATA
COMMON REPLY PARAMETERS				
(C)	CHARACTER	6	XRPEIBRC	EIP'S RETURN CODE
(12)	HALFWORD	2	XRPDOFF	OFFSET OF DATA IN TIOA
(14)	HALFWORD	2	XRPPARMS (0)	GROUP SPECIFIC PARMS
FILE CONTROL REPLY PARAMETERS				
(14)	HALFWORD	2	XRPFCDLN	DATA LENGTH
(16)	HALFWORD	2	XRPFCKLN	RIDFLD LENGTH
(18)	HALFWORD	2	XRPFCNRC (0)	NUM OF DELETED RECORDS
(18)	HALFWORD	2	XRPFCUDL	UNTRUNCATED DATA LENGTH
(1A)	HALFWORD	2	XRPFCMRL	MAX REC LEN FOR V FORMAT
(1C)	HALFWORD	2	XRPFCKOF	OFFSET OF KEY IN TIOA
(1C)		0	XRPFCKOF53	"*-XRPDS" VALUE OF XRPFCKOF IN CICS 5.3 AND EARLIER
(1E)	BITSTRING	1	XRPFC_REPLY_ FLAG1	
(1E)	BITSTRING	0	XRPFC_TERMINATE_ STRING	
				"X'80'"
(1F)	BITSTRING	1	XRPFC_REPLY_ FLAG2	
(20)	FULLWORD	4	XRPFC_VERSION	
(20)	SIGNED	0	XRPFC_VERSION_1	"1"
(24)	BITSTRING	1	XRPFC_RESPONSE	
(25)	BITSTRING	1	XRPFC_REASON	
(26)	BITSTRING	1	XRPFC_LENGTH_ ERR_CODE	

Table 855. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(27)	BITSTRING	1	XRPFC_DUPLICATE_KEY	
(26)	CHARACTER	4	XRPFC_ACCMETH_RC	
(26)		0	XRPFCKOF61	"*-XRPDS" VALUE OF XRPFCKOF IN CICS 6.1
(2A)	CHARACTER	1	XRPFCKDA (0)	KEY FOLLOWED BY DATA
(2A)		0	XRPFCLEN	"*-XRPSTART" LEN OF FIXED PART
TRANSIENT DATA REPLY PARAMETERS				
(14)	HALFWORD	2	XRPTDDLN	DATA LENGTH
(16)	HALFWORD	2	XRPTDUDL	UNTRUNCATED DATA LENGTH
(18)	CHARACTER	1	XRPTDDA (0)	DATA AREA FOR READS
(18)		0	XRPTDLEN	"*-XRPSTART" LEN OF FIXED PART
TEMPORARY STORAGE REPLY PARAMETERS				
(14)	HALFWORD	2	XRPTSNIT	NUMITEMS
(16)	HALFWORD	2	XRPTSITM (0)	ITEM NUMBER WRITTEN
(16)	HALFWORD	2	XRPTSDLN	RETURNED DATA LENGTH
(18)	HALFWORD	2	XRPTSUDL	UNTRUNCATED DATA LENGTH
(1A)	CHARACTER	1	XRPTSDA (0)	READ DATA
(1A)		0	XRPTSLEN	"*-XRPSTART" LEN OF FIXED PART
INTERVAL CONTROL REPLY PARAMETERS				
(14)	CHARACTER	8	XRPICRQD	REQID ASSGND BY MIR SYS
(14)		0	XRPICLEN	"*-XRPSTART" LEN OF FIXED PART
IPIC TEMPORARY STORAGE REPLY PARAMETERS				
(14)	FULLWORD	4	XRPTSNII	NUMITEMS
(18)	FULLWORD	4	XRPTSITI (0)	ITEM NUMBER WRITTEN
(18)	FULLWORD	4	XRPTSDLI	RETURNED DATA LENGTH
(1C)	FULLWORD	4	XRPTSULI	UNTRUNCATED DATA LENGTH
(20)	CHARACTER	1	XRPTSDAI (0)	READ DATA
(20)		0	XRPTSLNI	"*-XRPSTART" LEN OF FIXED PART

XFR Function shipping request control block

```
CONTROL BLOCK NAME = DFHXFRDS
DESCRIPTIVE NAME  = CICS Function Request Shipping Request
                            Control Block.

MACROS = DFHXFSTG
FUNCTION =
        Defines the data transformation (XF) control block
        as used in batch and online environments.
```

Table 856.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHXFRDS	
(0)	FULLWORD	4	XFRBEGIN (2)	ALLOW FOR USER STORAGE ACCOUNTING INFORMATION
(8)	DBL WORD	8	XFRSTART (0)	XF control block - start
	FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO AN ONLINE ENVIRONMENT NOTE: There is a copy of this storage up to XFRFLAGA in DFHEPC and up to XFRAADPT in DFHEIIC. These programs must also be changed if the offset of XFRFLAGA (or XFRAADPT for DFHEIIC) changes. The field names in these programs are TFRFLAGA and TFRAADPT.				
	SYSTEM/SESSION RELATED FIELDS			
(8)	CHARACTER	4	XFRSYSNM	N(SYSID)
(C)	ADDRESS	4	XFRATCSE	A(TCTSE)
(10)	ADDRESS	4	XFRATCTE	A(TCTTE) OR 0
(14)	ADDRESS	4	XFRATIOA	A(TIOA) OR 0
(18)	CHARACTER	4	XFRLUCCD	LU6.2 ERROR (SENSE) CODE
(1C)	CHARACTER	4	XFRSTRAN	Server transaction code
(20)	BITSTRING	1	XFRFLAGA	
(20)	BITSTRING	0	XFRSERVR	"X'80'" Server transaction supplied
(20)	BITSTRING	0	XFRNORM	"X'40'" Normal transformer to be used
(20)	BITSTRING	0	XFRSYNC	"X'20'" SYNCONRETURN requested
(20)	BITSTRING	0	XFRNOATN	"X'10'" CONVERSE with NOATNI required
(20)	BITSTRING	0	XFRLINK	"X'08'" LINK request
(20)	BITSTRING	0	XFRRTDST	"X'04'" Dynamically routed START request
(20)	BITSTRING	0	XFRRESUN	"X'02'" RESUNAVAIL condition supported

Table 856. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(20)	BITSTRING	0	XFRCHAN	"X'01'" CHANNEL request
(22)	HALFWORD	2	XFRRTRLN	Length of router commarea or 0
(24)	ADDRESS	4	XFRRTRAD	A(DFHDSRP) or 0
(28)	BITSTRING	4	XFRCHTOK	Channel Token
(2C)	BITSTRING	1	XFRFLAGB	
(2C)	BITSTRING	0	XFRRSTRT	"X'80'" dynamic and routable start
(2D)	BITSTRING	1		reserved
(2E)	HALFWORD	2	XFRADPLN	Length of adapter data
(30)	ADDRESS	4	XFRAADPT	Address of adapter data
(34)	FULLWORD	4	XFRFSPEC (0)	Origin for function specific storage
	DL/I RELATED FIELDS			
(34)	ADDRESS	4	XFRAUIB	A(UIB)
(38)	FULLWORD	4	XFRDLILN	Maximum length os SETS I/O area so far
	FILE CONTROL RELATED FIELDS			
(3C)	FULLWORD	4	FCBUFLEN	Shipped buffer length
(40)	HALFWORD	2	FCKEYLEN	Shipped record identifier length
(42)	BITSTRING	1	FCEID (9)	ARG 0 OF EIP PARAMETER LIST (EID)
(4B)	BITSTRING	1	(17)	RESERVED
(5C)	FULLWORD	4	(0)	MAKE LENGTH MULTIPLE OF 4
	This DSECT describes the entries required for remote program link			
(5C)	FULLWORD	4	DFHPCENT (0)	PC LINK entries begin here
(5C)	CHARACTER	4	XFR_PC_ATT_TRAN	Transaction code - for mirror attach FMH
(60)	CHARACTER	4	XFR_PC_EIB_TRAN	Transaction code - for mirror EIBTRNID
(64)	FULLWORD	4	XFR_PC_CCSID	Character data conversion 0 => no conversion -1 => conversion required use client code page defined via DFHCNV n => conversion requird use n as override to code page defined via DFHCNV

Table 856. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(68)	FULLWORD	4	XFR_PC_NDIAN	Binary data conversion 0 => no conversion X'01020304' => data held in big endian format X'04030201' => data held in little endian format
(6C)	CHARACTER	8	XFRPNAME	name of program
(74)	HALFWORD	2	XFRCOMML	length of commarea
(76)	HALFWORD	2	XFRDATAL	length of data to be sent
(78)	CHARACTER	4	XFRABCD	Abend code returned from mirror
(7C)	BITSTRING	1	XFRFLAG4	Flag byte
(7C)	BITSTRING	0	XFRHTRAN	"X'80'" hex tranid present
(7C)	BITSTRING	0	XFRDATAV	"X'40'" valid DATALENGTH supplied
(7C)	SIGNED	0	ESCARGN	"240" Special id for escape sequence
Fields used for passing terminal error information between MIRS/ISP and the transformer				
(7D)	BITSTRING	4	XFRTCERR	Terminal error
(81)	CHARACTER	4	XFRTCABE	Terminal control abend code
(85)	BITSTRING	4	XFRTCSNS	Terminal control sense data
(90)	DBL WORD	8	CONTAINER_LIST (0)	
(90)	ADDRESS	4	CONTAINER_LIST_P	Address of container list
(94)	FULLWORD	4	CONTAINER_LIST_N	Length of container list
(98)	FULLWORD	4	XFRCHOUT	# outbound channel bytes
(9C)	FULLWORD	4	XFRCHIN	# inbound channel bytes
FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT				

Table 856. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	ADDRESS	4	XFRASTG1	ADDRESS OF STG CONTAINING THE FLATTENED PLIST. THE TRANSFORMER GETS NEW STG IF XFRASTGE IS 0 OR REUSES THE CURRENT STG IF THIS PROVES LARGE ENOUGH
(C)	ADDRESS	4	XFRASTG4	ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I.
(10)	FULLWORD	4	XFRASTGL	LENGTH OF THE FLATTENED REPLY IN THE DL/I BUFFERS
	FIELDS IN THE XF CONTROL BLOCK THAT ARE COMMON TO A BATCH AND ONLINE ENVIRONMENTS			
(A0)	ADDRESS	4	XFRPLIST	ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSF'R
(A4)	ADDRESS	4	XFRATABN	A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE
(A8)	ADDRESS	4	XFRATAB2	A(2ND TABLE ENTRY) - E.G. PDIR OR 0
(AC)	CHARACTER	1	XFRFORMN	THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS
	....		XFRTRAN1	"0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS
(AC)	SIGNED	0	XFRTRAN2	"2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS
(AC)	SIGNED	0	XFRTRAN3	"4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES
(AC)	SIGNED	0	XFRTRAN4	"6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES

Table 856. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(AD)	CHARACTER	2	XFRARCHD	USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE
(AF)	CHARACTER	1	XFRGROUP	THE GROUP IDENTIFIER FOR THE CURRENT REQUEST
(AF)	BITSTRING	0	XFRFCGRP	"X'06'" - THE CICS FC GROUP
(AF)	BITSTRING	0	XFRTDGRP	"X'08'" - THE CICS TD GROUP
(AF)	BITSTRING	0	XFRTSGRP	"X'0A'" - THE CICS TS GROUP
(AF)	BITSTRING	0	XFRICGRP	"X'10'" - THE CICS IC GROUP
(AF)	BITSTRING	0	XFRJCGRP	"X'14'" - THE CICS JC GROUP
(AF)	BITSTRING	0	XFRDLGRP	"X'40'" - THE DL/I GROUP
(B0)	CHARACTER	1	XFRFUNCT	THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST
(B1)	CHARACTER	1	XFRFLAGS	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(B1)	BITSTRING	0	XFREILST	"X'80'" THE ARGUMENT LIST COMES FROM OR GOES TO EIP
(B1)	BITSTRING	0	XFRDLLST	"X'40'" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I
(B1)	BITSTRING	0	XFRDLCNT	"X'20'" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS
(B1)	BITSTRING	0	XFRDLPLI	"X'10'" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS
(B1)	BITSTRING	0	XFRATHDR	"X'08'" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA

Table 856. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B1)	BITSTRING	0	XFRLNGRN	"X'04'" THE MIRROR TASK NEEDS TO BE LONG RUNNING
(B1)	BITSTRING	0	XFRNRPLY	"X'02'" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED
(B1)	BITSTRING	0	XFRPRTCT	"X'01'" THE REQUEST IS TO BE SHIPPED PROTECTED
(B2)	CHARACTER	1	XFRFLAG1	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(B2)	BITSTRING	0	XFRLCLQ	"X'80'" THE REQUEST MAY BE QUEUED BEFORE SHIPPING
(B2)	BITSTRING	0	XFRFCTK	"X'40'" FC Token can be shipped
(B2)	BITSTRING	0	XFRFCRQ	"X'20'" Shipped FC request
(B2)	BITSTRING	0	XFRTMERR	"X'10'" Terminal error in xformer layer
(B2)	BITSTRING	0	XFRESCAP	"X'02'" Escape sequence preceding 4-byte legths may be found
(B2)	BITSTRING	0	XFRCHANL	"X'01'" This is a CHANNEL request
(B3)	CHARACTER	1	XFRFLAG2	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(B3)	BITSTRING	0	XFRHAENT	"X'80'" DFHMIRVM has handled an abend; the abend code is to be found in the TACB
(B3)	BITSTRING	0	XFRLENFD	"X'40'" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally
(B3)	BITSTRING	0	XFRCHNSP	"X'20'" Other end of MRO link supports channels

Table 856. *(continued)*

Offset Hex	Type	Len	Name (dim)	Description
(B3)	BITSTRING	0	XFRICRX	"X'10'" Other end of MRO link supports ICRXs
(B3)	BITSTRING	0	XFRODRP	"X'02'" Other end supports propagation of Origin Data
(B4)	CHARACTER	1	XFRFLAG3	PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED
(B5)	CHARACTER	2	XFRCODES (0)	FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER
(B5)	CHARACTER	1	XFRCODE1	THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS
(B5)	SIGNED	0	XFR1TO4	"4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4
(B5)	SIGNED	0	XFR1TOC	"8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I
(B5)	SIGNED	0	XFR1XLNF	"2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS
(B5)	SIGNED	0	XFRLNKUN	"219" RESUNAVAIL condition raised in remote region
(B5)	SIGNED	0	XFRLNKAP	"30" Allocate request in ISP has been purged
(B5)	SIGNED	0	XFRLNKAR	"28" Allocate request in ISP has been rejected
(B5)	SIGNED	0	XFRLNKNI	"26" no sessions immediately available for allocate request

Table 856. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B5)	SIGNED	0	XFRLNKPF	"24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING
(B5)	SIGNED	0	XFRLNKSV	"22" TRANSID invalid, we are already in session with a different mirror transaction.
(B5)	SIGNED	0	XFRDWNLV	"21" The remote system does not support a keyword on this request
(B5)	SIGNED	0	XFRLNKGP	"20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID
(B5)	SIGNED	0	XFRLNKSP	"18" SYNCONRETURN invalid, we are already in session with a mirror
(B5)	SIGNED	0	XFRLNKLQ	"16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT
(B5)	SIGNED	0	XFRLNKAB	"14" xform 4 has processed ABCODE data
(B5)	SIGNED	0	XFRLNKNA	"12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE
(B5)	SIGNED	0	XFRLNKSF	"10" CONVERSE in DFHISP has failed
(B5)	SIGNED	0	XFRLNKCP	"9" Special for CPSM only equ of XFRLNKSH.
(B5)	SIGNED	0	XFRLNKSH	"8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE

Table 856. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(B5)	SIGNED	0	XFRLNKNS	"6" Type of request (either LINK or START CHANNEL) is not supported over LU6.1 connections
(B5)	SIGNED	0	XFRLNKSY	"4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE
(B6)	CHARACTER	1	XFRCODE2	THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS
(B6)	SIGNED	0	XFR2TO3	"4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3
(B6)	SIGNED	0	XFRNEGR	"8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT
(B7)	CHARACTER	1	XFRABCDE	ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM
(B8)	ADDRESS	4	XFRRESR9	resumption base for DL/I function shipping
(BC)	ADDRESS	4	XFRRESRE	resumption address for DL/I function shipping
(C0)	ADDRESS	4	XFRBEGOP	address of Arg0 options bytes
(C4)	FULLWORD	4	XFRARGS (0)	ORIGIN FOR ARGUMENTS
(C4)		0	XFRLNGTH	"*-XFRSTART"
STORAGE USED BY TRANSFORMER 2 TO CONSTRUCT A PARAMETER LIST FOR EXEC OR DL/I REQUESTS. THIS STORAGE IS APPPENDED TO THE XF CONTROL BLOCK ADDRESSED FROM TCAXFS23 (IT IS ONLY NEEDED IN A MIRROR ENVIRONMENT)				
(C4)	FULLWORD	4	(96)	see comment above

Table 856. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C4)		0	XFRLNG2	"*-XFRSTART"

XLT Transaction list table

```
MODULE NAME = DFHXLTDS
DESCRIPTIVE NAME  = CICS Transaction List Table.
   @BANNER_START 02
                        DFHXLTDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
                  TRANSACTION LIST TABLE
```

Table 857.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHXLTDS	DUMMY SECTION - TRANSACTION LIST TABLE *
(0)	CHARACTER	4	XLTXID	TRANSACTION IDENTIFICATION
(0)		0	XLTEL	"(*-XLTXID)" TRANSACTION LIST TABLE ENTRY LENGTH *

XMCDS Transaction Manager Tclass Stats

```
CONTROL BLOCK NAME = DFHXMCDS
DESCRIPTIVE NAME  = CICS Tclass Statistics
   @BANNER_START 02
                        DFHXMCDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
       CICS level at which this module was last updated
FUNCTION =
       This data area contains tclass statistics provided by
       the Transaction Manager Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the APi or the statistics
       exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the Transaction Manager
       Domain to store statistics to be passed to the user in
       response to a request for statistics. The storage is
       released when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = none
NOTES :
```

```
            DEPENDENCIES = S/370
            RESTRICTIONS = none
            MODULE TYPE = Domain call buffer
     --------------------------------------------------------------
      EXTERNAL REFERENCES = none
          DATA AREAS = none
          CONTROL BLOCKS = from transaction manager domain
          GLOBAL VARIABLES (Macro pass) = none
     --------------------------------------------------------------
       ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXMCDS IS
       NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
       PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 858.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHXMCDS	Transaction Manager Domain Tclass Statistics DSECT
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	XMCLEN	Length of data area
(0)	SIGNED	0	XMCIDE	"0012" Tclass Statistics id mask
(2)	ADDRESS	2	XMCID	Tclass Statistics id
(2)	BITSTRING	0	XMCVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	XMCDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	8	XMCTCL	Tclass name
(10)	FULLWORD	4	XMCTAT	Total attach requests for trans- actions in this tclass
(14)	FULLWORD	4	XMCPI	Transactions purged immediately because threshold reached
(18)	FULLWORD	4	XMCTQ	Transactions that had to queue but are no longer queued
(1C)	FULLWORD	4	XMCAI	Transactions accepted immediately
(20)	FULLWORD	4	XMCAAQ	Transactions accepted after queuing
(24)	FULLWORD	4	XMCPWQ	Transactions purged while queuing
(28)	FULLWORD	4	XMCMXT	Max. number of transactions allowed
(2C)	FULLWORD	4	XMCTH	Purge threshold
(30)	FULLWORD	4	XMCITD	Installed transaction definitions in this tclass
(34)	FULLWORD	4	XMCPAT	Peak active user transactions

Table 858. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(38)	FULLWORD	4	XMCPQT	Peak queued user transactions
(3C)	FULLWORD	4	XMCTAMA	Times at max. active
(40)	FULLWORD	4	XMCTAPT	Times at purge threshold
(44)	FULLWORD	4	XMCCAT	Current active user transactions
(48)	FULLWORD	4	XMCCQT	Current queued user transactions
THE FOLLOWING CL8 DEFINITIONS ARE REALLY "STORE CLOCK" FORMAT				
(4C)	CHARACTER	8	XMCTQTME	Total queuing time of those trans- actions that are no longer queuing
(54)	CHARACTER	8	XMCCQTME	Total queuing time of those trans- actions that are still queuing
(5C)	BITSTRING	16		Reserved
(6C)	CHARACTER	8	XMC_TCLASS_ DEFINE_SOURCE	
				Group installed from
(74)	BITSTRING	8	XMC_TCLASS_ CHANGE_TIME	
				Change/create time
(7C)	CHARACTER	8	XMC_TCLASS_ CHANGE_USERID	
				Change userid
(84)	BITSTRING	2	XMC_TCLASS_ CHANGE_AGENT	
				Change agent
(84)	SIGNED	0	XMC_CSDAPI_ CHANGE	"0001" CSD API
(84)	SIGNED	0	XMC_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(84)	SIGNED	0	XMC_DREPAPI_ CHANGE	"0003" DREP API
(84)	SIGNED	0	XMC_CREATE_ CHANGE	"0004" EXEC CREATE SPI
(86)	BITSTRING	2	XMC_TCLASS_ INSTALL_AGENT	
				Install agent
(86)	SIGNED	0	XMC_CSDAPI_ INSTALL	"0001" CSD API
(86)	SIGNED	0	XMC_CREATE_ INSTALL	"0004" EXEC CREATE SPI

Table 858. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(86)	SIGNED	0	XMC_GRPLIST_ INSTALL	
				"0005" GRPLIST
(88)	BITSTRING	8	XMC_TCLASS_ INSTALL_TIME	
				Install/Create time
(90)	CHARACTER	8	XMC_TCLASS_ INSTALL_USERID	
				Install userid
(90)		0	XMCEND	"*"
(90)		0	XMCCLEN	"*-XMCLEN" Length of Tclass Stats

XMGDS Transaction Manager Global Stats

```
CONTROL BLOCK NAME = DFHXMGDS
DESCRIPTIVE NAME  = CICS Transaction Manager Statistics
   @BANNER_START 02
                        DFHXMGDS
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
      CICS level at which this module was last updated
FUNCTION =
      This data area contains global statistics provided by the
      Transaction Manager Domain.
      It is provided for use in users monitoring applications
      to map the statistics returned via the APi or the statistics
      exit.
      There is a single instance of this data block.
LIFETIME =
      This data block is created by the Transaction Manager
      Domain to store statistics to be passed to the user in
      response to a request for statistics. The storage is
      released when the user task is detached.
      The DSECT also maps the contents of part of the SMF buffer
      created by the statistics domain and is used in the
      statistics exit.
STORAGE CLASS =
LOCATION =
      The user is passed a pointer to the head of the storage
      block.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Domain call buffer
 ---------------------------------------------------------------
 EXTERNAL REFERENCES = none
     DATA AREAS = none
     CONTROL BLOCKS = from transaction manager domain
     GLOBAL VARIABLES (Macro pass) = none
 ---------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXMGDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 859.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHXMGDS	Transaction Manager Domain Global Statistics DSECT
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	XMGLEN	Length of data area
(0)	SIGNED	0	XMGIDE	"0010" Transaction Manager domain id mask
(2)	ADDRESS	2	XMGID	Transaction Manager domain id
(2)	BITSTRING	0	XMGVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	XMGDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	FULLWORD	4	XMGNUM	Number of transactions (user + system) attached
(C)	FULLWORD	4	XMGMXT	Current MAXTASK value
(10)	FULLWORD	4	XMGCAT	Current active user transactions
(14)	FULLWORD	4	XMGCQT	Current queued user transactions
(18)	FULLWORD	4	XMGTAMXT	Times at MAXTASK
(1C)	FULLWORD	4	XMGPAT	Peak active user transactions
(20)	FULLWORD	4	XMGPQT	Peak queued user transactions
(24)	FULLWORD	4	XMGTAT	Total active user transactions
(28)	FULLWORD	4	XMGTDT	Total delayed user transactions note that this does not include those transactions currently queuing
THE FOLLOWING CL8 DEFINITIONS ARE REALLY "STORE CLOCK" FORMAT				
(2C)	CHARACTER	8	XMGTQTME	Total time spent waiting by transactions that had to queue for MXT but not including transactions currently queued.
(34)	CHARACTER	8	XMGCQTME	Total time spent by transactions currently queued for MXT
(3C)	FULLWORD	4		Reserved

Table 859. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(40)	DBL WORD	8	XMGTNUM	Total number of transactions at the time of the last reset
(40)		0	XMGEND	"*"

XMRDS Transaction Manager Transaction Stats

```
            CONTROL BLOCK NAME = DFHXMRDS
            DESCRIPTIVE NAME  = CICS Transaction Statistics
               @BANNER_START 02

                             DFHXMRDS
               Licensed Materials - Property of IBM
               "Restricted Materials of IBM"
               5655-S97
               @BANNER_END
                  CICS level at which this module was last updated
            FUNCTION =
                  This data area contains transaction statistics provided by
                  the Transaction Manager Domain.
                  It is provided for use in users monitoring applications
                  to map the statistics returned via the APi or the statistics
                  exit.
                  There is a single instance of this data block.
            LIFETIME =
                  This data block is created by the Transaction Manager
                  Domain to store statistics to be passed to the user in
                  response to a request for statistics. The storage is
                  released when the user task is detached.
                  The DSECT also maps the contents of part of the SMF buffer
                  created by the statistics domain and is used in the
                  statistics exit.
            STORAGE CLASS =
            LOCATION =
                  The user is passed a pointer to the head of the storage
                  block.
            INNER CONTROL BLOCKS = none
            NOTES :
               DEPENDENCIES = S/370
               RESTRICTIONS = none
               MODULE TYPE = Domain call buffer
          --------------------------------------------------------------------
            EXTERNAL REFERENCES = none
                DATA AREAS = none
                CONTROL BLOCKS = from transaction manager domain
                GLOBAL VARIABLES (Macro pass) = none
          --------------------------------------------------------------------
            ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXMRDS IS
            NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
            PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 860.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHXMRDS	Transaction Manager Domain Transaction Statistics DSECT
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	XMRLEN	Length of data area

Table 860. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	SIGNED	0	XMRIDE	"0011" Transaction Statistics id mask
(2)	ADDRESS	2	XMRID	Transaction Statistics id
(2)	BITSTRING	0	XMRVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	XMRDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	4	XMRTI	Transaction ID
(C)	CHARACTER	8	XMRPN	Program name
(14)	CHARACTER	8	XMRTCL	Tclass name
(1C)	CHARACTER	8	XMRRNAM	Remote transid
(24)	CHARACTER	4	XMRRSYS	Remote sysid
(28)	HALFWORD	2	XMRPRTY	Transaction priority
(2A)	CHARACTER	1	XMRDYN	Dynamic indicator
(2A)	CHARACTER	0	XMRDYNY	"C'Y'" ...Dynamic = yes
(2A)	CHARACTER	0	XMRDYNN	"C'N'" ...Dynamic = no
(2B)	CHARACTER	1		Filler
(2C)	FULLWORD	4	XMRAC	Attach count
(30)	FULLWORD	4	XMRRC	Restart count
(34)	FULLWORD	4	XMRDLC	Dynamic local count (the number of times the transaction routing exit decided to run this transaction locally)
(38)	FULLWORD	4	XMRDRC	Dynamic remote count (the number of times the transaction routing exit decided to run this transaction remotely)
(3C)	FULLWORD	4	XMRRSC	Remote start count
(40)	FULLWORD	4	XMRSVC	Storage Violation Count
(44)	FULLWORD	4	XMRITOV	Indoubt timeout value (in minutes)
(48)	CHARACTER	1	XMRIWTOP	IndoubtWait option
(48)	CHARACTER	0	XMRIWTY	"C'Y'" ...Indoubtwait = yes
(48)	CHARACTER	0	XMRIWTN	"C'N'" ...Indoubtwait = no
(49)	CHARACTER	1	XMRIACTN	Indoubt action (commit or backout)

Table 860. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(49)	CHARACTER	0	XMRIACOM	"C'C'" ...Indoubt Action = commit
(49)	CHARACTER	0	XMRIABCK	"C'B'" ...Indoubt Action = backout
(4A)	CHARACTER	2		Filler
(4C)	FULLWORD	4	XMRIWAIT	Number of indoubt waits
(50)	FULLWORD	4	XMRFATXN	Forced action due to trandef
(54)	FULLWORD	4	XMRFAIT	Forced action due to indoubt timeout
(58)	FULLWORD	4	XMRFANW	Forced action due to no wait ability
(5C)	FULLWORD	4	XMRFAOP	Forced action due to operator
(60)	FULLWORD	4	XMRFAOT	Forced action due to other
(64)	FULLWORD	4	XMRAMISM	Number of Action mismatches
(68)	BITSTRING	16		Reserved
(78)	CHARACTER	8	XMR_TRAN_ DEFINE_SOURCE	
				Group installed from
(80)	BITSTRING	8	XMR_TRAN_ CHANGE_TIME	
				Change/create time
(88)	CHARACTER	8	XMR_TRAN_ CHANGE_USERID	
				Change userid
(90)	BITSTRING	2	XMR_TRAN_ CHANGE_AGENT	
				Change agent
(90)	SIGNED	0	XMR_CSDAPI_ CHANGE	"0001" CSD API
(90)	SIGNED	0	XMR_CSDBATCH_ CHANGE	
				"0002" DFHCSDUP
(90)	SIGNED	0	XMR_DREPAPI_ CHANGE	"0003" DREP API
(90)	SIGNED	0	XMR_CREATE_ CHANGE	"0004" EXEC CREATE SPI
(90)	SIGNED	0	XMR_SYSTEM_ CHANGE	"0007" SYSTEM
(92)	BITSTRING	2	XMR_TRAN_ INSTALL_AGENT	
				Install agent

Table 860. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(92)	SIGNED	0	XMR_CSDAPI_ INSTALL	"0001" CSD API
(92)	SIGNED	0	XMR_CREATE_ INSTALL	"0004" EXEC CREATE SPI
(92)	SIGNED	0	XMR_GRPLIST_ INSTALL	
				"0005" GRPLIST
(92)	SIGNED	0	XMR_SYSTEM_ INSTALL	"0007" SYSTEM
(94)	BITSTRING	8	XMR_TRAN_ INSTALL_TIME	
				Install/Create time
(9C)	CHARACTER	8	XMR_TRAN_ INSTALL_USERID	
				Install userid
(9C)		0	XMREND	"*"
(9C)		0	XMRCLEN	"*-XMRLEN" Length of Transaction Stats

XMRSC Transaction Restart Program Commarea

```
!:refstep.transaction_restart_commarea_defn ---------- DFHXMAT 5167 -
!
!
! CICS Commarea for Transaction Restart
!
! This control block defines the commarea passed to the
! user-replaceable Transaction Restart program DFHREST.
!
! Although provided as a sample, this control block is not to be
! used as a general programming interface. Refer to the CICS
! Customisation Guide to determine its intended usage.
!
!-------------------------------------------------------------------
```

Table 861.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	20	XMRS_COMMAREA	Transaction restart commarea
(0)	CHARACTER	4	XMRS_STANDARD_ HEADER	
				Standard commarea header
(0)	CHARACTER	1	XMRS_FUNCTION	Function (always '1')
(1)	CHARACTER	2	XMRS_COMPONENT_ CODE	
				Component (always 'XM')
(3)	CHARACTER	1	*	Reserved

Table 861. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	CHARACTER	1	XMRS_READ	Terminal read done
(5)	CHARACTER	1	XMRS_WRITE	Terminal write done
(6)	CHARACTER	1	XMRS_SYNCPOINT	Syncpoint done
(7)	CHARACTER	1	XMRS_RESTART	Restart (output)
(8)	UNSIGNED	2	XMRS_RESTART_ COUNT	No. of previous restarts
(A)	CHARACTER	2	*	Reserved
(C)	CHARACTER	4	XMRS_ORIGINAL_ ABEND_CODE	
				Original abend code
(10)	CHARACTER	4	XMRS_CURRENT_ ABEND_CODE	
				Current abend code

Constants

Table 862.

Len	Type	value	Name	Description
1	CHARACTER	1	XMRS_TRANSACTION_ RESTART	
2	CHARACTER	XM	XMRS_TRANSACTION_ MANAGER	
1	CHARACTER	Y	XMRS_READ_YES	
1	CHARACTER	N	XMRS_READ_NO	
1	CHARACTER	Y	XMRS_WRITE_YES	
1	CHARACTER	N	XMRS_WRITE_NO	
1	CHARACTER	Y	XMRS_SYNCPOINT_YES	
1	CHARACTER	N	XMRS_SYNCPOINT_NO	
1	CHARACTER	Y	XMRS_RESTART_YES	
1	CHARACTER	N	XMRS_RESTART_NO	

XQS1D Shared TS Queue Server CF statistics *M7A

```
CONTROL BLOCK NAME = DFHXQS1D
DESCRIPTIVE NAME  = CICS (XQ) Statistics for list structure.
   @BANNER_START 02
                        DFHXQS1D
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = XQ Statistics for list structure usage and access.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
      N/A
NOTES :
```

```
                        DEPENDENCIES = S/370
                        MODULE TYPE = Control block definition
            -----------------------------------------------------------------
```

Table 863.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHXQS1D	, XQ list structure statistics record
(0)	FULLWORD	4	S1 (0)	Start of record
(0)	HALFWORD	2	S1LEN	Length of data area
(0)	SIGNED	0	S1IDE	"0121" List structure stats mask
(2)	ADDRESS	2	S1ID	List structure stats id
(2)	BITSTRING	0	S1VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	S1DVERS	List structure stats version number
(5)	CHARACTER	3		Reserved
Coupling facility list structure status information.				
(8)	CHARACTER	16	S1NAME (0)	Full name of list structure
(8)	CHARACTER	8	S1PREF	First part of structure name
(10)	CHARACTER	8	S1POOL	Pool name part of structure name
(18)	CHARACTER	16	S1CNNAME (0)	Name for connection to structure
(18)	CHARACTER	8	S1CNPREF	Prefix for connection name
(20)	CHARACTER	8	S1CNSYSN	Own MVS system name from CVTSNAME
(28)	ADDRESS	4	S1SIZE	Structure size in 4K pages
(2C)	ADDRESS	4	S1SIZEMX	Maximum size in 4K pages
(30)	FULLWORD	4	S1HDRS	Maximum number of list headers
(34)	FULLWORD	4	S1HDRSCT	Headers used for control lists
(38)	FULLWORD	4	S1HDRSQD	Headers available for queue data
(3C)	FULLWORD	4	S1ELEMLN	Data element size as a fullword
(40)	ADDRESS	4	S1ELEMPW	Data element size as power of 2
(44)	ADDRESS	4	S1ELEMPE	Max elements per entry (for 32K)
(48)	FULLWORD	4	S1ELEMRT	Element size of entry:element ratio

Table 863. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4C)	FULLWORD	4	S1ENTRRT	Entry size of entry:element ratio
Usage statistics. Entry and element usage statistics. Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER.				
(50)	FULLWORD	4	S1ENTRCT	Current number of entries in use
(54)	FULLWORD	4	S1ENTRHI	Highest number of entries in use
(58)	FULLWORD	4	S1ENTRLO	Lowest number of free entries
(5C)	FULLWORD	4	S1ENTRMX	Max entries returned by IXLCONN
(60)	FULLWORD	4	S1ELEMCT	Current number of elements in use
(64)	FULLWORD	4	S1ELEMHI	Highest number of elements in use
(68)	FULLWORD	4	S1ELEMLO	Lowest number of free elements
(6C)	FULLWORD	4	S1ELEMMX	Max elements returned by IXLCONN
List entry counts returned by IXLLIST requests. Note that when lists are moved from free to used and vice versa, IXLLIST only returns the target information, so the counts are often slightly inconsistent.				
(70)	DBL WORD	8	S1USEVEC (0)	Usage vector, three pairs of words
(70)	FULLWORD	4	S1USEDCT	Number of entries on used list
(74)	FULLWORD	4	S1USEDHI	Highest entries on used list
(78)	FULLWORD	4	S1FREECT	Number of entries on free list
(7C)	FULLWORD	4	S1FREEHI	Highest entries on free list
(80)	FULLWORD	4	S1INDXCT	Number of entries in queue index
(84)	FULLWORD	4	S1INDXHI	Highest entries in queue index
Coupling facility I/O statistics. Statistics for each main type of CF request.				
(88)	FULLWORD	4	S1RDQCT	Read queue index entry
(8C)	FULLWORD	4	S1WRQCT	Write queue index entry
(90)	FULLWORD	4	S1DLQCT	Delete queue index entry

Table 863. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(94)	FULLWORD	4	S1CRLCT	Create list for a big queue
(98)	FULLWORD	4	S1DLLCT	Delete list (1 per overall delete)
(9C)	FULLWORD	4	S1RDLCT	Read list entry
(A0)	FULLWORD	4	S1WRLCT	Write list entry
(A4)	FULLWORD	4	S1RWLCT	Rewrite list entry
(A8)	FULLWORD	4	S1INQCT	Read queue index status only
(AC)	FULLWORD	4	S1INLCT	Inquire on list entry
Statistics for internal CF requests.				
(B0)	FULLWORD	4	S1WRACT	Write queue index adjunct area only
(B4)	FULLWORD	4	S1RRQCT	Reread index data for full length
(B8)	FULLWORD	4	S1RRLCT	Reread list data for full length
(BC)	FULLWORD	4	S1ASYCT	Number of asynchronous requests
IXLLIST completion statistics indexed by internal response value.				
(C0)	FULLWORD	4	S1RSP1CT	Normal response, everything OK
(C4)	FULLWORD	4	S1RSP2CT	Buffer length was too short for the data, needs full length reread
(C8)	FULLWORD	4	S1RSP3CT	No matching entry was found, indicates queue not found in index or end of queue for list
(CC)	FULLWORD	4	S1RSP4CT	Entry version did not match, indicates queue updated by another system or duplicate queue exists when attempting to create queue
(D0)	FULLWORD	4	S1RSP5CT	List authority comparison mismatch, indicates big queue was deleted
(D4)	FULLWORD	4	S1RSP6CT	Maximum list key reached, indicates max queue size or max queues reached depending on list

Table 863. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(D8)	FULLWORD	4	S1RSP7CT	The list structure is out of space
(DC)	FULLWORD	4	S1RSP8CT	An IXLLIST return code occurred other than those described above
(E0)	FULLWORD	4	S1RSP9CT	Structure temporarily unavailable, for example during rebuild
(E0)		0	S1END	"*"
(E0)		0	S1CLEN	"*-S1LEN" Length of this DSECT

XQS2D Shared TS Queue Server buffer statistics *M7A

```
               CONTROL BLOCK NAME = DFHXQS2D
               DESCRIPTIVE NAME  = CICS (XQ) Statistics for queue buffer
        pool.
                   @BANNER_START 02
                                     DFHXQS2D
                   Licensed Materials - Property of IBM
                   "Restricted Materials of IBM"
                   5655-S97
                   @BANNER_END
               FUNCTION = XQ Statistics for queue index buffer pool usage.
               LIFETIME = N/A
               STORAGE CLASS = N/A
               LOCATION = N/A
                       N/A
               NOTES :
                   DEPENDENCIES = S/370
                   MODULE TYPE = Control block definition
             ----------------------------------------------------------------
```

Table 864.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHXQS2D	, XQ buffer pool statistics record
(0)	FULLWORD	4	S2 (0)	Start of record
(0)	ADDRESS	2	S2LEN	Length of data area
(0)	SIGNED	0	S2IDE	"0122" XQ buffer pool stats mask
(2)	ADDRESS	2	S2ID	XQ buffer pool stats id
(2)	BITSTRING	0	S2VERS	"X'01'" DSECT version number mask
(4)	ADDRESS	1	S2DVERS	XQ buffer pool version number
(5)	BITSTRING	3		Reserved

Table 864. (continued)

Offset Hex	Type	Len	Name (dim)	Description
These statistics are for the queue index buffer pool, which is used to read and write queue index entries plus the associated data if the total queue size does not exceed 32K bytes. Buffers containing recently accessed queue index entries are added to a least recently used chain, which means that if another request for the same queue arrives shortly afterwards, it may be possible to optimize the processing based on the assumption that the copy in the buffer is probably already correct. If all other buffers are in used, a request for a new buffer will discard the contents of the least recently used buffer and reuse the storage as a free buffer. These statistics are returned by AXM buffer management interface. The queue server does not use some of the AXM buffer management functions (such as KEEP or PURGE) so those counters will be zero. These fields describe the current state of the buffer pool.				
(8)	FULLWORD	4	S2BFQTY	Total buffers defined
(C)	FULLWORD	4	S2BFENTH	Number of buffers used so far
(10)	FULLWORD	4	S2BFACTS	Active buffers owned by tasks
(14)	FULLWORD	4	S2BFLRUS	Valid buffers on LRU chain
(18)	FULLWORD	4	S2BFEMPS	Empty buffers on free chain
The following counters start again from zero after a reset.				
(1C)	FULLWORD	4	S2BFPWTS	Waits on buffer pool lock
(20)	FULLWORD	4	S2BFGETS	GET requests
(24)	FULLWORD	4	S2BFHITS	GET which found a valid buffer
(28)	FULLWORD	4	S2BFGFRS	GETs which used a free buffer
(2C)	FULLWORD	4	S2BFGNWS	GETs which used a new buffer
(30)	FULLWORD	4	S2BFGLRS	GETs which used the LRU buffer
(34)	FULLWORD	4	S2BFLWTS	GET waits on buffer lock
(38)	FULLWORD	4	S2BFGNBS	GETs which returned no buffer
(3C)	FULLWORD	4	S2BFPUTS	PUTs (put back buffer as valid)
(40)	FULLWORD	4	S2BFKEPS	KEEPs (put back buffer as modified)
(44)	FULLWORD	4	S2BFFRES	FREEs (put back buffer as empty)
(48)	FULLWORD	4	S2BFFNOS	FREE errors, buffer not owned
(4C)	FULLWORD	4	S2BFPURS	PURGEs (mark buffer invalid)

Table 864. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(50)	FULLWORD	4	S2BFPNFS	PURGE with no matching buffer found
(54)	FULLWORD	4	S2BFPNOS	PURGE errors, buffer not owned
(54)		0	S2END	"*"
(54)		0	S2CLEN	"*-S2LEN" Length of this DSECT

XQS3D Shared TS Queue Server storage statistics *M7A

```
CONTROL BLOCK NAME = DFHXQS3D
DESCRIPTIVE NAME  = CICS (XQ) Statistics for server storage.
   @BANNER_START 02
                         DFHXQS3D
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
FUNCTION = XQ Statistics for server main storage usage.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
       N/A
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
```

Table 865.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHXQS3D	, XQ main storage statistics record
(0)	FULLWORD	4	S3 (0)	Start of record
(0)	ADDRESS	2	S3LEN	Length of data area
(0)	SIGNED	0	S3IDE	"0123" XQ main storage stats mask
(2)	ADDRESS	2	S3ID	XQ main storage stats id
(2)	BITSTRING	0	S3VERS	"X'01'" DSECT version number mask
(4)	ADDRESS	1	S3DVERS	XQ main storage stats version
(5)	BITSTRING	3		Reserved

Table 865. (continued)

Offset Hex	Type	Len	Name (dim)	Description
These are the statistics returned by the AXM page pool management routines for the pools AXMPGANY and AXMPGLOW. Storage in these pools is allocated in multiples of 4K pages on a 4K boundary. The most frequent use is for segments of LIFO stack storage. Storage is initially allocated from the pool using a bit map. For faster allocation, free areas are not normally returned to the pool but are added to a vector of free chains depending on the size of the free area (1 to 32 pages). When storage is being acquired, this vector is checked before going to the pool bit map. If there are no free areas of the right size and there is not enough storage left in the pool, free areas in the vector are put back into the pool, starting from the smallest end, until a large enough area has been created. This action appears as a compress attempt in the statistics. If there is still insufficient storage to satisfy the request, the request is failed. Statistics for LOC=ANY storage pool.				
(8)	CHARACTER	8	S3ANYNAM	Pool name AXMPGANY
(10)	FULLWORD	4	S3ANYSIZ	Size of storage pool area
(14)	ADDRESS	4	S3ANYPTR	Address of storage pool area
(18)	FULLWORD	4	S3ANYMX	Total pages in the storage pool
(1C)	FULLWORD	4	S3ANYUS	Number of used pages in the pool
(20)	FULLWORD	4	S3ANYFR	Number of free pages in the pool
(24)	FULLWORD	4	S3ANYLO	Lowest free pages (since reset)
(28)	FULLWORD	4	S3ANYRQG	Storage GET requests
(2C)	FULLWORD	4	S3ANYRQF	Storage FREE requests
(30)	FULLWORD	4	S3ANYRQS	GETs which failed to get storage
(34)	FULLWORD	4	S3ANYRQC	Compress (defragmentation) attempts
Statistics for LOC=BELOW storage pool.				
(38)	CHARACTER	8	S3LOWNAM	Pool name AXMPGLOW
(40)	FULLWORD	4	S3LOWSIZ	Size of storage pool area
(44)	ADDRESS	4	S3LOWPTR	Address of storage pool area
(48)	FULLWORD	4	S3LOWMX	Total pages in the storage pool
(4C)	FULLWORD	4	S3LOWUS	Number of used pages in the pool
(50)	FULLWORD	4	S3LOWFR	Number of free pages in the pool

Table 865. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(54)	FULLWORD	4	S3LOWLO	Lowest free pages (since reset)
(58)	FULLWORD	4	S3LOWRQG	Storage GET requests
(5C)	FULLWORD	4	S3LOWRQF	Storage FREE requests
(60)	FULLWORD	4	S3LOWRQS	GETs which failed to get storage
(64)	FULLWORD	4	S3LOWRQC	Compress (defragmentation) attempts
(64)		0	S3END	"*"
(64)		0	S3CLEN	"*-S3LEN" Length of this DSECT

XRH Extended recovery facility

```
CONTROL BLOCK NAME = DFHXRHPS
DESCRIPTIVE NAME  = CICS - Extended Recovery Facility
                       XRP - Health Data Definition
 @BANNER_START 02
                       DFHXRHPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
    DFHXRHPS contains the PL/S structure that describes
    the XRF health data managed by CICS.
    XRF health data can be set by
       1. DFHXRA
       2. DFHXRC
       3. DFHXRCP
       4. DFHXRSP
    DFHXRC, the health exit routine, passes XRF health
    data to the CAVM from whence it is written as part
    of the CAVM status data.
LIFETIME =
    There is only one instance of the control block - it
    forms part of XRP static storage which is allocated
    by DFHSIB1.
STORAGE CLASS =
    The control block forms part of XRP static storage.
LOCATION =
    The control block is addressed from XRSAXRHD in XRP
    static storage.
INNER CONTROL BLOCKS =
    There are no inner control blocks.
NOTES :
 DEPENDENCIES =
     S/370
 RESTRICTIONS =
     There are no restrictions.
 MODULE TYPE =
     Control block definition.
     PLS/3
 ----------------------------------------------------------------
 EXTERNAL REFERENCES =
     None.
```

```
        DATA AREAS =
            None.
        CONTROL BLOCKS =
            None.
        GLOBAL VARIABLES (Macro pass) =
            None.
    ----------------------------------------------------------------
```

Table 866.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	52	DFHXRHPS	
(0)	CHARACTER	8	XRHDPFX	- prefix
(8)	CHARACTER	16	*	- "general" values
(8)	CHARACTER	8	XRHDGAPL	- generic applid
(10)	CHARACTER	8	XRHDSAPL	- specific applid
(18)	CHARACTER	4	*	- "control" values
(18)	CHARACTER	1	XRHDTAK	- TAKEOVER
(19)	CHARACTER	1	XRHDSUR	- SURVEILLANCE
(1A)	HALFWORD	2	*	- not used
(1C)	CHARACTER	16	*	- "control" values
(1C)	FULLWORD	4	XRHDADI	- ADI
(20)	FULLWORD	4	XRHDJDI	- JESDI
(24)	FULLWORD	4	XRHDPDI	- PDI
(28)	FULLWORD	4	XRHDHBI	- heartbeat interval
(2C)	CHARACTER	8	*	- "clock" data
(2C)	FULLWORD	4	XRHDCLK1	- "clock" for DFHXRSP - CICS TCB "time stamp"
(30)	FULLWORD	4	XRHDCLK2	- "clock" for DFHXRC - CAVM TCB "time stamp"
(34)	CHARACTER	0	XRHDEND	

```
                    Error data definition
```

Table 867.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	72	XRHE	
(0)	FULLWORD	4	XRHDNRER	- total number
(4)	FULLWORD	4	XRHDIRER	- latest error - index to *
(8)	CHARACTER	8	XRHDRERR (4294967304:130367896)	- errors
(8)	CHARACTER	4	XRHDDOMI	- domain id
(C)	CHARACTER	4	XRHDERRI	- error id

```
                    Extension descriptor
```

Table 868.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	XRHX	
(0)	CHARACTER	4	*	- not used - 0
(4)	HALFWORD	2	XRHXGN	- no. global elements
(6)	CHARACTER	2	*	- not used - 0
(8)	CHARACTER	0	XRHXEND	

Health work element

Table 869.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	84	XRHW	
(0)	ADDRESS	4	XRHWNEXT	Chain (when free)
(0)	BIT(16)	2	XRHWFLG	Flags (when in use)
	1...		XRHWFSET	Data already passed to CAVM surveillance.
(2)	BIT(16)	2	*	Not used
(4)	CHARACTER	72	XRHWE	Error data
(4C)	CHARACTER	8	XRHWX	Extension data
(54)	CHARACTER	0	XRHWEND	Start of global data

Global element definition

Table 870.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	XRHG	
(0)	CHARACTER	8	XRHGP	Prefix
(0)	HALFWORD	2	XRHGLTH	Total length of entry
(2)	BIT(16)	2	XRHGFLG	Flags
	1...		XRHGFALT	- created when alt.
(4)	CHARACTER	4	XRHGDOMI	Domain id
(8)	CHARACTER	*	XRHGDATA	Data

Table 871.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	XRHGD	Data part
(0)	CHARACTER	4	XRHGDP	Prefix
(0)	HALFWORD	2	XRHGDDLN	Data length
(2)	HALFWORD	2	*	Reserved - 0
(4)	CHARACTER	*	XRHGDTXT	Data text

XRS XRF static storage definition

```
CONTROL BLOCK NAME = DFHXRSPS
 DESCRIPTIVE NAME  = CICS (XRF) Static Storage Definition
 @BANNER_START 02

                        DFHXRSPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     DFHXRSPS defines the XRF static storage area managed
             by CICS and referred to as XRP static storage.
     XRP static storage contains
       1. the communications area for DFHXRB and DFHXRSP
       2. ECBs used to control the progress of alternate
          CICS before, during and after takeover
       3. system status data for active CICS
       4. system status data for alternate CICS
       5. system health data
     System status data for active CICS is maintained by
     alternate CICS and contains
       1. status data - e.g. signed on / off
       2. action flags - e.g. heartbeat overdue
       2. action modifier flags - e.g. message sent
     System status data for alternate CICS is maintained
     by active CICS and and is very similar in content to
     system status data for active CICS.
     The structure XRS# provides the common definition
     for system status data.
     The structure DFHXRHPS, contained in DFHXRHPS,
     provides the definition for system health data.
LIFETIME =
     There is only one instance of the control block. It
     is allocated by DFHXRA in response to a DFHXR
     CTYPE=INITIALIZE call in DFHSIC1.
STORAGE CLASS =
     The control block is allocated by DFHSIC1.
LOCATION =
     The control block is addressed from SSAXRP in the
     static storage address list.
INNER CONTROL BLOCKS =
     XRP static storage contains inner control blocks.
     These are
       1. system status data for active CICS
       2. system status data for alternate CICS
       3. system health data
NOTES :
 DEPENDENCIES =
     S/370
 RESTRICTIONS =
     There are no restrictions.
 MODULE TYPE =
     Control block definition.
 -----------------------------------------------------------------
EXTERNAL REFERENCES =
       None.
  DATA AREAS =
       None.
  CONTROL BLOCKS =
       None.
  GLOBAL VARIABLES (Macro pass) =
       None.
           DFHXRP - Static Storage Definition
```

Table 872.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	176	DFHXRSPS	
... general values ...				
(0)	CHARACTER	12	XRSGV	General Values
(0)	ADDRESS	4	XRSSXRSA	Status area anchor
(4)	CHARACTER	4	*	Reserved
(8)	CHARACTER	1	XRSXRF	- function
(9)	CHARACTER	1	XRSXRSNS	- signon
(A)	CHARACTER	2	*	Reserved
... pointers ...				
(C)	CHARACTER	16	XRSAX	Pointers
(C)	ADDRESS	4	XRSAXRS0	- A(status data - act)
(10)	ADDRESS	4	XRSAXRS1	- A(status data - alt 1)
(14)	ADDRESS	4	XRSAXRS2	- A(status data - alt 2)
(18)	ADDRESS	4	XRSAXRHD	- A(health data)
... DFHXRB / DFHXRSP communication area ...				
(1C)	CHARACTER	4	XRSW	DFHXRB / DFHXRSP comm area
(1C)	ADDRESS	4	XRSWECHN	- work element queue
... Event Control Blocks ...				
(20)	CHARACTER	16	XRSTI	Takeover Initiated
(20)	CHARACTER	4	XRSTIPFX	- eye catcher
(24)	CHARACTER	4	XRSTIECB	- TI ECB (CICS posted)
	1...		*	Reserved
	.1..		XRSTIWT	- wait/post bit
(24)	BIT(22) POS(3)	3	*	Reserved
(27)	BIT(8)	1	XRSTIRC	- return code
(28)	CHARACTER	8	XRSTITOD	- time TI ECB posted
(30)	CHARACTER	16	XRSIA	Incipient Active
(30)	CHARACTER	4	XRSIAPFX	- eye catcher
(34)	CHARACTER	4	XRSIAECB	- IA ECB (CICS posted)
	1...		*	Reserved
	.1..		XRSIAWT	- wait/post bit
(34)	BIT(22) POS(3)	3	*	Reserved
(37)	BIT(8)	1	XRSIARC	- return code
(38)	CHARACTER	8	XRSIATOD	- time IA ECB posted
(40)	CHARACTER	16	XRSTC	Takeover Completed
(40)	CHARACTER	4	XRSTCPFX	- eye catcher
(44)	CHARACTER	4	XRSTCECB	- TC ECB (CICS posted)

Table 872. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		*	Reserved
	.1..		XRSTCWT	- wait/post bit
(44)	BIT(22) POS(3)	3	*	Reserved
(47)	BIT(8)	1	XRSTCRC	- return code
(48)	CHARACTER	8	XRSTCTOD	- time TC ECB posted
(50)	CHARACTER	16	XRSRA	RSD Available
(50)	CHARACTER	4	XRSRAPFX	- eye catcher
(54)	CHARACTER	4	XRSRAECB	- RA ECB (CICS posted)
	1...		*	Reserved
	.1..		XRSRAWT	- wait/post bit
(54)	BIT(22) POS(3)	3	*	Reserved
(57)	BIT(8)	1	XRSRARC	- return code
(58)	CHARACTER	8	XRSRATOD	- time RA ECB posted
(60)	CHARACTER	16	XRSSS	Synchronized wrt Signoff
(60)	CHARACTER	4	XRSSSPFX	- eye catcher
(64)	CHARACTER	4	XRSSSECB	- SS ECB (CICS posted)
	1...		*	Reserved
	.1..		XRSSSWT	- wait/post bit
(64)	BIT(22) POS(3)	3	*	Reserved
(67)	BIT(8)	1	XRSSSRC	- return code
(68)	CHARACTER	8	XRSSSTOD	- time SS ECB posted
(70)	CHARACTER	16	XRSST	Synchronized wrt Termination
(70)	CHARACTER	4	XRSSTPFX	- eye catcher
(74)	CHARACTER	4	XRSSTECB	- ST ECB (CICS posted)
	1...		*	Reserved
	.1..		XRSSTWT	- wait/post bit
(74)	BIT(22) POS(3)	3	*	Reserved
(77)	BIT(8)	1	XRSSTRC	- return code
(78)	CHARACTER	8	XRSSTTOD	- time ST ECB posted
(80)	CHARACTER	16	XRSQS	Quiesce Surveillance
(80)	CHARACTER	4	XRSQSPFX	- eye catcher
(84)	CHARACTER	4	XRSQSECB	- QS ECB (CICS posted)
	1...		*	Reserved
	.1..		XRSQSWT	- wait/post bit
(84)	BIT(22) POS(3)	3	*	Reserved
(87)	BIT(8)	1	XRSQSRC	- return code

Table 872. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(88)	CHARACTER	8	XRSQSTOD	- time QS ECB posted
(90)	CHARACTER	16	XRSSD	Shut Down
(90)	CHARACTER	4	XRSSDPFX	- eye catcher
(94)	CHARACTER	4	XRSSDECB	- SD ECB (CICS posted)
	1...		*	Reserved
	.1..		XRSSDWT	- wait/post bit
(94)	BIT(22) POS(3)	3	*	Reserved
(97)	BIT(8)	1	XRSSDRC	- return code
(98)	CHARACTER	8	XRSSDTOD	- time SD ECB posted
... system health data ...				
(A0)	CHARACTER	16	XRSH	
(A0)	CHARACTER	8	XRSHGAPL	Generic applid
(A8)	CHARACTER	8	XRSHSAPL	Specific applid
(B0)	CHARACTER	0	DFHXRSND	

```
Anchor area addressed by XRSSXRSA in static area
Note: XRSA MUST end on a word boundary such that the XRS#
      status areas that follow are also word alligned.
```

Table 873.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	84	XRSA	
(0)	CHARACTER	8	XRSAPFX	- eye catcher
(8)	FULLWORD	4	XRSALN	Total area length
(C)	ADDRESS	4	* (4294967300:130392288)	QQQQ space for XRSAXRS0..
(1C)	FULLWORD	4	XRSAGMAX	Global data area size
(20)	CHARACTER	8	XRSAF	Free health elements
(20)	ADDRESS	4	XRSAFREE	First free hwe
(24)	FULLWORD	4	XRSAFIDN	Guard for CDS
(28)	ADDRESS	4	XRSASHRD	Transferred hwe
(2C)	ADDRESS	4	XRSACAVM	CAVM's hwe
(30)	ADDRESS	4	XRSAPTA	Program name table adr
(34)	CHARACTER	4	XRSAMVID	MVS SMF id.
(38)	CHARACTER	4	XRSAJSID	JES subsystem id.
(3C)	CHARACTER	8	XRSASPLX	XCF Sysplex name
(44)	CHARACTER	8	XRSASNAM	MVS System name
(4C)	CHARACTER	4	XRSASTOK	MVS System instance
(50)	CHARACTER	4	*	Status bytes
(50)	BIT(8)	1	XRSASIND	MVS System status

Table 873. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		XRSAXCFA	
	.111 1111		*	Reserved
(51)	CHARACTER	3	*	Reserved
(54)	CHARACTER	0	*	force word allignment

DFHXRP - System Status Definition

Table 874.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	76	XRS#	Data for ...
(0)	CHARACTER	8	XRS#PFX	- eye catcher
(8)	FULLWORD	4	XRS#DI	- delay interval
(C)	CHARACTER	12	*	- status (wrt CAVM TCB)
(C)	FULLWORD	4	XRS#INS1	- instance number
(10)	FULLWORD	4	XRS#VER1	- version number
(14)	CHARACTER	4	*	- flags
	1...		XRS#SON1	- signed on
	.1..		XRS#HBO1	- heartbeat overdue
(14)	BIT(30) POS(3)	4	*	Reserved
(18)	CHARACTER	20	*	- status (wrt CICS TCB)
(18)	FULLWORD	4	XRS#INS2	- instance number
(1C)	FULLWORD	4	XRS#VER2	- version number
(20)	CHARACTER	8	XRS#APL2	- specific applid
(28)	CHARACTER	4	*	- flags
	1...		XRS#SON2	- signed on
(28)	BIT(31) POS(2)	4	*	Reserved
(2C)	FULLWORD	4	XRS#NSON	- sign on count
(30)	CHARACTER	8	*	- Write to Operator
(30)	CHARACTER	4	XRS#ECB	- WTOR ECB (OS posted)
	1...		XRS#WAIT	- wait bit
	.1..		XRS#POST	- post bit
(30)	BIT(30) POS(3)	4	*	Reserved
(34)	FULLWORD	4	XRS#MID	- identification number
(38)	CHARACTER	3	XRS#AFL	- action flags
	1...		XRS#HBRS	- heartbeat resumed
	.1..		XRS#HBOD	- heartbeat overdue
	..1.		XRS#RQTP	- request takeover - process WTOR request

Table 874. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	...1		XRS#RQTG	- request takeover - preocess WTOR reply
	.... 1...		XRS#INTK	- initiate takeover
	.... .1..		XRS#PSN	- sign on
	.... ..1.		XRS#PSFN	- sign off normal
	1		XRS#PSFA	- sign off abnormal
(39)	1...		XRS#ATCX	- attach CXCU
(39)	BIT(15) POS(2)	2	*	Reserved
(3B)	CHARACTER	1	XRS#MFL	- action modifier flags
	1...		XRS#SONP	- sign on - pending
	.1..		XRS#SOFI	- sign off - implicit
	..1.		XRS#ATER	- attach CXCU failed
	...1		XRS#6X16	- heartbeat overdue
	...1		XRS#6416	- message DFH6416
	...1		XRS#6516	- message DFH6516
	.... 1...		XRS#6X18	- request takeover
	.... 1...		XRS#6418	- message DFH6418
	.... 1...		XRS#6518	- message DFH6518
	.... .1..		XRS#DUMP	- request dump
	11		*	Reserved
(3C)	CHARACTER	16	*	- TOD clock difference
(3C)	CHARACTER	8	*	- wrt CAVM TCB
(3C)	FULLWORD	4	XRS#LBD1	- lower bound
(40)	FULLWORD	4	XRS#UBD1	- upper bound
(44)	CHARACTER	8	*	- wrt CICS TCB
(44)	FULLWORD	4	XRS#LBD2	- lower bound
(48)	FULLWORD	4	XRS#UBD2	- upper bound

Constants

Table 875.

Len	Type	value	Name	Description
1	CHARACTER	N	XRSXRNO	- not signed on
1	CHARACTER	A	XRSXRACT	- signed on as active
1	CHARACTER	B	XRSXRALT	- signed on as alternate
1	CHARACTER	A	XRSTAKEA	- TAKEOVER=AUTOMATIC
1	CHARACTER	M	XRSTAKEM	- TAKEOVER=MANUAL

Table 875. (continued)

Len	Type	value	Name	Description
1	CHARACTER	C	XRSTAKEC	- TAKEOVER=COMMAND
1	CHARACTER	Y	XRSSURON	- SURVEILLANCE=ON
1	CHARACTER	N	XRSSUROF	- SURVEILLANCE=OFF
0	BIT	1	XRS#ON	- action required
0	BIT	0	XRS#OFF	- action completed

XRW XRF work element definition

```
CONTROL BLOCK NAME = DFHXRWPS
DESCRIPTIVE NAME  = CICS (XRF) Work Element Definition
 @BANNER_START 02
                         DFHXRWPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
    DFHXRWPS defines the XRF work elements managed by CICS.
    XRF work elements are used to pass information from
    DFHXRB, the notify exit program which runs under the
    CAVM TCB, to DFHXRSP, the surveillance program which
    runs under the CICS TCB.
    The information passed from DFHXRB to DFHXRSP, and
    the action taken by DFHXRSP, depends on the event
    notified to DFHXRB by the CAVM.
LIFETIME =
     XRF work elements are created by DFHXRB and are
     destroyed by DFHXRSP.
STORAGE CLASS =
     XRF work elements are allocated from OS storage.
LOCATION =
    Two work element chains exist.
        1. The first chain, addressed from XRSWECHN in
           XRP static storage, contains those elements
           created by DFHXRB ... but ... not yet seen
           by DFHXRSP - elements appear reverse order
           of creation.
        2. The second chain, addressed from DFHXRSP
           LIFO storage, contains those elements seen
           ... but ... not yet processed by DFHXRSP;
           elements appear in order of creation.
INNER CONTROL BLOCKS =
     There are no inner control blocks.
NOTES :
 DEPENDENCIES =
     S/370
 RESTRICTIONS =
     There are no restrictions.
 MODULE TYPE =
     Control block definition.
 ----------------------------------------------------------------
 EXTERNAL REFERENCES =
     None.
   DATA AREAS =
     None.
   CONTROL BLOCKS =
```

```
            None.
      GLOBAL VARIABLES (Macro pass) =
            None.
    ----------------------------------------------------------------
```

Table 876.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	28	DFHXRWPS	XRP work element
(0)	FULLWORD	4	XRWETRRQ	- request - for trace
(0)	UNSIGNED	1	XRWERQ	- request
(1)	BIT(8)	1	XRWERQM	- request modifier
	1...		XRWERQIM	- implicit request
	.1..		XRWERQDU	- DUMP=YES specified
	..1.		XRWERQMD	- MVS system gone
	...1 1111		*	Reserved
(2)	BIT(16)	2	*	Reserved
(4)	ADDRESS	4	XRWECHN	- A(next work element)
(8)	ADDRESS	4	XRWEASD	- A(system status data)
(C)	FULLWORD	4	XRWEINS	- instance number
(10)	FULLWORD	4	XRWEVER	- version number
(14)	CHARACTER	8	XRWEAPL	- specific applid
(14)	FULLWORD	4	XRWELBD	- TOD clock - lower bound
(14)	FULLWORD	4	XRWEHBL	- #(secs heartbeat late)
(14)	FULLWORD	4	XRWEABC	- abend code (ex CAVM)
(18)	FULLWORD	4	XRWEUBD	- TOD clock - upper bound

Constants

Table 877.

Len	Type	value	Name	Description
1	DECIMAL	1	XRWESON	- signon
1	DECIMAL	2	XRWESOFN	- signoff normal
1	DECIMAL	3	XRWESOFA	- signoff abnormal
1	DECIMAL	7	XRWECKDC	- TOD clock difference
1	DECIMAL	8	XRWEIHRC	- health response
1	DECIMAL	9	XRWEHBOD	- heartbeat overdue
1	DECIMAL	10	XRWEHBRS	- heartbeat resumed
1	DECIMAL	15	XRWERQTK	- request takeover
1	DECIMAL	16	XRWEICPA	- incipient active
1	DECIMAL	17	XRWEACTV	- active

Table 877. (continued)

Len	Type	value	Name	Description
1	DECIMAL	18	XRWECKAS	- TOD clock wrt signoff
1	DECIMAL	19	XRWECKAT	- TOD clock wrt termination
1	DECIMAL	24	XRWEFAIL	- CAVM failure
1	DECIMAL	25	XRWEINVL	- invalidated

ATD Attach table

```
CONTROL BLOCK NAME = DFHXTSPS
DESCRIPTIVE NAME  = CICS (TERMSHR) TRANSFORMER
 @BANNER_START 02

                   DFHXTSPS
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
     DSECT for PLAS callers of DFHXTP
LIFETIME =
     Same as lifetime of caller's stack storage
STORAGE CLASS =
     STACK
LOCATION =
     In stack-storage of XTP's caller
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 ----------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
   CONTROL BLOCKS =
   GLOBAL VARIABLES (Macro pass) =
 ----------------------------------------------------------------
```

Table 878.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	156	DFHXTSPS	
(0)	CHARACTER	0	XTSTART	
(0)	CHARACTER	0	XTSBEGIN	
(0)	ADDRESS	4	XTSATTEL	ADDR OF TCTTE TO BE USED FOR THIS CONVERSATION
(4)	ADDRESS	4	XTSATIOA	ADDR OF TIOA FOR REQUEST TO BE SHIPPED ACROSS LINK
(8)	ADDRESS	4	XTSATTES	ADDR OF SURROGATE TCTTE
(8)	ADDRESS	4	XTSATTEU	ADDR OF USERS TCTTE

Table 878. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C)	ADDRESS	4	XTSMCRA	ADDRESS OF MCR
(10)	ADDRESS	4	XTSLUCPL	Address of LUC parameter list
(14)	CHARACTER	6	*	
(14)	ADDRESS	4	XTSINBPS	-> ZC BPS FOR INSTALL
(14)	CHARACTER	6	XTSPAGDS	PAGE DATA
(14)	ADDRESS	4	XTSPAGDA	ADDRESS OF PAGE DATA
(18)	CHARACTER	2	XTSPLDCM	LDC mnemonic for BMS page
(1A)	CHARACTER	2	*	
(1C)	CHARACTER	2	XTSLDCM	LDC mnemonic for non BMS
(1E)	CHARACTER	1	XTSFORMN	TRANSFORMATION REQUIRED
(1F)	BIT(8)	1	XTSRQFRM	REQUEST FORMAT
(20)	CHARACTER	31	XTSRTEDS	ROUTE DATA
(20)	ADDRESS	4	XTSTTLA	ADDRESS OF TITLE
(24)	ADDRESS	4	XTSRTELA	ADDRESS OF ROUTE LIST
(28)	CHARACTER	2	XTSREQID	BMS REQUEST ID
(2A)	CHARACTER	12	XTSFQERT	FULLY QUALIFIED TERMINAL ID OF BMS ERROR TERMINAL (IE NETNAME.TERMID)
(36)	CHARACTER	2	XTSETLDC	BMS ERRTERM LDC
(38)	CHARACTER	2	XTSMCFL	MESSAGE CONTOL FLAGS
(38)	BIT(8)	1	XTSMCFL1	MESSAGE CONTROL FLAGS 1
	1...		XTSRELSE	CTRL=RELEASE, OVERLAYS TITLE
	.1..		XTSWBCUR	WRBRK=CURRENT, EQU MCRWBCUR.
	..1.		XTSWBALL	WRBRK=ALL, EQU MCRWBALL.
	...1		XTSEODOP	EODPURG=OPER, EQU MCREODOP.
	.... 1...		XTSPAGE	CTRL=PAGING, EQU MCRPAGE.
	.... .1..		XTSAUTOP	CTRL=AUTOPAGE, EQU MCRAUTOP.
	.... ..1.		*	

Table 878. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		XTSRTAIN	CTRL=RETAIN, EQU MCRRTAIN.
(39)	BIT(8)	1	XTSMCFL2	MESSAGE CONTROL FLAGS 2
	1...		*	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		XTSSCSA	ALTERNATE SCREEN SIZE USED, EQU MCRSCSA.
	.... .1..		*	
	.... ..1.		XTSBMSSM	BMS SYSTEM MESSAGE, EQU MCRBMSSM.
	1		*	
(3A)	BIT(8)	1	XTSMCTRL	FLAGS FOR TCAMSTR6
(3B)	BIT(8)	1	XTSMISC	Miscellaneous indicators
	1...		XTSTMERR	Terminal IO error
	.111 1111		*	Reserved
(3C)	CHARACTER	3	XTSOCL	OPERATOR CLASS
(3F)	CHARACTER	4	XTSSYSID	
(43)	CHARACTER	6	XTSTPOS1	COPY OF TCATPOS1 etc.
(49)	CHARACTER	2	XTSTPCON	COPY OF TCATPCON & TCATPOC3 *
(49)	CHARACTER	1	*	
(4A)	CHARACTER	1	XTSTPOC3	COPY OF TCATPOC3
(4B)	CHARACTER	1	XTSRPOS2	REQUEST SHIPPED
(4C)	BIT(8)	1	XTSTCOPC	TC OPERATION CODE
	1...		*	
	.1..		*	
	..1.		*	
	...1		XTSTCRD	TC READ
	.... 1...		*	
	.... .1..		*	
	.... ..1.		XTSTCCNV	TC CONVERSE
	1		XTSTCWRT	TC WRITE

Table 878. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4D)	BIT(8)	1	XTSSTAT	TRANSFORM STATUS
	1...		XTSSTATR	REQUEST TRANSFORM
	.1..		XTSSTATA	ATTACH TRANSFORM
	..1.		XTSSTATD	DETACH TRANSFORM
	...1		XTSSTATF	FLUSH TRANSFORM
	.... 1...		*	
	.... .1..		XTSSTATO	Origin Data supported
	.... ..1.		XTSSTATT	Time-out supported
	1		XTSSTATC	Terminal-owner is cold
(4E)	CHARACTER	4	XTSTRNID	REMOTE TRANSACTION ID
(52)	BIT(8)	1	XTSZIRSP	ZC RESPONSE
(53)	CHARACTER	8	XTSTPPNM	Prog. name for ISSUE LOAD
(5B)	CHARACTER	1	*	
(5C)	CHARACTER	10	*	
(5C)	CHARACTER	8	XTSLUNAM	LU name of target system
(64)	UNSIGNED	2	XTSDATAL	Length of logon data
(66)	CHARACTER	1	XTSLOGEX	LOGMODE EXISTENCE
(67)	CHARACTER	8	XTSLOGMD	LOGMODE FOR NEW SESS
(6F)	CHARACTER	1	*	
(70)	FULLWORD	4	XTSDATAA	Address of logon data
(74)	CHARACTER	8	XTSTNNAM	Terminal netname
(7C)	UNSIGNED	1	XTSPAPR	TC response
(7D)	CHARACTER	4	XTSABEND	TC abend
(81)	UNSIGNED	4	XTSSENSE	TC sense
(85)	CHARACTER	3	*	
(88)	UNSIGNED	4	XTSCHANT	Channel token
(8C)	CHARACTER	16	XTSTBYTE	Total channel bytes

Constants

Table 879.

Len	Type	value	Name	Description
Values of XTSFORMN				
1	HEX	00	XTSTRAN1	Transformation 1
1	HEX	02	XTSTRAN2	Transformation 2
1	HEX	04	XTSTRAN3	Transformation 3
1	HEX	06	XTSTRAN4	Transformation 4
Values of XTSRQFRM				
1	HEX	00	XTSRQRLY	Relay
TCTTE address for user terminal/surrogate is passed in XTSATTEU. Data is sent over the link with a X'438000' FMH.				
1	HEX	01	XTSRQTIQ	Inquire terminal
The terminal entry associated with this conversation is INQUIRED.				
1	HEX	02	XTSRQTIN	Install terminal
Address of Builder Parameter Set is passed in XTSINBPS. The BPS is sent over the link with a X'438002' FMH. This is not supported as the FMH 43 following a Task Attach.				
1	HEX	03	XTSRQTDE	Delete terminal
The REMOTE entries named in the list (if any) attached to the system entry for the link TCTTE are to be deleted. This is only supported with a Task Attach.				
1	HEX	04	XTSRQZIR	ZC install response message
ZC RESPONSE is passed in XTSCODE1, address of message-set or 0 is passed in XTSATTEU.				
1	HEX	05	XTSXLONG	Extract long fields

ZCCPS CICS Client *M5A

```
MODULE NAME = DFHZCCPS
DESCRIPTIVE NAME  = CICS Client control blocks
 This copybook provides the declarations and structures
 necessary for the CCIN and CTIN transactions.
 @BANNER_START 04
 OCO Source Materials DFHZCCPS
 5655-S97
 The source code for the program is not published
 or otherwise divested of its trade secrets,
 irrespective of what has been deposited with the
 @BANNER_END
 NOTES :
  DEPENDENCIES = S/390

 ----------------------------------------------------------------
 ----------------------------------------------------------------
 ================================================================
  Data for CICS client CCIN transaction input
 ================================================================
```

Table 880.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	R	Receive parameters !

Table 880. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	CHARACTER	12	CCIN_HEADER	
(0)	FULLWORD	4	CCIN_LEN	
(4)	UNSIGNED	1	CCIN_GROUP	
(5)	UNSIGNED	1	CCIN_FUNCTION	
(6)	UNSIGNED	1	CCIN_VERSION	
(7)	UNSIGNED	1	CCIN_RESPONSE	
(8)	UNSIGNED	2	CCIN_REASON	
(A)	UNSIGNED	2	CCIN_PARMNUM	

Table 881.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CCIN_APPLID_PARM	
(0)	FULLWORD	4	CCIN_APPLID_ LENGTH	
(4)	UNSIGNED	1	CCIN_APPLID_ PARM_TYPE	
(5)	CHARACTER	*	CCIN_APPLID	

Table 882.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CCIN_CODEPAGE_ PARM	
(0)	FULLWORD	4	CCIN_CODEPAGE_ LENGTH	
(4)	UNSIGNED	1	CCIN_CODEPAGE_ PARM_TYPE	
(5)	CHARACTER	*	CCIN_CODEPAGE	

Table 883.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	CCIN_CAPABILITIES_ PARM	
(0)	FULLWORD	4	CCIN_CAPABILITIES_ LENGTH	
(4)	UNSIGNED	1	CCIN_CAPABILITIES_ PARM_TYPE	
(5)	BIT(8)	1	CCIN_ENVIRON_ TYPE	
	1111 11..		*	
	.... ..1.		CCIN_EBCDIC	
	1		CCIN_BIGENDIAN	

Table 883. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(6)	BIT(16)	2	CCIN_CLIENT_ CAPABILITIES	
(6)	BIT(8)	1	*	
	1...		CCIN_EXIT_ PROCESSING	
	.1..		CCIN_TRANSLATE_ CAPABLE	
	..1.		CCIN_DELETE_ ENTRIES	
	...1		CCIN_TCTUA_ COMMAREA	
	 1111		*	
(7)	BIT(8)	1	*	

Table 884.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	10	CCIN_SECURITY_ PARM	
(0)	FULLWORD	4	CCIN_SECURITY_ LENGTH	
(4)	UNSIGNED	1	CCIN_SECURITY_ PARM_TYPE	
(5)	UNSIGNED	1	CCIN_ECIATTACH_ USERID	
(6)	UNSIGNED	1	CCIN_ECIATTACH_ PASSWORD	
(7)	UNSIGNED	1	CCIN_EPIATTACH_ USERID	
(8)	UNSIGNED	1	CCIN_EPIATTACH_ PASSWORD	
(9)	UNSIGNED	1	CCIN_CTINATTACH_ REQS	

Table 885.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	6	CCIN_TIMEOUT_PARM	
(0)	FULLWORD	4	CCIN_TIMEOUT_ LENGTH	
(4)	UNSIGNED	1	CCIN_TIMEOUT_ PARM_TYPE	
(5)	BIT(8)	1	*	
	1...		CCIN_CONV_ TIMEOUT_SUPPORTED	
	.111 1111		*	

```
==================================================================
          Data for CICS client CCIN transaction output
==================================================================
```

Table 886.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	S	Send parameters !
(0)	CHARACTER	12	CCIN_HEADER	
(0)	FULLWORD	4	CCIN_LEN	
(4)	UNSIGNED	1	CCIN_GROUP	
(5)	UNSIGNED	1	CCIN_FUNCTION	
(6)	UNSIGNED	1	CCIN_VERSION	
(7)	UNSIGNED	1	CCIN_RESPONSE	
(8)	UNSIGNED	2	CCIN_REASON	
(A)	UNSIGNED	2	CCIN_PARMNUM	

```
==================================================================
          Data for CICS client CTIN transaction input
==================================================================
```

Table 887.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	IN	Input parameters !
(0)	CHARACTER	12	CTIN_HEADER	
(0)	FULLWORD	4	CTIN_LEN	
(4)	UNSIGNED	1	CTIN_GROUP	
(5)	UNSIGNED	1	CTIN_FUNCTION	
(6)	UNSIGNED	1	CTIN_VERSION	
(7)	UNSIGNED	1	CTIN_RESPONSE	
(8)	UNSIGNED	2	CTIN_REASON	
(A)	UNSIGNED	2	CTIN_PARMNUM	

Table 888.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CTIN_NETNAME_PARM	
(0)	FULLWORD	4	CTIN_NETNAME_ LENGTH	
(4)	UNSIGNED	1	CTIN_NETNAME_ PARM_TYPE	
(5)	CHARACTER	*	CTIN_NETNAME	

Table 889.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CTIN_MODELID_PARM	

Table 889. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(0)	FULLWORD	4	CTIN_MODELID_LENGTH	
(4)	UNSIGNED	1	CTIN_MODELID_PARM_TYPE	
(5)	CHARACTER	*	CTIN_MODELID	

Table 890.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CTIN_CODEPAGE_PARM	
(0)	FULLWORD	4	CTIN_CODEPAGE_LENGTH	
(4)	UNSIGNED	1	CTIN_CODEPAGE_PARM_TYPE	
(5)	CHARACTER	*	CTIN_CODEPAGE	

Table 891.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CTIN_APPLID_PARM	
(0)	FULLWORD	4	CTIN_APPLID_LENGTH	
(4)	UNSIGNED	1	CTIN_APPLID_PARM_TYPE	
(5)	CHARACTER	*	CTIN_APPLID	

Table 892.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CTIN_TERMID_PARM	
(0)	FULLWORD	4	CTIN_TERMID_LENGTH	
(4)	UNSIGNED	1	CTIN_TERMID_PARM_TYPE	
(5)	CHARACTER	*	CTIN_TERMID	

Table 893.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	6	CTIN_TERMSOC_PARM	
(0)	FULLWORD	4	CTIN_TERMSOC_LENGTH	
(4)	UNSIGNED	1	CTIN_TERMSOC_PARM_TYPE	
(5)	UNSIGNED	1	CTIN_TERMSOC	signon capability !

Table 893. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1...		CTIN_TERMSOC_ IND	1 - required ! 0 - not required !

```
================================================================
    Data for CICS client CTIN transaction output
================================================================
```

Table 894.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	OUT	Output parameters !
(0)	CHARACTER	12	CTIN_HEADER	
(0)	FULLWORD	4	CTIN_LEN	
(4)	UNSIGNED	1	CTIN_GROUP	
(5)	UNSIGNED	1	CTIN_FUNCTION	
(6)	UNSIGNED	1	CTIN_VERSION	
(7)	UNSIGNED	1	CTIN_RESPONSE	
(8)	UNSIGNED	2	CTIN_REASON	
(A)	UNSIGNED	2	CTIN_PARMNUM	

Table 895.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	CTIN_TERMDETAILS_ PARM	
(0)	FULLWORD	4	CTIN_TERMDETAILS_ LENGTH	
(4)	UNSIGNED	1	CTIN_TERMDETAILS_ PARM_TYPE	
(5)	CHARACTER	*	CTIN_TERMDETAILS	

Table 896.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	6	CTIN_TERMSOCS_ PARM	like ctin_termsoc_parm
(0)	FULLWORD	4	*	
(4)	UNSIGNED	1	*	
(5)	UNSIGNED	1	*	Signon capability
	1...		*	1 - capable 0 - incapable

Constants

Table 897.

Len	Type	value	Name	Description
=== Declare the CCIN header block and response and reason codes === Constants for ccin_group				
1	DECIMAL	1	CCIN_CLIENT_FUNCTION	
Constants for ccin_function				
1	DECIMAL	1	CCIN_CLIENT_ INSTALL_REQUEST	
1	DECIMAL	2	CCIN_CLIENT_ INSTALL_RESPONSE	
1	DECIMAL	3	CCIN_CLIENT_ UNINSTALL_REQUEST	
Constants for CCIN parameter types				
1	DECIMAL	1	CCIN_APPLID_TYPE	
1	DECIMAL	3	CCIN_CODEPAGE_TYPE	
1	DECIMAL	4	CCIN_CAPABILITIES_ TYPE	
1	DECIMAL	9	CCIN_SECURITY_TYPE	
1	DECIMAL	12	CCIN_TIMEOUT_TYPE	
Constants for ccin_response				
1	DECIMAL	0	CCIN_NORMAL	
1	DECIMAL	1	CCIN_EXCEPTION	
1	DECIMAL	2	CCIN_ERROR	
1	DECIMAL	4	CCIN_DISASTER	
Constants for ccin_reason				
2	DECIMAL	0	CCIN_OK	
2	DECIMAL	1	CCIN_ALREADY_ INSTALLED	
2	DECIMAL	4	CCIN_INSTALL_ CANCELLED	
2	DECIMAL	5	CCIN_SERVER_BUSY	
2	DECIMAL	6	CCIN_INVALID_REQUEST	
2	DECIMAL	7	CCIN_INVALID_ CODEPAGE	
=== Declare the CTIN header block and response and reason codes === Constants for ctin_group				
1	DECIMAL	1	CTIN_CLIENT_FUNCTION	
Constants for ctin_function				
1	DECIMAL	17	CTIN_TERMINAL_ INSTALL_REQUEST	
1	DECIMAL	18	CTIN_TERMINAL_ INSTALL_RESPONSE	

Table 897. (continued)

Len	Type	value	Name	Description
1	DECIMAL	19	CTIN_TERMINAL_ UNINSTALL_REQUEST	
	Constants for CTIN parameter types			
1	DECIMAL	1	CTIN_APPLID_TYPE	
1	DECIMAL	3	CTIN_CODEPAGE_TYPE	
1	DECIMAL	5	CTIN_NETNAME_TYPE	
1	DECIMAL	6	CTIN_MODELID_TYPE	
1	DECIMAL	7	CTIN_TERMDETAILS_ TYPE	
1	DECIMAL	8	CTIN_TERMID_TYPE	
1	DECIMAL	10	CTIN_TERMSOC_TYPE	
	Constants for ctin_response			
1	DECIMAL	0	CTIN_NORMAL	
1	DECIMAL	1	CTIN_EXCEPTION	
1	DECIMAL	2	CTIN_ERROR	
1	DECIMAL	4	CTIN_DISASTER	
	Constants for ctin_reason			
2	DECIMAL	1	CTIN_ALREADY_ INSTALLED	
2	DECIMAL	2	CTIN_UNKNOWN_ TERMINAL	
2	DECIMAL	3	CTIN_UNKNOWN_MODEL	
2	DECIMAL	4	CTIN_INSTALL_ CANCELLED	
2	DECIMAL	5	CTIN_SERVER_BUSY	
2	DECIMAL	6	CTIN_INVALID_REQUEST	
2	DECIMAL	7	CTIN_INVALID_ CODEPAGE	
2	DECIMAL	8	CTIN_INVALID_SIGNON	
2	DECIMAL	9	CTIN_CCIN_INACTIVE	
2	DECIMAL	10	CTIN_INVALID_TERMID	
	Constants for ctin_o_type			
1	DECIMAL	7	CTIN_O_TERM_BPS	

ZCQ Builder parameter set

Table 898.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	17	ZCBPS	Root for overlay structure
(0)	ADDRESS	4	ZCQPSPTR	Address of BPS

Table 898. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(4)	ADDRESS	4	BPS_BIND_IN_USE	BPS Bind in use. Set by ZCQIS.
(8)	BIT(8)	1	*	
	1...		BPS_NOREPLACE	Don't replace existing version
	.1..		BPS_SHIPPED_X	Definition was shipped.
	..11 1...		BPS_TYPE_BITS	
	..1.		BPS_CONN	Connection definition
	...1		BPS_SESS	Session definition
	.... 1...		BPS_POOL	Pipeline definition
	.... .111		*	
(9)	CHARACTER	8	BPS_ATOM_ID	Related set of recoverable

BPSes

Table 899.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	10	DFHZCQPS	BPS
(0)	ADDRESS	4	BPS_FORWARD_PTR	Next in chain, if any.
(4)	HALFWORD	2	BPS_LENGTH	Length of whole structure.
(6)	UNSIGNED	1	BPS_RTC	Resource Type Code.
(7)	UNSIGNED	1	BPS_SUBTYPE	Subtype.
(8)	UNSIGNED	1	BPS_OVERLAY_ID	Overlay Check Key.
(9)	BIT(8)	1	*	
	1...		BPS_TRACE_YES_X	Trace this BPS
(A)	CHARACTER	0	ZCQPSOVL	Location of overlays.

The existence bits define which options will be generated
in the resulting terminal.
It also indicates if further information is contained within
the fixed parameter area (BPS_FIXED_VARS).

Table 900.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BPS_EXIST_BITS	BPS Existence Bits
(0)	UNSIGNED	2	ZCQPSXBL	Length of existence bits.
(2)	CHARACTER	*	ZCQPSXBA	Existence bits area.

Table 901.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BPS_FIXED_VARS	BPS Fixed Variables

Offset Hex	Type	Len	Name (dim)	Description
(0)	UNSIGNED	2	ZCQPSFVL	Length of fixed-len parms.
(2)	CHARACTER	*	ZCQPSFVA	Fixed-length parm area.

```
BIND-image. An image of the VTAM BIND
```

Table 902.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BPSBINDI	BPS Bind Image
(0)	UNSIGNED	1	BPSBINDL	Bind Image Length
(1)	CHARACTER	*	BPSBINDS	Bind Image String

Table 903.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BPS_BIND_IMAGE	Usually BASED(ADDR(BPSBINDI))
(0)	UNSIGNED	1	BPS_BIND_LENGTH	Bind Image Length
(1)	CHARACTER	25	BPS_BIND_STRING	Bind Image String
(1A)	BIT(8)	1	BPS_CRYPT	Byte 26 of BIND
	1111		*	Cryptography options
	 1111		*	Contains len(BPS_CRYPT_MODE)
(1B)	CHARACTER	*	BPS_CRYPT_MODE	Cryptography method

```
Optional BIND image fields
```

Table 904.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BPS_PLUNAME	Primary LU Name
(0)	UNSIGNED	1	BPS_PLUN_LENGTH	Primary LU Name length
(1)	CHARACTER	*	BPS_PLUN_STRING	Primary LU Name String

Table 905.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BPS_USERDATA	Userdata
(0)	UNSIGNED	1	BPS_USERD_LENGTH	Userdata Length
(1)	CHARACTER	*	BPS_USERD_STRING	Userdata string

Table 906.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BPS_URCORRELATOR	User related correlation field
(0)	UNSIGNED	1	BPS_URC_LENGTH	UR corr. field length
(1)	CHARACTER	*	BPS_URC_STRING	UR Corr. field string

Table 907.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	BPS_SLU_NAME	Secondary LU Name
(0)	UNSIGNED	1	BPS_SLUN_LENGTH	Secondary LU Name length
(1)	CHARACTER	*	BPS_SLUN_STRING	Secondary LU Name String

USERID as in the VTAM CINIT

Table 908.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	21	BPS_USID	USERID
(0)	UNSIGNED	1	BPS_USID_LENGTH	USERID Length
(1)	CHARACTER	20	BPS_USID_STRING	USERID Max. allowed in CICS

PASSWORD as in the VTAM CINIT

Table 909.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	17	BPS_PWORD	PASSWORD
(0)	UNSIGNED	1	BPS_PWORD_LENGTH	PASSWORD Length
(1)	CHARACTER	16	BPS_PWORD_STRING	PASSWORD max allowed in CICS

```
Overlay for terminals.
Generally, if it ends in _xxx_X (e.g._YES_X) and the bit is
on then the appropriate option will be set in the TCTTE.
If it only ends in _X and the bit is on then additional
information will be contained in the fixed length parameter
area whose value will be set in the TCTTE.
```

Table 910.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	25	ZC_EXIST_BITS	Terminal Existence Bits overlay
	1...		ZC_RESERVED_1_X	Reserved
	.1..		ZC_NETNAME_X	Netname Var exists
	..1.		ZC_CONSLID_X	Console ID var exists
	...1		ZC_RMTNAME_X	Remote Name var exists

Table 910. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		ZC_SYSIDNT_X	Remote system name var exists
	.... .1..		ZC_POOLPTR_X	Pipeline pool pointer exists
	.... ..1.		ZC_PRINTTO_X	Printer var exists
	1		ZC_ALTPRINT_X	Alt printer var exists
(1)	1...		ZC_SPOOLTO_X	DOS Spooler var exists
	.1..		ZC_POOLID_X	POOLID var exists
	..1.		*	Reserved
	...1		ZC_OPERPRI_X	Operator Priority var exists
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		ZC_OPERID_X	Operator ID var exists
	1		ZC_OPCLASS_X	Operator class exists
(2)	1...		ZC_NEPCLASS_X	NEP class var exists
	.1..		ZC_TRANSACTION_X	Tran ID var exists
	..1.		ZC_TRMPRTY_X	Terminal Priority var exists
	...1		*	Reserved
	.... 1...		ZC_LDC_X	LDC var exists
	.... .1..		ZC_LOGMODE_X	LOGMODE var exists
	.... ..1.		ZC_PGESIZE_1_X	Page size var exists
	1		ZC_PGESIZE_2_X	Page size var exists
(3)	1...		ZC_ALTPGE_1_X	Alt Page size var exists
	.1..		ZC_ALTPGE_2_X	Alt Page size var exists
	..1.		ZC_ALTSFX_X	Alt suffix var exists
	...1		ZC_TCTUAL_X	User Area Len var exists
	.... 1...		ZC_CINIT_YES_X	Not used
	.... .1..		ZC_APLKYBD_YES_X	APL Keyboard
	.... ..1.		ZC_APLTEXT_YES_X	APL Text
	1		ZC_AUDALARM_YE_X	Audible alarm
(4)	1...		ZC_COLOR_YES_X	Colour
	.1..		ZC_DCKYBD_YES_X	DC keyboard
	..1.		ZC_EXTDS_YES_X	3270 extended data stream
	...1		ZC_HILIGHT_YES_X	High light
	.... 1...		ZC_KATAKANA_YE_X	Katakana keyboard

Table 910. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... .1..		ZC_MSRCNTRL_YE_X	Magnetic slot reader
	.... ..1.		ZC_OBFMT_YES_X	OB format
	1		ZC_PARTNS_YES_X	Partition support
(5)	1...		ZC_PTRADAPT_YE_X	Print adaptor
	.1..		ZC_PS_YES_X	Prog Symb
	..1.		ZC_SELCTPEN_YE_X	Select Pen
	...1		ZC_VALIDATI_YE_X	Validate
	.... 1...		ZC_HF_YES_X	Horizontal form
	.... .1..		ZC_VF_YES_X	Vertical form
	.... ..1.		ZC_FF_YES_X	Form Feed
	1		ZC_FMHPARM_YES_X	BMS FMH parms
(6)	1...		ZC_AUTOPAGE_YE_X	Autopage
	.1..		ZC_ERRLASTL_YE_X	Error last line
	..1.		ZC_ERRINTEN_YE_X	Error intensify
	...1		ZC_ERRCOLOR_BL_X	Error colour blue
	.... 1...		ZC_ERRCOLOR_RE_X	Error colour red
	.... .1..		ZC_ERRCOLOR_PI_X	Error colour pink
	.... ..1.		ZC_ERRCOLOR_GR_X	Error colour green
	1		ZC_ERRCOLOR_TU_X	Error colour turquoise
(7)	1...		ZC_ERRCOLOR_YE_X	Error colour yellow
	.1..		ZC_ERRCOLOR_NE_X	Error colour neutral
	..1.		ZC_ERRHILIG_BL_X	Error hilight blue
	...1		ZC_ERRHILIG_RE_X	Error hilight red
	.... 1...		ZC_ERRHILIG_UN_X	Error hilight underline
	.... .1..		ZC_ATI_YES_X	ATI allowed
	.... ..1.		ZC_TTI_YES_X	TTI allowed
	1		ZC_INTLOG_YES_X	Create sess
(8)	1...		ZC_OUTSERVI_YE_X	Out of service
	.1..		ZC_INPUT_YES_X	Input only term
	..1.		ZC_RELREQ_YES_X	Relreq
	...1		ZC_DISCONNE_YE_X	Disconnect
	.... 1...		ZC_ROUTE_NOTAL_X	Route DMS SP
	.... .1..		ZC_ROUTE_NEVER_X	Route DMS NO
	.... ..1.		ZC_GMMSG_YES_X	Logon Message
	1		ZC_PRINT_YES_X	Print
(9)	1...		ZC_CHNASSY_YES_X	Chain assembly
	.1..		ZC_UCTRAN_YES_X	Upper case translate
	..1.		ZC_3270E_YES_X	3270 E
	...1		ZC_TEXTKYBD_YE_X	Text keyboard

Table 910. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		ZC_TEXTPRIN_YE_X	Text print
	.... .1..		ZC_CONNAUTO_YE_X	Auto connect
	.... ..1.		ZC_IOAREALEN_X	IO area len
	1		ZC_CHAINMAX_X	Chain max
(A)	1...		ZC_PARS_LU6_X	Parallel sess LU61
	.1..		ZC_PARS_LUC_X	Parellel sess LU62
	..1.		ZC_QUERY_COLD_X	Query cold
	...1		ZC_QUERY_ALL_X	Query all
	.... 1...		ZC_COPY_YES_X	3270 copy
	.... .1..		ZC_ACOPY_YES_X	3270 copy alt
	.... ..1.		ZC_PREBIND_SCR_X	Pre bind
	1		ZC_AUTOPAGE_NO_X	BMS Autopage
(B)	1...		ZC_CGCSGID_1_X	Graphic char set var exists
	.1..		ZC_CGCSGID_2_X	Graphic char set var exists
	..1.		ZC_OBOPERID_YE_X	Outboard op id
	...1		ZC_SHIPPABL_YE_X	Shippable
	.... 1...		ZC_SIGNOFF_YES_X	Signoff at timeout
	.... .1..		ZC_PRINTERTYPE_X	Printer type
	.... ..1.		ZC_SPOOLDEST_X	Dos spool dest
	1		ZC_SIGNOFF_LOG_X	Logoff at timeout
(C)	1...		ZC_XSNAME_X	Security name var exists
	.1..		ZC_USEDFLTU_YE_X	Use default user
	..1.		ZC_NETNAMEQ_X	Netname Q
	...1		ZC_MAXSESS_1_X	Max sessions var exists
	.... 1...		ZC_MAXSESS_2_X	Max sessions var exists
	.... .1..		ZC_SYSTEM_PTR_X	Pointer not name supplied
	.... ..1.		ZC_SOLMESS_YES_X	Solicit messages
	1		*	Reserved
(D)	1...		*	Reserved
	.1..		ZC_CONNAUTO_AL_X	Auto connect all
	..1.		ZC_SESSNAME_X	Session name
	...1		ZC_LUSM_YES_X	LU Serv manager session
	.... 1...		ZC_MODENAME_X	Mode name var exists
	.... .1..		ZC_POOLCNT_X	Pool count var exists
	.... ..1.		ZC_PARS_YES_X	Parellel session

Table 910. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	1		ZC_ATTACHSE_LO_X	Attach security local
(E)	1...		ZC_ATTACHSE_ID_X	Attach security ID
	.1..		ZC_ATTACHSE_VE_X	Attach security verify
	..1.		*	Reserved
	...1		ZC_TRANSIENT_X	Autoinstalled terminal
	.... 1...		ZC_TASKLIMIT_X	Pipe line task limit
	.... .1..		ZC_BACKTRAN_YE_X	Background transparency
	.... ..1.		ZC_SOSI_YES_X	Ebcdic and d.byte char set
	1		ZC_OUTLINE_YES_X	Outline supported
(F)	1...		ZC_RECOVOPT_SY_X	RecovOption = System Default
	.1..		ZC_RECOVOPT_CL_X	RecovOption = Clear Conv.
	..1.		ZC_RECOVOPT_RE_X	RecovOption = Release Session
	...1		ZC_RECOVOPT_RS_X	RecovOption = Restart Session
	.... 1...		ZC_RECOVOPT_NO_X	RecovOption = None
	.... .1..		ZC_RECOVNOT_NO_X	RecovNotify = None
	.... ..1.		ZC_RECOVNOT_ME_X	RecovNotify = Message
	1		ZC_RECOVNOT_TR_X	RecovNotify = Transaction
(10)	1...		ZC_NATLANG_X	National Language exists
	.1..		ZC_RSTSIGNO_FO_X	XRF/PS signoff = force =>1
	..1.		ZC_3270COMP_X	3270 compatibility bits
	...1		ZC_LUTYPE2_X	Indicate DEVICE=LUTYPE2
	.... 1...		ZC_UCTRAN_TRAN_X	UC translate tranid
(10)	BIT(6) POS(6)	2	ZC_RESERVED_311	Reserved
(11)	...1		ZC_PRT_NETNAME_X	MTS printer netname
	.... 1...		ZC_APRT_ NETNAME_X	MTS ALTPRT netname
	.... .1..		ZC_CONSNAME_X	Console name exists
	.... ..1.		ZC_BINDSECU_YE_X	Bind security on
	1		ZC_BINDSECU_NO_X	Bind security off
(12)	1...		ZC_ATTACHSE_PE_X	Attach security Persistent

Table 910. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.1..		ZC_ATTACHSE_MI_X	Attach security Mixed
	..11 1...		ZC_RESERVED_320	Reserved
(12)	BIT(4) POS(6)	2	ZC_RESERVED_330	Reserved
(13)	.1..		ZC_PROTOCOL_EX_X	PROTOCOL=EXCI
	..1.		ZC_SENDCOUNT_X	Session SENDCOUNT supplied
	...1		ZC_RECEIVECOUN_X	Session RECEIVECOUNT
	.... 1...		ZC_CLONE_X	APPC clone session
(13)	BIT(5) POS(6)	2	*	Reserved
(14)	..1.		ZC_USE_ MRO_BITMAP_X	
				Session for MRO BITMAP
	...1		ZC_TITOKEN_YES_X	token present
(14)	BIT(5) POS(5)	2	ZC_RESERVED_DEV	Reserved for rel 510
(15)	.1..		ZC_CATLG_NO_X	Session not catalogued
	..1.		ZC_TOR_NETNAME_X	TOR netname provided
	...1		ZC_VIRTUAL_ TERMINAL_X	
				Virtual Terminal
	.... 1...		ZC_BRACKET_NO_X	Bracket(No)
(15)	BIT(5) POS(6)	2	ZC_RESERVED_510	Reserved for rel 510
(16)	BIT(8) POS(3)	2	ZC_RESERVED_130	Reserved for rel 1.3
(17)	BIT(8) POS(3)	2	ZC_RESERVED_200	Reserved for rel 2.0

```
Fixed Length Variables for Terminals
```

Table 911.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	257	ZC_FIXED_VARS	Terminal Variable fields overlay
(0)	CHARACTER	4	ZC_TERMINAL	Terminal ID
(4)	CHARACTER	8	ZC_NETNAME	Netname
(C)	FULLWORD	4	ZC_CONSLID	Console ID
(10)	CHARACTER	4	ZC_RMTNAME	Remote name
(14)	CHARACTER	4	ZC_SYSIDNT	Connection ID
(18)	CHARACTER	4	ZC_PRINTTO	Printer name
(1C)	CHARACTER	4	ZC_ALTPRINT	Alt printer name
(20)	CHARACTER	4	ZC_SPOOLTO_OLD	Old DOS spooler ID
(24)	CHARACTER	8	ZC_POOLID	Pool ID

Table 911. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	ADDRESS	4	ZC_POOLPTR	Pool Pointer
(2C)	UNSIGNED	1	ZC_OPERPRI	Operator priority
(2D)	BIT(24)	3	*	Reserved
(30)	BIT(64)	8	*	Reserved
(38)	FULLWORD	4	ZC_NEPCLASS	NEP class
(3C)	FULLWORD	4	*	Reserved
(40)	CHARACTER	3	ZC_OPCLASS	Operator class
(43)	CHARACTER	3	ZC_OPERID	Operator ID
(46)	CHARACTER	4	ZC_TRANSACTION	Transaction ID
(4A)	CHARACTER	2	*	Reserved
(4C)	FULLWORD	4	ZC_TRMPRTY	Terminal Priority
(50)	FULLWORD	4	*	Reserved
(54)	CHARACTER	8	ZC_LDC	LDC
(5C)	UNSIGNED	1	ZC_PREBIND_SCR (4294967300:130302560)	Pre Bind
(60)	CHARACTER	8	ZC_LOGMODE	Logmode
(68)	FULLWORD	4	ZC_PGESIZE_1	BMS Page size
(6C)	FULLWORD	4	ZC_PGESIZE_2	BMS Page size
(70)	FULLWORD	4	ZC_ALTPGE_1	BMS Alt page size
(74)	FULLWORD	4	ZC_ALTPGE_2	BMS Alt page size
(78)	CHARACTER	1	ZC_ALTSFX	BMS Alt suffix
(79)	CHARACTER	3	*	Reserved
(7C)	FULLWORD	4	ZC_TCTUAL	User area length
(80)	ADDRESS	4	ZC_MODE_PTR	Mode group pointer
(84)	FULLWORD	4	ZC_IOAREALEN	TIOA length
(88)	FULLWORD	4	ZC_CHAINMAX	Chain max
(8C)	UNSIGNED	2	ZC_CGCSGID_1	Graphic char set
(8E)	UNSIGNED	2	ZC_CGCSGID_2	Graphic char set
(90)	CHARACTER	2	ZC_PRINTERTYPE	Printer type
(92)	CHARACTER	2	*	Reserved
(94)	FULLWORD	4	ZC_TASKLIMIT	Task limit
(98)	CHARACTER	8	ZC_SPOOLDEST	DOS spool dest
(A0)	CHARACTER	1	*	Reserved
(A1)	CHARACTER	8	ZC_NETNAMEQ	Netname queue
(A9)	CHARACTER	3	*	Reserved
(AC)	FULLWORD	4	ZC_MAXSESS_1	Max sessions
(B0)	FULLWORD	4	ZC_MAXSESS_2	Max sessions
(B4)	CHARACTER	8	ZC_XSNAME	Security name
(BC)	FULLWORD	4	ZC_POOLCNT	Pool count
(C0)	FULLWORD	4	ZC_MAXSESSCOUNT	Max session count

Table 911. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(C4)	CHARACTER	8	ZC_TITOKEN	Terminal token
(CC)	CHARACTER	8	ZC_MODENAME	Mode group name
(D4)	CHARACTER	8	ZC_SPOOLTO	DOS SPOOLTO name
(DC)	CHARACTER	1	ZC_NATLANG	National Language
(DD)	CHARACTER	8	ZC_PRT_NETNAME	MTS printer netname
(E5)	CHARACTER	8	ZC_APRT_NETNAME	MTS ALTPRT netname
(ED)	CHARACTER	8	ZC_CONSNAME	Console name
(F5)	CHARACTER	2	ZC_SENDCOUNT	Session SENCOUNT (MRO)
(F7)	CHARACTER	2	ZC_RECEIVECOUN	Session RECEIVECOUNT (MRO)
(F9)	CHARACTER	8	ZC_TOR_NETNAME	TOR Netname

```
Overlay for connection.
Generally, if it ends in _xxx_X (e.g._YES_X) and the bit is
on then the appropriate option will be set in the TCSE.
If it only ends in _X and the bit is on then additional
information will be contained in the fixed length parameter
area whose value will be set in the TCSE.
```

Table 912.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	ZX_EXIST_BITS	Connection Existence bits overlay
	1...		*	Reserved
	.1..		ZX_NETNAME_X	Connection netname var exists
	..1.		ZX_XSNAME_X	Security name var exists
	...1		ZX_USEDFLTU_YE_X	Use default user
	.... 1...		ZX_CONNAUTO_YE_X	Auto connect
	.... .1..		ZX_ATTACHSE_LO_X	Attach security local
	.... ..1.		ZX_ATTACHSE_VE_X	Attach security verify
	1		ZX_DATASTR_USE_X	Data stream user
(1)	1...		ZX_DATASTR_327_X	Data stream 3270
	.1..		ZX_DATASTR_SCS_X	Data stream SCS
	..1.		ZX_DATASTR_STR_X	Data stream STR field
	...1		ZX_DATASTR_LMS_X	Data stream LMS
	.... 1...		ZX_RECFM_U_X	RECFM Undefined
	.... .1..		ZX_RECFM_VB_X	RECFM Variable blocked
	.... ..1.		ZX_CONNAUTO_AL_X	Autoconnect all
	1		ZX_OUTSERVI_YE_X	Out of service

Table 912. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(2)	1...		ZX_TRANSACTION_X	Transaction ID var exists
	.1..		ZX_INTLOG_YES_X	Intlog
	..1.		ZX_ACCMETH_XM_X	Cross Memory access method
	...1		ZX_ATTACHSE_ID_X	Attach security ID
	.... 1...		*	Reserved
	.... .1..		ZX_TRANSIENT_X	Autoinstalled connection
	.... ..1.		ZX_RMTNAME_X	Remote name
	1		ZX_RMTSYSN_X	Remote system
(3)	1...		ZX_BINDSECU_YE_X	Bind security on
	.1..		ZX_BINDSECU_NO_X	Bind security off
	..1.		ZX_ATTACHSE_PE_X	Attach security Persistent
	...1		ZX_ATTACHSE_MI_X	Attach security Mixed
(3)	BIT(8) POS(5)	2	ZX_RESERVED_3XX	Reserved for rel 3.
(4)	.... 1...		ZX_PROTOCOL_EX_X	PROTOCOL=EXCI
	.... .1..		ZX_QUEUELIM_X	Allocate queuelimit
	.... ..1.		ZX_PSRECOVE_SY_X	PSRECOVERY = Sysdefault
	1		ZX_PSRECOVE_NO_X	PSRECOVERY = None
(5)	1...		ZX_SENDCOUNT_X	Session SENDCOUNT supplied
	.1..		ZX_RECEIVECOUN_X	Session RECEIVECOUNT
	..1.		ZX_CLONE_X	APPC clone
	...1		ZX_MAXQTIME_X	Allocate queue time
(5)	BIT(5) POS(5)	2	*	Reserved
(6)	.1..		ZX_RMTSYSNET_X	Netname of TOR
	..1.		ZX_TITOKEN_YES_X	token present
	...1 1111		ZX_RESERVED_410	Reserved for rel 410
(7)	1...		ZX_GR_X	Both sides GR registered
	.1..		ZX_GRNAME_CONN_X	On = GR name connection
				Off = member name conn.
	..1.		ZX_USE_OUR_MEM_X	Partner used our membername
	...1		ZX_NETID_X	Network name present

Table 912. (continued)

Offset Hex	Type	Len	Name (dim)	Description
	.... 1...		ZX_NETNAME2_X	GR or member name present
	.... .1..		ZX_CATLG_NO_X	Connection not catalogued
	.... ..1.		ZX_DELETE_X	AI implicitly deletable
	1		ZX_XLNACTIO_FO_X	XLNaction(force)
(8)	BIT(8)	1	ZX_RESERVED_510	Reserved for rel 510
(9)	BIT(8)	1	ZX_RESERVED_130	Reserved for rel 1.3
(A)	BIT(8)	1	ZX_RESERVED_200	Reserved for rel 2.0
(B)	1...		ZX_RESSIG_X	Resource Signature

```
Fixed Length Variables for Connections
```

Table 913.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	150	ZX_FIXED_VARS	Connection Variable fields overlay
(0)	CHARACTER	4	ZX_CONNECTION	Connection name
(4)	CHARACTER	4	ZX_INDSYS	Indirect system name
(8)	CHARACTER	8	ZX_NETNAME	Netname
(10)	CHARACTER	8	ZX_XSNAME	Security name
(18)	CHARACTER	8	*	Reserved
(20)	CHARACTER	4	ZX_TRANSACTION	Transaction ID
(24)	CHARACTER	4	ZX_RMTNAME	Remote name
(28)	CHARACTER	4	ZX_RMTSYSN	Remote system
(2C)	FULLWORD	4	ZX_QUEUELIM	Allocate queue limit
(30)	CHARACTER	2	ZX_SENDCOUNT	Session SENDCOUNT (MRO)
(32)	CHARACTER	2	ZX_RECEIVECOUN	Session RECEIVECOUNT (MRO)
(34)	HALFWORD	2	ZX_MAXQTIME	Allocate queue time
(36)	CHARACTER	8	ZX_RMTSYSNET	Netname of TOR
(3E)	CHARACTER	8	ZX_TITOKEN	terminal identification
(46)	CHARACTER	8	ZX_NETID	NETID of partner
(4E)	CHARACTER	8	ZX_NETNAME2	Generic Resource or member name
(56)	OBJECT	64	ZX_RESSIG	Resource Signature
(56)	CHARACTER	64	DFHAMSIG_ INSTANCE	Resource Signature
(56)	STRUCTURE IsA(DFHAMSIG_DEFINE_SIGNATURE)	38	DEFINE_ SIGNATURE	Resource Signature

Table 913. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(56)	CHARACTER	8	DEFINE_SOURCE	GROUP resource installed from
(5E)	CHARACTER	8	DEFINE_TIME	Time resource defined
(66)	CHARACTER	8	CHANGE_TIME	Change/create time
(6E)	CHARACTER	8	CHANGE_USERID	Change userid
(76)	UNSIGNED	2	CHANGE_AGENT	Change agent
(78)	CHARACTER	4	AGENT_LEVEL	CICS level of change agent
(7C)	STRUCTURE IsA(DFHAMSIG_INSTALL_SIGNATURE)	18	INSTALL_ SIGNATURE	
				Resource Signature
(7C)	CHARACTER	8	INSTALL_TIME	Install/create time
(84)	CHARACTER	8	INSTALL_ USERID	Install userid
(8C)	UNSIGNED	2	INSTALL_AGENT	Install agent
(8E)	CHARACTER	8	*	Resource Signature

Constants

Table 914.

Len	Type	value	Name	Description
4	DECIMAL	25		
4	DECIMAL	12		
4	DECIMAL	257		
4	DECIMAL	150		
4	DECIMAL	576	BPS_C_MAXSIZE	
4	DECIMAL	200	BPS_X_MAXSIZE	

ZEPD TCP modules address list

```
CONTROL BLOCK NAME = DFHZEPD
DESCRIPTIVE NAME  = CICS TCP Modules Address List.
   @BANNER_START 02
                        DFHZEPD
   Licensed Materials - Property of IBM
   "Restricted Materials of IBM"
   5655-S97
   @BANNER_END
```

Table 915.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	0	DFHZEPD	TCP MODULES ADDR LIST DSECT
(0)	ADDRESS	4	DFHZTDNA	00 TCP dispatcher entry address
(4)	ADDRESS	4	DFHZRWNA	01 APPL R/W request entry

Table 915. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(8)	ADDRESS	4	DFHZTSNA	02 Locate TCP service entry *
STANDARD NAMES FOR MODULES				
(0)	ADDRESS	4	DFHZDSPA	00 Dispatch module address
(4)	ADDRESS	4	DFHZARQA	01 READ/WRITE module address
(8)	ADDRESS	4	DFHZLOCA	02 LOCATE TCP module address
(C)	ADDRESS	4	DFHZDETA	03 DETACH module address
(10)	ADDRESS	4	DFHZBTNA (0)	
(10)	ADDRESS	4	DFHZTCPA	04 Non-VTAM TCP entry point
(14)	ADDRESS	4		05 Reserved
(18)	ADDRESS	4	DFHZCRQA	06 Command requests module address
(1C)	HALFWORD	2		Reserved
(1E)	HALFWORD	2	DFHZLENG	07 Length of ZEPD list
(20)	ADDRESS	4	DFHZSTUA	08 Status change module address
(24)	ADDRESS	4	DFHZTSPA	09 Terminal sharing module address
(28)	ADDRESS	4	DFHZHPXA	0A HPO RPL executor ZHPRX address
(2C)	ADDRESS	4	DFHZISPA	0B ALLOCATE/FREE module address
(30)	ADDRESS	4	DFHZIS1A	0C Common IS/ZCP requests address
(34)	ADDRESS	4	DFHZIS2A	0D IS MM/BSC internal requests
(38)	ADDRESS	4	DFHZABDA	0E Invalid request or abend module address
(3C)	ADDRESS	4		0F Reserved
(40)	ADDRESS	4	DFHZATIA	10 Automatic transaction Initiation module address
(44)	ADDRESS	4	DFHZATTA	11 Attach task module address
(48)	ADDRESS	4	DFHZFREA	12 Free storage module address
(4C)	ADDRESS	4	DFHZGETA	13 Get storage module address

Table 915. (continued)

Offset Hex	Type	Len	Name (dim)	Description
RESERVED EXTRA SPACE FOR NON-VTAM TCT				
(4C)		0	ZEPDLENC	"*-DFHZEPD"
(50)	ADDRESS	4	DFHZRACA	14 Receive any module address
(54)	ADDRESS	4	DFHZRSTA	15 RESETSR module address
(58)	ADDRESS	4	DFHZRVSA	16 Receive specific module address
(5C)	ADDRESS	4	DFHZRVXA	17 Receive specific exit module address
(60)	ADDRESS	4	DFHZSDSA	18 Send normal module address
(64)	ADDRESS	4	DFHZSDXA	19 Send data exit module address
(68)	ADDRESS	4	DFHZUCTA	1A Translation module address
(6C)	ADDRESS	4	DFHZUIXA	1B User exit module address
(70)	ADDRESS	4	DFHZACTA	1C Activate scan module address
(74)	ADDRESS	4	DFHZSDRA	1D Send response module address
(78)	ADDRESS	4	DFHZHPSA	1E HPO send receive module address
(7C)	ADDRESS	4	DFHZRPLA	1F Receive Any Builder
(80)	ADDRESS	4	DFHZAITA	20 Attach initiation module address
(84)	ADDRESS	4	DFHZASXA	21 Asynchronous command exit module address
(88)	ADDRESS	4	DFHZCLSA	22 Close destination module address
(8C)	ADDRESS	4	DFHZCLXA	23 Close destination exit module address
(90)	ADDRESS	4		24 Reserved
(94)	ADDRESS	4	DFHZLEXA	25 LERAD exit module address
(98)	ADDRESS	4	DFHZLGXA	26 LOGON exit module adderss
(9C)	ADDRESS	4	DFHZLRPA	27 Logical record presentation module address
(A0)	ADDRESS	4	DFHZLTXA	28 LOSTERM exit module address
(A4)	ADDRESS	4	DFHZOPNA	29 Open destination module address

Table 915. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(A8)	ADDRESS	4	DFHZOPXA	2A Open destination exit module address
(AC)	ADDRESS	4	DFHZRAQA	2B Read ahead queuing module address
(B0)	ADDRESS	4	DFHZRARA	2C Read ahead retrieval module address
(B4)	ADDRESS	4	DFHZRPXA	2D Response exit module address
(B8)	ADDRESS	4	DFHZRRXA	2E Release request exit module address
(BC)	ADDRESS	4	DFHZNSPA	2F Network services procedure exit address
(C0)	ADDRESS	4	DFHZRSYA	30 RESYNC module address
(C4)	ADDRESS	4	DFHZSAXA	31 Send asynchronous exit address
(C8)	ADDRESS	4	DFHZSCXA	32 SCIP exit module address
(CC)	ADDRESS	4	DFHZSDAA	33 Send asynchronous command module address
(D0)	ADDRESS	4	DFHZSKRA	34 Send command response address
(D4)	ADDRESS	4	DFHZSESA	35 SESSIONC command module address
(D8)	ADDRESS	4	DFHZSEXA	36 SESSIONC exit module address
(DC)	ADDRESS	4	DFHZSIMA	37 SIMLOGON module address
(E0)	ADDRESS	4	DFHZSIXA	38 SIMLOGON exit module address
(E4)	ADDRESS	4	DFHZSLSA	39 SETLOGON start module address
(E8)	ADDRESS	4	DFHZSSXA	3A Send synchronous command exit address
(EC)	ADDRESS	4	DFHZSYXA	3B SYNAD exit module address
(F0)	ADDRESS	4	DFHZTAXA	3C TURNAROUND module address
(F4)	ADDRESS	4	DFHZTPXA	3D TPEND exit module address

Table 915. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(F8)	ADDRESS	4	DFHZOPAA	3E VTAM open ACB module address
(FC)	ADDRESS	4	DFHZSHUA	3F SHUTDOWN/ RESERVED module address
(100)	ADDRESS	4	DFHZQUEA	40 Process queue module address
(104)	ADDRESS	4	DFHZEMWA	41 Error message module address
(108)	ADDRESS	4	DFHZSYNA	42 SYNCHPOINT module address
(10C)	ADDRESS	4	DFHZTRAA	43 ZCP RPL trace module address
(110)	ADDRESS	4	DFHZANDA	44 Abend control block module
(114)	ADDRESS	4	DFHZCNAA	45 Console control module
(118)	ADDRESS	4	DFHZCNRA	46 Console request module
(11C)	ADDRESS	4	DFHZCNCA	47 Console abnormal condition module
(120)	ADDRESS	4	DFHZUAXA	48 Attach user exit
(124)	ADDRESS	4	DFHZUOXA	49 Output user exit
(128)	ADDRESS	4	DFHZARLA	4A LU6.2 APPL request module
(12C)	ADDRESS	4	DFHZARMA	4B LU6.2 migration module
(130)	ADDRESS	4	DFHZRVLA	4C LU6.2 RECV pre-vtam module
(134)	ADDRESS	4	DFHZRLXA	4D LU6.2 RECV exit module
(138)	ADDRESS	4	DFHZSDLA	4E LU6.2 SEND module
(13C)	ADDRESS	4	DFHZSLXA	4F LU6.2 SEND exit module
(140)	ADDRESS	4	DFHZERHA	50 LU6.2 APPL ERP module
(144)	ADDRESS	4	DFHZLUSA	51 LU6.2 LU services module
(148)	ADDRESS	4	DFHZBKTA	52 LU6.2 Bracket state machine
(14C)	ADDRESS	4	DFHZCNTA	53 LU6.2 Contention state
(150)	ADDRESS	4	DFHZCHSA	54 LU6.2 Chain send
(154)	ADDRESS	4	DFHZCHRA	55 LU6.2 Chain receive

Table 915. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(158)	ADDRESS	4	DFHZUSRA	56 LU6.2 Conversation state
(15C)	ADDRESS	4	DFHZDSTA	57 SNA-ASCII Translation module
(160)	ADDRESS	4	DFHZEV1A	58 Encryption validation 1
(164)	ADDRESS	4	DFHZEV2A	59 Encryption validation 2
(168)	ADDRESS	4		5A Reserved
(16C)	ADDRESS	4		5B Reserved
(170)	ADDRESS	4		5C Reserved
(174)	ADDRESS	4		5D Reserved
(178)	ADDRESS	4	DFHZXRCA	5E XRF terminal recovery
(17C)	ADDRESS	4		5F Reserved
(180)	ADDRESS	4	DFHZXRLA	60 LU6.2 Transaction Routing
(184)	ADDRESS	4	DFHZINTA	61 Initialisation Module
(188)	ADDRESS	4		62 Reserved
(18C)	ADDRESS	4	DFHZSTAA	63 LU6.2 Application State
(190)	ADDRESS	4	DFHZRLPA	64 LU6.2 RECV post-vtam module
(194)	ADDRESS	4	DFHZCRTA	65 LU6.2 RPL_B state
(198)	ADDRESS	4	DFHZRASA	66 LU 6.2 flooding module
(19C)	ADDRESS	4	DFHZXPSA	67 PRSS APPC recovery
If you add extra modules at this point dont forget to change DFHSIF1 MODLMAX field. Also add them in pairs because of the double word boundary below.				
(1A0)	DBL WORD	8	(0)	
(1A0)		0	ZEPDLEN	"*-DFHZEPD" Total length
(1A0)		0	ZEPDLENV	"ZEPDLEN-ZEPDLENC" VTAM length

ZGDC Domain subroutine equates *L1A

```
=====================================================================
     CONTROL BLOCK NAME = DFHZGDCC
     DESCRIPTIVE NAME  = CICS ZC domain subroutine constants
      @BANNER_START 02
                        DFHZGDCC
     Licensed Materials - Property of IBM
      "Restricted Materials of IBM"
```

```
     5655-S97
     @BANNER_END
    FUNCTION =
         To contain constants in use by ZG domain subroutines
         such as trace point IDs and recovery routine constants.
    LIFETIME =
    STORAGE CLASS =
    INNER CONTROL BLOCKS =
    NOTES :
     DEPENDENCIES = S/370
     RESTRICTIONS =
     MODULE TYPE = Control block definition
   ----------------------------------------------------------------
    EXTERNAL REFERENCES =
      DATA AREAS =
      CONTROL BLOCKS =
      GLOBAL VARIABLES (Macro pass) =
   ----------------------------------------------------------------
   ================================================================
   ================================================================
    Trace point identifiers
   ================================================================
    DFHZCN1 !
```

Constants

Table 916.

Len	Type	value	Name	Description
2	HEX	3000	TID_ZCN1_ENTRY	@LDA!
2	HEX	3001	TID_ZCN1_EXIT	@LDA!
2	HEX	3002	TID_ZCN1_ INVALID_FUNCTION	
2	HEX	3003	TID_ZCN1_ PROTOCOL_VIOLATION	
2	HEX	3004	TID_ZCN1_ DATA_LENGTH_ERROR	
2	HEX	3005	TID_ZCN1_ ZCN2_INSTALL_ERROR	
2	HEX	3006	TID_ZCN1_ ZCN2_UNINSTALL_ ERROR	
				@LDA!
2	HEX	3007	TID_ZCN1_DISASTER	@LDA!
2	HEX	3008	TID_ZCN1_ INVALID_START_ TYPE	
2	HEX	300A	TID_ZCN1_ INSTALL_CANCELLED	
2	HEX	300B	TID_ZCN1_ INVALID_VERSION	
				@LDA!
2	HEX	300C	TID_ZCN1_ INVALID_PRINC_FAC	
2	HEX	300D	TID_ZCN1_ INVALID_GROUP	

Table 916. (continued)

Len	Type	value	Name	Description
				@LDA!
2	HEX	300E	TID_ZCN1_ INVALID_DATA	
				@LDA!
2	HEX	300F	TID_ZCN1_ NO_CODEPAGE	@LDA!
2	HEX	3040	TID_ZCN1_ NO_CAPABILITIES	
				@LDA!
2	HEX	3041	TID_ZCN1_ CCIN_REMOTE	@LDA!
2	HEX	3042	TID_ZCN1_ COND_ENQ_FAILED	
DFHZCN2 !				
2	HEX	3010	TID_ZCN2_ENTRY	@LDA!
2	HEX	3011	TID_ZCN2_EXIT	@LDA!
2	HEX	3014	TID_ZCN2_ INVALID_FUNCTION	
2	HEX	3016	TID_ZCN2_ RECOVERY_ENTERED	
2	HEX	3017	TID_ZCN2_ ACQ_PROG_FAILED	
				@LDA!
2	HEX	3018	TID_ZCN2_ CDTS_ATTACH_FAILED	
2	HEX	3019	TID_ZCN2_ CDTS_TIMEOUT	
				@LDA!
2	HEX	301A	TID_ZCN2_ INVALID_CAPS	
				@LDA!
2	HEX	301C	TID_ZCN2_ DEL_SURROG_BUSY	
				@LDA!
DFHZCT1 !				
2	HEX	3020	TID_ZCT1_ENTRY	@LDA!
2	HEX	3021	TID_ZCT1_EXIT	@LDA!
2	HEX	3022	TID_ZCT1_ RECEIVE_FAILED	
				@LDA!
2	HEX	3023	TID_ZCT1_ INPUT_DATA	@LDA!
2	HEX	3024	TID_ZCT1_ NOT_CLIENT	@LDA!

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	3025	TID_ZCT1_ CITS_ATTACH_FAILED	
2	HEX	3026	TID_ZCT1_DUP_FOUND	@LDA!
2	HEX	3027	TID_ZCT1_ CITS_TIMEOUT	
				@LDA!
2	HEX	3028	TID_ZCT1_ CDTS_ATTACH_FAILED	
2	HEX	3029	TID_ZCT1_ CDTS_TIMEOUT	
				@LDA!
2	HEX	302A	TID_ZCT1_ INVALID_START_ TYPE	
2	HEX	302B	TID_ZCT1_ INVALID_SYNC_LEVEL	
2	HEX	302C	TID_ZCT1_ LOGIC_ERROR	@LDA!
2	HEX	302D	TID_ZCT1_ DATA_LENGTH_ERROR	
2	HEX	302E	TID_ZCT1_ INS_SURROG_BUSY	
				@LDA!
2	HEX	302F	TID_ZCT1_ DEL_SURROG_BUSY	
				@LDA!
2	HEX	3030	TID_ZCT1_ CITS_ABEND	@LDA!
2	HEX	3031	TID_ZCT1_ GET_BPS_FAILED	
				@LDA!
2	HEX	3032	TID_ZCT1_ INVALID_PRINC_FAC	
2	HEX	3033	TID_ZCT1_ INVALID_DATA	
				@LDA!
2	HEX	3034	TID_ZCT1_ INVALID_FUNCTION	
2	HEX	3035	TID_ZCT1_ INVALID_CODEPAGE	
2	HEX	3036	TID_ZCT1_ WRONG_VERSION	
				@LDA!
2	HEX	3037	TID_ZCT1_ NETNAME_MISSING	
				@LDA!

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	3038	TID_ZCT1_ CODEPAGE_CONVERSION_ F	
				@LDA!
2	HEX	3039	TID_ZCT1_ CTIN_REMOTE	@LDA!
DFHCCNV3 !				
2	HEX	3050	TID_CCNV3_ CHK_CL_CP_ENTRY	
2	HEX	3051	TID_CCNV3_ CHK_CL_CP_EXIT	
				@LEA!
2	HEX	3052	TID_CCNV3_ CHK_CONV_SUP_ENTRY	
2	HEX	3053	TID_CCNV3_ CHK_CONV_SUP_EXIT	
2	HEX	3054	TID_CCNV3_ENTRY	@LEA!
2	HEX	3055	TID_CCNV3_EXIT	@LEA!
2	HEX	3056	TID_CCNV3_ INV_FUNCTION	
				@LEA!
2	HEX	3057	TID_CCNV3_ 3270_ENTRY	@LIC!
2	HEX	3058	TID_CCNV3_ DS3270_ENTRY	
				@LIC!
2	HEX	3059	TID_CCNV3_ DS3270_EXIT	
				@LIC!
2	HEX	305A	TID_CCNV3_ 3270_EXIT	@LIC!
2	HEX	305B	TID_CCNV3_ 3270_LEN_ZERO	
				@LIC!
2	HEX	305C	TID_CCNV3_ BAD_TARGET	@LIC!
2	HEX	305D	TID_CCNV3_ TOKEN_CKR_BAD	
				@LIC!
2	HEX	305E	TID_CCNV3_ TOKEN_CLX_BAD	
				@LIC!
2	HEX	305F	TID_CCNV3_ TOKEN_SRX_BAD	
				@LIC!

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	3060	TID_CCNV3_ SBCSTOK_CHAR_BAD	
2	HEX	3061	TID_CCNV3_ 3270_SBA_BAD	
				@LIC!
2	HEX	3062	TID_CCNV3_ 3270_SF_BAD	
				@LIC!
2	HEX	3063	TID_CCNV3_ 3270_SFEMF_BAD	
				@LIC!
2	HEX	3064	TID_CCNV3_ 3270_SA_BAD	
				@LIC!
2	HEX	3065	TID_CCNV3_ 3270_RA_BAD	
				@LIC!
2	HEX	3066	TID_CCNV3_ 3270_GE_UNSUP	
				@LIC!
2	HEX	3067	TID_CCNV3_ 3270_EUA_BAD	
				@LIC!
2	HEX	3068	TID_CCNV3_ AID3270_ENTRY	
				@LIC!
2	HEX	3069	TID_CCNV3_ AID3270_EXIT	
				@LEA!
2	HEX	306A	TID_CCNV3_ BAD_AID_TARGET	
				@LEA!
2	HEX	306B	TID_CCNV3_ FREE_CONV_TOKEN_ ENTRY	
				@LIA!
2	HEX	306C	TID_CCNV3_ FREE_CONV_TOKEN_ EXIT	
				@LIA!
2	HEX	306D	TID_CCNV3_ GETMAIN_FAILURE	
2	HEX	306E	TID_CCNV3_ FREEMAIN_FAILURE	

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	306F	TID_CCNV3_ SBA_TOO_HIGH	
				@LIA!
2	HEX	3070	TID_CCNV3_ DBCS_MAP_BEFORE	
2	HEX	3071	TID_CCNV3_ DBCS_MAP_AFTER	
				@LIA!
2	HEX	3072	TID_CCNV3_ GET_CONV_TOKEN_ ENTRY	
				@LIA!
2	HEX	3073	TID_CCNV3_ GET_CONV_TOKEN_ EXIT	
				@LIA!
2	HEX	3074	TID_CCNV3_ TOKEN_ADDR_BAD	
				@LIA!
2	HEX	3075	TID_CCNV3_ 3270_CONV_LEN_ ZERO	
DFHZGAI !				
2	HEX	FA00	TID_ZGAI_ENTRY	@D1A!
2	HEX	FA01	TID_ZGAI_EXIT	@D1A!
2	HEX	FA02	TID_ZGAI_ INVALID_FORMAT	
				@D1A!
2	HEX	FA03	TID_ZGAI_ INVALID_FUNCTION	
2	HEX	FA04	TID_ZGAI_ RECOVERY_ENTERED	
2	HEX	FA05	TID_ZGAI_ USEREXIT_ENTRY	
				@D1A!
2	HEX	FA06	TID_ZGAI_ USEREXIT_EXIT	
				@D1A!
2	HEX	FA07	TID_ZGAI_ USER_VETOED	@D1A!
2	HEX	FA08	TID_ZGAI_ NO_TEMPLATE_SUPPLIED	
				@D1A!
2	HEX	FA09	TID_ZGAI_ SYSID_INVALID	

Table 916. (continued)

Len	Type	value	Name	Description
				@D1A!
2	HEX	FA0A	TID_ZGAI_ SYSID_ALREADY_ EXISTS	
				@D1A!
2	HEX	FA0B	TID_ZGAI_ TEMPLATEN_NOT_ FOUND	
2	HEX	FA0C	TID_ZGAI_ TEMPLATES_NOT_ FOUND	
2	HEX	FA0D	TID_ZGAI_ NOT_APPC_TEMPLATE	
2	HEX	FA0E	TID_ZGAI_ TEMPLATE_NOT_PS	
				@D1A!
2	HEX	FA0F	TID_ZGAI_ TEMPLATE_NOT_SS	
				@D1A!
2	HEX	FA10	TID_ZGAI_ MODENAME_MISMATCH	
2	HEX	FA11	TID_ZGAI_ SYSID_INQUIRE_ FAILED	
				@D1A!
2	HEX	FA12	TID_ZGAI_ SESSION_INQUIRE_ FAILED	
				@D1A!
2	HEX	FA13	TID_ZGAI_ TEMPLATE_NO_MODEGROUP	
				@D1A!
2	HEX	FA14	TID_ZGAI_ OUT_OF_SERVICE	
				@D1A!
2	HEX	FA15	TID_ZGAI_ BINDUD_PLUNAME_ MISSING	
				@D1A!
2	HEX	FA16	TID_ZGAI_ BINDUD_MODENAME_ MISSING	
				@D1A!
2	HEX	FA18	TID_ZGAI_ SESSID_MISSING	
				@D1A!

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FA19	TID_ZGAI_ PLUNAME_MISSING	
				@D1A!
2	HEX	FA1A	TID_ZGAI_ PLU_EQ_SLU	@D1A!
2	HEX	FA1B	TID_ZGAI_ SEED_EXPECTED	
				@D1A!
2	HEX	FA1C	TID_ZGAI_SEED_LON	@D1A!
2	HEX	FA1D	TID_ZGAI_ SEED_UNEXPECTED	
				@D1A!
2	HEX	FA1E	TID_ZGAI_ NOT_NEGOTIABLE	
				@D1A!
2	HEX	FA1F	TID_ZGAI_1RY_RU_0	@D1A!
2	HEX	FA20	TID_ZGAI_2RY_RU_0	@D1A!
2	HEX	FA21	TID_ZGAI_ ACC_SEC_INVALID	
				@D1A!
2	HEX	FA22	TID_ZGAI_ SEED_AND_NONCE	
				@L6A!
2	HEX	FA23	TID_ZGAI_ NONCE_LENGTH	
				@L6A!
2	HEX	FA24	TID_ZGAI_ NONCE_REQUIRED	
				@L6A!
2	HEX	FA25	TID_ZGAI_ MECHANISM_SHORT	
				@L6A!
2	HEX	FA26	TID_ZGAI_ NO_MECHANISMS	
				@L6A!
2	HEX	FA27	TID_ZGAI_ MECHANISM_REQUIRED	
DFHZGXA !				
2	HEX	FA30	TID_ZGXA_ENTRY	@L5A!
2	HEX	FA31	TID_ZGXA_EXIT	@L5A!
2	HEX	FA32	TID_ZGXA_ INVALID_FORMAT	
				@L5A!

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FA33	TID_ZGXA_ INVALID_FUNCTION	
2	HEX	FA34	TID_ZGXA_ RECOVERY_ENTERED	
2	HEX	FA35	TID_ZGXA_ 12F6_MISSING	
				@L5A!
2	HEX	FA36	TID_ZGXA_ 12F6_LENGERR	
				@L5A!
2	HEX	FA37	TID_ZGXA_ RECEIVE_FAILED	
				@L5A!
2	HEX	FA38	TID_ZGXA_ FF80_MISSING	
				@L5A!
2	HEX	FA39	TID_ZGXA_ FF80_LENGERR	
				@L5A!
2	HEX	FA3A	TID_ZGXA_ FF80_MECH_ID_ERR	
2	HEX	FA3B	TID_ZGXA_ FF81_MISSING	
				@L5A!
2	HEX	FA3C	TID_ZGXA_ FF81_LENGERR	
				@L5A!
2	HEX	FA3D	TID_ZGXA_ DELEG_NO_TICKET	
				@L5A!
2	HEX	FA3E	TID_ZGXA_ FF82_LENGERR	
				@L5A!
2	HEX	FA3F	TID_ZGXA_ FF83_LENGERR	
				@L5A!
2	HEX	FA40	TID_ZGXA_ FF84_LENGERR	
				@L5A!
2	HEX	FA41	TID_ZGXA_ DUPLICATE_SUBFIELD	
2	HEX	FA42	TID_ZGXA_ INVALID_SUBFIELD	
2	HEX	FA43	TID_ZGXA_ TICKET_NO_AUTH	

Table 916. (continued)

Len	Type	value	Name	Description
				@L5A!
2	HEX	FA44	TID_ZGXA_ AUTH_REQD_BY_USER	
2	HEX	FA45	TID_ZGXA_ TICKET_MISSING	
				@L5A!
2	HEX	FA46	TID_ZGXA_ INVALID_TICKET	
				@L5A!
2	HEX	FA47	TID_ZGXA_ SERVICE_TICKET_ EXPIRED	
				@L5A!
2	HEX	FA48	TID_ZGXA_ INVALID_AUTHENTICATOR	
				@L5A!
2	HEX	FA49	TID_ZGXA_ SIGNON_FAILED	
				@L5A!
2	HEX	FA4A	TID_ZGXA_ FMH5_12F6_OUT	
				@L5A!
2	HEX	FA4B	TID_ZGXA_12F6_IN	@L5A!
2	HEX	FA4C	TID_ZGXA_ SENDBUF_TOO_SMALL	
2	HEX	FA4D	TID_ZGXA_ SEND_FAILED	@L5A!
2	HEX	FA4E	TID_ZGXA_ MUTUAL_NO_AUTH	
				@L5A!
2	HEX	FA4F	TID_ZGXA_ DAISY_CHAIN_ERROR1	
DFHZGCH !				
2	HEX	FA50	TID_ZGCH_ENTRY	@LBA!
2	HEX	FA51	TID_ZGCH_EXIT	@LBA!
2	HEX	FA52	TID_ZGCH_ BEFORE_CHANGE_ MACRO	
2	HEX	FA53	TID_ZGCH_ AFTER_CHANGE_MACRO	
2	HEX	FA54	TID_ZGCH_ CHANGE_MACRO_FAILED	
2	HEX	FA55	TID_ZGCH_ RECOVERY_ENTERED	

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FA56	TID_ZGCH_ ENDAFFIN_REJECTED	
2	HEX	FA57	TID_ZGCH_ INVALID_FORMAT	
				@LBA!
2	HEX	FA58	TID_ZGCH_ INVALID_FUNCTION	
2	HEX	FA59	TID_ZGCH_ ZGTA_FAILED	@LCA!
DFHZGTI !				
2	HEX	FA60	TID_ZGTI_ENTRY	@L7A!
2	HEX	FA61	TID_ZGTI_EXIT	@L7A!
2	HEX	FA62	TID_ZGTI_ INVALID_FORMAT	
				@L7A!
2	HEX	FA63	TID_ZGTI_ INVALID_FUNCTION	
2	HEX	FA64	TID_ZGTI_ RECOVERY_ENTERED	
2	HEX	FA65	TID_ZGTI_ TERMID_INVALID	
				@L7A!
2	HEX	FA66	TID_ZGTI_ SYSID_INVALID	
				@L7A!
2	HEX	FA67	TID_ZGTI_ NETNAME_INVALID	
				@L7A!
2	HEX	FA68	TID_ZGTI_ TOKEN_INVALID	
				@L7A!
2	HEX	FA69	TID_ZGTI_TMP_ERROR	@L7A!
2	HEX	FA6A	TID_ZGTI_ DOMAIN_INVALID	
				@L7A!
2	HEX	FA6B	TID_ZGTI_ INVALID_VTAM_ONLY	
2	HEX	FA6C	TID_ZGTI_ UNIQUE_INVALID	
				@L7A!
2	HEX	FA6D	TID_ZGTI_ GETMAIN_FAILED	
				@L7A!
2	HEX	FA6E	TID_ZGTI_ FREEMAIN_FAILED	

Table 916. (continued)

Len	Type	value	Name	Description
				@L7A!
2	HEX	FA6F	TID_ZGTI_PURGED	@L7A!
2	HEX	FA70	TID_ZGTI_ ISYSID_INVALID	
				@L7A!
2	HEX	FA71	TID_ZGTI_ RSYSID_INVALID	
				@L7A!
2	HEX	FA72	TID_ZGTI_ MBRNAME_INVALID	
				@LCA!
DFHZGTA !				
2	HEX	FA80	TID_ZGTA_ENTRY	@L9A!
2	HEX	FA81	TID_ZGTA_EXIT	@L9A!
2	HEX	FA82	TID_ZGTA_ INVALID_FORMAT	
				@L9A!
2	HEX	FA83	TID_ZGTA_ INVALID_FUNCTION	
2	HEX	FA84	TID_ZGTA_ RECOVERY_ENTERED	
2	HEX	FA85	TID_ZGTA_ TERMID_INVALID	
				@L9A!
2	HEX	FA86	TID_ZGTA_ SYSID_INVALID	
				@L9A!
2	HEX	FA87	TID_ZGTA_ NETNAME_INVALID	
				@L9A!
2	HEX	FA88	TID_ZGTA_ ISYSID_INVALID	
				@L9A!
2	HEX	FA89	TID_ZGTA_ UNIQUE_INVALID	
				@L9A!
2	HEX	FA8A	TID_ZGTA_ RSYSID_INVALID	
				@L9A!
2	HEX	FA8B	TID_ZGTA_TMP_ERROR	@L9A!
2	HEX	FA8C	TID_ZGTA_ DOMAIN_INVALID	
				@L9A!
2	HEX	FA8D	TID_ZGTA_PURGED	@L9A!

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FA8E	TID_ZGTA_ERROR	@L9A!
2	HEX	FA8F	TID_ZGTA_DISASTER	@L9A!
2	HEX	FA90	TID_ZGTA_ INVALID_RRAB	
				@L9A!
2	HEX	FA91	TID_ZGTA_ INQ_FAILED	@L9A!
2	HEX	FA92	TID_ZGTA_RDUB_GET	@L9A!
2	HEX	FA93	TID_ZGTA_RDUB_FREE	@L9A!
2	HEX	FA94	TID_ZGTA_ INVALID_RDAB	
				@L9A!
2	HEX	FA95	TID_ZGTA_ INVALID_RDUB	
				@L9A!
2	HEX	FA96	TID_ZGTA_ UNKNOWN_RRAB_RESP	
2	HEX	FA97	TID_ZGTA_NO_RRAB	@L9A!
2	HEX	FA98	TID_ZGTA_ ZGTI_ERROR	@L9A!
2	HEX	FA99	TID_ZGTA_ MBRNAME_INVALID	
				@LCA!
2	HEX	FA9A	TID_ZGTA_ MBRNAME_ERROR	
				@LCA!
DFHZGIN !				
2	HEX	FAB0	TID_ZGIN_ENTRY	@D4A!
2	HEX	FAB1	TID_ZGIN_EXIT	@D4A!
2	HEX	FAB2	TID_ZGIN_ BEFORE_INQUIRE_ MACRO	
				@D4A!
2	HEX	FAB3	TID_ZGIN_ AFTER_INQUIRE_ MACRO	
2	HEX	FAB4	TID_ZGIN_ INQUIRE_NQN_FAILED	
2	HEX	FAB5	TID_ZGIN_ INQUIRE_SESSNAME_ FAILED	
				@D4A!
2	HEX	FAB6	TID_ZGIN_ RECOVERY_ENTERED	

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FAB7	TID_ZGIN_ NQN_REJECTED	
				@D4A!
2	HEX	FAB8	TID_ZGIN_ SESSNAME_REJECTED	
2	HEX	FAB9	TID_ZGIN_ INVALID_FORMAT	
				@D4A!
2	HEX	FABA	TID_ZGIN_ INVALID_FUNCTION	
DFHZGBM !				
2	HEX	FB00	TID_ZGBM_ENTRY	
2	HEX	FB01	TID_ZGBM_EXIT	
2	HEX	FB03	TID_ZGBM_ INVALID_FUNCTION	
2	HEX	FB04	TID_ZGBM_ RECOVERY_ENTERED	
2	HEX	FB05	TID_ZGBM_ BITMAP_INVALID	
2	HEX	FB06	TID_ZGBM_ SESSION_NAME_INVALID	
DFHTCRP ! !				
2	HEX	FB07	TID_TCRP_ NO_BITMAP_STG	
				@LFC!
2	HEX	FB08	TID_TCRP_ENTRY	@PCA!
2	HEX	FB09	TID_TCRP_EXIT	@PCA!
2	HEX	FB0A	TID_TCRP_ RECOVERY_ENTERED	
DFHZGRP !				
2	HEX	FB10	TID_ZGRP_ENTRY	
2	HEX	FB11	TID_ZGRP_EXIT	
2	HEX	FB12	TID_ZGRP_ QR_SWITCH_FAILED	
2	HEX	FB13	TID_ZGRP_ INQ_INSUFF_STORAGE	
2	HEX	FB14	TID_ZGRP_ RECOVERY_ENTERED	
2	HEX	FB15	TID_ZGRP_ OPNDST_INSUFF_ STORAGE	
2	HEX	FB16	TID_ZGRP_ RPL_INSUFF_STORAGE	
2	HEX	FB17	TID_ZGRP_ INVALID_FORMAT	

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FB18	TID_ZGRP_ INVALID_FUNCTION	
2	HEX	FB19	TID_ZGRP_ INVALID_STARTUP_ TYPE	
2	HEX	FB1A	TID_ZGRP_VTAM_SOS	
2	HEX	FB1B	TID_ZGRP_ INQUIRE_FAILED	
2	HEX	FB1C	TID_ZGRP_ INQUIRE_ACB_CLOSED	
2	HEX	FB1D	TID_ZGRP_ OPNDST_ACB_CLOSED	
2	HEX	FB1E	TID_ZGRP_ UNBIND_ERROR	
2	HEX	FB1F	TID_ZGRP_ BIND_INVALID	
2	HEX	FB20	TID_ZGRP_ OPNDST_FAILED	
2	HEX	FB21	TID_ZGRP_ NO_STORAGE_OPNDST_ APPC	
2	HEX	FB22	TID_ZGRP_ NO_STORAGE_OPNDST	
2	HEX	FB23	TID_ZGRP_RA_FAILED	
2	HEX	FB24	TID_ZGRP_NIB	@P5A!
2	HEX	FB25	TID_ZGRP_ NIB_MISMATCH	
2	HEX	FB26	TID_ZGRP_ RA_GETMAIN_FAILED	
2	HEX	FB27	TID_ZGRP_ BEFORE_INQUIRE_ COUNTS	
2	HEX	FB28	TID_ZGRP_ AFTER_INQUIRE_ COUNTS	
2	HEX	FB29	TID_ZGRP_ BEFORE_INQUIRE_ PERSESS	
2	HEX	FB2A	TID_ZGRP_ AFTER_INQUIRE_ PERSESS	
2	HEX	FB2B	TID_ZGRP_ BEFORE_OPNDST	
2	HEX	FB2C	TID_ZGRP_ AFTER_OPNDST	
2	HEX	FB2D	TID_ZGRP_BEFORE_RA	
2	HEX	FB2E	TID_ZGRP_AFTER_RA	

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FB2F	TID_ZGRP_ BEFORE_INQ_EXECRPL	
2	HEX	FB30	TID_ZGRP_ AFTER_INQ_EXECRPL	
2	HEX	FB31	TID_ZGRP_ BEFORE_OPN_EXECRPL	
2	HEX	FB32	TID_ZGRP_ AFTER_OPN_EXECRPL	
2	HEX	FB33	TID_ZGRP_ BEFORE_RA_EXECRPL	
2	HEX	FB34	TID_ZGRP_ AFTER_RA_EXECRPL	
2	HEX	FB35	TID_ZGRP_ MBRNAME_ERROR	
DFHZCGRP !				
2	HEX	FB38	TID_ZCGRP_ENTRY	
2	HEX	FB39	TID_ZCGRP_EXIT	
DFHZRTP !				
2	HEX	FB3A	TID_ZRTP_ENTRY	@D5A!
2	HEX	FB3B	TID_ZRTP_EXIT	@D5A!
2	HEX	FB3C	TID_ZRTP_ CATALOG_ERROR	
				@D5A!
2	HEX	FB3D	TID_ZRTP_ INVALID_START_ TYPE	
DFHZGUB !				
2	HEX	FB40	TID_ZGUB_ENTRY	
2	HEX	FB41	TID_ZGUB_EXIT	
2	HEX	FB42	TID_ZGUB_ INVALID_FORMAT	
2	HEX	FB43	TID_ZGUB_ RECOVERY_ENTERED	
2	HEX	FB44	TID_ZGUB_ INVALID_FUNCTION	
2	HEX	FB45	TID_ZGUB_ ACB_CLOSED	
2	HEX	FB46	TID_ZGUB_ UNBIND_FAILED	
2	HEX	FB47	TID_ZGUB_VTAM_SOS	
2	HEX	FB48	TID_ZGUB_ UNBIND_ERROR	
2	HEX	FB49	TID_ZGUB_ BEFORE_CLSDST	

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FB4A	TID_ZGUB_ AFTER_CLSDST	
2	HEX	FB4B	TID_ZGUB_ BEFORE_TERMSESS	
2	HEX	FB4C	TID_ZGUB_ AFTER_TERMSESS	
2	HEX	FB4D	TID_ZGUB_ BEFORE_UNBIND_ EXECRPL	
2	HEX	FB4E	TID_ZGUB_ AFTER_UNBIND_EXECRPL	
DFHZGSL !				
2	HEX	FB50	TID_ZGSL_ENTRY	
2	HEX	FB51	TID_ZGSL_EXIT	
2	HEX	FB52	TID_ZGSL_ BEFORE_SETLOGON_P	
2	HEX	FB53	TID_ZGSL_ AFTER_SETLOGON_P	
2	HEX	FB54	TID_ZGSL_ BEFORE_SETLOGON_ NP	
2	HEX	FB55	TID_ZGSL_ AFTER_SETLOGON_NP	
2	HEX	FB57	TID_ZGSL_ RECOVERY_ENTERED	
2	HEX	FB58	TID_ZGSL_ INVALID_FUNCTION	
2	HEX	FB59	TID_ZGSL_ INVALID_FORMAT	
2	HEX	FB5A	TID_ZGSL_ INVALID_PSDI_VALUE	
2	HEX	FB5B	TID_ZGSL_ SETLOGON_FAILED	
DFHZGCC !				
2	HEX	FB60	TID_ZGCC_ENTRY	@L1A!
2	HEX	FB61	TID_ZGCC_EXIT	@L1A!
2	HEX	FB62	TID_ZGCC_ INVALID_FORMAT	
				@L1A!
2	HEX	FB63	TID_ZGCC_ INVALID_FUNCTION	
2	HEX	FB64	TID_ZGCC_ RECOVERY_ENTERED	
DFHZGPC !				
2	HEX	FB65	TID_ZGPC_ENTRY	@L1A!
2	HEX	FB66	TID_ZGPC_EXIT	@L1A!

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FB67	TID_ZGPC_ INVALID_FORMAT	
				@L1A!
2	HEX	FB68	TID_ZGPC_ INVALID_FUNCTION	
2	HEX	FB69	TID_ZGPC_ RECOVERY_ENTERED	
2	HEX	FB6A	TID_ZGPC_ BIND_MISMATCH	
				@L1A!
2	HEX	FB6B	TID_ZGPC_ NO_SESSION_AVAILABLE	
				@L1A!
DFHZXRC !				
2	HEX	FB70	TID_ZXRC_V29_DATA	@L3A!
DFHZGDA !				
2	HEX	FB71	TID_ZGDA_ENTRY	@L3A!
2	HEX	FB72	TID_ZGDA_EXIT	@L3A!
2	HEX	FB73	TID_ZGDA_ INVALID_FUNCTION	
2	HEX	FB74	TID_ZGDA_ INVALID_FORMAT	
				@L3A!
2	HEX	FB75	TID_ZGDA_ SENSE_088B_RECEIVED	
2	HEX	FB76	TID_ZGDA_ INVALID_PRSS_STATUS	
2	HEX	FB77	TID_ZGDA_ RECEIVE_FAILED	
				@L3A!
2	HEX	FB78	TID_ZGDA_ UNEXPECTED_RESPONSE	
2	HEX	FB79	TID_ZGDA_ BAD_BRACKET_STATE_ SEND	
				@L3A!
2	HEX	FB7A	TID_ZGDA_ BAD_BRACKET_STATE_ REC	
				@L3A!
2	HEX	FB7B	TID_ZGDA_ NO_STORAGE_FMH7	
				@L3A!
2	HEX	FB7C	TID_ZGDA_RECOVERY	@L3A!

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FB7D	TID_ZGDA_ UNEXPECTED_BR_ STATE	
2	HEX	FB7E	TID_ZGDA_ INVALID_TCTTE_PTR	
2	HEX	FB7F	TID_ZGDA_ RECOVERY_ENTERED	
2	HEX	FB80	TID_ZGDA_ UNEXPECTED_CH_ STATE	
DFHZPCT !				
2	HEX	FB81	TID_ZPCT_ENTRY	@D5A!
2	HEX	FB82	TID_ZPCT_EXIT	@D5A!
2	HEX	FB83	TID_ZPCT_ INVALID_START_ TYPE	
2	HEX	FB84	TID_ZPCT_ CATALOG_ERROR	
				@D5A!
DFHZGSL Generic resource !				
2	HEX	FB87	TID_ZGSL_ BEFORE_NIB_INIT	
				@D2A!
2	HEX	FB88	TID_ZGSL_ AFTER_NIB_INIT	
				@D2A!
2	HEX	FB89	TID_ZGSL_ BEFORE_ADD_GRNAME	
2	HEX	FB8A	TID_ZGSL_ AFTER_ADD_GRNAME	
2	HEX	FB8B	TID_ZGSL_ BEFORE_DELETE_ GRNAME	
				@D2A!
2	HEX	FB8C	TID_ZGSL_ AFTER_DELETE_GRNAME	
2	HEX	FB8D	TID_ZGSL_ NIB_INIT_FAILED	
				@D2A!
2	HEX	FB8E	TID_ZGSL_ ADD_GRNAME_FAILED	
2	HEX	FB8F	TID_ZGSL_ DELETE_GRNAME_ FAILED	
				@D2A!
DFHZLS1 !				

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FB90	TID_ZLS1_ENTRY	@L2A!
2	HEX	FB91	TID_ZLS1_EXIT	@L2A!
2	HEX	FB92	TID_ZLS1_ INVALID_START_ TYPE	
2	HEX	FB93	TID_ZLS1_ IC_GET_FAILED	
				@L2A!
2	HEX	FB94	TID_ZLS1_ INVALID_FORMAT	
				@L2A!
2	HEX	FB95	TID_ZLS1_ INVALID_FUNCTION	
2	HEX	FB96	TID_ZLS1_ NO_RECV_DATA	
				@L2A!
2	HEX	FB97	TID_ZLS1_ INVALID_RECV_DATA	
2	HEX	FB9E	TID_ZLS1_ SHUTDOWN_AND_ACB_ CLOSED	
				@PEA!
DFHZSGN !				
2	HEX	FB98	TID_ZSGN_ENTRY	@D5A!
2	HEX	FB99	TID_ZSGN_EXIT	@D5A!
2	HEX	FB9A	TID_ZSGN_ INVALID_START_ TYPE	
2	HEX	FB9B	TID_ZSGN_ SIGNON_FAILED	
				@D5A!
2	HEX	FB9C	TID_ZSGN_ CATALOG_ERROR	
				@D5A!
2	HEX	FB9D	TID_ZSGN_ SIGNOFF_FAILED	
				@PDA!
DFHZGCN !				
2	HEX	FBA0	TID_ZGCN_ENTRY	@L2A!
2	HEX	FBA1	TID_ZGCN_EXIT	@L2A!
2	HEX	FBA2	TID_ZGCN_ ADD_LOCK_FAILED	
				@L2A!
2	HEX	FBA3	TID_ZGCN_ ALLOCATE_FAILED	

Table 916. (continued)

Len	Type	value	Name	Description
				@L2A!
2	HEX	FBA4	TID_ZGCN_ ALREADY_SHUT	
				@L2A!
2	HEX	FBA5	TID_ZGCN_ CNOS_IMPOSSIBLE	
				@L2A!
2	HEX	FBA6	TID_ZGCN_ GET_LOCK_FAILED	
				@L2A!
2	HEX	FBA7	TID_ZGCN_ IN_SHUTDOWN	@L2A!
2	HEX	FBA8	TID_ZGCN_ INVALID_FORMAT	
				@L2A!
2	HEX	FBA9	TID_ZGCN_ INVALID_FUNCTION	
2	HEX	FBAA	TID_ZGCN_ INVALID_MODENAME	
2	HEX	FBAB	TID_ZGCN_ INVALID_SYSID	
				@L2A!
2	HEX	FBAC	TID_ZGCN_ NO_TCME_FOUND	
				@L2A!
2	HEX	FBAD	TID_ZGCN_ NO_TCTE_FOUND	
				@L2A!
2	HEX	FBAE	TID_ZGCN_ RACE_IN_SHUTDOWN	
2	HEX	FBAF	TID_ZGCN_ RECEIVE_FAILED	
				@L2A!
2	HEX	FBB0	TID_ZGCN_ RECOVERY_ENTERED	
2	HEX	FBB1	TID_ZGCN_ SEND_FAILED	@L2A!
2	HEX	FBB2	TID_ZGCN_ SINGLE_SESS_ERROR	
2	HEX	FBB3	TID_ZGCN_ SYSID_NOT_FOUND	
				@L2A!
2	HEX	FBB4	TID_ZGCN_ TCSE_ERROR	@L2A!

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FBB5	TID_ZGCN_ CNOS_COMMAND_OUT	
2	HEX	FBB6	TID_ZGCN_ CNOS_COMMAND_IN	
				@L2A!
2	HEX	FBB7	TID_ZGCN_ CNOS_REPLY_OUT	
				@L2A!
2	HEX	FBB8	TID_ZGCN_ CNOS_REPLY_IN	
				@L2A!
2	HEX	FBB9	TID_ZGCN_ MODEGROUP_CHANGED	
DFHZGCA !				
2	HEX	FBC0	TID_ZGCA_ENTRY	@L2A!
2	HEX	FBC1	TID_ZGCA_EXIT	@L2A!
2	HEX	FBC2	TID_ZGCA_ ENTRY_LEVEL2	
				@L2A!
2	HEX	FBC3	TID_ZGCA_ EXIT_LEVEL2	@L2A!
2	HEX	FBC4	TID_ZGCA_ CURRENT_COUNTS	
				@L2A!
2	HEX	FBC5	TID_ZGCA_TC_MATRIX	@L2A!
2	HEX	FBC6	TID_ZGCA_ RECOVERY_ENTERED	
2	HEX	FBC7	TID_ZGCA_ INVALID_FORMAT	
				@L2A!
2	HEX	FBC8	TID_ZGCA_ INVALID_FUNCTION	
2	HEX	FBC9	TID_ZGCA_ CHANGE_INCOMPLETE	
DFHZXPS !				
2	HEX	FBD0	TID_ZXPS_ENTRY	@L3A!
2	HEX	FBD1	TID_ZXPS_EXIT	@L3A!
2	HEX	FBD2	TID_ZXPS_ BAD_TCTEPRSS	
				@L3A!
2	HEX	FBD3	TID_ZXPS_ CV29_DATA_MISSING	
2	HEX	FBD4	TID_ZXPS_ INVALID_BIS_DATA	

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FBD5	TID_ZXPS_ INVALID_BID_DATA	
2	HEX	FBD7	TID_ZXPS_ MISSING_BID_FLOW	
2	HEX	FBD8	TID_ZXPS_ INVALID_RUCAT	
				@L3A!
2	HEX	FBD9	TID_ZXPS_ INCONSISTENT_DATA_ FLOW	
				@L3A!
2	HEX	FBDA	TID_ZXPS_ UNIDENTIFIED_RESPONSE	
				@L3A!
2	HEX	FBDB	TID_ZXPS_ UNKNOWN_COMMAND	
				@L3A!
2	HEX	FBDC	TID_ZXPS_ UNEXPECTED_BIS_ RESP	
2	HEX	FBDD	TID_ZXPS_ UNKNOWN_CMD_RESPONSE	
				@L3A!
2	HEX	FBDE	TID_ZXPS_ INVALID_BID_STATUS	
2	HEX	FBDF	TID_ZXPS_ INVALID_ZGDA_MODE	
2	HEX	FBE0	TID_ZXPS_ INVALID_ZGDA_PARM	
2	HEX	FBE1	TID_ZXPS_ UNKNOWN_STATE_ AFTER_SIG	
				@P6A!
2	HEX	FBE4	TID_ZXPS_ RECOVERY_ABANDONED	
2	HEX	FBE5	TID_ZXPS_ RESETSR_FAILED	
				@L3A!
2	HEX	FBE6	TID_ZXPS_ TRACKING_DATA_ MISSING	
				@L3A!
2	HEX	FBE7	TID_ZXPS_ DOMAIN_CALL_FAILED	
2	HEX	FBE9	TID_ZXPS_ CV29_TRACE	@P3C!

Table 916. (continued)

Len	Type	value	Name	Description
2	HEX	FBEA	TID_ZXPS_ NO_BIS_RECOVERY	
				@P7A!
DFHZGPR !				
2	HEX	FBF0	TID_ZGPR_ENTRY	@L4A!
2	HEX	FBF1	TID_ZGPR_EXIT	@L4A!
2	HEX	FBF2	TID_ZGPR_ INVALID_FORMAT	
				@L4A!
2	HEX	FBF3	TID_ZGPR_ INVALID_FUNCTION	
2	HEX	FBF4	TID_ZGPR_ INVALID_TCSE_PTR	
2	HEX	FBF5	TID_ZGPR_ INCR_CCCC_ERROR	
				@L4A!
2	HEX	FBF6	TID_ZGPR_ DECR_CCCC_ERROR	
				@L4A!
2	HEX	FBF7	TID_ZGPR_ INQ_CCCC_ERROR	
				@L4A!
2	HEX	FBF8	TID_ZGPR_ RESET_CCCC_ERROR	
2	HEX	FBF9	TID_ZGPR_ RECOVERY_ENTERED	
extra DFHZGDA !				
2	HEX	FBFA	TID_ZGDA_ REJ_ATT_INV_CH_ STATE	
				@L4A!
2	HEX	FBFB	TID_ZGDA_ REJ_ATT_INV_BR_ STATE	
				@L4A!
2	HEX	FBFC	TID_ZGDA_ SEND_FAILED	@L4A!
extra DFHZXPS !				
2	HEX	FBFD	TID_ZXPS_ REJ_ATT_FAILED	
				@L4A!
== Standard message constants ==				
4	DECIMAL	1	MNO_ABEND	

Table 916. (continued)

Len	Type	value	Name	Description
8	CHARACTER	ZC0001	DCD_ABEND	
4	DECIMAL	2	MNO_SEVERE_ERROR	
8	CHARACTER	ZC0002	DCD_SEVERE_ERROR	
4	DECIMAL	3	MNO_NO_STORAGE	
8	CHARACTER	ZC0003	DCD_NO_STORAGE	
2	CHARACTER	ZC	COMPONENT_ID	
=== Persistent session constants ===				
4	DECIMAL	86399	PSDI_MAX	1 day in seconds less one !

ZGRP Persistent Sessions control blocks *L1A

```
===================================================================
CONTROL BLOCK NAME = DFHZGRPC
DESCRIPTIVE NAME  = CICS PRSS initialisaton blocks
 @BANNER_START 02
                    DFHZGRPC
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
  The following control blocks are all created by DFHZGRP.
FUNCTION = PRSS_CV29
    This is SHARED CICS data which contains:
    CV29, FMH5, BIS and BID data.
    There will be one PRSS CV29 per OPNDST RESTOREd TCTTE.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (EMER | VTAM_RESART) and is freemained by DFHZNCA when
    DFHZC0146 or DFHZC0156 (good PS recover) is issued,
    or when DFHZCLS is run to cover all the cases where
    the session failed to restore and was unbound.
STORAGE CLASS =
    SMMC SHARED_CICS
LOCATION =
    Chained of the TCTTE via TCTE_PRSS_CV29_PTR.
INNER CONTROL BLOCKS = none
FUNCTION = NIBLIST
    Persistent sessions INQUIRE NIBLIST - created and used by
    DFHZGRP to hold data supplied by VTAM containing the
    following information about each NIB that persists.
    See VTAM Programming SC31-6436 for a full description.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (startup or dynamic open) and freemained by DFHZGRP before
    it exits.
STORAGE CLASS =
    USAGE(DOMAIN)
LOCATION =
    Anchored off the TCT Prefix TCTV_FIRST_NIBLIST_PTR
INNER CONTROL BLOCKS = See SC31-6436
FUNCTION = TCT_BIND
    Defines the bind in the TCT, starting with the length.
    This is used to copy the PRSS BIND into the TCTTE.
LIFETIME =
```

```
                        It is built by DFHZGRP during persistent session recovery
                        (emergency restart or vtam restart) when logmode= n
                        is used and freemained if and when the TCTTE is
                        deleted.
                    STORAGE CLASS =
                        ZCBIMG subpool
                    LOCATION =
                        Anchored off TCTEBIMG
                    INNER CONTROL BLOCKS = none
                    FUNCTION = ZGRP_RPL
                        Defines a set of 11 RPLs for use by DFHZGRP and DFHZGUB.
                    LIFETIME =
                        It is built by DFHZGRP during persistent session recovery
                        (startup or dynamic open) and freemained by DFHZGRP before
                        it exits. However, if some of the RPLs are still active the
                        pool will remain and then be re-used and freemained by
                        subsequent dynamic OPEN VTAM ACB requests.
                    STORAGE CLASS =
                        ZCNIBLST subpool
                    LOCATION =
                        Anchored off the TCT Prefix TCTV_PRSS_RPL_POOL_PTR
                    INNER CONTROL BLOCKS = none
                    NOTES :
                     DEPENDENCIES = S/370
                     RESTRICTIONS =
                     MODULE TYPE = Control block definition
                    -----------------------------------------------------------------
                     EXTERNAL REFERENCES =
                       DATA AREAS =
                       CONTROL BLOCKS =
                       GLOBAL VARIABLES (Macro pass) =
                    -----------------------------------------------------------------
                ===================================================================
                ===================================================================
                 PRSS CV29 containing CV29, FMH5, BIS and BID data,
                 built by DFHZGRP from OPNDST RESTORE data and passed to DFHZXPC
                 and DFHZXRC (CV29 for terminals only).
                ===================================================================
```

Table 917.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	163	PRSS_CV29_DATA	
(0)	CHARACTER	91	PRSS_CV29	@P5C!
(5B)	CHARACTER	42	PRSS_FMH5	@P5C!
(5B)	CHARACTER	21	FMH5_PS_DATA	FMH5 PLU to SLU data @L3A!
(5B)	CHARACTER	2	FMH5_PSSEQ	FMH5 PLU to SLU seq. no.
(5D)	CHARACTER	3	FMH5_PSRH	FMH5 PLU to SLU RH @L3A!
(60)	CHARACTER	16	FMH5_PSRU	FMH5 PLU to SLU RU @L3A!
(70)	CHARACTER	21	FMH5_SP_DATA	FMH5 SLU to PLU data @L3A!
(70)	CHARACTER	2	FMH5_SPSEQ	FMH5 SLU to PLU seq. no.
(72)	CHARACTER	3	FMH5_SPRH	FMH5 SLU to PLU RH @L3A!

Table 917. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(75)	CHARACTER	16	FMH5_SPRU	FMH5 SLU to PLU RU @L3A!
(85)	CHARACTER	20	PRSS_BIS	@P5C!
(85)	CHARACTER	10	BIS_PS_DATA	BIS PLU to SLU data @L3A!
(85)	CHARACTER	2	BIS_PSSEQ	BIS PLU to SLU seq. no.
(87)	CHARACTER	3	BIS_PSRH	BIS PLU to SLU RH @L3A!
(8A)	CHARACTER	5	BIS_PSRU	BIS PLU to SLU RU @L3A!
(8F)	CHARACTER	10	BIS_SP_DATA	BIS SLU to PLU data @L3A!
(8F)	CHARACTER	2	BIS_SPSEQ	BIS SLU to PLU seq. no.
(91)	CHARACTER	3	BIS_SPRH	BIS SLU to PLU RH @L3A!
(94)	CHARACTER	5	BIS_SPRU	BIS SLU to PLU RU @L3A!
(99)	CHARACTER	10	PRSS_BID	@P5C!
(99)	CHARACTER	2	BID_SEQ	Bid sequence number @L3A!
(9B)	CHARACTER	3	BID_RH	Bid RH @L3A!
(9E)	CHARACTER	5	BID_RU	Bid RU @L3A!

```
==================================================================
Persistent sessions NIBLIST - as produced by DFHZGRP as a result
or INQUIRE PERSESS and OPNDST RESTORE.
The NIB and BIND definitions should be replaced by the VTAM
versions when they become available. If they are not replaced
then they should be kept in step with the VTAM versions.
The NIBLIST is anchored from TCTV_FIRST_NIBLIST_PTR
==================================================================
```

Table 918.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	NIBLIST	
(0)	CHARACTER	24	NIBLIST_HEADER	
(0)	CHARACTER	8	EYECATCHER	>PRSSNBL !
(8)	ADDRESS	4	CHAIN_PTR	next niblist
(C)	FULLWORD	4	NIB_COUNT	count of NIBS in this list !
(10)	FULLWORD	4	UNBIND_COUNT	count of unbinds " !
(14)	ADDRESS	4	TOP_NIBLIST	start of this block
(18)	CHARACTER	*	NIB_START	start of nibs !

Table 919.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	64	NIB	1st of many NIBs !
(0)	CHARACTER	1	*	Always 'D0'x @L6A!
(1)	UNSIGNED	1	NIBFLG0	@L6A!
	1...		NIBNNAMS	Partner used member name
(2)	CHARACTER	1	*	@L6C!
(3)	UNSIGNED	1	NIBLEN	Length of NIB @P5A!
(4)	FULLWORD	4	NIBCID	CID !
(8)	ADDRESS	4	NIBUSER	a(old_tctte) a(tctte) or 0 !
(C)	CHARACTER	8	NIBSYM	Netname !
(14)	CHARACTER	8	NIBMODE	!
(14)	CHARACTER	8	NIBNET	Netid @L5A!
(1C)	CHARACTER	8	NIBDEVCH	!
(1C)	CHARACTER	4	*	
(20)	CHARACTER	1	DEVPHYSA	
(24)	CHARACTER	4	NIBPROCD	!
(28)	UNSIGNED	1	NIBFLG1	!
	1...		NIBLAST	Off if last nib @P7C!
	.1..		NIBCON	On if OPNDST restore OK !
(29)	UNSIGNED	1	NIBFLG2	!
	11..		*	!
	..1.		NIBPSPLU	On if primary !
	...1		NIBPSDFS	On if Continue specific !
	.... 1...		NIBPSDFA	On if Continue any !
	.... .1..		NIBPSRSP	On if RESP data mode !
(2A)	CHARACTER	2	*	!
(2C)	ADDRESS	4	NIBEXLST	@L2A!
(30)	CHARACTER	8	NIBGENN	Generic resource name @L5A!
(30)	CHARACTER	8	NIBLMODE	@L5A!
(38)	CHARACTER	4	*	@L5C!
(3C)	ADDRESS	4	NIBRPARM	Pointer to restore plist !

```
-------------------------------------------------------------------
RESTORE_PLIST_POINTERS
   A set of 7 pointer per NIB in the NIBLIST. Pointed to by
   NIBRPARM in the NIB.
   They in turn, point to data supplied for each NIB by INQUIRE
   PERSESS and OPNDST RESTORE.
-------------------------------------------------------------------
```

Table 920.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	28	RESTORE_ PLIST_POINTERS	
(0)	ADDRESS	4	BIND_PTR	
(4)	ADDRESS	4	CV29_PTR	
(8)	ADDRESS	4	MODENAME_PTR	@P1C!
(C)	ADDRESS	4	SESSID_PTR	@P1C!
(10)	ADDRESS	4	FMH5_PTR	
(14)	ADDRESS	4	BID_PTR	
(18)	ADDRESS	4	BIS_PTR	

```
   ------------------------------------------------------------------
   BIND
     Returned by INQUIRE PERSESS and pointed to by BIND_ PTR
       The definition of fields within the bind should be replaced
       by the official VTAM ones.
   ------------------------------------------------------------------
```

Table 921.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	37	BIND	
(0)	UNSIGNED	1	BINFMTY	Bind format and type !
	3 binfmt bit(4), Bind format 3 bintype bit(4), Bind type			
(1)	UNSIGNED	1	BINFM	FM profile !
(2)	UNSIGNED	1	BINTS	TS profile !
(3)	CHARACTER	3	*	!
(6)	BIT(8)	1	BINCMNP2	7 Send/Receive mode !
	111.		*	!
	...1		BINBKFS	Bit X'10' Primary is brackets!
	 1111		*	!
(7)	BIT(8)	1	BINAPACE	8 SLU send pacing !
(8)	BIT(8)	1	BINRPACE	9 SLU receive pacing !
(9)	UNSIGNED	1	BINSRUSZ	10 SLU max send RU size !
(A)	UNSIGNED	1	BINPRUSZ	11 PLU max send RU size !
(B)	BIT(8)	1	BINSPACE	12 PLU send pacing !
(C)	BIT(8)	1	BINBPACE	13 PLU receive pacing !
(D)	UNSIGNED	1	BINLUP	14 LU type !
(E)	CHARACTER	11	BINPSCHR	Bytes 15-25 !

Table 921. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(E)	BIT(8)	1	BINLULEV	15 LU Type !
(F)	BIT(8)	1	BINARCH1	16 Arch info 1 !
(10)	CHARACTER	5	*	17-21 !
(15)	BIT(8)	1	BINFLG0	22 Flag byte !
	1...		BINES	Bit X'80' Ext Sec Supp !
	.111 1111		*	!
(16)	BIT(8)	1	BINFLG1	23 Flag byte !
	111.		*	!
	...1		BINCLSS	Bit X'01' Acc sec supp !
	.... 11..		*	!
	.... ..1.		BINAVFS	Bit X'02' Already verif !
	1		BINPV	Bit X'01' Persist verif !
(17)	BIT(8)	1	BINFLG2	24 Flag byte !
	1...		*	!
	.1..		BINCSBK	Bit X'40' Sync level 2 !
	..1.		BINCONF	Bit X'20' Sync level 1 !
	...1		*	!
	.... 1...		BINSECNH	Bit X'08' 2ry reinitiate !
	.... .1..		BINPRIMH	Bit X'04' 1ry reinitiate !
	.... ..1.		BINPSS	Bit X'02' parallel sess !
	1		BINGDSVF	Bit X'01' CNOS supported !
(18)	BIT(8)	1	BINFLG3	25 Flag byte !
	1...		*	!
	.1..		BINLTDRC	Bit X'40' LR bit !
	..11 1111		*	!
(19)	BIT(8)	1	BINCRCTL	26 Cryptography !
(1A)	UNSIGNED	1	BINPRIML	27 1ry LU name length !
(1B)	CHARACTER	8	BINPRIM	28-35 1ry LU name !
	--- -! If a bind returned in a persisent session niblist has a ! non 0 userdata length (BINUSEL) then the bind is followed ! by structured user data fields, including the modename, ! sessid, PLUNAME or SLUNAME. ! --- ---!			
(23)	UNSIGNED	1	BINUSEL	36 Length of user data !

Table 921. (continued)

Offset Hex	Type	Len	Name (dim)	Description
(24)	CHARACTER	1	BINUSE	37 First byte of data !

```
              ----------------------------------------------------------------
              MODENAME (Prefixed by 'll02'x)
                Returned by INQUIRE PERSESS and pointed to by MODENAME_PTR
              ----------------------------------------------------------------
```

Table 922.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	10	MODENAME_STRUCT!	
(0)	UNSIGNED	1	MODENAME_LENGTH	Length of modename+1 !
(1)	UNSIGNED	1	MODENAME_KEY	Key '02' !
(2)	CHARACTER	8	MODENAME	Modename used by CICS !

```
              ----------------------------------------------------------------
              SESSID ( Prefixed by 'll03'x)
                Returned by INQUIRE PERSESS and pointed to by SESSID_PTR.
              ----------------------------------------------------------------
```

Table 923.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	10	SESSID_STRUCT	!
(0)	UNSIGNED	1	SESSID_LENGTH	Length of sessid + 1 !
(1)	UNSIGNED	1	SESSID_KEY	Key '03' !
(2)	CHARACTER	8	SESSID	Sessid used by CICS !

```
              ----------------------------------------------------------------
              TCT_BIND
                Defines the bind in the TCT, starting with the length.
                Note: TCTEBIMG points beyond the flag in the first byte to the
                length, followed by the bind itself.
              ----------------------------------------------------------------
```

Table 924.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	38	TCT_BIND	
(0)	UNSIGNED	1	TCT_BIND_LENGTH	
(1)	CHARACTER	13	*	
(E)	UNSIGNED	1	TCT_BINLUP	
(F)	CHARACTER	23	*	@D2C!

```
              ----------------------------------------------------------------
              RPL_POOL
                Defines a set of 11 RPLs for use by DFHZGRP and DFHZGUB.
                The block is obtained from the ZCNIBLST variable length subpool
                when DFHZGRP is entered and deleted by DFHZGRP if all the
                RPLs are inactive.
                The ECB is for use by DFHZGUB to wait until an RPL becomes free.
                The first RPL is for use by DFHZGRP - INQUIRE and OPNDST.
                The next 10 are for DFHZGUB, which initiates up to 10 CLSDSTs
```

```
        or TERMSESS's. After that it needs to wait for one to become
        inactive.
      The RPL POOL is anchored from TCTV_PRSS_RPL_POOL_PTR.
      The last 10 RPLS for use by DFHZGUB are anchored from
      TCTV_PRSS_UNBIND_RPLS_PTR
      -------------------------------------------------------------------
```

Table 925.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	ZGRP_RPL_POOL	
(0)	CHARACTER	16	RPL_POOL_HEADER	
(0)	CHARACTER	8	RPL_EYECATCHER	>PRSSRPL !
(8)	ADDRESS	4	WAIT_RPL_ECB	DFHZGUB wait for RPL ECB !
(C)	FULLWORD	4	RPL_SIZE	Size of each RPL !
(10)	CHARACTER	*	ZGRP_RPL	

```
      -------------------------------------------------------------------
      Security Mechanisms subfield (prefixed by '..14')
      -------------------------------------------------------------------
```

Table 926.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	SEC_MECH_STRUCT	@L4A!
(0)	UNSIGNED	1	SEC_MECH_LENGTH	Length of struct - 1 @L4A!
(1)	UNSIGNED	1	SEC_MECH_KEY	Key '14' @L4A!
(2)	UNSIGNED	1	SEC_POLICY_ LENGTH	security policy length
(3)	CHARACTER	*	*	

Table 927.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	EXT_SEC_ MECH_STRUCT	@L4A!
(0)	UNSIGNED	1	SEC_EXT_MECH_LEN	length of extended mechs
(1)	CHARACTER	*	SEC_EXT_MECH	mechanisms @L4A!
(1)	CHARACTER	1	SEC_MECH_ID	mechanism id @L4A!
(2)	UNSIGNED	1	SEC_MECH_POLICY	mechanism policy @L4A!
	1...		SEC_POLICY_ REQD	Bit X'80' Req sec supp
	.111 1111		*	@L4A! extended mechanisms

Constants

Table 928.

Len	Type	value	Name	Description

-- NIB_DATA_LENGTH
   Length of one NIB, PLIST and data returned by INQUIRE PERSESS
   Note - after VTAM APAR OY65251 LU62 NIB data will also contain
   key 04 from the bind user data - with a maximum length of 19
   VTAM may add extra subfields in later releases - in which case
   this length must be increased.
-- 					

4	DECIMAL	164	NIB_DATA_LENGTH	@P4A!

-- SHORTEST_NIB_DATA_LENGTH
   Length of the shortest possible NIB data returned by VTAM
   INQUIRE PERSESS.
-- 					

4	DECIMAL	129	SHORTEST_ NIB_DATA_LENGTH	
				@P6A!
-- OPNDST_DATA_LENGTH Length of one set of CV29, FMH5, BIS + BID. --				
4	DECIMAL	163	OPNDST_DATA_LENGTH	

ZLUIT ZCP local userid table definition

```
CONTROL BLOCK NAME = DFHZLUIT
DESCRIPTIVE NAME  = CICS (ZCP) Local Userid Table
definition.
 @BANNER_START 02
                       DFHZLUIT
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5655-S97
 @BANNER_END
FUNCTION =
    This control block contains the DSECTs for:
    1) Local Userid Table (LUIT) entries.
        The LUIT contains a list of Userids, who are using
        Persistent Verification, and are considered ALREADY
        VERIFIED for use on this connection.
    2) The Local Userid Table Area (LUITA).
        This is the header for each LUIT, containing a pointer
        to the first LUIT entry, the SYSID associated with the
        LUIT, and some flags. This DSECT is physically part of
        the TCSE, but contains only those TCSE fields required
        by DFHZCUT to perform its functions.
    There is one LUIT per connection, composed of a LUITA
    header followed by one entry for each userid that is
    Persistently Signed On.
    Both of these control blocks are owned by DFHZCUT.
LIFETIME =
    For the LUITA - Lifetime of the TCSE - connection lifetime.
                    Destroyed when the TCSE is freed.
    For the LUIT entries - Task related. Tasks will attach and
                    add or reuse LUIT entries. As tasks end,
                    the use counts in the LUIT entries are
                    decremented. If the entries have not been
                    used for a set time (SIT - PVDELAY)
```

```
                              the LUIT entries will be deleted.
             STORAGE CLASS =
                  The LUITA is part of the TCSE
                  The LUIT entries come from Subpool USIDTBL
                  They have a fixed length of 32 bytes.
             LOCATION =
                  LOCAL_USERID_TABLE_AREA (LUITA) is a field in the TCSE.
                  LOCAL_USERID_TABLE_ELEMENT is chained off:
                    LUITA_HEAD_POINTER (TCSELUIT) for the first LUIT entry
                    LUIT_FORWARD_POINTER for the next LUIT entry
                          (end of chain = Null pointer)
             INNER CONTROL BLOCKS =
                  The LOCAL_USERID_TABLE_AREA is an inner control block of
                  the TCSE defined at TCSEUTA
             NOTES :
              DEPENDENCIES = S/370
              RESTRICTIONS =
              MODULE TYPE = Control block definition
             EXTERNAL REFERENCES =
                  None
               DATA AREAS =
                  None
               CONTROL BLOCKS =
                  None
               GLOBAL VARIABLES (Macro pass) =
                  None
             ----------------------------------------------------------------
             The Local Userid Table Area is a sub control block within the
             TCSE - at TCSEUTA.
             DFHZCUT uses the LUITA as the head control block for the LUIT.
               HEAD_POINTER points to the start of the LUIT element chain.
               SYSID is the 4 char connection sysid associated with the LUIT.
               FLAGS that are used in Time Out of the LUIT entries:
                  TIME_OUT_IN_PROGRESS
```

Table 929.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	12	LOCAL_USERID_ TABLE_AREA	
(0)	ADDRESS	4	LUITA_HEAD_ POINTER	
(4)	CHARACTER	4	LUITA_SYSID	
(8)	BIT(8)	1	LUITA_FLAGS	
	1...		LUITA_TIME_ OUT_IN_PROGRESS	
	.111 1111		*	Reserved
(9)	CHARACTER	3	*	Reserved

```
             The Local Userid Table Elements consist of userids that are using
             Persistent Verification for a particular SYSID.
               FORWARD_POINTER is used to chain to the next element - search
               BACKWARD_POINTER is used when deleting entries from the middle
                  of the list.
               TIME_LAST_END_BRACKET is set to zero when the entry is added
                  to the list. Subsequently, it is set to the 4 High Order
                  bytes of the STCK macro time, whenever tasks that use the
                  entry send an end bracket to complete the session ( at task
                  end). The time is used to remove the LUIT entry from the
                  list if the count is zero, and the entry has not been used
                  for a set time.
               USE_COUNT is the total number of transactions currently running
```

that are using this LUIT entry.
      FLAGS
        LOGICALLY_DELETED indicates that the LUIT entry has logically
          and architecturally been deleted, however since the use
          count is non zero, we must wait for the transactions that
          are currently using it to end, before we can Freemain it.
          Note. Instead of adding a new entry to the list a logically
          deleted entry can be made valid again. This saves us from
          having multiple entries for the same userid.
      USERID is the userid (and length) that is using PV and can
          be considered Already Verified for use on the connection.

Table 930.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	32	LOCAL_USERID_ TABLE_ELEMENT	
(0)	ADDRESS	4	LUIT_FORWARD_ POINTER	
(4)	ADDRESS	4	LUIT_BACKWARD_ POINTER	
(8)	UNSIGNED	4	LUIT_TIME_ LAST_END_BRACKET	
(C)	HALFWORD	2	LUIT_USE_COUNT	
(E)	UNSIGNED	1	LUIT_FLAGS	
	1...		LUIT_LOGICALLY_ DELETED	
	.1..		LUIT_PENDING_ TIME_OUT	
	..11 1111		*	
(F)	CHARACTER	9	LUIT_USERID	
(F)	UNSIGNED	1	LUIT_USERID_ LENGTH	
(10)	CHARACTER	8	LUIT_USERID_ TEXT	
(18)	CHARACTER	8	*	Reserved

ZXQOD XRF tracking queue organiser

```
        CONTROL BLOCK NAME = DFHZXQOD
        DESCRIPTIVE NAME  = CICS XRF tracking queue organiser
                          (DFHZXQO) interface declaration.
         @BANNER_START 02
                           DFHZXQOD
         Licensed Materials - Property of IBM
         "Restricted Materials of IBM"
         5655-S97
         @BANNER_END
        FUNCTION = Declare interface to DFHZXQO.
        NOTES :
         DEPENDENCIES = S/370
         RESTRICTIONS =
         MODULE TYPE = Control block definition
        ----------------------------------------------------------------
        EXTERNAL REFERENCES = None.
          DATA AREAS = None.
```

```
                    CONTROL BLOCKS = CSAXQONA in the CSA.
                    GLOBAL VARIABLES (Macro pass) = None.
         ----------------------------------------------------------------
```

Table 931.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	8	XQOVECT	Vector for ZXQO
(0)	ADDRESS	4	XQOVECTN	ZXQO entry point
(4)	BIT(32)	4	XQOVECTE	ECB posted when ZXQO is drained

Constants

Table 932.

Len	Type	value	Name	Description
XQO_REQCODE values :-				
1	CHARACTER	I	XQO_REQ_INIT	
1	CHARACTER	A	XQO_REQ_ADDACT	
1	CHARACTER	P	XQO_REQ_POST	
1	CHARACTER	D	XQO_REQ_DRAIN	
XQO_RESPONSE values :-				
4	DECIMAL	8	XQO_RSP_BAD_REQC	OUT: Error
4	DECIMAL	4	XQO_RSP_ERROR	IN: (to POST)
4	DECIMAL	3	XQO_RSP_NOT_YET	OUT: Normal - queued
4	DECIMAL	1	XQO_RSP_SCHEDULD	IN: from RM_SCHEDULE
4	DECIMAL	0	XQO_RSP_NORMAL	OUT: Normal - complete

ZXTR XRF tracking record header

```
                    CONTROL BLOCK NAME = DFHZXTR
                    DESCRIPTIVE NAME  = CICS XRF tracking record header.
                     @BANNER_START 02
                                        DFHZXTR
                     Licensed Materials - Property of IBM
                     "Restricted Materials of IBM"
                     5655-S97
                     @BANNER_END
                    FUNCTION =
                        Common part of records shipped to an XRF alternate
                        to drive the tracking of various states.
                    LIFETIME =
                        Built by DFHTBSSP and the XRF catch-up transaction, and
                        interpreted by DFHTCRP and DFHZXQO.
                    STORAGE CLASS = Various.
                    LOCATION = Various.
                    INNER CONTROL BLOCKS =
                        The tracking record contains a variable length data
                        field which in some cases is a copy of the CICS catalog
                        record.
                    NOTES :
                     DEPENDENCIES = S/370
```

```
        RESTRICTIONS = None.
        MODULE TYPE = Control block definition
     ---------------------------------------------------------------
      EXTERNAL REFERENCES = None.
        DATA AREAS = None.
        CONTROL BLOCKS = None.
        GLOBAL VARIABLES (Macro pass) = No sysgen globals.
```

Table 933.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	XTR_RECORD	Tracking record sent from the ACTIVE to the ALTERNATE
(0)	UNSIGNED	2	XTR_ID	Indicates whether it is a CATCHUP or TRACKING type record.
(2)	BIT(8)	1	*	Flags
(3)	CHARACTER	1	XTR_TYPE	Defines what the tracking record contains
(4)	CHARACTER	*	XTR_KEY	
(4)	UNSIGNED	1	XTR_KEY_LENGTH	Length of the key value. If this is 0 and XTR_ID is not XTR_ID_BROADCAST then this is the end-of-stream marker for a particular catchup. Any data will be ignored in this case.
(5)	CHARACTER	*	XTR_KEY_VALUE	A string that uniquely names the externalised object

Table 934.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	XTR_DATA	Recovery record proper
(0)	UNSIGNED	2	XTR_DATA_LENGTH	
(2)	CHARACTER	*	XTR_DATA_STRING	Contains the externalised object(s) and associated object.

```
        The following structure maps XTR_DATA_STRING when used
                  for tracking-control messages.
        In this case the following conventions exist:-
        (a) If XTR_ID is XTR_ID_BROADCAST then
             this is a start-of-stream record,
             which is the first record generated
             by a (new) active.
        (b) If XTR_ID is not XTR_ID_BROADCAST then
             this is a start-of-catchup record,
```

```
                              and any backup waiting to do catchup
                              may capture the value in XTR_ID which
                              will be used in all subsequent records
                              for this particular catchup.
```

Table 935.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	XTR_XC_DATA	
(0)	BIT(8)	1	*	
	1...		XTR_XC_ STRM_WARM	Stream is cold
(1)	CHARACTER	1	* (*)	List of types in stream
(1)	CHARACTER	1	XTR_XC_ TYPE_ELEM	Stream type

```
                   The following structure maps XTR_DATA_STRING when used
                            for session-state tracking messages.
```

Table 936.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	XTR_ST_DATA	
(0)	CHARACTER	5	XTR_ST_SHORT	Basic section
(0)	CHARACTER	4	XTR_ST_ SESS_NAME	Session/terminal name
(4)	CHARACTER	1	XTR_ST_REQUEST	Request being shipped
(5)	BIT(8)	1	XTR_ST_FLAGS_1	
	1...		XTR_ST_CAPABLE	XRF capable session
(6)	CHARACTER	*	XTR_ST_CORREL	Correlation id
(6)	UNSIGNED	1	XTR_ST_ CORREL_LN	Length
(7)	CHARACTER	*	XTR_ST_ CORREL_ID	Value

```
                            This is now externalised
```

Table 937.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	XTR_ST_LOG_DATA	Logon data
(0)	UNSIGNED	2	XTR_ST_LOGD_LEN	Length
(2)	CHARACTER	*	XTR_ST_LOGD_VAL	Value

Table 938.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	XTR_ST_BIND	BIND-image
(0)	UNSIGNED	1	XTR_ST_BIMG_LEN	Length
(1)	CHARACTER	*	XTR_ST_BIMG_VAL	Value

Table 939.

Offset Hex	Type	Len	Name (dim)	Description
(0)	STRUCTURE	*	XTR_SN_DATA	
(0)	CHARACTER	4	XTR_SN_SESS_NAME	
(4)	UNSIGNED	1	XTR_SN_REP_N	
(5)	CHARACTER	*	XTR_SN_REP	

Constants

Table 940.

Len	Type	value	Name	Description
4	DECIMAL	5	XTR_RECORD_SIZE	
4	DECIMAL	16	XTR_MAX_KEYLEN	Maximum length of the obj
4	DECIMAL	2	XTR_DATA_SIZE	
Used in XTR_ID				
2	DECIMAL	0	XTR_ID_BROADCAST	General msg
2	DECIMAL	65535	XTR_ID_PENDING	XTR_ID_PENDING - used to indicate that a stream has been "opened" but nothing sent yet
Used in XTR_TYPE				
1	CHARACTER	X	XTR_TYPE_CONTROL	Tracking control
1	CHARACTER	C	XTR_TYPE_ZC_CONTENTS	CONTENTS
1	CHARACTER	S	XTR_TYPE_ZC_SESSIONS	SESSIONS
1	CHARACTER	U	XTR_TYPE_SN	User ids
Used in RESPONSE				
1	DECIMAL	0	XTR_RSP_NORMAL	Normal response
1	DECIMAL	8	XTR_RSP_ERROR	Error response
1	DECIMAL	4	XTR_RSP_SHUTDOWN	Shutdown
1	DECIMAL	1	XTR_RSP_ALL_GONE	No backups
4	DECIMAL	5	XTR_SN_DATA_SIZE	
Values used in XTS_ST_REQUEST:-				
1	CHARACTER	1	XTR_ST_REQ_BIND	BIND completed
1	CHARACTER	2	XTR_ST_REQ_FREED	Logon data freed
1	CHARACTER	3	XTR_ST_REQ_UNBND	UNBIND completed

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Version 4 Release 2
Data Areas

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