CICS Transaction Server for z/OS



Data Areas

Version 5 Release 4

CICS Transaction Server for z/OS



Data Areas

Version 5 Release 4

Note
Before using this information and the product it supports, read the information in "Notices" on page 1295.

This edition applies to the IBM CICS Transaction Server for z/OS Version 5 Release 4 (product number 5655-Y04) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Contents

About this PDF vii

CICS Transaction Server for z/OS Data Areas 1

AID - Automatic initiate descriptor 1
AFCB - Authorized function blocks 4
APSTG - Application domain global statistics . . . 9
APXDC - Application domain trandef extension . . 11
ASGDS - Asynchronous services Statistics 12
A03 - VTAM global statistics 13
A04 - Autoinstall statistics 15
A06 - Terminal statistics 17
A08 - LSR pool statistics 18
A09 - File specific statistics 21
A14 - ISC/IRC statistics 22
A16 - Table manager statistics 26
A17 - File control statistics 27
A20 - ISC/IRC mode entry statistics 32
A21 - ISC LUIT & SNA management statistics . . . 34
A22 - FEPI pool statistics 35
A23 - FEPI connection statistics 36
A24 - FEPI target statistics 38
BRARC - BRXA definition 39
CDBLK - CONVDATA block 56
CFS6D - CFDT Server CF statistics 57
CFS7D - CFDT Server Table Statistics 60
CFS8D - CFDT Server Request Statistics 62
CFS9D - CFDT Server Storage Statistics 63
CLT - Command list table 65
MCTDR - Monitoring Dictionary Entry 67
CRB - Cross region block 68
CSA - Common system area generator 69
CTXPA - DL/I General purpose macro 93
CWE - DL/I General purpose macro 95
DSB - DBCTL Scheduling block. 96
DGB - DBCTL-CICS Global Block 102
DLP - DL/I General purpose macro 107
RPD - DL/I General purpose macro 108
RSB - DL/I General Purpose Macro 108
DBU - DBCTL unsolicited statistics 119
DCR - Transaction dump record formats 120
DCT - Destination control table 126
DIB - Data interchange block 138
DHDDS - Doctemplate Resource Statistics 141
DHTX - Document Handler Template EXITPGM interface 144
DJEPC - Enterprise Java Commarea Event 145
SPI - Task Local Storage Definition 146
DSG - Dispatcher statistics 150
DSTDS - Dispatcher MVS TCB Global Stats . . . 155
DSRDS - Dispatcher MVS TCB Resource Stats . . 157
DSN - File control dataset name 158
DUAFB - Dump Domain Authorised Parameter Block 163
DUA - Dump Domain Control Blocks 165
DWE - Deferred work element 181
DBWMS - XRF/DBCTL Last message sent. 182
DXPS - XRF/DBCTL DGB Extension 184
DXQEL - XRF/DBCTL subtask storage 185
DXUEP - CICS-DBCTL XRF User Exit Parameter List. 186
D2GDS - CICS/DB2 Global statistics 188
D2RDS - CICS/DB2 Resource statistics 191
ECA - Event control area 194
ECCDS - Capturespec Resource Statistics 195
ECGDS - Eventbinding Global Statistics 197
ECRDS - Eventbinding Resource Statistics 198
EDF - EDF Communication area 199
EIB - EXEC interface block 203
EICD1 - Language definition table 205
EIC - EXEC interface communications area . . . 214
EIPDS - Command level interface dsects 215
EIS - EXEC interface structure 221
EISTG - EXEC interface dynamic storage 229
EIUS - EXEC interface user structure 229
EPDE - Event Processing Descriptor 232
EPFE - Event Processing Flattened Event 234
EPCX - Event Processing Context Container . . . 235
EPAP - Event Processing Adaptparm Container 237
EPGDS - Event Processing Global Statistics . . . 238
EPRDS - Event Processing Resource Statistics. . . 240
ETC - EXEC terminal control 242
FCE - File control EXEC argument list 244
FCLGC - File Control Log Record Format 254
FCS - File control static storage 260
FCT - File control table entry layout 271
FCTSR - File control shared resources 283
FIOA - File input/output area 287
FLABC - File Lasting Access Block 289
FMH - Function management headers 292
FMI - Function and module identifiers 319
FRABC - File Request Anchor Block 321
FRTEC - File Request Thread Element 325
ICE - Interval Control Element 327
ICUE - Interval Control EXEC Parameter List . . 330
IMSDS - Function request shipping message . . . 354
IRRDS - Interregion Session Recovery 355
IRC - Interregion control blocks 357
ISMF - ISC IP Message Formats 370
ISRDS - ISC IP Connection Statistics 398
JCA - Journal Control area 401
KCS - Transaction manager static storage 403
KERRD - Kernel error data 404
KPLEC - Keypoint list element 410
LDBDS - Loader statistics for public LIBRARYs . . 411
LDGDS - Loader statistics 413
LDPDS - Loader statistics for private programs . . 415
LDRDS - Loader statistics for public programs . . 417
LDYDS - Loader statistics for private LIBRARYs 419
LESRV - Service routine vector 421
LFM - LIFO parameter list and standard DSA . . 422

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LGGDS - Log Manager Global Statistics 427
LGGF - General Log Format 428
LGMS - SMF Log Format 432
LGRDS - Log Manager Journal Statistics 435
LGSDS - Log Manager Logstream Statistics . . . 436
APLI - Program Language Block 438
LLDC - TC local logical device code table 440
LUC - Parameter list 441
LUM - Parameter list. 451
LUSDS - ZCP LU sevices manager parameter . . 453
MAP - BMS map object DSECT 454
MBCA - Transient data buffer control 461
MCA - Map control area description. 465
MCB - BMS message control block 467
MCR - BMS message control record dsect 471
MGM - MGM format of prototype messages . . . 474
MLRDS - XMLTRANSFORM Resource Statistics 477
MLVIC - Xmltransform vendor interface 479
MNADS - Monitoring Association Data Block . . 481
MNEMP - Monitoring domain user EMP structure 482
MNEXC - Monitoring exception record. 484
MNG - Monitoring domain statistics 486
MNI - Transaction identity monitoring data . . . 489
PDA - Monitoring Performance Data Record . . . 492
MNR - Transaction resource monitoring data. . . 508
MNSMF - SMF header and SMF product section 513
MNT - Transaction monitoring data 515
MPFEC - Policy Flattened Event 534
MQG - WebSphere MQ Connection Statistics . . . 538
MQR - WebSphere MQ Monitor Statistics 541
MRC - Transient data VSAM control 544
MWCB - Transient data wait control. 548
NCS4D - Named counter server CF statistics . . . 549
NCS5D - Named counter server storage statistics 551
NEPCA - Node error program commarea 553
NQG - Enqueue Manager Global statistics. . . . 557
NQUE - Enq/Deq EXEC Parameter List 559
OSPWA - BMS work area 563
PCE - Program control EXEC argument list . . . 577
PEP - Program error program commarea 582
PCUES - Program control user exits DSECT . . . 586
PGACC - Program Manager Autoinstall Commarea 588
PGA - BMS page control area DSECT 591
PGDDS - Public Program Definition Resource Statistics 592
PGEDS - Private Program Definition Resource Statistics 596
PGGPC - Program Manager Statistics 600
PGPDS - Private JVM Program Resource Statistics 601
PGRDS - Public JVM Program Resource Statistics 602
PIRDS - Pipeline Resource Statistics 604
PIWDS - Webservice Resource Statistics 606
PLT - Program list table entry 608
PFT - Profile table entry 609
PSD - Partition set definition block 612
PSG - System spooling interface 615
PSP - Printer spooling subsystem. 617
PTANC - Partner Domain Control Blocks 621
RCS - Recovery Control Static Storage 625
RLRDS - Resource Lifecycle Resource Statistics . . 626
RMG - Recovery Manager Global statistics . . . 627
RMUXC - Recovery Manager Domain Inline Access 629
SAA - Storage accounting area. 630
SAB - Subsystem anchor block 630
SDG - Dump domain global statistics 633
SDR - Dump domain system dump statistics . . . 634
SETCC - SET Storage Control (in FLAB and FRTE) 635
SIP - System initialization program 636
SIT - System initialization table 639
SJCON - Java VM domain control blocks 667
SJSDS - JVMSERVER Resource Statistics 683
SKRQ - Subtask management parameter block . . 686
SKA - SKP subtask control area 688
SKW - SKP work queue element 691
SLDC - System logical device code table 693
SMD - domain subpool storage statistics 695
SMF - SMF header and SMF product section . . . 697
SMS - pagepool storage statistics 701
SMT - storage subpool storage statistics 706
SNEX - Signon Extension Block 708
SNGN - GNTRAN Stub Parameter List for CEGN 713
SNGS - Goodnight Transaction Parameter List . . 714
SNSTA - Sign-on LUIT and SNT statistics 715
SOGDS - Sockets Global Statistics 716
SORDS - TCP/IP Service (Sockets) Statistics . . . 719
SRA - SRB interface mapping 722
SRB - Service request block. 723
SRED - System recovery error data 728
SRT - System recovery table 730
SSA - Static storage area address list. 731
STG - Statistics domain statistics 732
STI - Statistics record identifiers 734
TACB - Transaction abend control block 737
TACLE - Terminal abnormal condition line entry 741
TCA - Task Control Area 743
TCADY - Task Control Area - System Area . . . 785
ZRPL - CICS VTAM RPL extension 792
TCPRA - Receive any control element 793
TCRWE - Remote install work element 795
TCTFX - Terminal control table prefix 797
TCTLE - Terminal control table line entry 814
TCTTE - TCT terminal entry 817
TCTWA - TCT transaction work area 893
TCTWE - VTAM Autoinstall work element . . . 896
TCX - TCA extension for LU6.2 899
TDCI - Transient data control intervals 899
DUGS - Dump domain global ststistics 901
TDIA - Transient data input area 902
TDOA - Transient data output area 903
DUTD - Dump domain transaction dump statistics 904
TDST - Transient data static storage 905
TDUE - Transient data EXEC Parameter List . . . 908
TEPCA - TEP commarea mapper and descriptor 913
TIE - Task interface element 914
TIOA - Terminal input/output area 920
TMELD - Table Manager Read Lock Block. . . . 921
TMDEL - Table Manager Directory Element . . . 922
TMDSG - Table Manager Directory Segment . . . 924
TMRQ - Table Manager Parameter List. 925
TMSKT - Table Manager Scatter Table 928
TMS - Table Manager Static Storage Area 929
TPE - Terminal partition extension 931

TQR - Transient data statistics 932
TQG - Transient data global statistics 936
TRA - Trace domain - common structures 938
TRAP - trace parameter list. 941
TRBL - Trace domain - common structures . . . 943
TREN - Trace entry 944
TRFCA - Trace Formatting Control Area 947
TRFTE - Feature Trace Entry Header 957
TRGTW - Global trap working storage 959
TSG - Temporary Storage Domain Statistics . . . 960
TSIOA - Temporary Storage input/output area . . 962
TST - Temporary Storage table 963
TSUE - Temporary Storage EXEC Parameter List 964
TTP - Terminal type parameter 971
UEACD - User exit application context 981
UEFD - User exit file and dataset information . . 982
UEPB - User Exit Program Block 985
UEPL - User Exit Program Link 987
UEPAR - Task related user exit plist 987
UETE - User Exit Table Entry 997
UETH - User Exit Table Header 998
UEPAR - Global user exit plist. 999
URL - User supplied route list entry 1065
VMID - Module identifier 1066
VSWA - FC VSAM work area 1067
WBCLB - Web client session 1073
WBCLC - Web client parameter list. 1079
WBCDC - Web Interface Converter parms . . . 1082
WBEPC - Web Error Program parms 1088
WBGDS - Web Domain (URIMAP) Global Statistics. 1091
WBRDS - Web Domain (URIMAP) Statistics . . . 1093
WBTDC - Web Interface Analyzer Parms 1096
WBTLC - Web Interface Template Manager . . . 1101
W2AP - Web2.0 DFHATOMPARMS container 1103
W2AP - Web2.0 DFHATOMPARMS constant definitions 1110
W2PC - Web2.0 ATOMPARAMETERS container 1111
W2LC - Web2.0 Resource Layout Mapping . . . 1116
W2RDS - Web2.0 Domain (ATOMSERVICE) Statistics. 1118
WCG - XRF Global control block 1121
WCS - XRF CAVM static control block 1123
WDG - XRF Process block 1125
WDI - XRF Dispatcher interface 1127
WFG - XRF CAVM file control block 1129
WDL - XRF LIFO workspace 1131
WMG - XRF Message manager global area . . . 1132
WMI - XRF Internal interface block. 1136
WMM - XRF Message queue anchor block . . . 1138
WMQ - XRF Message request queue 1140
WMR - XRF Message record 1141
WMS - XRF Message manager request 1143
WMT - XRF message manager message 1146
WNF - XRF CAVM notify exit 1148
WSA - XRF CAVM surveillance status 1151
WSC - XRF CAVM Time-of-day clock difference 1157
WSM - XRF CAVM state manager record description 1158
WSN - XRF DFHWSMS entry points table . . . 1162
WSR - XRF CAVM surveillance 1163
WSS - XRF CAVM state manager parameter list 1165
WST - XRF takeover parameter area 1167
WSX - XRF CAVM surveillance exits 1169
WS2 - XRF DFHWSSN2 parameter list 1170
WS3 - XRF DFHWSSN3 parameter list 1171
WTA - XRF takeover initiation argument block 1172
WTG - XRF trace control area 1178
WTR - XRF trace interface. 1180
WXB - XRF process block 1183
WXL - XRF LIFO stack area 1186
XCTRC - DFHXCTRA parameter list definition 1187
XFIOA - Transformed MRO function 1196
XFR - Function shipping request control block 1202
XLT - Transaction list table 1209
XMCDS - Transaction Manager Tclass Stats . . . 1210
XMGDS - Transaction Manager Global Stats. . . 1212
XMRDS - Transaction Manager Transaction Stats 1214
XMRSC - Transaction Restart Program Commarea 1217
XQS1D - Shared TS Queue Server CF statistics 1218
XQS2D - Shared TS Queue Server buffer statistics 1221
XQS3D - Shared TS Queue Server storage statistics. 1223
XRH - Extended recovery facility 1225
XRS - XRF static storage definition 1227
XRW - XRF work element definition 1233
ATD - Attach table 1235
ZCQ - Builder parameter set 1239
ZEPD - TCP modules address list 1250
ZGDC - Domain subroutine equates 1255
ZGRP - Persistent Sessions control blocks . . . 1274
ZLUIT - ZCP local userid table definition . . . 1281
ZCCPS - CICS Client 1283
ZXQOD - XRF tracking queue organiser 1289
ZXTR - XRF tracking record header 1290

Notices 1295

Index 1301

About this PDF

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

For details of the terms and notation used in this book, see Conventions and terminology used in the CICS documentation in IBM Knowledge Center.

Date of this PDF

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CICS Transaction Server for z/OS Data Areas

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

This information is NOT intended to be used as a Programming Interface of CICS Transaction Server for z/OS, Version 5 Release 4 .

AID - Automatic initiate descriptor

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

Table 1.

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

```
Substructure of AIDDATA
```

Table 2.

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

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Table 2. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(21)	CHARACTER	4	AIDSHSYS	Shipped via sysid
(25)	CHARACTER	4	AIDCURTR	Current terminal id
(29)	CHARACTER	4	AIDDEST	TD destination
(2D)	CHARACTER	1	AIDTYPE	Type of AID
(2E)	BIT(8)	1	AIDSTATI	AID status indicator
(2E)	1...		AIDPRIV	AID is for privileged allocate
(2E)	.1..		AIDSENT	This AID has been sent to TOR
(2E)	..1.		AIDCANCL	Cancel remote AID
(2E)	...1		AIDROUTP	AID not yet routed to AOR
(2E)	.... 1...		AIDSHIPD	Prevent duplicate send to tor
(2E)	.... .1..		AIDREMX	AID for a remote transaction
(2E)	.... ..1.		AIDREMT	AID for a remote terminal
(2E)	1		AIDSTTSK	Task initiated
(2F)	CHARACTER	1	*	Reserved
(30)	ADDRESS	4	AIDTCTA	TCTTE address
(30)	ADDRESS	4	AIDTCTSA	Skeleton TCTTE addr if terminal remotely owned
(34)	CHARACTER	8	AIDDATID	Data identification
(34)	CHARACTER	2	*	Request id
(36)	CHARACTER	1	*	x'FD' for BMS
(37)	CHARACTER	4	AIDMCRID	MCR identifier
(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 2. (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
(4E)	1...		AIDSZ	Startcode SZ for FEPI
(4E)	.1..		AIDNPUR	Non purgeable allocate aid
(4E)	..1.		AIDPURGD	Aid purged
(4E)	...1		AIDDYNTR	Dynamic transaction
(4E)	.... 1...		AIDRECOV	PUT AID with recoverable TS data
(4E)	.... .1..		AIDCRSRT	CRSR rescheduling bit
(4E)	.... ..1.		AID_REROUTED	Aid is being rerouted to another TOR
(4E)	1		AIDRTST	Routable start
(4F)	BIT(8)	1	AIDFLAG2	Second flag byte
(4F)	1...		AIDMRSCH	AID may be re-sched
(4F)	.111 1111		*	
(50)	CHARACTER	4	AIDSYST	System id of first system in route to terminal owner (usually = terminal owner)
(54)	CHARACTER	4	AIDTIMST	Time stamp
(58)	CHARACTER	4	AIDSYSX	System id of first system in route to transaction owner (usually = transaction owner)
(5C)	BIT(8)	1	AIDVER	Verification flags for aid
(5C)	1...		AIDVERUN	Unchained
(5C)	.1..		AIDVERFR	Freed aid's storage
(5C)	..1.		AIDLTRM	AIDTRMID unknown
(5C)	...1 1111		*	Reserved
(5D)	CHARACTER	8	AID_TERMINAL_NETNAME	Netname of target term
(65)	CHARACTER	8	AID_TOR_NETNAME	Netname of TOR
(6D)	CHARACTER	8	AID_TOR_NETNAMEO	Original TOR netname
(75)	CHARACTER	1	*	Reserved
(76)	HALFWORD	2	AID_START_DATA_LEN	Start data length
(78)	UNSIGNED	4	AID_CHANNEL_TOKEN	Channel Token
(7C)	CHARACTER	12	*	Reserved
(88)	CHARACTER	4	AIDLTID	Unknown TERMID
(8C)	CHARACTER	12	AIDVDATA	Variant structure, depending on AIDTYPE
(8C)	CHARACTER	12	AIDBMS_STRUCTURE	AIDVDATA when AIDTYPE=AIDBMS
(8C)	BIT(8)	1	AIDOCTYP	Type of operator check reqd

Table 2. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8C)	1111 11..		*	Reserved
(8C)	.... ..1.		AIDOCCL	Check operator class
(8C)	1		AIDOCID	Check operator id
(8D)	CHARACTER	3	AIDOPCHK	Operator check field
(90)	CHARACTER	4	AIDBMSTS	BMS time stamp
(94)	BIT(8)	1	AIDBMSCC	BMS control information
(94)	1...		AIDBMSMT	Message title is present
(94)	.111 1111		*	Reserved
(95)	CHARACTER	3	*	Reserved
(8C)	CHARACTER	12	AIDCRRD_STRUCTURE	AIDVDATA when AIDTYPE=AIDCRRD
(8C)	CHARACTER	8	AIDNETNA	Netname
(94)	CHARACTER	4	*	Reserved
(8C)	CHARACTER	12	AIDPUT_STRUCTURE	AIDVDATA when AIDTYPE = AIDPUT
(8C)	CHARACTER	8	*	Reserved
(94)	ADDRESS	4	AID_TRANNUM	TRANNUM of transaction that has been attached for this AID

Constants

Table 3.

Len	Type	Value	Name	Description
Length of the AID control block				
4	DECIMAL	152	AIDAD	AID length
Possible values of AIDTYPE				
1	HEX	80	AIDBMS	BMS - schedule request
1	HEX	50	AIDPUT	PUT - start with data
1	HEX	40	AIDINT	INT - start without data
1	HEX	10	AIDTDP	TDP - schedule request
1	HEX	08	AIDISC	ISC - allocate request
1	HEX	04	AIDCRRD	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

AFCB - Authorized function blocks

```
CONTROL BLOCK NAME = DFHAFCB/AFTSTART/DFHAFCS.
DESCRIPTIVE NAME = CICS TS (SVC) Authorised Function Blocks.
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      Restricted Materials of IBM
     5655-Y04
```

```
     (C) Copyright IBM Corp. 1986, 2013
 FUNCTION = AUTHORISED FUNCTION CONTROL BLOCK.
   The CICS AFCB/AFT/AFCS structure consists of three types
   of control block:
   1. The AFCS. One per CICS Address Space.
      Addressed from AFTAFCS.
   2. The AFCB/AFT. One per authorised TCB.
      Addressed from TCBCAUF.
   In a Version 3 AFCB, what was previously the AFCB trailer
   at a variable offset from the AFCB, is now a prolog at a
   fixed negative offset, which can be addressed using "long
   displacement" instructions.
      A(AFT) = A(AFCB)-64.
 LIFETIME = CICS Job.
 STORAGE CLASS =
 LOCATION =
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
                                    Also add AFLODRCB (for R32635)
       R63383 680 130515 HD0EGMA : Add SO domain SVC
 PRODUCT-SENSITIVE PROGRAMMING INTERFACE
 The following field forms part of the Product-Sensitive
 Programming Interface:
 AFCSA
```

Table 4.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	240	DFHAFCB	
(0)	CHARACTER	4	AFIDENT	Eyecatcher: 'AFCX'
(4)	UNSIGNED	1	AFVER	Version and Release level.
(5)	UNSIGNED	1	AFSVCNO	CICS SVC no.
(6)	HALFWORD	2	AFLENG	The value that must be added to the address of AFLSTBEG to obtain the address of the AFCB prolog. Negative in V3 AFCBs.
(8)	ADDRESS	4	AFCSA	ADDRESS OF CICS CSA
(C)	ADDRESS	4	AFAICB	ADDRESS OF APPL INTERFACE BLOCK
(10)	CHARACTER	224	AFLSTBEG	START OF ENTRIES
(10)	ADDRESS	4	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

Table 4. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 4. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B0)	ADDRESS	4	AFXCINIT	INIT for EXCI environment
(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)	ADDRESS	4	AFSOSVC	SO domain SVC routine
(EC)	ADDRESS	4	*	Reserved
(F0)	CHARACTER	0	*	Ensure Double-Word length.

Table 5.

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

```
                    AUTHORISED FUNCTION COMMON
                          CONTROL BLOCK
The authorised function common control block (AFCS) is used
to control the authorised functions of the operating system.
It is an anchor for the storage that can be shared by tasks
using the CICS SVC paths. There is one AFCS per CICS address
```

```
space. Each AFCB points to the single AFCS.
Storage for the AFCS is obtained at initialization by DFHCSVC
(MVS getmain from key 0 subpool 253), invoked from the Kernel.
```

Table 6.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	136	DFHAFCS	Auth Functions Common CB.
(0)	CHARACTER	4	AFCSID	Eye-catcher: 'AFCS'
(4)	UNSIGNED	1	AFCSVER	Version Number
(5)	BIT(8)	1	AFCS_FLAGS	Various Flags
(5)	1...		AFCS_ARM_REGISTERED	ARM register status
(5)	.1..		AFCS_3QSSBKND_XM_ SUPPORTED	When 1, DFH3QSS's back-end routine resides in commonly-addressable storage and supports callers in cross-memory mode (PASN ¬= HASN)
(6)	HALFWORD	2	AFCSLEN	Length of this Block.
(8)	ADDRESS	4	AFCSKCB	Kernel Anchor.
(C)	HALFWORD	2	AFCSCSVC	CICS Service SVC: X'0ANN'.
(E)	UNSIGNED	1	AFCSXRFD	If non-zero, some WTI Services Disabled
(F)	UNSIGNED	1	AFCS_CICS_KEY	CICS key N in X'N0' format
(10)	ADDRESS	4	AFCSSEC	Security Block Anchor.
(14)	ADDRESS	4	AFCSDSP	Dispatcher global anchor (DSAUSB)
(18)	ADDRESS	4	AFCSCSAA	AP Domain CSA Address.
(1C)	CHARACTER	8	AFCSGAPD	Generic Applid.
(24)	CHARACTER	8	AFCSSAPD	Specific Applid.
(2C)	CHARACTER	8	AFCSCLTN	CLT Name.
(34)	ADDRESS	4	AFCSMFI	Monitoring Block Anchor.
(38)	CHARACTER	8	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

Table 6. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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	AFLODRCB	Loader Authorised Facilities Anchor
(80)	ADDRESS	4	AFCSVAT	Vendor Anchor Table
(84)	ADDRESS	4	*	reserved
(88)	CHARACTER	0	*	alignment

Constants

Table 7.

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

APSTG - Application domain global statistics

```
CONTROL BLOCK NAME = DFHAPSTG
DESCRIPTIVE NAME = CICS TS AP Statistics Global Storage Block
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1987, 2016
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
-------------------------------------------------------------------
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 8.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	14696	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 (14)	
(18)	CHARACTER	8	RESOURCE_NAME	
(20)	CHARACTER	8	RESOURCE_MODULE	
(28)	ADDRESS	4	RESOURCE_MODULE_ ENTRY_POINT	
(2C)	BIT(8)	1	RESOURCE_STATUS	
(168)	CHARACTER	14336	STATS_BUFFER_LARGE	

Constants

Table 9.

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	

Table 9. (continued)

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	14696	CONTROL_BLOCK_LENGTH	
Total number of mappings is the number of resources in the AP domain for which statistics are collected.				
2	DECIMAL	14	TOTAL_MAPPINGS	
Offsets in mapping used for module loading optimisation.				
2	DECIMAL	6	TERMINAL_MAP_OFFSET	*
2	DECIMAL	8	VTAM_MAP_OFFSET	*

APXDC - Application domain trandef extension

```
CONTROL BLOCK NAME = DFHAPXDC
DESCRIPTIVE NAME = CICS TS (AP) Transaction definition extension
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1992, 1998
FUNCTION = This copybook describes the AP domain transaction
           definition related control block.
      This copy book describes the control block which is
      anchored from the AP domain token in the transaction
      definition. The main purpose of the control block is
      to allow AP domain to optimize AP actions at attach/
      detach.
      There will be one instance of this control block for
      every transaction definition instance in the region.
LIFETIME = associated with a transaction definition instance
STORAGE CLASS = SUBPOOL(CSZAPXDS)
                CICS key, 31 bit, Fixed length
LOCATION = This control block addressed via the first word in
           the AP domain transaction definition related token
           and can be addressed using the 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 10.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	72	DFHAPXDC	AP trandef extension
(0)	CHARACTER	16	APXD_EYE	Standard eye catcher
(0)	HALFWORD	2	APXD_EYE_LEN	control block length
(2)	CHARACTER	14	APXD_EYE_NAME	>DFHAP_APXD

Table 10. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10)	FULLWORD	4	APXD_COUNT	check count for serviceability
(14)	BIT(8)	1	APXD_FLAGS1	Various flags
(14)	1...		APXD_CEE_ENABLED	Txn uses CEE work area
(14)	.1..		APXD_TDLA	Txn uses taskdataloc(any)
(15)	BIT(8)	1	*	Reserved
(16)	UNSIGNED	2	APXD_USTG_SIZE	total size of AP_USER_TXN
(18)	CHARACTER	8	APXD_SUBPOOL	TCA subpool token
(20)	CHARACTER	8	APXD_PPF	Profile area
(20)	UNSIGNED	4	APXD_PPF_CHANGECOUNT	validation counter
(24)	ADDRESS	4	APXD_PPF_PTR	profile address
(28)	CHARACTER	8	APXD_TRPPF	Tran routing profile area
(28)	UNSIGNED	4	APXD_TRPPF_ CHANGECOUNT	validation counter
(2C)	ADDRESS	4	APXD_TRPPF_PTR	profile address
(30)	CHARACTER	8	APXD_TCTS	Tran routing tcse area
(30)	UNSIGNED	4	APXD_TCTS_CHANGECOUNT	validation counter
(34)	ADDRESS	4	APXD_TCTS_PTR	TCSE address
(38)	CHARACTER	8	APXD_D2_TOKEN	CICS/DB2 token
(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

ASGDS - Asynchronous services Statistics

```
CONTROL BLOCK NAME = DFHASGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHASGPS
DESCRIPTIVE NAME = CICS TS AS Domain (AS) Global Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
      5655-Y04
     (C) Copyright IBM Corp. 2016, 2017
FUNCTION =
       This data area contains the asynchronous service global
       statistics provided by the AS 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 AS 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 DFHASGDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 11.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHASGDS	AS Domain Global stats record
(0)	HALFWORD	2	ASGDS_LEN	AS Domain stats record length
(2)	ADDRESS	2	ASGDS_ID	AS Domain stats id
(4)	CHARACTER	1	ASGDS_VERS	AS Domain stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	ASG_RUN_COUNT	Run API count
(C)	FULLWORD	4	ASG_FETCH_COUNT	Fetch APIs count
(10)	FULLWORD	4	ASG_FREE_COUNT	Free APIs count
(14)	FULLWORD	4	ASG_RUN_DELAY_COUNT	Count of Run API being delayed
(18)	FULLWORD	4	ASG_PARENTS_DELAYED_ CUR	Count of parents being delayed
(1C)	FULLWORD	4	ASG_PARENTS_DELAYED_ PEAK	Peak parents being delayed
(20)	FULLWORD	4	ASG_CHILDREN_CUR	Count of running children
(24)	FULLWORD	4	ASG_CHILDREN_PEAK	Peak running children
(28)	CHARACTER	16		Reserved
(28)	..11 1...		ASGDS_END	"*"
(28)	..11 1...		ASGDS_LENGTH	"*-ASGDS_LEN" AS Domain Global record length
Constants that denote a AS domain global stats record				
(28)	1..1 .1.1		ASGIDE	"149" ASYNCSERVICE global stats id
(28)	1		ASG_VERS	"X'01'" Record version number

A03 - VTAM global statistics

```
CONTROL BLOCK NAME = DFHA03DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA03PS
DESCRIPTIVE NAME = CICS TS VTAM global Statistics.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 2017
```

```
FUNCTION = This DSECT describes VTAM global statistics.
       The data described by this DSECT is placed in storage by
       DFHSTVT, one of the the statistics modules in the AP domain.
       It contains VTAM global statistics.
       The same DSECT describes the system and user copies of the
       statistics. Several copies of the statistics may exist until
       the callers request has been 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)	...1 .1.1		A03IDE	"0021" VTAM global stats mask
(2)	ADDRESS	2	A03ID	VTAM global storage id
(2)	1		A03VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A03DVERS	VTAM stats version number
(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

Table 12. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(38)	BITSTRING	1	A03BMVL	BMS 3270 Validation On/Off
(38)	1		A03VON	"X'01'" Validation On
(38)	....		A03VOFF	"X'00'" Validation Off
(39)	BITSTRING	3		Reserved
(3C)	FULLWORD	4	A03BMIG	BMS 3270 ignored count
(40)	FULLWORD	4	A03BMLG	BMS 3270 logged count
(44)	FULLWORD	4	A03BMAB	BMS 3270 abended count
(44)	.1.. 1...		A03END	"*"
(44)	.1.. 1...		A03CLEN	"*-A03LEN" Length of DSECT

A04 - Autoinstall statistics

```
CONTROL BLOCK NAME = DFHA04DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA04PS
DESCRIPTIVE NAME = CICS TS Autoinstall Statistics.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 2002
FUNCTION = This DSECT describes Autoinstall statistics.
           + Shipped remote definition statistics.
       The data described by this DSECT is placed in storage by
       DFHAPST, the statistics module in the AP domain.
       It contains autoinstall statistics.
       The same DSECT describes the system and user copies of the
       statistics. Several copies of the statistics may exist until
       the callers request has been 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)	...1 1...		A04IDE	"0024" Autoinstall global stats mask
(2)	ADDRESS	2	A04ID	Autoinstall global storage id
(2)	1		A04VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A04DVERS	stats version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	A04VADAT	Total attempts
(C)	HALFWORD	2	A04VADSH	Times setlogon hold issued
(E)	CHARACTER	2		Reserved
(10)	FULLWORD	4	A04VADRJ	Total rejected
(14)	FULLWORD	4	A04VADLO	Total deleted
(18)	HALFWORD	2	A04VADPK	Peak concurrent attempts
(1A)	HALFWORD	2	A04VADPX	Times peak reached
(1C)	FULLWORD	4	A04VADQT	No. queued logons
(20)	HALFWORD	2	A04VADQK	Peak of Q'd logons
(22)	HALFWORD	2	A04VADQX	No. times peak is reached
Remote statistics - shipped definitions				
(24)		4	A04RDINT	Shipped delete interval
(28)		4	A04RDIDL	Shipped delete idle time
(2C)	FULLWORD	4	A04SKBLT	Remote terminals built
(30)	FULLWORD	4	A04SKINS	Remote terminals installed
(34)	FULLWORD	4	A04SKDEL	Remote terminals deleted
(38)	FULLWORD	4	A04TIEXP	Times interval expired
(3C)	FULLWORD	4	A04RDREC	# remdels received
(40)	FULLWORD	4	A04RDISS	# remdels issued
(44)	FULLWORD	4	A04RDDEL	# remdel deletes
(48)	FULLWORD	4	A04CIDCT	Current idle count
(4C)	CHARACTER	8	A04CIDLE	Current idle time
(54)	CHARACTER	8	A04CMAXI	Current maximum idle time
(5C)	FULLWORD	4	A04TIDCT	Total idle count
(60)	CHARACTER	8	A04TIDLE	Total idle time
(68)	CHARACTER	8	A04TMAXI	Maximum idle time
(68)	.111		A04END	"*"
(68)	.111		A04CLEN	"*-A04LEN" Length of DSECT

A06 - Terminal statistics

```
CONTROL BLOCK NAME = DFHA06DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA06PS
DESCRIPTIVE NAME = CICS TS Terminal Statistics.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 1995
FUNCTION = This DSECT describes the terminal statistics maintained
           in the AP domain.
           The data represents the statistics maintained for each
           terminal. It is used by DFHAPST to map the data in the
           statistics domain call data buffer. It is also used
           by DFHSTUP and user programs to map the same data.
LIFETIME = Duration of the domain call.
LOCATION = Caller is passed a pointer to the head of the block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = DFHTCTTE TCTLENP
                     DFHTCTTE TCTTETI
                     DFHTCTTE TCTTENI
                     DFHTCTTE TCTTETO
                     DFHTCTTE TCTTETE
                     DFHTCTTE TCTTEOT
                     DFHTCTTE TCTTEOE
                     DFHTCTTE TCTTESVC
                     DFHTCTTE TCTETCNT
                     DFHTCTTE TCTEMCNT
                     DFHTCTTE TCTECCNT
                     DFHTCTTE TCTTETT
                     DFHTCTTE TCTEAMIB
    GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
```

Table 14.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHA06DS	Terminal Stats DSECT (RESID & TOTAL)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A06LEN	Length of data area
(0)	..1. ..1.		A06IDR	"34" Terminal RESID stats id mask
(0)	.1.1 ..1.		A06IDL	"82" BTAM line stats id mask.
The next field should be loaded with one of the two previous values				
(2)	ADDRESS	2	A06ID	Terminal stats id
(2)	1		A06VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A06DVERS	Terminal statistics version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	4	A06TETI	Terminal id

Table 14. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C)	BITSTRING	1	A06TETT	Terminal type (cf TCTTTET)
(D)	BITSTRING	1	A06EAMIB	Access method (cf TCTEAMIB)
(E)	CHARACTER	2		Reserved
(10)		4	A06LENP	Number of polls
(14)	BITSTRING	4	A06TENI	Input messages
(18)	BITSTRING	4	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)	.11. 11..		A06END	"*"
(64)	.11. 11..		A06CLEN	"*-A06LEN" Length of DSECT

A08 - LSR pool statistics

```
CONTROL BLOCK NAME = DFHA08DS
NAME OF MATCHING PLX CONTROL BLOCK = DFHA08PS
DESCRIPTIVE NAME = CICS TS Statistics for LSR Pools.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 1997
FUNCTION = This data block describes the LSR Pool Statistics
           for a specified LSR Pool and totals for all pools.
           The data described here is placed in storage by DFHAPST.
           This DSECT is also used by DFHSTUP and user programs to
```

```
           to map the statistics block.
 LIFETIME = The storage area is created when a request for AP
           domain File Control statistics is received. It is
           released when the caller has acknowledged receipt of
           the data.
 LOCATION = The caller is passed a pointer to the head of the block.
 INNER CONTROL BLOCKS = None
 NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES = None
     DATA AREAS = None
     CONTROL BLOCKS = DFHFCTSR FCTSRPID
                      DFHFCSBK FSCBKCTD
                      DFHFCSBK FSCBKDTD
                      DFHFCSBK 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)	..1. .111		A08IDR	"39" LSR pool stats RESID id mask
The next field should be loaded with the previous value				
(2)	ADDRESS	2	A08ID	LSR pool id
(2)	1		A08VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A08DVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(8)	ADDRESS	1	A08SRPID	LSR pool number
(9)	BITSTRING	1	A08FLAGS	Flags
(9)	1...		A08IDSEP	"X'80'" Separate index and data pools
(A)	CHARACTER	2		Reserved
(C)	CHARACTER	8	A08LBKCD	Time pool created (Local STCK)
(14)	CHARACTER	8	A08LBKDD	Time pool deleted (Local STCK)
(1C)	CHARACTER	8	A08GBKCD	Time pool created (GMT STCK)

Table 15. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(24)	CHARACTER	8	A08GBKDD	Time pool deleted (GMT STCK)
(2C)	HALFWORD	2	A08BKKYL	Max key length
(2E)	HALFWORD	2	A08BKSTN	No. of strings
(30)	HALFWORD	2	A08BKHSW	Peak reqs waiting on string
(32)	HALFWORD	2		Reserved
(34)	FULLWORD	4	A08BKTSW	Total No. reqs waiting on string
(38)	HALFWORD	2	A08BKHAS	Peak No. conc active FC strings
(3A)	HALFWORD	2		Reserved
(3A)	.... 1.11		A08NBS	"11" Number of buffer sizes
(3C)	FULLWORD	4	A08TOBFN_DATA	Total no. of data buffers
(40)	FULLWORD	4	A08TOHBN_DATA	Total data hiperspace buffs
(44)	FULLWORD	4	A08TOBFF_DATA	Total no. successful look asides
(48)	FULLWORD	4	A08TOFRD_DATA	Total no. buffer reads
(4C)	FULLWORD	4	A08TOUIW_DATA	Total no. user initiated writes
(50)	FULLWORD	4	A08TONUW_DATA	Total no. non-user initiated writes
(54)	FULLWORD	4	A08TOCRS_DATA	Total no. successful CREAD
(58)	FULLWORD	4	A08TOCWS_DATA	Total no. successful CWRITE
(5C)	FULLWORD	4	A08TOCRF_DATA	Total no. failing CREAD
(60)	FULLWORD	4	A08TOCWF_DATA	Total no. failing CWRITE
(64)	FULLWORD	4	A08TOBFN_INDX	Total no. of index buffers
(68)	FULLWORD	4	A08TOHBN_INDX	Total indx hiperspace buffs
(6C)	FULLWORD	4	A08TOBFF_INDX	Total no. successful look asides
(70)	FULLWORD	4	A08TOFRD_INDX	Total no. buffer reads
(74)	FULLWORD	4	A08TOUIW_INDX	Total no. user initiated writes
(78)	FULLWORD	4	A08TONUW_INDX	Total no. non-user initiated writes
(7C)	FULLWORD	4	A08TOCRS_INDX	Total no. successful CREAD
(80)	FULLWORD	4	A08TOCWS_INDX	Total no. successful CWRITE
(84)	FULLWORD	4	A08TOCRF_INDX	Total no. failing CREAD
(88)	FULLWORD	4	A08TOCWF_INDX	Total no. failing CWRITE
(88)	1... 11..		A08END	"*"
(88)	1... 11..		A08CLEN	"*-A08LEN" Length of common part of DSECT
(8C)	CHARACTER	1	A08BSTAT	Buffer size statistics for data and index buffers

Table 15. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	..1. 1...		A08BEND	"*" End of Buffer stats
(24)	..1. 1...		A08BLEN	"*-A08BSSDS" Length of stats for a buffer size

A09 - File specific statistics

```
CONTROL BLOCK NAME = DFHA09DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA09PS
DESCRIPTIVE NAME = CICS TS File specific Statistics for
                   LSR Pools.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 1991
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)	..1. 1...		A09IDR	"40" LSR pool file stats RESID id mask
(0)	..1. 1..1		A09IDT	"41" LSR pool file stats TOTALS id mask
The next field should be loaded with one of the two previous values				
(2)	ADDRESS	2	A09ID	LSR pool id
(2)	1		A09VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A09DVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(8)	HALFWORD	2	A09SRPID	LSR pool number
(A)	CHARACTER	8	A09DSID	Filename
(12)	HALFWORD	2	A09DBN	Data buffer size
(14)	HALFWORD	2	A09IBN	Index buffer size
(16)	HALFWORD	2		Reserved
If this is a totals record only the next field contains data				
(18)	FULLWORD	4	A09TBW	Total buffer waits
(1C)	HALFWORD	2	A09HBW	Highest buffer waits
(1C)	...1 111.		A09END	"*"
(1C)	...1 111.		A09CLEN	"*-A09LEN" Length of DSECT

A14 - ISC/IRC statistics

```
CONTROL BLOCK NAME = DFHA14DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA14PS
DESCRIPTIVE NAME = CICS TS ISC/IRC Statistics - system entries.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
```

```
       5655-Y04
       (C) Copyright IBM Corp. 1986, 2009
 FUNCTION = This DSECT describes ISC/IRC statistics.
       The data described by this DSECT is placed in storage by
       DFHSTLK, the statistics module in the AP domain.
       It contains IRC Batch statistics.
       The same DSECT describes the system and user copies of the
       statistics. Several copies of the statistics may exist until
       the callers request has been 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

Table 18. (continued)

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

Table 18. (continued)

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

Table 18. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(104)	CHARACTER	8	A14_INSTALL_USERID	Install userid
(104)		0	A14END	"*"
(104)		0	A14CLEN	"*-A14LEN" Length of DSECT
Equates for testing A14ACCM. (Access Method)				
(104)	1		A14VTAM	"1"
(104)	.... ..1.		A14IRC	"2"
(104)	11		A14XM	"3"
(104)	.... .1..		A14XCF	"4"
Equates for testing A14EFLGS. (Protocol)				
(104)	1		A14APPC	"1"
(104)	.... ..1.		A14LU61	"2"
(104)	11		A14EXCI	"3"
The following values relate to the RDO audit information Change Agents				
(104)	1		A14_CSDAPI_CHANGE	"0001" CSD API
(104)	.... ..1.		A14_CSDBATCH_CHANGE	"0002" DFHCSDUP
(104)	11		A14_DREPAPI_CHANGE	"0003" DREP API
(104)	.... .1..		A14_CREATE_CHANGE	"0004" EXEC CREATE SPI
(104)	.... .11.		A14_AUTOINSTALL_ CHANGE	"0006" AUTOINSTALL Install Agents
(104)	1		A14_CSDAPI_INSTALL	"0001" CSD API
(104)	.... .1..		A14_CREATE_INSTALL	"0004" EXEC CREATE SPI
(104)	.... .1.1		A14_GRPLIST_INSTALL	"0005" GRPLIST
(104)	.... .11.		A14_AUTOINSTALL_ INSTALL	"0006" AUTOINSTALL

A16 - Table manager statistics

```
CONTROL BLOCK NAME = DFHA16DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA16PS
DESCRIPTIVE NAME = CICS TS Statistics for Table manager
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 1998
FUNCTION = This data block describes the global table manager
           Statistics.
           The data described here is placed in storage by DFHAPST
           This DSECT is also used by DFHSTUP and user programs to
           to map the statistics block.
LIFETIME = The storage area is created when a request for AP
           domain Table manager statistics is received. It is
           released when the caller has acknowledged receipt of the
           data.
LOCATION = The caller is passed a pointer to the head of the block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
```

```
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES = None
     DATA AREAS = None
     CONTROL BLOCKS = DFHTMSKT SKTNUMDS
                      DFHTMSKT SKTLNTH
                      DFHTMSKT SKTINFO
                      DFHTMSSA TMNDESG
     GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
```

Table 19.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHA16DS	Table manager statistics (GLOBAL)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A16LEN	Length of data area
(0)	..11 1111		A16IDE	"63" Table manager stats id mask
(2)	ADDRESS	2	A16ID	Table manager id
(2)	.... ..1.		A16VERS	"X'02'" DSECT version number mask
(4)	CHARACTER	1	A16DVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(5)	...1 ...1		A16NTAB	"17" Number of tables
(5)	.... 1...		A16END	"*"
(5)	.... 1...		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)	.... 1...		A16SEND	"*"
(4)	.... 1...		A16SCLEN	"*-A16STATS" Length of DSECT

A17 - File control statistics

```
CONTROL BLOCK NAME = DFHA17DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA17PS
DESCRIPTIVE NAME = CICS TS File control Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 2014
FUNCTION = This DSECT describes File Control statistics.
       The data described by this DSECT is placed in storage by
       DFHAPST, the statistics module in the AP domain.
       It contains File Control statistics.
       The same DSECT describes the system and user copies of the
```

```
       statistics. Several copies of the statistics may exist until
       the callers request has been 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)
          R65204 690 130401 HD3BADW : Support bundle defined FILE's
```

Table 21.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHA17DS	File control statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A17LEN	Length of data area
(0)	.1.. ..11		A17IDR	"0067" File control stats mask
The next field should be loaded with the previous value.				
(2)	ADDRESS	2	A17ID	File control id
(2)	1		A17VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A17DVERS	File stats version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	A17FNAM	File name
(10)	CHARACTER	1	A17FLOC	Set to "R" if remote
(11)	CHARACTER	1	A17DT	Set to "R", "S", "T", "L", "K" or "X" if data table fields present
(11)	11.1 1..1		A17DTRMT	"C'R'" Table fields for remote table
(11)	111. ..1.		A17DTASS	"C'S'" Table fields for associated file
(11)	111. ..11		A17DTPRS	"C'T'" SDT fields present
(11)	11.1 ..11		A17DTCFL	"C'L' Coupling Facility data table fields present(locking model)

Table 21. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(11)	11.1 ..1.		A17DTCFC	"C'K'" Coupling Facility data table fields present(contention model)
(11)	111. .111		A17DTAIX	"C'X'" Table fields for updates via AIX
(12)	CHARACTER	1	A17DSRLS	RLS/Non-RLS Indicator "R" = RLS mode blank = non-RLS mode
(12)	11.1 1..1		A17RLS	"C'R'" RLS file
(12)	.1..		A17NORLS	"C' '" non-RLS file
(13)	CHARACTER	5		Reserved
(18)		4	RESFLD1	Reserved
(1C)		4	RESFLD2	Reserved
(20)	CHARACTER	44	A17DSNAM	Dataset name
(4C)	FULLWORD	4	A17DSRD	GET requests
(50)	FULLWORD	4	A17DSGU	GET update requests
(54)	FULLWORD	4	A17DSBR	BROWSE requests
(58)	FULLWORD	4	A17DSWRA	ADD requests
(5C)	FULLWORD	4	A17DSWRU	UPDATE requests
(60)	FULLWORD	4	A17DSDEL	DELETE requests
(64)	FULLWORD	4		Reserved
(68)	FULLWORD	4	A17DSXCP	VSAM EXCP requests - data
(6C)	FULLWORD	4	A17DSIXP	VSAM EXCP requests - index
(70)	FULLWORD	4	A17DSTSW	Wait on string total
(74)	HALFWORD	2	A17DSHSW	Wait on string highest
(76)	HALFWORD	2		Reserved
(78)	CHARACTER	1	A17DTTYP	Set to "C", "S", "U", "X", "L" or "K" for close
(78)	11.. ..11		A17DTTC	"C'C'" CICS maintained table close
(78)	111. ..1.		A17DTTS	"C'S'" USER table source close
(78)	11.1 .111		A17DTTP	"C'P'" CICS table partial close
(78)	111. .1..		A17DTTU	"C'U'" USER maintained table close
(78)	11.1 ..11		A17DTTL	"C'L' Coupling Facility table close (locking model)
(78)	11.1 ..1.		A17DTTK	"C'K'" Coupling Facility table close (contention model)
(79)	CHARACTER	3		Reserved
(7C)	FULLWORD	4	A17DTRDS	Read/browse requests

Table 21. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(80)	FULLWORD	4	A17DTRNF	Source reads issued
(84)	FULLWORD	4	A17DTAVR	ADDs resulting from READs
(88)	FULLWORD	4	A17DTADS	ADD requests
(8C)	FULLWORD	4	A17DTARJ	ADDs rejected by exit
(90)	FULLWORD	4	A17DTATF	ADDs when table full
(94)	FULLWORD	4	A17DTRWS	REWRITE requests
(98)	FULLWORD	4	A17DTDLS	DELETE requests
(9C)	FULLWORD	4	A17DTSHI	Highest table record count
(A0)	FULLWORD	4	A17DTSIZ	Current table record count
(A4)	FULLWORD	4	A17DTALT	Storage allocated - total (KB)
(A8)	FULLWORD	4	A17DTUST	Storage in-use - total (KB)
(AC)	FULLWORD	4	A17DTALE	Storage allocated - entries (KB)
(B0)	FULLWORD	4	A17DTUSE	Storage in-use - entries (KB)
(B4)	FULLWORD	4	A17DTALI	Storage allocated - index (KB)
(B8)	FULLWORD	4	A17DTUSI	Storage in-use - index (KB)
(BC)	FULLWORD	4	A17DTALD	Storage allocated - data (KB)
(C0)	FULLWORD	4	A17DTUSD	Storage in-use - data (KB)
(C4)	FULLWORD	4	A17DTRRS	Read Retries for a SDT
(C8)	HALFWORD	2	A17DSDNB	No Buffers - Data
(CA)	HALFWORD	2	A17DSINB	No Buffers - Index
(CC)	BITSTRING	1	A17POOL	LSRPOOL Id
(CD)	BITSTRING	1		Reserved
(CE)	HALFWORD	2	A17STRNO	No Strings
(D0)	CHARACTER	8	A17RNAME	Remote Name
(D8)	CHARACTER	4	A17RSYS	Remote Sysid
(DC)	CHARACTER	1	A17DSTYP	Dataset Type
(DD)	CHARACTER	3		Reserved
(E0)	CHARACTER	44	A17BDSNM	Base Dataset Name
(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

Table 21. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(138)	FULLWORD	4	A17DTCON	Number of CHANGED responses for a CFDT using contention, number of lock waits for a CFDT using locking.
(13C)	CHARACTER	8	A17DTCFP	Coupling Facility Data Table Pool Name
(144)	FULLWORD	4	A17DTLDS	Number of LOADING responses
(148)	FULLWORD	4	A17FCXCC	No Exclusive Control Conflicts
(14C)	CHARACTER	8	A17_FILE_DEFINE_ SOURCE	Group installed from
(154)	BITSTRING	8	A17_FILE_CHANGE_TIME	Change/create time
(15C)	CHARACTER	8	A17_FILE_CHANGE_ USERID	Change userid
(164)	BITSTRING	2	A17_FILE_CHANGE_AGENT	Change agent
(166)	BITSTRING	2	A17_FILE_INSTALL_ AGENT	Install agent
(168)	BITSTRING	8	A17_FILE_INSTALL_TIME	Install/Create time
(170)	CHARACTER	8	A17_FILE_INSTALL_ USERID	Install userid
(170)		0	A17END	"*"
(170)		0	A17CLEN	"*-A17LEN" Length of DSECT
Equates to test A17_FILE_CHANGE_AGENT				
(170)	1		A17_FILE_CSDAPI_ CHANGE	"X'01'" Change Agent - CSD API
(170)	.... ..1.		A17_FILE_CSDBATCH_ CHANGE	"X'02'" Change Agent - DFHCSDUP
(170)	11		A17_FILE_DREPAPI_ CHANGE	"X'03'" Change Agent - DREP API
(170)	.... .1..		A17_FILE_CREATE_ CHANGE	"X'04'" Change Agent - CREATE SPI
(170)	.... .111		A17_FILE_SYSTEM_ CHANGE	"X'07'" Change Agent - SYSTEM
(170)	.... 1.1.		A17_FILE_TABLE_CHANGE	"X'0A'" Change Agent - TABLE
Equates to test A17_FILE_INSTALL_AGENT				
(170)	1		A17_FILE_CSDAPI_ INSTALL	"X'01'" Install Agent - CSD API
(170)	.... .1..		A17_FILE_CREATE_ INSTALL	"X'04'" Install Agent - CREATE SPI
(170)	.... .1.1		A17_FILE_GRPLIST_ INSTALL	"X'05'" Install Agent - GRPLIST
(170)	.... .111		A17_FILE_SYSTEM_ INSTALL	"X'07'" Install Agent - SYSTEM
(170)	.... 1..1		A17_FILE_BUNDLE_ INSTALL	"X'09'" Install Agent - BUNDLE

Table 21. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(170)	.... 1.1.		A17_FILE_TABLE_ INSTALL	"X'0A'" Install Agent - TABLE

A20 - ISC/IRC mode entry statistics

```
CONTROL BLOCK NAME = DFHA20DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA20PS
DESCRIPTIVE NAME = CICS TS ISC/IRC Statistics - mode entries.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 1994
FUNCTION = This DSECT describes ISC/IRC mode entry statistics.
       The data described by this DSECT is placed in storage by
       DFHSTLK, the statistics module in the AP domain.
       It contains IRC mode entry statistics.
       The same DSECT describes the system and user copies of the
       statistics. Several copies of the statistics may exist until
       the callers request has been 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)	.1.. 11..		A20IDR	"0076" ISC/IRC RESID mode entry stats mask
(0)	.1.. 11.1		A20IDT	"0077" ISC/IRC Stats Totals mask
The next field should be loaded to one of the two previous values				
(2)	ADDRESS	2	A20ID	ISC/IRC mode entry id
(2)	1		A20VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	A20DVERS	ISC/IRC mode entry stats vers No.
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	4	A20SYSN	System name
(C)	CHARACTER	8	A20MODE	Mode name
(14)	HALFWORD	2	A20ESTAM	Max outstanding allocates
(16)	HALFWORD	2	A20E2HWM	Max secondaries
(18)	HALFWORD	2	A20EBHWM	Max bids
(1A)	HALFWORD	2	A20E1HWM	Peak contention losers
(1C)	FULLWORD	4	A20ES1	ATIs satisfied by primaries
(20)	FULLWORD	4	A20ES2	ATIs satisfied by secondaries
(24)	FULLWORD	4	A20ESBID	Bids sent
(28)	FULLWORD	4	A20ESTAS	Total allocates
(2C)	FULLWORD	4	A20ESTAQ	Queued allocates
(30)	FULLWORD	4	A20ESTAF	Failed link allocates
(34)	FULLWORD	4	A20ESTAO	Failed - other reasons
(38)	FULLWORD	4	A20ESTAG	Generic allocates
(3C)	FULLWORD	4	A20ESTAP	Specific allocates
(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

Table 22. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4E)	HALFWORD	2	A20ECONL	Current CNOS contention losers
(50)	HALFWORD	2	A20E1RY	Primaries currently used
(52)	HALFWORD	2	A20E2RY	Secondaries currently used
(52)	.1.1 .1..		A20END	"*"
(52)	.1.1 .1..		A20CLEN	"*-A20LEN" Length of DSECT

A21 - ISC LUIT & SNA management statistics

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

Table 23.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	36	DFHA21PS	ISC Statistics
(0)	HALFWORD	2	A21_STATS_LENGTH	Length of data area
(2)	HALFWORD	2	A21_STATS_ID	Statistics id
(4)	UNSIGNED	1	A21_STATS_VERSION	Stats version number
(5)	UNSIGNED	3	*	Reserved

Table 23. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8)	UNSIGNED	2	*	Reserved
(A)	HALFWORD	2	A21_SIT_LUIT_TIME	Delay time for LUIT table
(C)	FULLWORD	4	*	Reserved
DELETED BY APAR				
(10)	FULLWORD	4	*	Reserved
DELETED BY APAR				
(14)	FULLWORD	4	*	Reserved
DELETED BY APAR				
(18)	FULLWORD	4	A21_LUIT_TOTAL_REUSES	Total number of entries * * reused in LUIT table
(1C)	FULLWORD	4	A21_LUIT_TOTAL_ TIMEOUTS	Total number of entries * * timed out in LUIT table
(20)	FULLWORD	4	A21_LUIT_AV_REUSE_ TIME	Average reuse time between * * entries in the LUIT table

Constants

Table 24.

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

A22 - FEPI pool statistics

```
CONTROL BLOCK NAME = DFHA22DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA22PS
DESCRIPTIVE NAME = CICS TS FEPI pool statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1993
FUNCTION =
       This data block describes the block of storage containing
       the statistics for a FEPI pool.
       The data described by this DSECT is placed in storage by
       DFHAPST, the statistics module in the AP domain.
       The same DSECT describes the system and user copies of the
       statistics. Several copies of the statistics may exist until
       the callers request has been 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)	...1		A22IDR	"0016" FEPI pool RESID stats mask
(2)	ADDRESS	2	A22ID	FEPI pool id
(2)	1		A22VERS	"X'01'" DSECT version number
(4)	CHARACTER	1	A22DVERS	Pool statistics version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	8	A22POOL	Pool name
(10)	FULLWORD	4	A22TRGCT	# targets
(14)	FULLWORD	4	A22NDCT	# nodes
(18)	FULLWORD	4	A22CONCT	# connections
(1C)	FULLWORD	4	A22CONPK	Peak # connections
(20)	FULLWORD	4	A22ALLOC	# conversation allocates
(24)	FULLWORD	4	A22PKALL	Peak # concurrent allocates
(28)	FULLWORD	4	A22WAIT	Current # allocates waiting
(2C)	FULLWORD	4	A22TOTWT	Total # allocates waited
(30)	FULLWORD	4	A22PKWT	Peak # allocates waiting
(34)	FULLWORD	4	A22TIOUT	# allocates that timed out
(34)	..11 1...		A22END	"*"
(34)	..11 1...		A22CLEN	"*-A22LEN" Length of DSECT

A23 - FEPI connection statistics

```
CONTROL BLOCK NAME = DFHA23DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA23PS
DESCRIPTIVE NAME = CICS TS FEPI connection statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1993
FUNCTION =
       This data block describes the block of storage containing
       the statistics for a FEPI connection.
       The data described by this DSECT is placed in storage by
       DFHAPST, the statistics module in the AP domain.
```

```
       The same DSECT describes the system and user copies of the
       statistics. Several copies of the statistics may exist until
       the callers request has been 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)	...1 ...1		A23IDR	"0017" FEPI connection RESID stats mask
(2)	ADDRESS	2	A23ID	FEPI connection id
(2)	1		A23VERS	"X'01'" DSECT version number
(4)	CHARACTER	1	A23DVERS	Connection statistics version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	8	A23POOL	Pool name
(10)	CHARACTER	8	A23TARG	Target name
(18)	CHARACTER	8	A23NODE	Node name
(20)	FULLWORD	4	A23ACQ	# acquires for connection
(24)	FULLWORD	4	A23CNV	# conversations
(28)	FULLWORD	4	A23USI	# unsolicited inputs received
(2C)	FULLWORD	4	A23CHOUT	# characters sent on connection
(30)	FULLWORD	4	A23CHIN	# characters received on connection
(34)	FULLWORD	4	A23RTOUT	# receive timeouts
(38)	FULLWORD	4	A23ERROR	# error conditions
(38)	..11 11..		A23END	"*"
(38)	..11 11..		A23CLEN	"*-A23LEN" Length of DSECT

A24 - FEPI target statistics

```
CONTROL BLOCK NAME = DFHA24DS
NAME OF MATCHING PLS CONTROL BLOCK = DFHA24PS
DESCRIPTIVE NAME = CICS TS FEPI target statistics
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        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1993
FUNCTION =
       This data block describes the block of storage containing
       the statistics for a FEPI 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
(0)	HALFWORD	2	A24LEN	Length of data area
(0)	...1 ..1.		A24IDR	"0018" FEPI target RESID stats mask
(2)	ADDRESS	2	A24ID	FEPI target id
(2)	1		A24VERS	"X'01'" DSECT version number
(4)	CHARACTER	1	A24DVERS	Target statistics version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	8	A24TARG	Target name
(10)	CHARACTER	8	A24POOL	Pool name
(18)	CHARACTER	8	A24APPL	Applid
(20)	FULLWORD	4	A24NDCT	# nodes
(24)	FULLWORD	4	A24ALLOC	# conversation allocates
(28)	FULLWORD	4	A24TOTWT	Total # allocates waited
(2C)	FULLWORD	4	A24WAIT	Current # allocates waiting

Table 27. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(30)	FULLWORD	4	A24PKWT	Peak # allocates waiting
(34)	FULLWORD	4	A24TIOUT	# allocates that timed out
(34)	..11 1...		A24END	"*"
(34)	..11 1...		A24CLEN	"*-A24LEN" Length of DSECT

BRARC - BRXA definition

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

---------------------------------------------------------------------

The BRXA header contains the following fields:

BRXA_HEADER_EYECATCHER
An eyecatcher to identify the area as an BRXA. This is
initialised by CICS to the value BRXA_HEADER_EYE ('>BRAREA '),
which is defined in the DFHBRACx copy book.
BRXA_HEADER_LENGTH
The length of the header.
BRXA_HEADER_VERSION_NO
The version number of the BRXA. This allows future releases to
extend the BRXA. This is initialised by CICS to
brxa_current_version_no.
BRXA_TRANSACTION_AREA_PTR
The address of the BRXA_TRANSACTION_AREA, which contains
information relating to the Bridge Transaction and the User
Transaction. This will be set by CICS, and should not be
modified by the Bridge or LT Exit code.
BRXA_TRANSACTION_AREA_LEN
The length of the BRXA_TRANSACTION_AREA. This will be set by
CICS, and should not be modified by the Bridge or LT Exit code.
BRXA_COMMAND_AREA_PTR
The address of the BRXA_COMMAND_AREA, which contains information
relating to the command causing the Bridge Exit to be driven.
This will be set by CICS, and should not be modified by the
Bridge Exit code.
BRXA_COMMAND_AREA_LEN
The length of the BRXA_COMMAND_AREA. This will be set by CICS,
and should not be modified by the Bridge or LT Exit code.
BRXA_USER_AREA_PTR
A user field which allows the address of a user area to be saved
across Bridge Exit calls within a task. The user area should be
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 28.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	BRXA_HEADER	
(0)	CHARACTER	8	BRXA_HEADER_ EYECATCHER	
(8)	FULLWORD	4	BRXA_HEADER_LENGTH	
(C)	UNSIGNED	4	BRXA_HEADER_VERSION_ NO	
(10)	ADDRESS	4	BRXA_TRANSACTION_ AREA_PTR	
(14)	FULLWORD	4	BRXA_TRANSACTION_ AREA_LEN	
(18)	ADDRESS	4	BRXA_COMMAND_AREA_PTR	
(1C)	FULLWORD	4	BRXA_COMMAND_AREA_LEN	
(20)	ADDRESS	4	BRXA_USER_AREA_PTR	
(24)	FULLWORD	4	BRXA_USER_AREA_LEN	
new for CTS 1.3				
(28)	ADDRESS	4	BRXA_INPUT_MSG_PTR	
(2C)	FULLWORD	4	BRXA_INPUT_MSG_LEN	
(30)	ADDRESS	4	BRXA_OUTPUT_MSG_PTR	
(34)	FULLWORD	4	BRXA_OUTPUT_MSG_LEN	

```
--

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

BRXA_TRAN_AREA_EYECATCHER
An eyecatcher to identify the area as an BRXA Transaction Area.
This will be set by CICS, before passing control to the Bridge
Exit, to the value BRXA_TRAN_AREA_EYE ('>BRTRANA'), which is
defined in the DFHBRACx copy book.
BRXA_BRIDGE_TRANID
The transaction id of the Bridge Transaction.
BRXA_TRANID
The transaction id of the user transaction.
BRXA_NEXTTRANID
The transaction id of the next transaction.
BRXA_ABEND_CODE
If the User Transaction abends, then the abend code is placed
here. If the transaction hasn't abended this field is blanks.
BRXA_CALLING_PROG
The name of the program in the User Transaction which issued the
command causing the Bridge Exit to be invoked. For the
BRXA_INIT, BRXA_BIND, BRXA_TERM and BRXA_ABEND calls this 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 29.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	180	BRXA_TRANSACTION_AREA	
(0)	CHARACTER	8	BRXA_TRAN_AREA_ EYECATCHER	
(8)	CHARACTER	4	BRXA_BRIDGE_TRANID	
(C)	CHARACTER	4	BRXA_TRANID	
(10)	CHARACTER	4	BRXA_NEXTTRANID	

Table 29. (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
(B4)	CHARACTER	0	*	

```
--

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

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

------------------------------------------------------------------------

The common fields of the command area are:

BRXA_COMMAND_AREA_EYECATCHER
An eyecatcher to identify the area as an LT Command Area. This
will be set by CICS, before passing control to the Bridge Exit,
to the value BRXA_COMMAND_AREA_EYE ('>BRCOMMA'), which is
defined in the DFHBRACx copy book.
BRXA_FUNCTION_CODE
A two character code identifying the CICS function for which the
Bridge Exit is called. For calls for Initialise Transaction,
Terminate Transaction and Abend Transaction this is 'XM'. For
all other requests, this is the value in the first byte of EIBFN
converted to character form. Valid EBCDIC characters are used
for the function and command code to simplify testing of the
values in User Transaction Exit programs written in all the
supported languages, and to simplify passing of the codes to
other systems. Constants with meaningful names are provided for
all the supported languages to simplify testing,
BRXA_COMMAND_CODE
A two character code identifying the CICS command for which the
Bridge Exit is called. For Initialise Transaction this is 'IN',
for Terminate Transaction this is 'TM' and, for Abend
Transaction this is 'AB'. For all other requests, this is the
value in the second byte of EIBFN converted to character form.
Valid EBCDIC characters are used for the function and command
code to simplify testing of the values in User Transaction Exit
programs written in all the supported languages, and to simplify
passing of the codes to other systems. Constants with meaningful
names are provided for all the supported languages to simplify
testing,
BRXA_USER_ABEND_CODE
If this field is set to a non blank value (the default), CICS
will generate a transaction abend with this code.

Note that if the exit issues an EXEC CICS ABEND requests, this
will result in a CICS DUMP, and will disable the exit.
BRXA_FROM_PTR
The address of the FROM data in SEND, CONVERSE, SEND MAP, SEND
TEXT and START commands. This will be zero for other commands,
or if FROM not specified on the command.
BRXA_FROM_LEN
The length of the FROM data in SEND, CONVERSE, SEND MAP, SEND
TEXT and START commands. This will be zero for other commands,
or if FROM not specified on the command. The length is a
fullword,
BRXA_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 30.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	48	BRXA_COMMAND_COMMON	
(0)	CHARACTER	8	BRXA_COMMAND_AREA_ EYECATCHER	
(8)	CHARACTER	2	BRXA_FUNCTION_CODE	
(A)	CHARACTER	2	BRXA_COMMAND_CODE	
(C)	CHARACTER	4	BRXA_USER_ABEND_CODE	
(10)	ADDRESS	4	BRXA_FROM_PTR	
(14)	FULLWORD	4	BRXA_FROM_LEN	
(18)	ADDRESS	4	BRXA_INTO_PTR	
(1C)	FULLWORD	4	BRXA_INTO_LEN	
(20)	HALFWORD	2	BRXA_RESP	
(22)	HALFWORD	2	BRXA_RESP2	
(24)	HALFWORD	2	BRXA_CPOSN	
(26)	CHARACTER	1	BRXA_AID	
(27)	CHARACTER	1	BRXA_ERASE_INDICATOR	
(28)	CHARACTER	1	BRXA_LAST_INDICATOR	
(29)	CHARACTER	1	BRXA_WAIT_INDICATOR	
new for CTS 1.3				
(2A)	CHARACTER	1	BRXA_FMT_RESPONSE	
(2B)	CHARACTER	1	BRXA_READ_NOWAIT_ ISSUED	
(2C)	CHARACTER	1	BRXA_REQUEST_NEXT_ ISSUED	
(2D)	CHARACTER	1	BRXA_SUPPORT_ACCUM	
(2E)	CHARACTER	2	*	

```
--

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

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

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

- BRXA_STARTCODE

- BRXA_LOAD_ADS_DESCRIPTOR

- BRXA_FACILITYLIKE

- BRXA_FACILITY_TOKEN

- BRXA_USER_ABEND_CODE

- BRXA_IDENTIFIER

- BRXA_FORMATTER

Requests using recoverable resources can not be made in this
call.
Bind
The purpose of this call is for the Bridge Exit to obtain data
to answer 3270 requests in subsequent calls.

Recoverable requests can be made in this call.

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

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

- BRXA_STARTCODE

- BRXA_LOAD_ADS_DESCRIPTOR

- BRXA_FACILITY_KEEP_TIME

- BRXA_USER_ABEND_CODE

- BRXA_IDENTIFIER

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

This call is not made if the user transaction abends.

Recoverable requests can be made in this call.

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

- BRXA_FACILITY_KEEP_TIME

- BRXA_USER_ABEND_CODE
```

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

The call can also change the abend code.

Recoverable requests can not be made in this call.

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

- BRXA_FACILITY_KEEP_TIME

- BRXA_USER_ABEND_CODE

------------------------------------------------------------------
```

Table 31.

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

```
--

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

Commands supported are SEND, RECEIVE and CONVERSE.

The terminal control specific parameters are

BRXA_CTLCHAR
The 3270 Write Control Character (WCC) passed on SEND and
CONVERSE commands as CTLCHAR. If not specified on the command
the default value (X'C3'- unlock keyboard, reset MDT flags) is
passed to the exit.
BRXA_BUFFER_INDICATOR
a one character field indicating whether BUFFER specified on
RECEIVE command. Valid values are 'Y' or 'N', and constants are
provided for the exit to test this field.

(BUFFER is not allowed on CONVERSE - diagnosed by translator)
BRXA_STRFIELD_INDICATOR
a one character field indicating whether STRFIELD specified on
SEND or CONVERSE command. Valid values are 'Y' or 'N', and
constants are provided for the exit to test this field.
BRXA_DEFRESP_INDICATOR
a one character field indicating whether DEFRESP specified on
SEND or CONVERSE command. Valid values are 'Y' or 'N', and
constants are provided for the exit to test this field.
BRXA_INVITE_INDICATOR
a one character field indicating whether INVITE specified on
SEND command. Valid values are 'Y' or 'N', and constants are
provided for the exit to test this field.

------------------------------------------------------------------
```

Table 32.

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

```
--

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

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

The BMS specific parameters are:

BRXA_MAPSET
The (unsuffixed) mapset name specified on SEND MAP or RECEIVE
MAP.
BRXA_MAP
The map name specified on SEND MAP or RECEIVE MAP.
BRXA_ADS_DESCRIPTOR_PTR
The address of the ADS descriptor for BMS SEND MAP and RECEIVE
MAP commands. This will be set by the interface code, if the
Bridge has set the flag in the BRXA indicating that the
descriptor should be loaded, and if the relevant mapset has been
regenerated to include the descriptor. Otherwise this pointer
will be set to 0.
BRXA_CURSOR
A halfword value containing the CURSOR position specified on
SEND MAP, SEND TEXT or SEND CONTROL command, which identifies
where the cursor is to be positioned on the 3270 screen. A value
of -1 is passed if the application specified CURSOR with no
value on SEND MAP command, indicating that symbolic cursor
positioning is required, that is, that the cursor is to be
positioned in the first field in the application data structure
that has a value of -1 in the corresponding length field. A
value of -2 is passed if the application did not specify CURSOR
on the SEND MAP command.
BRXA_MSR_DATA
The four character value specified in MSR on SEND MAP, SEND
CONTROL or SEND TEXT command. Constants are provided in the copy
book DFHMSRCA which will allow the exit to test the values
specified.

NOTE: If we can assume that a BFB will always be constructed as
if its TYPETERM was defined with MSRCONTROL(NO), then this
parameter could be omitted, as for a 3270 terminal fro which
MSRCONTROL(NO) is specified, BMS ignores the MSR field specified
on the command.
BRXA_DATA_INDICATOR
a one character field indicating whether DATAONLY, MAPONLY or
neither are specified on the SEND MAP command. Valid values are
'D' (DATAONLY), 'M' (MAPONLY) or 'N'(neither specified) and
constants are provided for the exit to test this field. (Note
that if MAPONLY is specified, the FROM pointer and length will
be zero, as there is no 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.

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Table 33.

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

Table 33. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(53)	CHARACTER	1	BRXA_RETAIN_INDICATOR	
(54)	CHARACTER	4	BRXA_RELEASE_TRANSID	
(58)	ADDRESS	4	BRXA_PAGE_HEADER_PTR	
(5C)	FULLWORD	4	BRXA_PAGE_HEADER_LEN	
(60)	ADDRESS	4	BRXA_PAGE_TRAILER_PTR	
(64)	FULLWORD	4	BRXA_PAGE_TRAILER_LEN	
(68)	CHARACTER	1	BRXA_PAGE_HEADER_ PAGENO	
(69)	CHARACTER	1	BRXA_PAGE_TRAILER_ PAGENO	
(6A)	CHARACTER	2	*	

```
--

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

The only command supported is RETRIEVE.

The Interval Control specific parameters are:

BRXA_RTERMID
The value of RTERMID specified on START command. For the
RETRIEVE command this is a field that the Bridge Exit can set to
pass the RTERMID value back to the application issuing the
RETRIEVE.
BRXA_RTRANSID
The value of RTRANSID specified on START command. For the
RETRIEVE command this is a field that the Bridge Exit can set to
pass the RTRANSID value back to the application issuing the
RETRIEVE.
BRXA_QUEUE
The value of QUEUE specified on START command. For the RETRIEVE
command this is a field in which the Bridge Exit can set the
QUEUE value to be used by the application issuing the RETRIEVE.

------------------------------------------------------------------------
```

Table 34.

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

```
--

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

```
to test this field.

-------------------------------------------------------------------
```

Table 35.

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

```
--

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

This command area defines the following functions:

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

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

- BRXA_STARTCODE

- BRXA_LOAD_ADS_DESCRIPTOR

- BRXA_FACILITYLIKE

- BRXA_FACILITY_TOKEN

- BRXA_USER_ABEND_CODE

- BRXA_IDENTIFIER

-------------------------------------------------------------------
```

Table 36.

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

```
--

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

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

The ADS descriptor contains a header containing general
information about the map, together with a field descriptor for
```

every field which appears in the ADS, that is every named field in the map definition macro.

The header consists of the following information

ADSD_LENGTH
The length of the ADS descriptor
ADSD_EYECATCHER
An eyecatcher ('ADSD') to identify this as an ADS descriptor
ADSD_MAP_INDEX
The index of the map within the mapset. This is needed to determine the HTML template corresponding to the map.
ADSD_FIELD_COUNT
the number of fields within the ADS, that is the number of named fields in the map definition macros. A separate field is counted for each element of an array defined with the OCCURS parameter, but subfields of group fields (GRPNAME) are not counted. The field count may be zero, in which case there are no field descriptors following the header.
ADSD_STRUCTURE_LENGTH
the length of the application data structure
ADSD_ATTRIBUTE_NUMBER
the number of extended attributes in each field of the ADS, that is the number of attributes specified in DSATTS in the map definition.
ADSD_ATTRIBUTE_TYPE_CODES

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

- C = COLOR

- P = PS

- H = HILIGHT

- V = VALIDN

- O = OUTLINE

- S = SOSI

- T = TRANSP

ADSD_MAP_JUSTIFY_HOR
the horizontal justification for the map, either L (LEFT) or R (RIGHT) from JUSTIFY operand on map definition.
ADSD_MAP_JUSTIFY_VER
the vertical justification for the map, from JUSTIFY operand on map definition. This can have the values F (FIRST), L (LAST) or B (BOTTOM) or blank (no vertical JUSTIFY operand).
ADSD_MAP_STARTING_LINE
the starting line for the map, from LINE operand on DFHMDI macro (LINE = NEXT will give a value of 255, LINE = SAME will give a value of 254)
ADSD_MAP_STARTING_COLUMN
the starting column for the map, from COLUMN operand on DFHMDI macro (COLUMN = NEXT will give a value of 255, COLUMN = SAME will give a value of 254)
ADSD_MAP_LINES
the number of lines in the map from SIZE= operand
ADSD_MAP_COLUMNS
the number of columns in the map from SIZE= operand
ADSD_WRITE_CONTROL_CHAR
the 3270 encoded WCC derived from CONTROL= operand
ADSD_FIRST_FIELD
the first field descriptor occurs here. Use the address of

```
ADSD_FIRST_FIELD as the initial value of the pointer for the
field descriptor (unless ADSD_field_count is 0).

The field descriptor for each field within the map consists of

ADSD_FIELD_NAME
the 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 37.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	ADS_DESCRIPTOR	
(0)	HALFWORD	2	ADSD_LENGTH	
(2)	CHARACTER	4	ADSD_EYECATCHER	
(6)	HALFWORD	2	ADSD_MAP_INDEX	
(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 (12)	
(1A)	CHARACTER	1	ADSD_MAP_JUSTIFY_HOR	
(1B)	CHARACTER	1	ADSD_MAP_JUSTIFY_VER	
(1C)	HALFWORD	2	ADSD_MAP_STARTING_ LINE	
(1E)	HALFWORD	2	ADSD_MAP_STARTING_ COLUMN	
(20)	HALFWORD	2	ADSD_MAP_LINES	
(22)	HALFWORD	2	ADSD_MAP_COLUMNS	
(24)	CHARACTER	1	ADSD_WRITE_CONTROL_ CHAR	
(25)	CHARACTER	1	*	
(26)	CHARACTER	*	ADSD_FIRST_FIELD	

Table 38.

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

--

Table 39.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	ADS_LONG_DESCRIPTOR	
(0)	FULLWORD	4	ADSDL_LENGTH	
(4)	CHARACTER	4	ADSDL_EYECATCHER	
(8)	FULLWORD	4	ADSDL_MAP_INDEX	
(C)	FULLWORD	4	ADSDL_FIELD_COUNT	
(10)	FULLWORD	4	ADSDL_STRUCTURE_ LENGTH	
(14)	FULLWORD	4	ADSDL_ATTRIBUTE_ NUMBER	
(18)	CHARACTER	1	ADSDL_ATTRIBUTE_ TYPE_CODES (12)	
(24)	CHARACTER	1	ADSDL_MAP_JUSTIFY_HOR	
(25)	CHARACTER	1	ADSDL_MAP_JUSTIFY_VER	
(26)	CHARACTER	2	*	
(28)	FULLWORD	4	ADSDL_MAP_STARTING_ LINE	
(2C)	FULLWORD	4	ADSDL_MAP_STARTING_ COLUMN	
(30)	FULLWORD	4	ADSDL_MAP_LINES	
(34)	FULLWORD	4	ADSDL_MAP_COLUMNS	
(38)	CHARACTER	1	ADSDL_WRITE_CONTROL_ CHAR	
(39)	CHARACTER	3	*	
(3C)	CHARACTER	*	ADSDL_FIRST_FIELD	

Table 40.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	ADS_LONG_FIELD_ DESCRIPTOR	
(0)	CHARACTER	32	ADSDL_FIELD_NAME	
(20)	FULLWORD	4	ADSDL_FIELD_NAME_LEN	

Table 40. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(24)	FULLWORD	4	ADSDL_OCCURS_INDEX	
(28)	FULLWORD	4	ADSDL_FIELD_OFFSET	
(2C)	FULLWORD	4	ADSDL_FIELD_DATA_LEN	
(30)	CHARACTER	1	ADSDL_FIELD_JUSTIFY	
(31)	CHARACTER	1	ADSDL_FIELD_FILL_CHAR	
(32)	CHARACTER	2	*	
(34)	CHARACTER	*	ADSDL_NEXT_FIELD	

CDBLK - CONVDATA block

```
CONTROL BLOCK NAME = DFHCDBLK
DESCRIPTIVE NAME = CICS TS CONVDATA Block.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1992, 1995
FUNCTION = CONVDATA interface block
       This data area is specified on the CONVDATA option in GDS
       commands (see the CICS Distributed Transaction Processing
       Guide for a description of GDS commands for LU6.2).
       An application program can include the Assembler or C
       versions of the copybook to define the area.
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS =
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS =
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
    DATA AREAS =
    CONTROL BLOCKS =
    GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 41.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DFHCDBLK	CONVDATA BLOCK
(0)	CHARACTER	1	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

Table 41. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B)	CHARACTER	1	CDBSYNRB	X'FF' SYNC ROLLBACK REQUESTED
(C)	CHARACTER	12	CDBRSVD	RESERVED

CFS6D - CFDT Server CF statistics

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

Table 42.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHCFS6D	, CF list structure statistics record
(0)	FULLWORD	4	S6 (0)	Start of record
(0)	HALFWORD	2	S6LEN	Length of data area
(0)	.111 111.		S6IDE	"0126" List structure stats mask
(2)	ADDRESS	2	S6ID	List structure stats id
(2)	1		S6VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	S6DVERS	List structure stats version number
(5)	CHARACTER	3		Reserved
Coupling facility list structure status information.				
(8)	CHARACTER	16	S6NAME (0)	Full name of list structure
(8)	CHARACTER	8	S6PREF	First part of structure name
(10)	CHARACTER	8	S6POOL	Pool name part of structure name
(18)	CHARACTER	16	S6CNNAME (0)	Name for connection to structure
(18)	CHARACTER	8	S6CNPREF	Prefix for connection name
(20)	CHARACTER	8	S6CNSYSN	Own MVS system name from CVTSNAME
(28)	ADDRESS	4	S6SIZE	Structure size in 4K pages
(2C)	ADDRESS	4	S6SIZEMX	Maximum size in 4K pages

Table 42. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(30)	FULLWORD	4	S6HDRS	Maximum number of list headers
(34)	FULLWORD	4	S6HDRSCT	Headers used for control lists
(38)	FULLWORD	4	S6HDRSTD	Headers available for table data
(3C)	FULLWORD	4	S6ELEMLN	Data element size as a fullword
(40)	ADDRESS	4	S6ELEMPW	Data element size as power of 2
(44)	ADDRESS	4	S6ELEMPE	Max elements per entry (for 32K)
(48)	FULLWORD	4	S6ELEMRT	Element side of entry:element ratio
(4C)	FULLWORD	4	S6ENTRRT	Entry side of entry:element ratio
Usage statistics. Entry and element usage statistics. Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER.				
(50)	FULLWORD	4	S6ENTRCT	Current number of entries in use
(54)	FULLWORD	4	S6ENTRHI	Highest number of entries in use
(58)	FULLWORD	4	S6ENTRLO	Lowest number of free entries
(5C)	FULLWORD	4	S6ENTRMX	Max entries returned by IXLCONN
(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

Table 42. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(80)	FULLWORD	4	S6INDXCT	Number of entries in table index
(84)	FULLWORD	4	S6INDXHI	Highest entries in table index
(88)	FULLWORD	4	S6APPLCT	Number of entries in APPLID list
(8C)	FULLWORD	4	S6APPLHI	Highest entries in APPLID list
(90)	FULLWORD	4	S6UOWLCT	Number of entries in UOW list
(94)	FULLWORD	4	S6UOWLHI	Highest entries in UOW list
Coupling facility I/O statistics. Statistics for each main type of CF request.				
(98)	FULLWORD	4	S6RDICT	Read table index entry
(9C)	FULLWORD	4	S6WRICT	Write table index entry
(A0)	FULLWORD	4	S6RWICT	Rewrite table index entry
(A4)	FULLWORD	4	S6DLICT	Delete table index entry
(A8)	FULLWORD	4	S6CRLCT	Create list
(AC)	FULLWORD	4	S6MDLCT	Modify list
(B0)	FULLWORD	4	S6DLLCT	Delete list (1 per overall delete)
(B4)	FULLWORD	4	S6RDDCT	Read data item
(B8)	FULLWORD	4	S6WRDCT	Write data item
(BC)	FULLWORD	4	S6RWDCT	Rewrite data item
(C0)	FULLWORD	4	S6DLDCT	Delete data item
(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.				

Table 42. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(F8)	FULLWORD	4	S6RSP1CT	Normal response, everything OK
(FC)	FULLWORD	4	S6RSP2CT	Buffer length was too short for the data, needs full length reread
(100)	FULLWORD	4	S6RSP3CT	No matching entry was found, indicates table not found in index or record not found in table
(104)	FULLWORD	4	S6RSP4CT	Entry version did not match, indicates entry updated by another system or duplicate entry exists when attempting to create entry
(108)	FULLWORD	4	S6RSP5CT	List authority comparison mismatch, caused by table status update
(10C)	FULLWORD	4	S6RSP6CT	Maximum list key reached, indicates max table size or max tables reached depending on list
(110)	FULLWORD	4	S6RSP7CT	The list structure is out of space
(114)	FULLWORD	4	S6RSP8CT	An IXLLIST return code occurred other than those described above
(118)	FULLWORD	4	S6RSP9CT	Structure temporarily unavailable, for example during rebuild
(118)		0	S6END	"*"
(118)		0	S6CLEN	"*-S6LEN" Length of this DSECT

CFS7D - CFDT Server Table Statistics

```
CONTROL BLOCK NAME = DFHCFS7D
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (CFDT) Statistics for table accesses.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1996
FUNCTION = CF Statistics for table accesses.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
       N/A
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
-------------------------------------------------------------------------
```

Table 43.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHCFS7D	, CF table access statistics record
(0)	FULLWORD	4	S7 (0)	Start of record
(0)	HALFWORD	2	S7LEN	Length of data area
(0)	.111 1111		S7IDE	"0127" Table access stats mask
(2)	ADDRESS	2	S7ID	Table access stats id
(2)	1		S7VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	S7DVERS	Table access stats version number
(5)	CHARACTER	3		Reserved
Coupling facility data table access statistics.				
(8)	CHARACTER	16	S7TABLE	Table name padded with spaces
Statistics vector.				
(18)	BITSTRING	60	S7STATS (0)	Statistics vector
Table control request statistics.				
(18)	FULLWORD	4	S7OCOPEN	Open table
(1C)	FULLWORD	4	S7OCCLOS	Close table
(20)	FULLWORD	4	S7OCSET	Set table attributes
(24)	FULLWORD	4	S7OCDELE	Delete table
(28)	FULLWORD	4	S7OCSTAT	Extract table statistics
Table access request statistics.				
(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)	.1.1 .1..		S7END	"*"
(50)	.1.1 .1..		S7CLEN	"*-S7LEN" Length of this DSECT

CFS8D - CFDT Server Request Statistics

```
CONTROL BLOCK NAME = DFHCFS8D
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (CFDT) Request statistics.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1996
FUNCTION = CF data table server request statistics.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
       N/A
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
-------------------------------------------------------------------------
```

Table 44.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHCFS8D	, CFDT request statistics record
(0)	FULLWORD	4	S8 (0)	Start of record
(0)	HALFWORD	2	S8LEN	Length of data area
(0)	1...		S8IDE	"0128" Server request stats mask
(2)	ADDRESS	2	S8ID	Server request stats id
(2)	1		S8VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	S8DVERS	Server request stats version number
(5)	CHARACTER	3		Reserved
Statistics vector.				
(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
(30)	FULLWORD	4	S8RQLOAD	Load record at initial load time
(34)	FULLWORD	4	S8RQWRIT	Write new record

Table 44. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(38)	FULLWORD	4	S8RQREWR	Rewrite existing record
(3C)	FULLWORD	4	S8RQDELE	Delete record
(40)	FULLWORD	4	S8RQDELM	Delete multiple records
Total inquire table statistics.				
(44)	FULLWORD	4	S8IQINQU	Inquire table
Total recovery control request statistics.				
(48)	FULLWORD	4	S8SPPREP	Prepare to commit unit of work
(4C)	FULLWORD	4	S8SPRETA	Retain locks for unit of work
(50)	FULLWORD	4	S8SPCOMM	Commit unit of work
(54)	FULLWORD	4	S8SPBACK	Back out unit of work
(58)	FULLWORD	4	S8SPINQU	Inquire about unit of work
(5C)	FULLWORD	4	S8SPREST	Restart recoverable connection
(5C)	.11.		S8END	"*"
(5C)	.11.		S8CLEN	"*-S8LEN" Length of this DSECT

CFS9D - CFDT Server Storage Statistics

```
CONTROL BLOCK NAME = DFHCFS9D
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (CFDT) Statistics for server storage.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1996, 2002
FUNCTION = CF Statistics for server main storage usage.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
       N/A
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
-------------------------------------------------------------------------
```

Table 45.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHCFS9D	, CF main storage statistics record
(0)	FULLWORD	4	S9 (0)	Start of record
(0)	ADDRESS	2	S9LEN	Length of data area
(0)	1... ...1		S9IDE	"0129" CF DT main storage stats mask
(2)	ADDRESS	2	S9ID	CF DT main storage stats id
(2)	1		S9VERS	"X'01'" DSECT version number mask

Table 45. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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.				
(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

Table 45. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5C)	FULLWORD	4	S9LOWRQF	Storage FREE requests
(60)	FULLWORD	4	S9LOWRQS	GETs which failed to get storage
(64)	FULLWORD	4	S9LOWRQC	Compress (defragmentation) attempts
(64)	.11. 1...		S9END	"*"
(64)	.11. 1...		S9CLEN	"*-S9LEN" Length of this DSECT

CLT - Command list table

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

Table 46.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHCLTDS	CLT DSECT
TYPE=INITIAL generated fields				
(0)	CHARACTER	1		Reserved
(1)	BITSTRING	1	CLTIVER	Version of CLT
(1)	1		CLTIVER1	"X'01'" ..Version 1
(2)	BITSTRING	1	CLTIJESX	Type of JES
(2)	.... ..1.		CLTIJES2	"X'02'" ..JES2

Table 46. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	11		CLTIJES3	"X'03'" ..JES3
(3)	CHARACTER	1	CLTIJCHR	JES identifier character
(4)	ADDRESS	4	CLTIIND1	Address of Index 1
(4)	.... 1...		CLTJTAB	"*" JES system identification
(8)	CHARACTER	4	CLTJMVS	MVS system identifier
(C)	CHARACTER	4	CLTJJESN	JES2 or JES3 subsystem name
(C)	...1		CLTJJES	"*"
(10)	CHARACTER	1	CLTJJ2ID	JES2 shared spool member number
(10)	.... 1..1		CLTJTBL2	"*-CLTJTAB" Length of table entry for JES2
(10)	CHARACTER	8	CLTJJ3ID	JES3 name on MAINPROC
(10)	...1		CLTJTBL3	"*-CLTJTAB" Length of table entry for JES3

`TYPE=LISTSTART generated fields`

Table 47.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	CLTI1DS	CLT Index 1 DSECT
`Index 1 entry`				
(0)	CHARACTER	4	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
(10)	...1 .1..		CLT1LEN	"*-CLTI1DS" Length of Index 1 entry

`TYPE=COMMAND and TYPE=WTO generated fields`

Table 48.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	CLTCDS	CLT COMMAND/WTO entry DSECT
(0)	BITSTRING	1	CLTCTYPE	Entry type
(0)	1		CLTCCOM	"X'01'" Type=COMMAND
(0)	.... ..1.		CLTCWTO	"X'02'" Type=WTO
(1)	BITSTRING	1	CLTCCEC	CEC indicator
(1)	1		CLTCCSAM	"X'01'" ..Same
(1)	.... ..1.		CLTCCSEP	"X'02'" ..Separate
(2)	CHARACTER	1	CLTCDATA (0)	
`TYPE=COMMAND`				

Table 48. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	BITSTRING	1	CLTCCOML	Length of command
(3)	CHARACTER	1	CLTCTEXT (0)	Start of command text
TYPE=WTO				
(2)	CHARACTER	1	(2)	Reserved
(4)	ADDRESS	4	CLTCADDR	Address of WTO MF=L

Table 49.

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

MCTDR - Monitoring Dictionary Entry

Table 50.

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

```
MACRO NAME = DFHMCTDR
DESCRIPTIVE NAME = CICS/ESA Monitoring Dictionary entry
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1986, 2017
FUNCTION = Field definitions to map a monitoring dictionary
           entry.
DEPENDENCIES = S/370
RESTRICTIONS = none
ATTRIBUTES = none
```

Table 51.

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

Table 51. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(12)	CHARACTER	8	CMODHEAD	INFORMAL NAME
(12)	...1 1.1.		CMODNEXT	"*"

CRB - Cross region block

```
CONTROL BLOCK NAME = DFHCRBPS
DESCRIPTIVE NAME = CICS TS Cross Region Block
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1992
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 52.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	104	DFHCRBDS	
(0)	CHARACTER	8	CRBEYE	Eyecatcher
(8)	FULLWORD	4	CRBSVCLS	ALIST FOR SVC FULL WORD ALIGNMENT
(C)	CHARACTER	40	CRBSVCSB	SUBLIST FOR SVC
(34)	ADDRESS	4	*	Reserved
(38)	FULLWORD	4	CRBUSID	SVC USER ID ALLOC'D TO CICS
(3C)	ADDRESS	4	CRBSLCB	A(SVC'S SLCB CTL BLOCK)
(40)	CHARACTER	8	CRBIMQTK	Immed queue token for queue manager

Table 52. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(48)	CHARACTER	8	CRBDLQTK	Delay queue token for queue manager
(50)	CHARACTER	8	CRBSTASV	SAVE REGS 13, 14 IN STAE
(50)	FULLWORD	4	*	REGS 13
(54)	FULLWORD	4	*	REGS 14
(58)	HALFWORD	2	CRBSVCIN	INSTR TO INVOKE INTER-RGN SVC
(5A)	CHARACTER	2	*	Reserved
(5C)	BIT(8)	1	CRBFLG1	FLAG BYTE
(5C)	1...		*	80 reserved
(5C)	.1..		CRBSCSMT	40 SUPPRESS 'QUIESCE COMPLETE' MSG TO CSMT IN CSNC. (THIS BIT SET WHEN INTER-RGN FCLY STOPPED BY STP OR SRP)
(5C)	..1.		*	20 reserved
(5C)	...1		*	10 reserved
(5C)	.... 1...		CRBABND	08 CSNC HAS 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
                    MATCHING ASSEMBLER CONTROL BLOCK = DFHCSAD
                    DESCRIPTIVE NAME = CICS TS COMMON SYSTEM AREA GENERATOR.
                         Licensed Materials - Property of IBM
                          Restricted Materials of IBM
                         5655-Y04
                         (C) Copyright IBM Corp. 1984, 2016
                    FUNCTION =
                              DFHCSAPS GENERATES THE DSECT FOR THE CICS COMMON
                              SYSTEM AREA.
                    NOTES :
                     DEPENDENCIES = S/370
                     RESTRICTIONS = NONE
                     REGISTER CONVENTIONS = NOT APPLICABLE
                     PATCH LABEL = NOT APPLICABLE
                     MODULE TYPE = MACRO
                     MODULE SIZE = NOT APPLICABLE
                     ATTRIBUTES = NOT APPLICABLE
                    MACROS : DFHAFCD, DFHEJECT, DFHPRINT, DFHSYS
D
                         R49845 680 120601 HDLVDNM: Add new ACD subpool for ICEs
                         R64250 690 130516 HDIDNCS: FE flags status report
                         R75134 690 121009 HDLVDNM: Add new ACD subpool for 2 ICEs
                        PI50363 660 150501 HDDLCRP : BMS 3270 Protection
```

```
     R110014 710 160615 HDFVGMB : Rename MQINI to MQMON
     R109931 710 161123 HDDLCRP : BMS 3270 Protection
-------------------------------------------------------------------
 dummy change for apar pq48275
```

Table 53.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	452	DFHCSADS	SECTION - CSA
(0)	CHARACTER	0	DFHCSABA	COMMON SYSTEM AREA BEGIN ADDRESS
(0)	FULLWORD	4	CSAOSRSA (18)	CONTROL SYSTEM REGISTER AREA
(48)	CHARACTER	0	CSASOSI	SHORT ON STORAGE INDICATOR
(48)	BIT(8)	1	CSASSI1	SYSTEM SIGNAL INDICATOR 1
(48)	1...		*	Reserved
(48)	.1..		CSAFTCAB	RMI forced TCAs below 16M
(48)	..1.		CSASDTRN	SDTRAN STARTED
(48)	...1		CSAQUIES	FINAL QUIESCE STAGE
(48)	.... 1...		CSASITRM	SIT RMs processed
(48)	.... .1..		*	Reserved
(48)	.... ..1.		CSACSDOP	CSD OPEN IN START-UP
(48)	1		CSASOSON	SHORT ON STORAGE CONDITION
(49)	CHARACTER	0	CSAKCMI	MAXIMUM NUMBER OF TASKS IND
(49)	BIT(8)	1	CSASSI2	SYSTEM SIGNAL INDICATOR 2 CONDITION
(49)	1...		CSASTIM	SYSTEM TERMINATION INDICATOR MASK
(49)	.1..		CSAFNLTM	FINAL TERMINATION PHASE POSTING MASK
(49)	..1.		CSATCSCN	TCP full scan required
(49)	...1		CSAPLTPI	PLTPI PHASE HAS COMPLETED
(49)	.... 1...		CSATCPQM	TERMINAL CONTROL QUIESCE TASK
(49)	.... .1..		CSATQIM	TRANSACTION QUIESCE INDICATOR MASK
(49)	.... ..1.		CSAMXTON	MAXIMUM TASK INDICATOR ON CONDITION
(49)	1		CSATCPEV	TCP-KCP PENDING EVENT.
(4A)	CHARACTER	2	*	Reserved

Table 53. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(5A)	1111 1...		*	Reserved
(5A)	.... .1..		CSADATFY	FORMAT AS YYMMDD
(5A)	.... ..1.		CSADATFD	FORMAT AS DDMMYY
(5A)	1		CSADATFM	FORMAT AS MMDDYY
(5B)	BIT(8)	1	CSAICIND	INTERVAL CONTROL INDICATOR
(5B)	1...		*	Reserved
(5B)	.1..		*	Reserved
(5B)	..1.		CSALSADD	Leap second adjustment
(5B)	...1		CSAICMNR	AUTORESETTIME INDICATOR
(5B)	.... 1...		CSAICIMM	IMM on AUTORESETTIME
(5B)	.... .1..		CSAICRIP	Reset is in progress
(5B)	.... ..1.		CSAICITP	ADJUSTMENT TASK PENDING MASK
(5B)	1		CSAICIAJ	TIME-OF-DAY ADJUSTMENT MASK
(5C)	FULLWORD	4	CSATADJT	TIME OF DAY ADJUSTMENT VALUE. THE DIFFERENCE BETWEEN THE OPERATING SYSTEM TIME OF DAY AND THE CICS TIME OF DAY EXPRESSED IN 300THS OF A SECOND.

Table 53. (continued)

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

Table 53. (continued)

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

Table 53. (continued)

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

Table 53. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A0)	ADDRESS	4	CSAKCNAC	Task control
(A4)	ADDRESS	4	CSASCNAC	Storage control
(A8)	ADDRESS	4	CSAPCNAC	Program control
(AC)	ADDRESS	4	CSAICNAC	Time control
(B0)	ADDRESS	4	CSADCNAC	Dump control
(B4)	ADDRESS	4	CSATCNAC	Terminal control
(B8)	ADDRESS	4	CSATCTCA	TERMINAL CONTROL TASK CONTROL AREA ADDRESS
(BC)	ADDRESS	4	CSAROCSA	Read-only CSA (for PL/1)
(C0)	ADDRESS	4	CSAICEXP	IC expiry TXN TCA addr
(C4)	CHARACTER	1	CSASSI3	Reserved (former ICVSW)
(C4)	1...		CSAIDCHK	IDS APIs supported
(C4)	.1..		CSASTPRO	Storage Protect flag
(C4)	..1.		CSATRISO	Tran Isolation Flag
(C4)	...1		CSAFRCQR	1=> FORCEQR=FORCE
(C4)	.... 1...		CSAIPICY	Is IPIC in use in region?
(C4)	.... .1..		CSAAUDIT	is audit command on?
(C4)	.... ..1.		CSAAUDSW	is audit disabled
(C4)	1		CSABMCHK	BMS field checking
(C5)	UNSIGNED	1	CSACIMOD	CICS modification level in hex
(C6)	CHARACTER	1	CSABMACT	Default BMS IDS Action
(C7)	CHARACTER	1	*	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	CSABLDSP	Build tran subpool

Table 53. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(104)	ADDRESS	4	CSATCADF	ADDR(proforma TCA)
(108)	ADDRESS	4	CSAQRTCB	QR TCB address
(10C)	ADDRESS	4	CSAEIPAD	EIP ADCON LIST (DFHEIP00)
(110)	ADDRESS	4	CSABRSAA	BR State Area
(114)	UNSIGNED	4	CSAQRTOK	Modename token of QR
	SYSTEM CONTROL TABLE BEGINNING ADDRESSES			
(118)	ADDRESS	4	CSATRRAT	Return addr to be traced
(11C)	ADDRESS	4	CSAAINAC	Entry point of DFHAPIN
(120)	ADDRESS	4	*	Reserved
(124)	ADDRESS	4	CSATCTBA	ADDRESS OF TERMINAL CONTROL TABLE
(128)	ADDRESS	4	CSAFCSBA	ADDRESS OF FILE CONTROL STATIC STORAGE
(12C)	ADDRESS	4	*	Reserved
	OPEN & CLOSE LIST			
(130)	ADDRESS	4	*	Reserved
(134)	ADDRESS	4	CSATOLA	TERMINAL DATA SET OPEN LIST ADDRESS
(138)	ADDRESS	4	*	Reserved
	TIME OF DAY CONTROL			
(13C)	FULLWORD	4	CSABACL2	LAST VIRT. MIDNIGHT VALUE (4.096 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
(148)	1...		*	Reserved
(148)	.1..		CSAXSTMC	CICS CONTROLLED SHUTDOWN..
(148)	..1.		CSAXSTMI	CICS IMMEDIATE SHUTDOWN.. ..IF CSAXSTM IS ALSO SET

Table 53. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(148)	...1		CSAXSTMX	CICS HAS BEEN CANCELLED.. ..IF CSAXSTM IS ALSO SET
(148)	.... 1...		*	Reserved
(148)	.... .1..		CSAXSTM	CICS TERMINATION
(148)	.... ..1.		CSAXSEX	CICS EXECUTION
(148)	1		CSAXSI	CICS INITIALIZATION
(149)	BIT(8)	1	CSAXST2	CICS EXECUTION STATUS
(149)	11..		*	Reserved
(149)	..1.		CSAXSQ2	2ND-STAGE OF QUIESCE
(149)	...1		CSAXSQ1	1ST-STAGE OF QUIESCE
(149)	.... 1...		*	Reserved
(149)	.... .1..		CSAXSI3	3RD-STAGE INITIALIZATION
(149)	.... ..1.		CSAXSI2	2ND-STAGE INITIALIZATION
(149)	1		CSAXSI1	1ST-STAGE INITIALIZATION
(14A)	BIT(8)	1	CSAXST3	CICS EXECUTION STATUS
(14A)	1111 111.		*	Reserved
(14A)	1		CSAXSINC	CICS INITIALIZATION COMPLETE
(14B)	BIT(8)	1	*	Reserved
(14C)	ADDRESS	4	CSANULLP	Non 0 null address
(150)	ADDRESS	4	CSASPFP2	addr of another fetch protected area
(154)	ADDRESS	4	*	Available for future use
(158)	ADDRESS	4	CSATDNAC	Transient data entry
(15C)	ADDRESS	4	CSATSNAC	Temp storage entry
(160)	ADDRESS	4	CSATCRWE	TCP read/write entry
(164)	ADDRESS	4	CSAWTOAD	Write-to-operator routine
(168)	ADDRESS	4	CSATRNAC	Trace entry
(16C)	ADDRESS	4	CSASPNAC	Sync point entry
(170)	ADDRESS	4	*	Reserved
	TIME MANAGEMENT STORAGE			
(174)	FULLWORD	4	CSATODTU	BINARY TIME OF DAY IN 300THS OF A SECOND
(178)	FULLWORD	4	CSATCNDT	TERMINAL CONTROL'S NEXT DISPATCH TIME OF DAY IN 300THS OF A SECOND
(17C)	FULLWORD	4	*	Reserved
(180)	CHARACTER	2	*	Reserved

Table 53. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	UNSIGNED	4	CSABMIGC	BMS3270 Hits ignored
(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)	UNSIGNED	4	CSABMLGC	BMS3270 Hits logged
(1A8)	UNSIGNED	4	CSABMABC	BMS3270 Hits abended
(1AC)	ADDRESS	4	CSABRLKA	DFHBRLK entry point
(1B0)	ADDRESS	4	CSABRAIA	DFHBRAI entry point
(1B4)	ADDRESS	4	CSABRFRA	DFHBRFR entry point
(1B8)	ADDRESS	4	CSABRFMA	DFHBRFM entry point
(1BC)	ADDRESS	4	CSABRTBA	DFHBRTB entry point
(1C0)	ADDRESS	4	CSABRTQA	DFHBRTQ entry point
(1C4)	CHARACTER	0	CSACSAEA	END OF CSA

OPTIONAL FEATURE LIST

Table 54.

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

Table 54. (continued)

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

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(74)	ADDRESS	4	CSAISPNA	ADDRESS OF EXEC INTERSYSTEM PROGRAM
(78)	ADDRESS	4	CSAXTPNA	ADDRESS OF TERMINAL SHARING TRANSFORMER PROGRAM
EXEC INTERFACE MODULE ADDRESS				
(7C)	ADDRESS	4	CSAEINAC	ADDRESS OF DFHEIP Exec nucleus *
(80)	ADDRESS	4	CSAEIGNA	ADDRESS OF DFHEIG
(84)	CHARACTER	8	CSAICA31	Subpool token ICE
(8C)	CHARACTER	8	CSAECATK	Subpool token for APECA
Special area for Language Interface				
(94)	ADDRESS	4	CSACEEPI	Address of CEEPIPI
(98)	ADDRESS	4	CSACLQPI	Address of CELQPIPI
(9C)	FULLWORD	4	CSACEEIL	Special interface level
(A0)	CHARACTER	4	CSACEEFG	Flags
(A0)	BIT(8)	1	CSACEEF1	Flag Byte
(A0)	1...		CSACEELD	CEECCICS loaded
(A0)	.1..		CSACEEIN	LE/370 initialized
(A0)	..1.		CSA_GLBLOPTS_SET	Global options processed
(A0)	...1		CSA_THREADSAFE	Global default THREADSAFE
(A0)	.... 1...		CSA_QUASIRENT	Global default QUASIRENT
(A0)	.... .1..		CSA_OPENAPI	Global default OPENAPI
(A0)	.... ..1.		CSA_REQUIRED	Global default REQUIRED
(A0)	1		CSA_LOCK_VALID	LE Lock is valid
(A1)	BIT(8)	1	CSALANG	Language byte
(A1)	1...		CSA_ASMINIT	Assembler initialized by LE/370 *
(A1)	.1..		CSA_CINIT	C initialized by LE/370 *
(A1)	..1.		CSA_COBINIT	Cobol initialized by LE370 *
(A1)	...1		CSA_PLIINIT	PL/I initialized by LE/370 *
(A1)	.... 1...		CSA_RPGINIT	RPG initialized by LE/370 *
(A2)	BIT(8)	1	CSALEFUN	active CICS/LE functions
(A2)	1...		CSA_PROG_TYPE3	type 3 objects supported
(A2)	.1..		*	reserved
(A2)	..1.		CSA_LE_OTE	OTE support active
(A2)	...1		CSA_REUSABLE_RUWA	RUWAs are reusable
(A2)	.... 1...		CSA_ABEND_CANCEL	ABEND with CANCEL
(A2)	.... .1..		CSA_DUMP_SUPPRESS	dump suppression
(A2)	.... ..1.		CSA_LE_OTE_2	OTE stage2 support active

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A2)	1		CSA_LE_LDMDNAME	include module name in PGMINFO1 (storage tuning exit)
(A3)	BIT(8)	1	CSALEFUN2	active CICS/LE functions
(A3)	1...		CSA_LE_TUNE_SUP	LE supports automatic storage * tuning
(A3)	.1..		CSA_LE_AUTODST	LE will perform automatic storage tuning
(A3)	..1.		CSA_LE_REUSABLE_ ENCLAVES	LE supports reusable enclaves
(A3)	...1		CSA_LE_SERVICE_RTNS	LE can use the CICS service routines
(A3)	.... 1...		CSA_LE_REAL_ENTRY	LE supports XPCFTCH real entry point
(A3)	.... .1..		CSA_LE_DEBUG_INFO	LE supports DPCC debugger information in PGMINFO1
(A3)	.... ..1.		CSA_LE_GOTO	LE drives goto
(A3)	1		CSA_LE_EXT_REG	LE supports extended regs
(A4)	CHARACTER	8	CSACEEPT	LE/370 Partition token
(AC)	ADDRESS	4	CSACEERA	Address of interface routine *
(B0)	FULLWORD	4	CSACEETL	Length of pre-allocated Thread storage
(B4)	CHARACTER	1	CSA_INIT	CICS Initialization status flags
(B4)	BIT(8)	1	*	
(B4)	1...		CSAPINIT	Partition Initialization for Languages has completed
(B4)	.111 1111		*	Reserved
(B5)	BIT(8)	1	CSALEFUN3	Active LE funcs
(B5)	1...		CSA_LE_VECTOR_REGS	LE supports VR's
(B5)	.111 1111		*	Reserved
(B6)	BIT(16)	2	*	Reserved
(B8)	ADDRESS	4	CSALIRNA	Address of DFHLIRET
(BC)	CHARACTER	8	CSA_PLB_SPTOKEN	Program Language Block Subpool Token
(C4)	ADDRESS	4	CSABRMSA	Address of Bridge exit interface routine (BMS)
(C8)	ADDRESS	4	CSABRTCA	Address of Bridge exit interface routine (TC)
(CC)	ADDRESS	4	CSABRICA	Address of Bridge exit interface routine (IC)
FURTHER EXECUTION INTERFACE MODULE ADDRESSES				

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(D0)	ADDRESS	4	CSAEISR	Address of DFHEISR service routine
(D4)	ADDRESS	4	CSAEIGR	Address of DFHEIGR service routine
(D8)	ADDRESS	4	CSAERMNA	ADDRESS OF RESOURCE MANAGER I/F
(DC)	ADDRESS	4	CSAETLNA	ADDRESS OF LU6.2 MAPPED STUB
(E0)	ADDRESS	4	CSAEBUNA	ADDRESS OF FMH BUILDER
(E4)	ADDRESS	4	CSAEEXNA	ADDRESS OF FMH EXTRACTOR
TERMINAL CONTROL MODULE ADDRESSES				
(E8)	ADDRESS	4	CSATCNCA	ADDRESS OF DFHZCA
(EC)	ADDRESS	4	CSATCNCB	ADDRESS OF DFHZCB
(F0)	ADDRESS	4	CSATCNCC	ADDRESS OF DFHZCC
(F4)	ADDRESS	4	CSATCNCP	ADDRESS OF DFHZCP
(F8)	ADDRESS	4	CSATCNCW	ADDRESS OF DFHZCW
(FC)	ADDRESS	4	CSATCNCX	ADDRESS OF DFHZCX
(100)	ADDRESS	4	CSATCNCY	ADDRESS OF DFHZCY
(104)	ADDRESS	4	CSATCNCZ	ADDRESS OF DFHZCZ
BASIC MAPPING SUPPORT MODULE ENTRY ADDRESSES				
(108)	ADDRESS	4	CSARLREA	ADDRESS OF ROUTE LIST RESOLUTION PROGRAM
(10C)	ADDRESS	4	CSAPBPEA	ADDRESS OF PAGE BUILD PROGRAM
(110)	ADDRESS	4	CSAM32EA	ADDRESS OF 3270 MAPPING PROGRAM
(114)	ADDRESS	4	CSAMCXEA	ADDRESS OF BMS FAST PATH MODULE
(118)	ADDRESS	4	CSATPPEA	ADDRESS OF TERMINAL PAGING PROGRAM
(11C)	ADDRESS	4	CSAIIPEA	ADDRESS OF NON-3270 INPUT MAPPING PROGRAM
(120)	ADDRESS	4	CSADWEXA	ADDRESS OF DWE PROCESSING EXIT
(124)	ADDRESS	4	CSADSBEA	ADDRESS OF DATA STREAM BUILD PROGRAM
(128)	ADDRESS	4	CSAPHPEA	ADDRESS OF PARTITION HANDLING PROGRAM
(12C)	ADDRESS	4	CSAML1EA	ADDRESS OF LU TYPE 1 MAPPING PROGRAM
MISCELLANEOUS PROGRAM ADDRESSES				

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(130)	ADDRESS	4	CSARTSUA	Address of DFHRTSU Surrogate interface
(134)	ADDRESS	4	CSAPCNNA	ADDRESS OF NON-WORKING SET PROGRAM CONTROL PROGRAM
(138)	ADDRESS	4	CSAGCAAC	ADDRESS OF GET_CAA ROUTINE *
(13C)	ADDRESS	4	CSASCAAC	ADDRESS OF SET_CAA ROUTINE *
(140)	ADDRESS	4	CSATMPNA	ADDRESS OF TABLE MANAGER PROGRAM
(144)	ADDRESS	4	CSACMPAC	ADDRESS OF MONITORING PROGRAM *
(148)	ADDRESS	4	CSAERMRS	Address of RMI Resync module *
(14C)	ADDRESS	4	CSACRLBA	ADDRESS OF BIND TIME LOGGING PROGRAM FOR OLD-MRO/LU6.1
(150)	ADDRESS	4	CSAACPNA	ADDRESS OF ABNORMAL CONDITION PROGRAM
(154)	ADDRESS	4	CSAIRPNA	ADDRESS OF INTER-REGION COMMUNICATION PROGRAM
(158)	ADDRESS	4	CSAUEHNA	ADDRESS OF USER EXIT HANDLER PROGRAM
(15C)	ADDRESS	4	CSALETRU	Address of DFHLETRU
(160)	ADDRESS	4	CSAMCYEA	addr BMS MAPPINGDEV module DFHMCY
(164)	ADDRESS	4	CSAXFXNA	ADDRESS OF FAST-PATH TRANSFORMER PROGRAM
(168)	ADDRESS	4	CSAPSNAC	ADDR SYSTEM SPOOLING INTERFACE CONTROL MODULE
(16C)	ADDRESS	4	CSASKMNA	ADDRESS SUBTASK MANAGEMENT MODULE
(170)	ADDRESS	4	CSAAPRRA	Addr IPIC TR router
(174)	ADDRESS	4	CSAAPRXA	Addr IPIC TR transformer
(178)	ADDRESS	4	CSAZBANA	ADDRESS ZC BIND ANALYSIS
(17C)	ADDRESS	4	CSATBSNA	ADDRESS TABLE BLDR SERVS
(180)	ADDRESS	4	CSAXQONA	ADDRESS DFHZXQO
(184)	ADDRESS	4	CSAAPRDA	ADDRESS OF AP RD GATE

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(188)	ADDRESS	4	CSAZCQNA	ADDRESS OF ZCQ INST/DELETE
	MISCELLANEOUS TABLE AND CONTROL BLOCK ADDRESSES			
(18C)	ADDRESS	4	CSASSA	ADDRESS OF STATIC STORAGE AREA ADDRESS LIST
(190)	ADDRESS	4	CSATCSEA	ADDRESS OF LOCAL TERMINAL CONTROL SYSTEM ENTRY
(194)	ADDRESS	4	CSAUETBA	ADDRESS OF USER EXIT TABLE
(198)	ADDRESS	4	CSAMROQP	Address of MRO work Q manager *
(19C)	ADDRESS	4	CSACRBA	ADDRESS OF CICS REGION BLOCK *
(1A0)	ADDRESS	4	CSAAUDTA	ADDRESS USED IN EITL
(1A4)	ADDRESS	4	*	Reserved
(1A8)	ADDRESS	4	CSAPSCBA	ADDR OF SYS SPOOLING INTERFACE GLOBAL CONTROL BLOCK(PSG).
(1AC)	ADDRESS	4	*	Reserved
(1B0)	CHARACTER	8	CSAURDTK	URD/non-task DWE subpool token
	CATALOG CONTROL FLAG BYTE			
(1B8)	BIT(8)	1	CSACATFL	CATALOG flag byte
(1B8)	1...		CSACATDF	CATALOG defined
	SYSTEM LOG COMMUNICATION FLAG BYTE			
(1B9)	BIT(8)	1	CSALOGFL	SYSTEM LOG flag byte
(1B9)	1...		CSALOGDF	SYSTEM LOG defined ..
(1BA)	BIT(8)	1	*	Reserved
(1BB)	BIT(8)	1	*	Reserved
	INTER-REGION COMMUNICATION FLAG BYTES			
(1BC)	BIT(8)	1	CSACRFL1	CICS REGION FLAG BYTE
(1BC)	1...		CSACRNTC	DFHTCP GENERATED WITHOUT IRC
(1BC)	.11.		*	Reserved
(1BC)	...1		CSACRSTF	HIGH-LEVEL STAE FAILED
(1BD)	BIT(8)	1	CSACRFL2	CICS REGION FLAG BYTE 2
(1BD)	1...		CSACRASS	ASSOCIATE has been issued
(1BD)	.1..		CSACRWEA	MRO work queue elems acquired
	BASIC MAPPING SUPPORT FLAG BYTE			

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1BE)	BIT(8)	1	CSABMSFL	BMS FLAG BYTE
(1BE)	1...		CSACSPQI	TRANSACTION CSPQ HAS BEEN INITIATED
(1BE)	.1..		CSAALIGN	PRE 1.6 MAPS ARE ALIGNED
(1BE)	..1.		CSANDDS	NO DEVICE DEPENDENT SUFFIXING
(1BE)	...1		CSANSKR	NO SINGLE KEY RETRIEVAL
(1BF)	BIT(8)	1	*	Reserved
DFHPILSQ flags BA49155C				
(1C0)	BIT(8)	1	CSAPIFLG	DFHPILSQ flags
(1C0)	1...		CSAPIMSG_ISSUED	Indicates msg DFHPI0118 issued - prevents multiple msgs
SIGNON COMPONENT FIELDS				
(1C1)	BIT(8)	1	CSASNFLG	SIGNON COMPONENT FLAGS
(1C1)	1...		CSASNXRF	COPY OF SITXSFRC FLAG
(1C2)	BIT(8)	1	*	Reserved
(1C3)	BIT(8)	1	*	Reserved
WEB STORAGE ANCHOR ADDRESS				
(1C4)	ADDRESS	4	CSAWEBAN	Stg anchor for Web
EXECUTABLE SUPERVISOR CALL INSTRUCTIONS				
(1C8)	FULLWORD	4	*	Reserved
(1CC)	CHARACTER	2	CSASVSVC	SERVICE SVC...
(1CC)	BIT(8)	1	*	
(1CD)	BIT(8)	1	CSASVSNO	SERVICS SVC NUMBER
(1CE)	CHARACTER	2	CSASISVC	SERVICE INITIATION SVC...
(1CE)	BIT(8)	1	*	
(1CF)	BIT(8)	1	CSASISNO	SERVICE INIT.SVC NUMBER
STATISTICS FIELDS				
(1D0)	HALFWORD	2	*	Reserved
(1D2)	HALFWORD	2	CSATBSDD	DFHBSMSG DIAGNOSTIC DUMP CODE
CICS SERVICE-LEVEL SUPPORT FIELD				
(1D4)	ADDRESS	4	CSACICNA	ADDRESS OF SERVICE-LEVEL ENTRYPT
(1D8)	ADDRESS	4	*	Reserved
(1DC)	CHARACTER	8	CSATGOTK	Subpool token ICE DSTGODR

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1E4)	CHARACTER	8	CSA_ACD_TK	Subpool token ICE DSTGACD
(1EC)	CHARACTER	8	CSA_2ACD_TK	Subpool token ICE DSTG2ACD
(1F4)	CHARACTER	8	CSA_ICUS_TK	Subpool token ICE_ICUS
(1FC)	CHARACTER	8	CSA_TFUS_TK	Subpool token TCTTE TFUS
CICS SYSTEM DEFINITION USER COUNT				
(204)	FULLWORD	4	CSACSDCT	NUMBER OF CURRENT USERS OF CICS SYSTEM DEFINITION
FURTHER MISCELLANEOUS PROGRAM ADDRESSES AND OTHER INFORMATION				
(208)	CHARACTER	0	CSAOPF5S	START OF BLOCK 5
(208)	BIT(8)	1	CSAPLTSC	PLTPI security options
(208)	1...		CSAPLTCM	Command level check
(208)	.1..		CSAPLTRS	Resource level check
(208)	..11 111.		*	Reserved
(208)	1		CSAPLTYS	PLTPI requested
(209)	CHARACTER	11	CSAPLTID	PLTPI user id
(209)	UNSIGNED	1	CSAPLTIL	PLTPI user id length
(20A)	CHARACTER	10	CSAPLTIV	PLTPI user id value
(214)	CHARACTER	8	CSAAID31	AID token
(21C)	ADDRESS	4	CSAEXNQS	EXEC enqueue pool (string)
(220)	ADDRESS	4	CSAEXNQA	EXEC enqueue pool (address)
(224)	ADDRESS	4	CSAEXNQG	EXEC enqueue pool (global)
(228)	ADDRESS	4	*	Reserved
(22C)	CHARACTER	8	CSABMSPT	BMS CICS LIFETIME SP TOKEN
(234)	CHARACTER	8	CSAEDFTK	EDF Subpool token
(23C)	ADDRESS	4	CSADBCR	address of DFHDBCR
(240)	ADDRESS	4	CSASKCEP	Entry point of DFHSK
(244)	ADDRESS	4	CSADLI	DL/I interface entry
(248)	ADDRESS	4	CSABFNAC	Built-in function
(24C)	ADDRESS	4	CSABMS	BMS control entry
(250)	ADDRESS	4	CSAJCNA1	Journal control entry
(254)	ADDRESS	4	CSAJCNA2	Journal control entry
(258)	ADDRESS	4	CSADLIM	Entry point of DFHDLI
FURTHER MISCELLANEOUS CONTROL BLOCK ADDRESSES AND OTHER INFORMATION				
(25C)	CHARACTER	4	*	Reserved
(260)	CHARACTER	8	CSAAPXDS	Subpool for trandef ext

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(268)	CHARACTER	8	CSADRPGN	DYNAMIC ROUTING PROGRAM NAME
(270)	ADDRESS	4	CSAFCEP	FILE CONTROL ENTRY POINT
(274)	ADDRESS	4	CSATCNCR	Address of DFHZXCR
START OF XRF SPECIFIC ADDRESSES				
(278)	ADDRESS	4	CSAXRPNA	Address of DFHXRP
(27C)	ADDRESS	4	CSAXRFNT	Address of DFHWMS
END OF XRF SPECIFIC ADDRESSES AP Domain: Domain storage control areas				
(280)	CHARACTER	8	CSADWETK	DWE subpool
(288)	CHARACTER	8	CSADS24T	Subpool token for storage below 16M
(290)	CHARACTER	8	CSABMSTK	BMS 3270 Integrity
(298)	CHARACTER	8	CSADSANT	Subpool token for storage above 16M
AP Domain: MISC. MODULES AND SUBROUTINES				
(2A0)	ADDRESS	4	CSAAPDSN	Dispatcher TASK_REPLY gate *
(2A4)	ADDRESS	4	CSAAPJCN	Journalling gate service *
(2A8)	ADDRESS	4	CSAAPEPN	User exit gate program
(2AC)	ADDRESS	4	CSALELTKN	LE Lock Token
(2B0)	ADDRESS	4	CSAAPSTN	Statistics gate service
(2B4)	ADDRESS	4	CSAAPTIN	Timer gate service
(2B8)	ADDRESS	4	CSAAPTRN	Trace gate service
(2BC)	ADDRESS	4	CSASUSXN	XRF Security Subroutine
(2C0)	ADDRESS	4	CSASUWTN	WTO Interface Subroutine *
(2C4)	ADDRESS	4	CSASUZXN	ZC Trace Controller Subroutine *
(2C8)	ADDRESS	4	CSAAPTIM	midnight task module
(2CC)	ADDRESS	4	CSAAPTIX	expiry task module
(2D0)	ADDRESS	4	CSAAPSTG	AP Domain - statistics global storage
(2D4)	ADDRESS	4	CSATDNA2	Transient Data Internal Entry - address of DFHTDQ
(2D8)	FULLWORD	4	CSAHPOCT	HPO count
(2DC)	ADDRESS	4	CSAZCUTN	attachsec userid table mgr
(2E0)	ADDRESS	4	CSASMATK	SM access token (for SMSR INQUIRE_ACCESS function)
(2E4)	ADDRESS	4	CSASMITK	SM isolation token (for SMSR SWITCH_SUBSPACE function)

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2E8)	ADDRESS	4	CSATSITK	TS inquire token (for TSSH INQUIRE_POOL_TOKEN func
(2EC)	ADDRESS	4	CSASZADA	FEPI Adapter prog address
(2F0)	CHARACTER	8	CSADU24T	Subpool token for USER key storage below 16M
(2F8)	CHARACTER	8	CSADUANT	Subpool token for USER key storage above 16M
(300)	CHARACTER	16	CSADS64T	Subpool token for CICS key storage above bar
(310)	CHARACTER	16	CSADU64T	Subpool token for USER key storage above bar
(320)	CHARACTER	0	CSAOPF5E	END OF BLOCK 5
VECTOR of Addresses of EXEC Command Processor Modules Listed in order of Group Code Named as the modules, with CSA replacing DFH				
(320)	CHARACTER	512	CSAEXECS	Base for vector
Group Command Group				
(320)	ADDRESS	4	CSAEIP	00 DFHEIP (slot left null) *
(324)	ADDRESS	4	CSAEEI	02 Assign, etc
(328)	ADDRESS	4	CSAETC	04 Terminal
(32C)	ADDRESS	4	CSAEIFC	06 File
(330)	ADDRESS	4	CSAETD	08 Transient Data
(334)	ADDRESS	4	CSAEITS	0A Temporary Storage
(338)	ADDRESS	4	CSAESC	0C Storage
(33C)	ADDRESS	4	CSAEPC	0E Program
(340)	ADDRESS	4	CSAEIIC	10 Time
(344)	ADDRESS	4	CSAEKC	12 Task
(348)	ADDRESS	4	CSAEJC	14 Journalnum
(34C)	ADDRESS	4	CSAEISP	16 Syncpoint
(350)	ADDRESS	4	CSAEMS	18 BMS
(354)	ADDRESS	4	CSAETR	1A Trace
(358)	ADDRESS	4	CSAEDC	1C Dump
(35C)	ADDRESS	4	CSAEDI	1E Issue ...
(360)	ADDRESS	4	CSAEBF	20 BIF
(364)	ADDRESS	4	CSAUEM	22 Enable/disable exits *
(368)	ADDRESS	4	CSAEGL	24 GDS ...
(36C)	ADDRESS	4	CSAEIML	26 XML transform cmd
(370)	ADDRESS	4	CSAEIEC	28 Event Processor cmd
(374)	ADDRESS	4	*	2A Available-was EIDEF
(378)	ADDRESS	4	*	2C Available-was EIDEL
(37C)	ADDRESS	4	*	2E Available-was EIINS

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(380)	ADDRESS	4	CSAEICRE	30 All CREATE commands
(384)	ADDRESS	4	*	32 Reserved
(388)	ADDRESS	4	CSAEIBAM	34 All BAM commands
(38C)	ADDRESS	4	CSAEIEM	36 Event Manager
(390)	ADDRESS	4	CSAEIWB	38 Web commands
(394)	ADDRESS	4	CSAEIQRR	3A Reserved
(398)	ADDRESS	4	CSAEIDH	3C Document Commands
(39C)	ADDRESS	4	CSAEISO	3E Sockets Commands
(3A0)	ADDRESS	4	*	40 Used by DL/I
(3A4)	ADDRESS	4	CSAEIQTM	42 INQ/REM Autinstmodel *
(3A8)	ADDRESS	4	CSAEIQPN	44 INQ/REM Partner
(3AC)	ADDRESS	4	CSAEIQPF	46 INQ/REM Profile
(3B0)	ADDRESS	4	CSAETRX	48 Trace (enhanced)
(3B4)	ADDRESS	4	CSAEIDTI	4A Asktime/Formattime
(3B8)	ADDRESS	4	CSAEIQDS	4C INQ/SET/REM File
(3BC)	ADDRESS	4	CSAEIQSP	4E INQ/SET/REM Program
(3C0)	ADDRESS	4	CSAEIQSX	50 INQ/SET/REM Transaction *
(3C4)	ADDRESS	4	CSAEIQST	52 INQ/SET/REM Terminal *
(3C8)	ADDRESS	4	CSAEIQSA	54 INQ/SET System
(3CC)	ADDRESS	4	CSAEPS	56 Spooler
(3D0)	ADDRESS	4	CSAEIQSC	58 INQ/SET/ Connection
(3D4)	ADDRESS	4	CSAEIQSM	5A INQ/SET Modename
(3D8)	ADDRESS	4	CSAEIQSQ	5C INQ/SET Tdqueue
(3DC)	ADDRESS	4	CSAEIQSK	5E INQ/SET Task
(3E0)	ADDRESS	4	CSAEIQSJ	60 INQ/SET Journalnum
(3E4)	ADDRESS	4	CSAEIQSV	62 INQ/SET Volume
(3E8)	ADDRESS	4	CSAEIPSE	64 PERF Security Rebuild *
(3EC)	ADDRESS	4	CSAEIQDU	66 INQ/SET ...dump...
(3F0)	ADDRESS	4	CSAEIQVT	68 INQ/SET VTAM
(3F4)	ADDRESS	4	CSAESE	6A Query Security
(3F8)	ADDRESS	4	CSAEOP	6C WTO, etc.
(3FC)	ADDRESS	4	CSAEIQIR	6E INQ/SET IRC
(400)	ADDRESS	4	CSAEIQMS	70 INQ/SET Monitor, Stats *
(404)	ADDRESS	4	CSAEIPRT	72 PERF Resettime
(408)	ADDRESS	4	CSAESN	74 Sign-on/off
(40C)	ADDRESS	4	CSAEIPSH	76 PERF Shutdown
(410)	ADDRESS	4	CSAEIQTR	78 INQ/SET Trace..
(414)	ADDRESS	4	CSAEIQDN	7A INQ/SET Dsname

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(418)	ADDRESS	4	CSAEIQMT	7C old CEMT commands
(41C)	ADDRESS	4	CSAEDCP	7E Dump Transaction/System *
(420)	ADDRESS	4	CSAEIQTS	80 INQ TSQUEUE
(424)	ADDRESS	4	CSAESZ	82 FEPI - API
(428)	ADDRESS	4	CSAEIQSZ	84 FEPI - SPI
(42C)	ADDRESS	4	CSAEIACQ	86 ACQUIRE
(430)	ADDRESS	4	CSAEIQUE	88 INQ Exitprogram
(434)	ADDRESS	4	CSAEIQRQ	8A INQ Reqid
(438)	ADDRESS	4	CSAEMEX	8C ME Domain exec
(43C)	ADDRESS	4	*	8E Reserved
(440)	ADDRESS	4	CSAEIUOW	90 INQ UOW UOWENQ UOWLINK
(444)	ADDRESS	4	CSAEIQSL	92 Inq Journalmodel
(448)	ADDRESS	4	CSAEIQD2	94 Inq/set CICS/DB2 objects
(44C)	ADDRESS	4	CSAEIQBA	96 Inq/set BAM objects
(450)	ADDRESS	4	CSAEIQCF	98 Inq CFDTPOOL
(454)	ADDRESS	4	CSAEIQOP	9A Inq Requestmodel
(458)	ADDRESS	4	CSAEIQSO	9C Inq TCPIPSERVICE
(45C)	ADDRESS	4	CSAEIQDH	9E Inq DOCTEMPLATE
(460)	ADDRESS	4	*	A0 Used by CEDA
(464)	ADDRESS	4	CSAEIQCS	A2 CSD SPI
(468)	ADDRESS	4	*	A4 Reserved for CEDA
(46C)	ADDRESS	4	*	A6 Reserved
(470)	ADDRESS	4	*	A8 Reserved
(474)	ADDRESS	4	*	AA Reserved
(478)	ADDRESS	4	*	AC Reserved
(47C)	ADDRESS	4	*	AE Reserved
(480)	ADDRESS	4	CSAEIQSY	B0 INQ/SET JVMPOOL
(484)	ADDRESS	4	CSAEIQEJ	B2 INQ EJB Commands
(488)	ADDRESS	4	CSAEIQBR	B4 INQ BRFACILITY
(48C)	ADDRESS	4	CSAEIQDI	B6 INQ/SET DISPATCHER
(490)	ADDRESS	4	CSAEIQWR	B8 INQ/SET WORKREQUEST
(494)	ADDRESS	4	*	BA Reserved for CSDUP
(498)	ADDRESS	4	CSAEIQPI	BC INQ/SET Pipeline
(49C)	ADDRESS	4	CSAEIQWB	BE INQ/SET WEB, URIMAP
(4A0)	ADDRESS	4	CSAEIPI	C0 WEBSERVICE API
(4A4)	ADDRESS	4	CSAEIQIS	C2 INQ IPCONN

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4A8)	ADDRESS	4	CSAEIQAS	C4 INQ ASSOCIATION
(4AC)	ADDRESS	4	CSAEIQLD	C6 INQ LIBRARY
(4B0)	ADDRESS	4	CSAEIQRL	C8 INQ BUNDLE
(4B4)	ADDRESS	4	CSAEIQEC	CA INQ EVENTBINDING
(4B8)	ADDRESS	4	CSAEIQW2	CC INQ ATOMSERVICE
(4BC)	ADDRESS	4	CSAEIQMQ	CE INQ MQMON
(4C0)	ADDRESS	4	*	D0 Reserved
(4C4)	ADDRESS	4	*	D2 Reserved
(4C8)	ADDRESS	4	*	D4 Reserved
(4CC)	ADDRESS	4	*	D6 Reserved
(4D0)	ADDRESS	4	*	D8 Reserved
(4D4)	ADDRESS	4	*	DA Reserved
(4D8)	ADDRESS	4	*	DC Reserved
(4DC)	ADDRESS	4	*	DE Reserved
(4E0)	ADDRESS	4	*	E0 Reserved
(4E4)	ADDRESS	4	*	E2 Reserved
(4E8)	ADDRESS	4	*	E4 Reserved
(4EC)	ADDRESS	4	*	E6 Reserved
(4F0)	ADDRESS	4	*	E8 Reserved
(4F4)	ADDRESS	4	*	EA Reserved
(4F8)	ADDRESS	4	*	EC Reserved
(4FC)	ADDRESS	4	*	EE Reserved
(500)	ADDRESS	4	*	F0 Reserved
(504)	ADDRESS	4	*	F2 Reserved
(508)	ADDRESS	4	*	F4 Reserved
(50C)	ADDRESS	4	*	F6 Reserved
(510)	ADDRESS	4	*	F8 Reserved
(514)	ADDRESS	4	*	FA Reserved
(518)	ADDRESS	4	*	FC Reserved
(51C)	ADDRESS	4	*	FE Reserved
End of EXEC module address vector Vector of routines provided to Language Environment				
(520)	CHARACTER	136	CSA_CEL_SERVICE_ VECTOR	
(520)	FULLWORD	4	CSA_CEL_SERVICE_ VECTOR_LENGTH	
(524)	BIT(32)	4	CSA_CEL_SERVICE_FLAGS	
(524)	BIT(8)	1	CSA_CEL_SERVICE_ FLAG_BYTE1	
(524)	1...		CSA_DFHGCAA_AVAIL	
(524)	.1..		CSA_DFHSCAA_AVAIL	
(524)	..1.		CSA_DFHLEGM_AVAIL	

Table 54. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(524)	...1		CSA_DFHLEFM_AVAIL	
(524)	.... 1...		CSA_DFHLEAS_AVAIL	
(524)	.... .1..		CSA_DFHLEDS_AVAIL	
(524)	.... ..1.		CSA_DFHLEGQ_AVAIL	
(524)	1		CSA_DFHLEFQ_AVAIL	
(525)	BIT(8)	1	CSA_CEL_SERVICE_ FLAG_BYTE2	
(525)	1...		CSA_DFHLETR_AVAIL	
(525)	.1..		CSA_DFHLEDT_AVAIL	
(525)	..1.		CSA_DFHLERO_AVAIL	
(525)	...1 1111		*	Reserved
(526)	BIT(8)	1	CSA_CEL_SERVICE_ FLAG_BYTE3	Reserved
(527)	BIT(8)	1	CSA_CEL_SERVICE_ FLAG_BYTE4	Reserved
(528)	CHARACTER	128	CSA_CEL_SERVICE_ ROUTINES	
(528)	ADDRESS	4	CSA_DFHGCAA_ADDRESS	
(52C)	ADDRESS	4	CSA_DFHSCAA_ADDRESS	
(530)	ADDRESS	4	CSA_DFHLEGM_ADDRESS	
(534)	ADDRESS	4	CSA_DFHLEFM_ADDRESS	
(538)	ADDRESS	4	CSA_DFHLEAS_ADDRESS	
(53C)	ADDRESS	4	CSA_DFHLEDS_ADDRESS	
(540)	ADDRESS	4	CSA_DFHLEGQ_ADDRESS	
(544)	ADDRESS	4	CSA_DFHLEFQ_ADDRESS	
(548)	ADDRESS	4	CSA_DFHLETR_ADDRESS	
(54C)	ADDRESS	4	CSA_DFHLEDT_ADDRESS	
(550)	ADDRESS	4	CSA_DFHLERO_ADDRESS	
(554)	ADDRESS	4	* (21)	Reserved
End of service routine vector END OF OPTIONAL FEATURES LIST				
(5A8)	CHARACTER	0	*	Reserved

Constants

Table 55.

Len	Type	Value	Name	Description
CONSTANTS OPERATING SYSTEM AND CICS LEVEL INDICATORS CSAOPSYS - OPERATING SYSTEM				
1	CHARACTER	E	CSAVSE	DOS/VSE
1	CHARACTER	M	CSAMVS	OS/MVS
1	CHARACTER	X	CSAMVX	MVS/ESA
CSAOPREL - OPERATING SYSTEM RELEASE CSACIREL - CICS RELEASE				

Table 55. (continued)

Len	Type	Value	Name	Description
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
1	HEX	53	CSAC53	VERSION 5, RELEASE 3
1	HEX	61	CSAC61	VERSION 6, RELEASE 1
1	HEX	62	CSAC62	VERSION 6, RELEASE 2
1	HEX	63	CSAC63	VERSION 6, RELEASE 3
1	HEX	64	CSAC64	VERSION 6, RELEASE 4
1	HEX	65	CSAC65	VERSION 6, RELEASE 5
1	HEX	66	CSAC66	VERSION 6, RELEASE 6
1	HEX	67	CSAC67	VERSION 6, RELEASE 7
1	HEX	68	CSAC68	VERSION 6, RELEASE 8
1	HEX	69	CSAC69	VERSION 6, RELEASE 9
1	HEX	70	CSAC70	VERSION 7, RELEASE 0
1	HEX	71	CSAC71	VERSION 7, RELEASE 1
1	HEX	00	CSAMOD00	modification level 0
1	HEX	01	CSAMOD01	modification level 1
1	HEX	02	CSAMOD02	modification level 2
1	HEX	03	CSAMOD03	modification level 3

CTXPA - DL/I General purpose macro

```
MACRO NAME = DFHDLP
DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1981, 2016
FUNCTION =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = SEE COMMENTS IN CODE
 MODULE TYPE = EXECUTABLE
      A31849
```

```
 D96439 700 141031 HD2GJST: Fix DFHDLI info messages
 D97034 700 141117 HD2GJST: Fix Control block formatting
R126793 710 160727 HDFVGMB: Save DBCTLID over disconnect
```

Table 56.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHCTXPA	,
(0)	ADDRESS	4	CTEINIT	Init Token - Addresses the DGB
(4)	CHARACTER	4	CTEDBCTL	DCBTL ID
(8)	CHARACTER	2	CTEOFUNC (0)	DRA Over-all function code
(8)	CHARACTER	1	CTEFUNC	DRA Function code
(8)	.... ..1.		CTERSYN	"X'02'" Resync
(8)	.... .1.1		CTEFAIL	"X'05'" DRA/DBCTL Failure
(9)	BITSTRING	1	CTESFUNC	DRA Sub-function code
(9)	1		CTEIDFL	"X'01'" IDENTIFY Failed
(9)	.... ..1.		CTECANC	"X'02'" INIT request failed
(9)	11		CTEDBCF	"X'03'" DBCTL has terminated
(9)	.... .1..		CTEDRAF	"X'04'" DRA Abnormally terminating
(9)	.... .1.1		CTEDBCC	"X'05'" /CHR FREEZE issued
(A)	HALFWORD	2	CTEIDLEN	In-doubt List Length (-1 indicates failure in Adapter)
(C)	ADDRESS	4	CTEIDPTR	In-doubt List pointer
(10)	CHARACTER	8	CTEJOBNM	Jobname of active DBCTL sub-system
(18)	CHARACTER	1	CTECRC	DBCTL Command Recognition character
(19)	CHARACTER	1	CTERGTY	DBCTL Region type
(19)	1		CTEDBCX	"X'01'" DB/DC with XRF
(19)	.... ..1.		CTEDBCO	"X'02'" DB/DC Only
(19)	.... .1..		CTEDBCL	"X'04'" DBCTL
(1A)	BITSTRING	2	CTEMITCB	Minimum number of TCBs
(1C)	BITSTRING	2	CTEMATCB	Maximum number of TCBs
(1E)	CHARACTER	1	CTERCOD	DBCTL Failure reason code
(1E)	1		CTESSF	"X'01'" MVS SSI Failure
(1E)	.... ..1.		CTEABND	"X'02'" DBCTL Abend
(1E)	11		CTEGMF	"X'03'" DRA Getmain Failure during INIT
(1E)	.... .1..		CTEOPC	"X'04'" System Operator cancelled Init
(1E)	.... .1.1		CTEDBNZ	"X'05'" DBCTL set non-zero ret on Identify

Table 56. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1E)	.... .11.		CTEESTF	"X'06"' DRA could not establish ESTAE
(1E)	.... .111		CTEDRAA	"X'07"' DRA abended
(1E)	.... 1...		CTENTUP	"X'08"' DBCTL is not active
(1E)	.... 1..1		CTENOSS	"X'09"' DBCTL does not exist
(1E)	.... 1.1.		CTENINT	"X'0A"' DBCTL is in initialisation process
(1E)	.... 1.11		CTERSTN	"X'0B"' DBCTL init done, waiting for restart
(1E)	.... 11..		CTERST	"X'0C"' DBCTL is in restart process
(1E)	.... 11.1		CTEBRST	"X'0D"' Backup in ERE mode
(1E)	.... 111.		CTETKOV	"X'0E"' Takeover mode
(1E)	 1111		CTEITCF	"X'0F"' Internal DRA TERM after CHEFZ
DS CL3				
(1F)	BITSTRING	4	CTEPARETC	PAPARETC
(23)	BITSTRING	2	CTEASID	DBCTL ASID
(25)	CHARACTER	8	CTEJOBID	DBCTL JES Job ID
(2D)	CHARACTER	8	CTERSEN	DBCTL RSE Name
(38)	FULLWORD	4	CTENOMITHD	Number of times min thread hit
(3C)	FULLWORD	4	CTENOMATHD	Number of times max thread hit
(40)	FULLWORD	4	CTEELMAX	Elapsed time at max thread
(44)	FULLWORD	4	CTEHIWAT	Highest number of threads attached
(44)	.1.. 1...		CTELNGTH	"*-DFHCTXPA" End of Control Exit Parameter List

CWE - DL/I General purpose macro

```
MACRO NAME = DFHDLP
DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1981, 2016
FUNCTION =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = SEE COMMENTS IN CODE
 MODULE TYPE = EXECUTABLE
      A31849
      D96439 700 141031 HD2GJST: Fix DFHDLI info messages
      D97034 700 141117 HD2GJST: Fix Control block formatting
     R126793 710 160727 HDFVGMB: Save DBCTLID over disconnect
```

Table 57.

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

DSB - DBCTL Scheduling block

```
CONTROL BLOCK NAME = DFHDSB
   (In DFHDBCOP, invoked via DFHDBMAC)
   (Invoked by DFHDLP DSB=DSECT)
DESCRIPTIVE NAME = CICS TS DBCTL Scheduling Block
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1986, 2016
FUNCTION =
Used to store task-related information
regarding the CICS-DBCTL interface.
LIFETIME =
The DBCTL Scheduling Block (DSB) is acquired when a task issues
its first schedule request to DBCTL. It is cleared just before
each subsequent schedule request from the same task is processed.
It is released at task termination.
LOCATION = PAPL token -> DSB
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control Block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
      TCA, DGB, PCB list.
 CONTROL BLOCKS =
     DBCTL exit addresses
 GLOBAL VARIABLES (Macro pass) = None
```

Table 58.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	656	DFHDSB	
Fields common to all DSBs				
(0)	CHARACTER	8	DSBDESC	Set to DFHDSB
(8)	ADDRESS	4	DSBTCA	Address of the TCA
(C)	ADDRESS	4	DSBDGB	Address of the DGB
(10)	ADDRESS	4	DSBTTOK	Task Token

Table 58. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
Contains address of DSB				
(14)	ADDRESS	4	DSBTECB	Task ECB used by Suspend and
Resume exits				
(18)	ADDRESS	4	DSBRESPW	Pointer to the response word -
This field is set by DFHDBAT				
(1C)	ADDRESS	4	DSBSSX	pointer to the status exit extn
(20)	CHARACTER	1	DSBRTYP	Request Type
I: Connection Request T: Disconnection Request P: PSB Schedule Request D: DL/I Request R: Resync S: CICS Shutdown				
Fields relating to Schedule Requests These fields are relevant for the duration of a schedule Term cycle.				
(21)	BIT(8)	1	DSBFLAGS	
(21)	1...		DSBSCHED	Indicator for schedule 1 : DBCTL PSB scheduled successfully during task 0 : DBCTL PSB never schedule
(21)	.1..		DSBIOREQ	Indicator for IOPCB 1 : IOPCB required 0 : IOPCB not required
(21)	..1.		DSBINRMC	This task in DFHRMCAL This bit is set and reset in a single request
(21)	...1		DSB_WAIT	Wait in IMS request ind.
(21)	.... 1...		DSBTRLV2	Trace Flag used by DBREX 1 : RMI lvl 2 trace active 0 : RMI lvl 2 trace inactive
(21)	.... .1..		DSBPREP	We have seen prepare
(21)	.... ..1.		DSBDPL	Was this DPL'd to
(21)	1		DSBPSK	DRA supports PSK
(22)	CHARACTER	8	DSBPSBNM	PSB name
(2A)	UNSIGNED	1	DSBWRTH	Deadlock worth
(2B)	CHARACTER	1	DSBLSFL	Long-Short flag
(2C)	ADDRESS	4	DSBPCBL	Address of PCB List
(2C)	FULLWORD	4	DSBTIMEO	Shutdown timeout value
(30)	ADDRESS	4	DSBDBPCB	Address of first DBPCB
(34)	FULLWORD	4	DSBMAXIO	Maximum IO size
(38)	FULLWORD	4	DSBMAXKE	Maximum key length
(3C)	ADDRESS	4	DSBADGMA	Addr getmn'd area
(40)	FULLWORD	4	DSBLATFM	Lgth area to free
(44)	CHARACTER	1	DSBPLTY	PSB language type
Fields relating to DL/I requests				

Table 58. (continued)

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

R1 Parameter List for a Connection Request to the Adapter

Table 59.

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

Response From a Connection Request to the Adapter

Table 60.

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

R1 Parameter list for a Disconnection Request to the Adapter

Table 61.

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

Response from a Disconnection Request to the Adapter

Table 62.

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

R1 parameter list for PSB Schedule request to the Adapter

Table 63.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	36	DSBPSBP	
(0)	ADDRESS	4	DSBPSRTYPA	Address of the Request Type
(4)	ADDRESS	4	DSBPSTTOKA	Address of the Task Token

Table 63. (continued)

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

`Response from a PSB Schedule request to the Adapter`

Table 64.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DSBPSBR	
(0)	HALFWORD	2	DSBPSRESPL	Length of the Response
(2)	CHARACTER	1	DSBPSPLTY	PSB Language Type
(3)	BIT(8)	1	DSBPSFLAGS	
(3)	1111 1...		*	Reserved
(3)	.... .1..		DSBPSP31	PCB Loc 31
(3)	.... ..1.		*	Reserved
(3)	1		DSBPSPSK	DRA supports PSK
(4)	UNSIGNED	4	DSBPSPRETC	Return Code from the PAPL
(8)	ADDRESS	4	DSBPSPCBL	Address of PCB list
(C)	ADDRESS	4	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 65.

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

`Response from a DL/I request to the ADAPTER`

Table 66.

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

`Format of PAPLRETC response code from the DRA`

Table 67.

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

Constants

Table 68.

Len	Type	Value	Name	Description
`Possible values of DSBTERT`				
1	CHARACTER	O	DSBTERT_ORD	
1	CHARACTER	I	DSBTERT_IMM	
1	CHARACTER	A	DSBTERT_ABND	
`Possible values of DSBRTP`				
1	CHARACTER	I	DSBINIT_REQ	initialization DSB
1	CHARACTER	T	DSBTERM_REQ	termination DSB
1	CHARACTER	P	DSBPSB_REQ	schedule DSB
1	CHARACTER	D	DSBDLI_REQ	DLI req DSB
1	CHARACTER	R	DSBRES_REQ	resync DSB
1	CHARACTER	S	DSBSHU_REQ	shutdown DSB
`Possible values of DSBALTY and DSBPLTY`				
1	HEX	01	DSBLPLI	PL/I
1	HEX	02	DSBLCOB	COBOL
1	HEX	03	DSBLFOR	Fortran
1	HEX	04	DSBLASM	assembler
1	HEX	08	DSBLAIB	AIB
`Value of DSBWRTH`				
1	DECIMAL	87	DSBWRTH_CICS	
`Value of DSBLSFL`				
1	HEX	80	DSBLSFL_CICS	CICS tasks classed as short

Table 68. (continued)

Len	Type	Value	Name	Description
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 TS DBCTL-CICS Global Block
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1986, 2016
FUNCTION =
Used to store connection/disconnection information
regarding the CICS-DBCTL interface.
LIFETIME =
The DBCTL Global Block (DGB) is acquired when initialisation
of the CICS-DBCTL interface is first attempted.
It is used to store connection/disconnection information
regarding the CICS-DBCTL interface.
It is released at the end of the CICS session.
LOCATION = CSA->OPFL->DLP->DGB
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control Block definition
-------------------------------------------------------------------
```

```
EXTERNAL REFERENCES =
 CSA, DLP, Control Transaction Area, DBCTL-XRF area
 DATA AREAS =
     Values from MVS and JES control blocks concerning DBCTL
 CONTROL BLOCKS =
     DBCTL exit addresses
 GLOBAL VARIABLES (Macro pass) = None
```

Table 69.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	252	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
(25)	UNSIGNED	3	DGBDSTCT	Count incremented by 1 when DGBDSTAT is updated or when the control exit is notified by DBCTL of a change in DBCTL's state
(28)	CHARACTER	4	DGBCFLAGCS	Added for CS logic
(28)	CHARACTER	1	DGBCFLAG	Cleanup flag
(28)	1...		DGBDFAIL	DBCTL or DRA has failed
(28)	.1..		DGBATEN	Indicator for adapter enable 1 0 : Not enabled yet
(28)	..1.		DGBDXERR	Indicator for XRF proc's 0 : Enabled 1 : Disabled due to error
(28)	...1		DGBCABORT	CICS aborted the connection..
(28)	.... 1...		DGBMNPND1	MN call 1 got back POINT_NOT_DEFINED
(28)	.... .1..		DGBMNPND2	MN call 2 got back POINT_NOT_DEFINED
(28)	11		*	Reserved
(29)	UNSIGNED	3	DGBDRMCT	Count of number of DFHRMCAL requests active in the ADAPTER/DRA

Table 69. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2C)	FULLWORD	4	DGBPSBSU	Total number of successful PSB schedule requests
	Connection information			
(30)	CHARACTER	2	DGBSTSU	Startup Table Suffix
(32)	CHARACTER	4	DGBIDBID	DBCTL id Override (if any)
(36)	CHARACTER	8	DGBCAPLD	CICS APPLID
(3E)	CHARACTER	2	*	Reserved
(40)	CHARACTER	4	DGBABORTCS	Added for CS logic
(40)	CHARACTER	1	DGBABORTRC	Reason for connection abort
(40)	1...		DGBNOPSK	Storage protect active but DRA does not support storage protection
(40)	.111 1111		*	Reserved
(41)	CHARACTER	3	*	Reserved
(44)	ADDRESS	4	DGBINITT	The INIT Token contains the address of the DGB
(48)	CHARACTER	4	DGBIECB	the Initialisation ECB
	Exit details Exit details - if the order of the exit fields is altered then DFHDBCON and DFHDBDI will require alteration			
(4C)	CHARACTER	8	DGBSPXE	Exit name
(54)	ADDRESS	4	DGBSPXA	Address of the Suspend exit
(58)	CHARACTER	8	DGBREXE	Exit name
(60)	ADDRESS	4	DGBREXA	Address of the Resume exit
(64)	CHARACTER	8	DGBCTXE	Exit name
(6C)	ADDRESS	4	DGBCTXA	Address of the Control exit
(70)	CHARACTER	8	DGBMOXE	Exit name
(78)	ADDRESS	4	DGBMOXA	Address of the Monitoring exit
(7C)	CHARACTER	8	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

Table 69. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C0)	UNSIGNED	2	DGBASID	DBCTL ASID
(C2)	CHARACTER	8	DGBJOBI	DBCTL JES Job Id
(CA)	CHARACTER	1	DGBCRC	DBCTL command recognition character
(CB)	CHARACTER	1	DGBRGTY	DBCTL region type
(CC)	HALFWORD	2	DGBMITHD	Minimum number of threads
(CE)	HALFWORD	2	DGBMATHD	Maximum number of threads
(D0)	CHARACTER	8	DGBRSEN	DBCTL RSE Name
(D8)	CHARACTER	4	DGBSDBID	Saved DBCTL ID for CPSM RTA
evaluation @R126793A IMS Support information				
(DC)	CHARACTER	1	DGBDLEV	Support flags(from PAPLDLEV)
(DC)	1111		*	Reserved
(DC)	.... 1...		DGBOTCB	IMS supports OTE environment
(DC)	.... .1..		DGBLPL31	PCB in 31 bit storage
(DC)	.... ..1.		DGBSUPD	DRA supports single updater
(DC)	1		DGBPSK	DRA supports PSK
Disconnection information				
(DD)	CHARACTER	1	DGBDISTY	Disconnection type
(DE)	CHARACTER	8	DGBDTIME	Disconnect time
Disconnection information returned from DBCTL These fields relate to the previous CICS-DBCTL session				
(E6)	CHARACTER	2	*	Reserved
(E8)	FULLWORD	4	DGBNOMATHD	Max thread hits
(EC)	FULLWORD	4	DGBNOMITHD	Min thread hits
(F0)	CHARACTER	4	DGBELMAX	Elapsed time at Max Threads
(F4)	FULLWORD	4	DGBHIWAT	Hi-Water for no. of Threads
(F8)	ADDRESS	4	DGBALOAD	Load addr ADAPTER-XFORMER

Table 70.

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

Table 70. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	1...		DGBCTLATT	Control transaction attached
(4)	.111 1111		*	Reserved
(5)	CHARACTER	3	*	Reserved
(8)	ADDRESS	4	DGBCECB	Control transaction ECB
(C)	CHARACTER	8	DGBDTIM	Time DRA last abnormally terminated
(14)	CHARACTER	16	DGBCWEERR	storage for control exit error CWE
(14)	ADDRESS	4	DGBCWEERRA	work ptr used in Building CWEERR
(18)	CHARACTER	12	*	Reserved
(24)	CHARACTER	16	DGBCWETERM	storage for control exit term CWE
(24)	ADDRESS	4	DGBCWETERMA	
(28)	CHARACTER	12	*	Reserved

Constants

Table 71.

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

DLP - DL/I General purpose macro

```
MACRO NAME = DFHDLP
DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1981, 2016
FUNCTION =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = SEE COMMENTS IN CODE
 MODULE TYPE = EXECUTABLE
      A31849
      D96439 700 141031 HD2GJST: Fix DFHDLI info messages
      D97034 700 141117 HD2GJST: Fix Control block formatting
     R126793 710 160727 HDFVGMB: Save DBCTLID over disconnect
```

Table 72.

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

Table 72. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(38)	ADDRESS	4	DLPLCKGWA	Lock Manager Token for Global Work Area
(38)	..11 11..		DLPDFEND	"*" End of dlp
(38)	.... 1...		DLPDISPL	"8" DISPLACEMENT IN PDIR FROM COUNT FIELD TO START OF THE DIRECTORY

RPD - DL/I General purpose macro

```
CONTROL BLOCK NAME = DFHRPD
DESCRIPTIVE NAME = CICS TS CICS DL/I General Purpose Macro
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1986, 2016
FUNCTION =
     Provide the remote PDIR entry.
NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = NONE
 MODULE TYPE = EXECUTABLE
-------------------------------------------------------------------
```

Table 73.

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

RSB - DL/I General Purpose Macro

```
MACRO NAME = DFHDLP
DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1981, 2016
FUNCTION =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = SEE COMMENTS IN CODE
 MODULE TYPE = EXECUTABLE
      A31849
```

```
 D96439 700 141031 HD2GJST: Fix DFHDLI info messages
 D97034 700 141117 HD2GJST: Fix Control block formatting
R126793 710 160727 HDFVGMB: Save DBCTLID over disconnect
  REMOTE SCHEDULING BLOCK
```

Table 74.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHRSBDS	
(0)	FULLWORD	4		STORAGE ACCOUNTING
(4)	FULLWORD	4		STORAGE ACCOUNTING
(4)	.... 1...		RSBSTART	"*" START OF RSB
(8)	ADDRESS	4	RSBPDIR	A(REMOTE PDIR ENTRY)
(C)	CHARACTER	4	RSBSYSID	REMOTE SYSTEM ID
PLIST FOR IS CONVERSE				
(10)	FULLWORD	4	RSBISPL (0)	
(10)	CHARACTER	1	(0)	REQUEST TYPE
(10)	CHARACTER	1		RETURN CODE
(11)	CHARACTER	1		MODIFIER, REQUEST INDEPENDENT
(12)	CHARACTER	1		MODIFIER, REQUEST DEPENDENT
(13)	CHARACTER	1		RESERVED
(14)	FULLWORD	4		TCTTE ADDRESS
(18)	FULLWORD	4	(0)	XFR ADDRESS
(18)	CHARACTER	4		TRANSACTION ID
(1C)	CHARACTER	4		REMOTE SYSTEM ID
(20)	CHARACTER	8		TRANSACTION ROUTING PROFILE
(28)	HALFWORD	2		Number of send sessions
(2A)	HALFWORD	2		Number of receive sessions
(2C)	CHARACTER	8		Connectee NETNAME
(34)	CHARACTER	8		Security name
(3C)	FULLWORD	4		Address of LCL entry
(40)	FULLWORD	4		Address of CRB
TRANSFORMER'S (DFHXFP'S) INTERFACE BLOCK CONTROL BLOCK NAME = DFHXFRDS NAME OF MATCHING PLS CONTROL BLOCK = None DESCRIPTIVE NAME = CICS TS Function Request Shipping Request Control Block. STATUS = 7.1.0 MACROS = DFHXFSTG FUNCTION = Defines the data transformation (XF) control block as used in batch and online environments.				
(48)	DBL WORD	8	XFRSTART (0)	XF control block - start

Table 74. (continued)

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

Table 74. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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		RESERVED
TRANSACTION ENTRY POINT RELEATED FIELDS				
(8C)	FULLWORD	4	XFRATACD	Addr. of TRANSACTION EP ACD
(90)	HALFWORD	2	XFRLTACD	Length of TRANSACTION EP ACD
(92)	BITSTRING	1	(10)	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
(B8)	CHARACTER	4	XFRABCD	Abend code returned from mirror
(BC)	BITSTRING	1	XFRFLAG4	Flag byte
(BC)	1...		XFRHTRAN	"X'80'" hex tranid present
(BC)	.1..		XFRDATAV	"X'40'" valid DATALENGTH supplied
(BC)	1111		ESCARGN	"240" Special id for escape sequence

Table 74. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
Fields used for passing terminal error information between MIRS/ISP and the transformer				
(BD)	BITSTRING	4	XFRTCERR	Terminal error
(C1)	CHARACTER	4	XFRTCABE	Terminal control abend code
(C5)	BITSTRING	4	XFRTCSNS	Terminal control sense data
(D0)	DBL WORD	8	CONTAINER_LIST (0)	
(D0)	ADDRESS	4	CONTAINER_LIST_P	Address of container list
(D4)	FULLWORD	4	CONTAINER_LIST_N	Length of container list
(D8)	FULLWORD	4	XFRCHOUT	# outbound channel bytes
(DC)	FULLWORD	4	XFRCHIN	# inbound channel bytes
FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT				
(48)	ADDRESS	4	XFRASTG1	ADDRESS OF STG CONTAINING THE FLATTENED PLIST. THE TRANSFORMER GETS NEW STG IF XFRASTGE IS 0 OR REUSES THE CURRENT STG IF THIS PROVES LARGE ENOUGH
(4C)	ADDRESS	4	XFRASTG4	ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I.
(50)	FULLWORD	4	XFRASTGL	LENGTH OF THE FLATTENED REPLY IN THE DL/I BUFFERS
FIELDS IN THE XF CONTROL BLOCK THAT ARE COMMON TO A BATCH AND ONLINE ENVIRONMENTS				
(E0)	ADDRESS	4	XFRPLIST	ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSF'R
(E4)	ADDRESS	4	XFRATABN	A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE
(E8)	ADDRESS	4	XFRATAB2	A(2ND TABLE ENTRY) - E.G. PDIR OR 0
(EC)	CHARACTER	1	XFRFORMN	THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS
(EC)	....		XFRTRAN1	"0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS
(EC)	.... ..1.		XFRTRAN2	"2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS

Table 74. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(EC)	.... .1..		XFRTRAN3	"4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES
(EC)	.... .11.		XFRTRAN4	"6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES
(ED)	CHARACTER	2	XFRARCHD	USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE
(EF)	CHARACTER	1	XFRGROUP	THE GROUP IDENTIFIER FOR THE CURRENT REQUEST
(EF)	.... .11.		XFRFCGRP	"X'06"' - THE CICS FC GROUP
(EF)	.... 1...		XFRTDGRP	"X'08"' - THE CICS TD GROUP
(EF)	.... 1.1.		XFRTSGRP	"X'0A"' - THE CICS TS GROUP
(EF)	...1		XFRICGRP	"X'10"' - THE CICS IC GROUP
(EF)	...1 .1..		XFRJCGRP	"X'14"' - THE CICS JC GROUP
(EF)	.1..		XFRDLGRP	"X'40"' - THE DL/I GROUP
(F0)	CHARACTER	1	XFRFUNCT	THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST
(F1)	CHARACTER	1	XFRFLAGS	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(F1)	1...		XFREILST	"X'80"' THE ARGUMENT LIST COMES FROM OR GOES TO EIP
(F1)	.1..		XFRDLLST	"X'40"' THE ARGUMENT LIST COMES FROM OR GOES TO DL/I
(F1)	..1.		XFRDLCNT	"X'20"' FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS
(F1)	...1		XFRDLPLI	"X'10"' THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS
(F1)	.... 1...		XFRATHDR	"X'08"' AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA
(F1)	.... .1..		XFRLNGRN	"X'04"' THE MIRROR TASK NEEDS TO BE LONG RUNNING

Table 74. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(F1)	.... ..1.		XFRNRPLY	"X'02'" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED
(F1)	1		XFRPRTCT	"X'01'" THE REQUEST IS TO BE SHIPPED PROTECTED
(F2)	CHARACTER	1	XFRFLAG1	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(F2)	1...		XFRLCLQ	"X'80'" THE REQUEST MAY BE QUEUED BEFORE SHIPPING
(F2)	.1..		XFRFCTK	"X'40'" FC Token can be shipped
(F2)	..1.		XFRFCRQ	"X'20'" Shipped FC request
(F2)	...1		XFRTMERR	"X'10'" Terminal error in xformer layer
(F2)	.... ..1.		XFRESCAP	"X'02'" Escape sequence preceding 4-byte legths may be found
(F2)	1		XFRCHANL	"X'01'" This is a CHANNEL request
(F3)	CHARACTER	1	XFRFLAG2	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(F3)	1...		XFRHAENT	"X'80'" DFHMIRVM has handled an abend; the abend code is to be found in the TACB
(F3)	.1..		XFRLENFD	"X'40'" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally
(F3)	..1.		XFRCHNSP	"X'20'" Other end of MRO link supports channels
(F3)	...1		XFRICRX	"X'10'" Other end of MRO link supports ICRXs
(F3)	.... 1...		XFRLCHAN	"X'08'" Link with prog or tran chan
(F3)	.... .1..		XFRCACX	"X'04'" Other end supports propagation of current app ctxt
(F3)	.... ..1.		XFRODRP	"X'02'" Other end supports propagation of Origin Data
(F3)	1		XFRACTX	"X'01'" Other end supports propagation of initial app ctxt

Table 74. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(F4)	CHARACTER	1	XFRFLAG3	PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED
(F5)	CHARACTER	2	XFRCODES (0)	FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER
(F5)	CHARACTER	1	XFRCODE1	THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS
(F5)	.... .1..		XFR1TO4	"4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4
(F5)	.... 1...		XFR1TOC	"8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I
(F5)	.... ..1.		XFR1XLNF	"2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS
(F5)	11.1 1.11		XFRLNKUN	"219" RESUNAVAIL condition raised in remote region
(F5)	...1 111.		XFRLNKAP	"30" Allocate request in ISP has been purged
(F5)	...1 11..		XFRLNKAR	"28" Allocate request in ISP has been rejected
(F5)	...1 1.1.		XFRLNKNI	"26" no sessions immediately available for allocate request
(F5)	...1 1...		XFRLNKPF	"24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING
(F5)	...1 .11.		XFRLNKSV	"22" TRANSID invalid, we are already in session with a different mirror transaction.
(F5)	...1 .1.1		XFRDWNLV	"21" The remote system does not support a keyword on this request
(F5)	...1 .1..		XFRLNKGP	"20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID

Table 74. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(F5)	...1 ..1.		XFRLNKSP	"18" SYNCONRETURN invalid, we are already in session with a mirror
(F5)	...1		XFRLNKLQ	"16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT
(F5)	.... 111.		XFRLNKAB	"14" xform 4 has processed ABCODE data
(F5)	.... 11..		XFRLNKNA	"12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE
(F5)	.... 1.1.		XFRLNKSF	"10" CONVERSE in DFHISP has failed
(F5)	.... 1..1		XFRLNKCP	"9" Special for CPSM only equ of XFRLNKSH.
(F5)	.... 1...		XFRLNKSH	"8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE
(F5)	.... .11.		XFRLNKNS	"6" Type of request (either LINK or START CHANNEL) is not supported over LU6.1 connections
(F5)	.... .1..		XFRLNKSY	"4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE
(F6)	CHARACTER	1	XFRCODE2	THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS
(F6)	.... .1..		XFR2TO3	"4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3
(F6)	.... 1...		XFRNEGR	"8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT
(F7)	CHARACTER	1	XFRABCDE	ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM
(F8)	ADDRESS	4	XFRRESR9	resumption base for DL/I function shipping

Table 74. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(FC)	ADDRESS	4	XFRRESRE	resumption address for DL/I function shipping
(100)	ADDRESS	4	XFRBEGOP	address of Arg0 options bytes
(104)	FULLWORD	4	XFRARGS (0)	ORIGIN FOR ARGUMENTS
(104)	1.11 11..		XFRLNGTH	"*-XFRSTART"
TRANSFORMER'S RESOURCE TABLE				
(108)	DBL WORD	8	DRXSTRT (0)	START OF DFHDRX
(108)	FULLWORD	4	DRXSSASZ	MAX SSA SIZE AS PERCEIVED BY THIS SYSTEM
(10C)	CHARACTER	8	DRXRPSB	NAME OF PSB TO BE USED ON REMOTE SYSTEM
(114)	ADDRESS	4	DRXPCBAL	A(LOCAL PCB ADDRESS LIST) THIS FIELD IS SET BY XFR4 DURING SCHEDULE CALL AND IS USED DURING DB CALLS
(118)	ADDRESS	4	DRXCHAIN	CHAIN OF STORAGE SEGMENTS OBTAINED BY TRANSFORMER 4
(11C)	ADDRESS	4	DRXIOAWK	A(READ SET BUFFER); BEFORE DRXBUFAL SET ON CONTAINS LENGTH FOR BUFFER
(120)	HALFWORD	2	DRXINDEX	THE PCB INDEX FOR THE CURRENT DATABASE CALL
(122)	BITSTRING	1	DRXISC	ISC FLAGS
(122)	1...		DRXPCBM	"X'80"' PRESENT TO RETAIN SDB - DL/I SIMILARITY
(122)	.1..		DRXBUFAL	"X'40"' READ-SET BUFFER HAS BEEN ALLOCATED; THE ADDRESS IS IN DRXIOAWK
(122)	..1.		DRXCHKP	"X'20"' PCB SCHED. ISSUED DURING CHKP CALL; XFR4 SHOULD USE STG FOR OLD PCBS AND LIST
(123)	BITSTRING	1	DRXISCO	ISC OUTBOUND FLAGS
(123)	1...		DRXSYNC	"X'80"' PRESENT TO RETAIN SDB - DL/I SIMILARITY
(123)	.1..		DRXHLPI	"X'40"' HLPI COMMAND WITH SSA AND I/O LENGTHS GIVEN

Table 74. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(124)	BITSTRING	1	DRXISCI	ISC INBOUND FLAGS
(124)	1...		DRXFUNC	"X'80'" FUNCTION STRING INVALID
(124)	.1..		DRXCALL	"X'40'" USER CALL PARM LIST INVALID
(124)	..1.		DRXLNKNA	"X'20'" LINK DOES NOT EXIST
(124)	...1		DRXLNKSH	"X'10'" LINK IS OUT OF SERVICE
(124)	.... 1...		DRXNOSTT	"X'08'" PRESENT TO RETAIN SDB - DL/I SIMILARITY
(125)	BITSTRING	1	DRXFCTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCAFCTR (SET BY XFR4)
(126)	BITSTRING	1	DRXDLTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCADLTR (SET BY XFR4)
(127)	BITSTRING	1	DRXLANG	LANGUAGE TYPE, USED BY XFR1 ON SCHEDULE CALL. IF PL/I THEN LEVEL OF INDIRECTION ADDED TO PCB LIST
(127)	11.. ...1		DRXASM	"C'A'" ASSEMBLER
(127)	11.. ..11		DRXCOB	"C'C'" COBOL
(127)	11.1 .111		DRXPLI	"C'P'" PL/I
(128)	BITSTRING	1	DRXFLG1	FLAG BYTE
(128)	1...		DRXCMPT	"X'80'" COMPAT OPTION USED (HENCE A DUMMY PCB MUST BE ADDED TO LIST, AND TAKEN ACCOUNT OF IN DB CALL)
(128)	.1..		DRXSPIE	"X'40'" TELL SPIE THAT IF PGM CHECK OCCURS, THEN INVOKE RETRY
(128)	..1.		DRXDPCB	"X'20'" THE DUMMY PCB HAS YET TO BE CREATED BY TRANSFORMER 4
(12C)	FULLWORD	4	DRXRETAD	ADDRESS OF POINT IN TRANSFORMER TO WHICH RETRY ROUTINE SHOULD RETURN
(130)	FULLWORD	4	DRXIOLEN	I/O AREA LENGTH FOR HLPI COMMAND - VALID IF DRXHLPI IS SET

Table 74. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(134)	CHARACTER	1	DRXATPN	TYPE LAST ATTACH HEADER LAST SENT. THERE IS PROBABLY A BETTER PLACE TO HOLD THIS. ONLINE THE INFO IS HELD IN THE TCTTE
(135)	CHARACTER	6	DRXRCODE (0)	RETURN CODE FROM AN EXEC CICS REQUEST
(135)	CHARACTER	1	DRXRCDE1	RESPONSE CODE
(136)	CHARACTER	1	DRXRCDE2	RESERVED
(137)	CHARACTER	1	DRXRCDE3	RESERVED
(138)	CHARACTER	1	DRXRCDE4	RESERVED
(139)	CHARACTER	1	DRXRCDE5	RESERVED
(13A)	CHARACTER	1	DRXRCDE6	RESERVED
(13A)	..11 ..11		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
NAME OF MATCHING PLS CONTROL BLOCK = DFHDBSTA
DESCRIPTIVE NAME = CICS TS DBCTL Unsolicited Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1987, 2016
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'
   R126793 Dummy change - do not add another line
```

Table 75.

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

DCR - Transaction dump record formats

```
CONTROL BLOCK NAME = DFHDCRPS
DESCRIPTIVE NAME = CICS TS Transaction Dump Record Formats
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1987, 2012
FUNCTION = Contains the structures for transaction dump
           records
-------------------------------------------------------------------
                  DUMP DATASET RECORD
       THIS DSECT DESCRIBES THE FORMAT OF THE DIFFERENT
       TYPES OF RECORDS WRITTEN TO THE DUMP DATASET FOR
```

TRANSACTION DUMPS. IT IS USED BY DU DOMAIN TO
CREATE RECORDS AND BY DFHDUxxx TO READ THEM.

BLOCK FORMAT

Table 76.

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

STANDARD RECORD HEADING

Table 77.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	RECORD_HEADER	
(0)	UNSIGNED	2	DCRECLEN	RECORD LENGTH
(2)	UNSIGNED	2	*	PADDING INIT(0)
(4)	BIT(8)	1	DCIRTSI	RECORD TYPE
(5)	BIT(8)	1	DCIND1	EXCESS LENGTH INDICATOR
(5)	111.		*	SPARE
(5)	...1		DCLAST	
(5)	.... 1...		DCRESTRT	
(5)	.... .1..		DCDUPLS	
(5)	.... ..1.		DCCONTN	
(5)	1		DCOVRLN	
(6)	BIT(8)	1	DCIND2	ERROR INDICATOR
(6)	1...		DCBADSEG	
(6)	.1..		DCMVFAIL	
(6)	..1.		*	SPARE
(6)	...1		DCBADCHN	
(6)	.... 1...		DCPGMCHK	
(6)	.... .1..		DCNCICIC	
(6)	.... ..1.		DCNONCIC	
(6)	1		DCBADSAA	
(7)	BIT(8)	1	DCSPACE	SPACING CONTROL
(8)	CHARACTER	0	DCDATST	START OF TYPE SPECIFIC DATA

STORAGE AREA RECORD

Table 78.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	INDEX_AREA	

Table 78. (continued)

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

DUMP HEADER RECORD

Table 79.

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

TRACE TABLE HEADER RECORD

Table 80.

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

LINE SEGMENT OR ERROR MESSAGE RECORD

Table 81.

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

LIFO INTERPRETATION RECORD

Table 82.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	62	LIFO_INT	
(0)	CHARACTER	26	DCLIFOP1	INIT('LIFO STACK ENTRY OWNED BY ')
(1A)	CHARACTER	8	DCLIFOWN	MODULE-NAME

Table 82. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 83.

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

```
CONTROL BLOCK INDEX ITEM RECORD
```

Table 84.

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

```
MODULE INDEX ITEM RECORD
```

Table 85.

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

```
Interupt PSW, Registers, Bear, & Tea
```

Table 86.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	112	INT_DATA	
(0)	CHARACTER	8	INT_PSW (2)	INTERRUPT PSW
(10)	CHARACTER	16	INT_PSW16	INTERRUPT 16-BYTE PSW
(20)	CHARACTER	8	INT_BEAR	BEAR
(28)	CHARACTER	8	INT_TEA	TEA
(30)	CHARACTER	64	INT_REGS	REGISTERS AT TIME OF INTERUPT

```
0 - 15
```

Table 87.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	176	INT_DATA64	
(0)	CHARACTER	8	INT_PSW64 (2)	INTERRUPT PSW
(10)	CHARACTER	16	INT_PSW1664	INTERRUPT 16-BYTE PSW
(20)	CHARACTER	8	INT_BEAR64	BEAR
(28)	CHARACTER	8	INT_TEA64	TEA
(30)	CHARACTER	128	INT_REGS64	64-BIT REGISTERS AT

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

Table 88.

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

Constants

Table 89.

Len	Type	Value	Name	Description
EQUATES FOR VALUE OF RECORD IDENTIFIER FIELD (DCIRTSI)				
1	HEX	01	DCSSIC	SEGMENT STORAGE
1	HEX	03	DCCSAIC	CSA STORAGE
1	HEX	05	DCTCUA	TCTTE USER AREA
1	HEX	08	DCTERMIC	TERMINAL STORAGE
1	HEX	09	DCFCADIC	FCA DEST. CONTROL TABLE
1	HEX	0A	DCFCATIC	FCA TERMINAL CONTROL TABLE

Table 89. (continued)

Len	Type	Value	Name	Description
1	HEX	0B	DCPCTIC	PROGRAM CONTROL TABLE
1	HEX	0C	DCPPTIC	PROCESSING PROGRAM TABLE
1	HEX	0D	DCFCTIC	FILE CONTROL TABLE
1	HEX	0E	DCDCTIC	DESTINATION CONTROL TABLE
1	HEX	0F	DCTCTIC	TERMINAL CONTROL TABLE
1	HEX	10	DCDTIC	JULIAN DATE & TIME OF DAY
1	HEX	12	DCCOMIC	COMMUNICATION AREA
1	HEX	13	DCTCLUC	TCTTE LUC EXTENSION
1	HEX	14	DCTCLCSB	TCTTE LUC SEND BUFFER
1	HEX	15	DCTCLCRB	TCTTE LUC RECEIVE BUFFER
1	HEX	16	DCTCBMEX	TCTTE BMS EXTENSION
1	HEX	17	DCTLRIC	TRANSACTION TRAILER RECORD
1	HEX	18	DCPROGAB	PROG.CHECK ASSOCIATED STG.
1	HEX	19	DCTU24IC	USER24 SUBPOOL STORAGE
1	HEX	1A	DCTC31IC	CICS31 SUBPOOL STORAGE
1	HEX	1B	DCTCAPP	INT PSW & REGS 0 - 15
1	HEX	1C	DCDBLIC	DYNAMIC LOG STORAGE
1	HEX	1D	DCTC24IC	CICS24 SUBPOOL STORAGE
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

Table 89. (continued)

Len	Type	Value	Name	Description
1	HEX	2B	DCDGB	DL/I DGB
1	HEX	2C	DCDGBCT	DL/I DGB
1	HEX	2D	DCDSB	DL/I DSB
1	HEX	2E	DCDSBRESP	DL/I DSB RESPONSE
1	HEX	2F	DCUIB	DL/I USER RESPONSE CODES
1	HEX	30	DCTIE	Task Interface Element
1	HEX	32	DCUEPAR	UEPAR Plist for TRUE
1	HEX	3C	DCPSNTIC	PSEUDO SIGN-ON TABLE ENTRY
1	HEX	41	DCFDHDR	FORMATTED DUMP HEADER
1	HEX	42	DCFDSUP	SUPERVISOR DUMP
1	HEX	43	DCFDPTN	PARTITION DUMP
1	HEX	44	DCFDPSW	PSW
1	HEX	45	DCFDREGS	REGISTERS
1	HEX	46	DCFDLINE	LINE SEGMENT
1	HEX	47	DCFDHEX	HEXADECIMAL
1	HEX	48	DCFDERR	ERROR MESSAGE
1	HEX	49	DCFDCIND	CONTROL BLOCK INDEX
1	HEX	4A	DCFDMIND	MODULE INDEX
1	HEX	4B	DCFDDSA	DYNAMIC STORAGE AREA
1	HEX	7F	DCFDTLR	FORMATTED DUMP TRAILER
1	HEX	4C	DCTRHEAD	TRACE HEADER REC
1	HEX	4D	DCTRREC	TRACE RECORD
1	HEX	4E	DCTRTAIL	TRACE TRAILER REC
1	HEX	4F	DCTCAPP64	INT PSW & 64-BIT REGS
1	HEX	FF	DCLRIC	END OF DUMP DATA SET
EQUATE VALUES OF FULL DATE FORMAT FIELD (DCDATFM)				
1	DECIMAL	1	DC_YYYYMMDD	
1	DECIMAL	2	DC_DDMMYYYY	
1	DECIMAL	3	DC_MMDDYYYY	

DCT - Destination control table

Table 90.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	124	TDDCTCMN	
(0)	CHARACTER	8	TDDCT_PREFIX	Prefix

Table 90. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8)	CHARACTER	4	TDDCTDID	Identification
(C)	BIT(8)	1	TDDCTDT	Attributes
(C)	1...		TDINDTBM	- intrapartition (I/P)
(C)	.1..		TDEXTRBM	- extrapartition (E/P)
(C)	..1.		TDINDBM	- indirect
(C)	...1		TDRMTBM	- remote
(C)	.... 1...		TDTIBM	- (I/P) - task triggered
(C)	.... .1..		*	Reserved
(C)	.... ..1.		TDNOTRM	- (I/P) - DESTFAC=FILE
(C)	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
(34)	1...		TDDCT_ENABLED	- Enabled
(34)	.1..		TDDCT_DISABLING	- Disabling
(34)	..1.		TDDCT_DISABLED	- Disabled
(34)	...1		TDTRIGRM	- msg has been put out to warn that Trig Tranid=Remote
(34)	.... 1...		TDATFAIL	- msg has been put out to warn of Tran Attach Fail
(34)	.... .1..		TDSCHFAI	- msg has been put out to warn of Tran Schedule Fail
(34)	.... ..1.		TDUSFAIL	- msg has been put out to warn of US call failure
(34)	1		*	- Reserved
(35)	BIT(8)	1	TDTDSFL1	Type dependent status - 1
(36)	BIT(8)	1	TDTDSFL2	Type dependent status - 2
(37)	BIT(8)	1	TDTDSFL3	Type dependent status - 3
(38)	OBJECT	64	TDDCT_RES_SIG	Audit signature

Table 90. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(38)	CHARACTER	64	DFHAMSIG_INSTANCE	Audit signature
(38)	STRUCTURE IsA(DFHAMSIG_ DEFINE_ SIGNATURE)	38	DEFINE_SIGNATURE	Audit signature
(38)	CHARACTER	8	DEFINE_SOURCE	GROUP resource installed from
(40)	CHARACTER	8	DEFINE_TIME	Time resource defined
(48)	CHARACTER	8	CHANGE_TIME	Change/create time
(50)	CHARACTER	8	CHANGE_USERID	Change userid
(58)	UNSIGNED	2	CHANGE_AGENT	Change agent
(5A)	CHARACTER	4	AGENT_LEVEL	CICS level of change agent
(5E)	STRUCTURE IsA(DFHAMSIG_ INSTALL_ SIGNATURE)	18	INSTALL_SIGNATURE	Audit signature
(5E)	CHARACTER	8	INSTALL_TIME	Install/create time
(66)	CHARACTER	8	INSTALL_USERID	Install userid
(6E)	UNSIGNED	2	INSTALL_AGENT	Install agent
(70)	CHARACTER	8	*	Audit signature
(78)	FULLWORD	4	TDDCT_LM_TOKEN	LM Token for this DCT
(7C)	CHARACTER	0	*	

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

Table 91.

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

Table 91. (continued)

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

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

Table 92.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	124	TDDCTREM	
(0)	CHARACTER	8	*	Prefix

Table 92. (continued)

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

Table 92. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7C)	CHARACTER	0	*	

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

Table 93.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	204	TDDCTEXP	
(0)	CHARACTER	8	*	Prefix
(8)	CHARACTER	4	*	Identification
(C)	BIT(8)	1	*	Attributes
(D)	UNSIGNED	1	*	Resource security level
(E)	HALFWORD	2	*	Entry length
(10)	CHARACTER	16	*	Common stats
(10)	FULLWORD	4	*	Statistics
(14)	FULLWORD	4	*	Statistics
(18)	FULLWORD	4	*	Statistics
(1C)	FULLWORD	4	*	Reserved
(20)	CHARACTER	20	*	Associated queue
(20)	CHARACTER	4	*	- N(remote system)
(24)	CHARACTER	4	*	- N(remote queue)
(28)	CHARACTER	8	*	- RDO group identifier
(30)	HALFWORD	2	*	- Default data length
(32)	HALFWORD	2	*	- Reserved
(34)	BIT(8)	1	*	Type independent status
(35)	BIT(8)	1	TDEXSFL1	Type dependent status - 1
(35)	1...		TDEXOPIN	- OPEN = INITIAL
(35)	.111 1111		*	- Reserved
(36)	BIT(8)	1	TDEXSFL2	Type dependent status - 2
(36)	1...		TDEXOPIP	- OPEN in progress
(36)	.1..		TDEXOPEN	- OPEN
(36)	..1.		TDEXCLIP	- CLOSE in progress
(36)	...1		TDEXCLOS	- CLOSED
(36)	.... 1...		TDEXFEIP	- FEOV in progress
(36)	.... .1..		TDEXDA	- Dynamically Allocated
(36)	.... ..1.		TDEXPA	- Pre-allocated
(36)	1		TDEXASYO	- Allocated to SYSOUT
(37)	BIT(8)	1	TDEXSFL3	Type dependent status - 3
(37)	1...		TDEXNOSP	- NOSPACE raised
(37)	.1..		TDEXQZER	- QZERO raised
(37)	..1.		TDEXABND	- abend occured

Table 93. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(37)	...1		TDEXIOER	- I/O error occured
(37)	 1111		*	- Reserved
(38)	OBJECT	64	*	Audit signature
(38)	CHARACTER	64	DFHAMSIG_INSTANCE	Audit signature
(38)	STRUCTURE IsA(DFHAMSIG_ DEFINE_ SIGNATURE)	38	DEFINE_SIGNATURE	Audit signature
(38)	CHARACTER	8	DEFINE_SOURCE	GROUP resource installed from
(40)	CHARACTER	8	DEFINE_TIME	Time resource defined
(48)	CHARACTER	8	CHANGE_TIME	Change/create time
(50)	CHARACTER	8	CHANGE_USERID	Change userid
(58)	UNSIGNED	2	CHANGE_AGENT	Change agent
(5A)	CHARACTER	4	AGENT_LEVEL	CICS level of change agent
(5E)	STRUCTURE IsA(DFHAMSIG_ INSTALL_ SIGNATURE)	18	INSTALL_SIGNATURE	Audit signature
(5E)	CHARACTER	8	INSTALL_TIME	Install/create time
(66)	CHARACTER	8	INSTALL_USERID	Install userid
(6E)	UNSIGNED	2	INSTALL_AGENT	Install agent
(70)	CHARACTER	8	*	Audit signature
(78)	FULLWORD	4	*	LM Token for this DCT
(7C)	BIT(8)	1	TDEXDISP	Disposition
(7C)	1...		TDEXSHR	- SHR
(7C)	.1..		TDEXOLD	- OLD
(7C)	..1.		TDEXMOD	- MOD
(7C)	...1 111.		*	- reserved
(7C)	1		TDEXPATH	- path indicator
(7D)	BIT(8)	1	*	- reserved
(7E)	BIT(8)	1	*	- reserved
(7F)	CHARACTER	1	TD_EXTRA_SYSOUT_CLASS	- Sysout Class
(80)	CHARACTER	44	TDEXDSN	Data-set name
(AC)	CHARACTER	16	*	Associated SDSCI
(AC)	CHARACTER	8	TDEXNSDS	- N(real SDSCI)
(B4)	ADDRESS	4	TDEXASDS	- A(real SDSCI)
(B8)	ADDRESS	4	TDEXASDM	- A(model SDSCI)
(BC)	CHARACTER	8	*	Request processing chain
(BC)	FULLWORD	4	TD_EXTRA_Q_OWNER	- Identify transaction the owner

Table 93. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C0)	ADDRESS	4	TDEXAWCB	- A(first MWCB) or 0
(C4)	CHARACTER	8	TDEXMEMB	Member name if PDS
(CC)	CHARACTER	0	*	

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

Table 94.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	284	TDDCTINP	
(0)	CHARACTER	8	*	Prefix
(8)	CHARACTER	4	*	Identification
(C)	BIT(8)	1	*	Attributes
(D)	UNSIGNED	1	*	Resource security level
(E)	HALFWORD	2	*	Entry length
(10)	CHARACTER	16	*	Common stats
(10)	FULLWORD	4	*	Statistics
(14)	FULLWORD	4	*	Statistics
(18)	FULLWORD	4	*	Statistics
(1C)	FULLWORD	4	*	Reserved
(20)	CHARACTER	20	*	Associated queue
(20)	CHARACTER	4	*	- N(remote system)
(24)	CHARACTER	4	*	- N(remote queue)
(28)	CHARACTER	8	*	- RDO group identifier
(30)	HALFWORD	2	*	- Default data length
(32)	HALFWORD	2	*	- Reserved
(34)	BIT(8)	1	*	Type independent status
(35)	BIT(8)	1	TDINSFL1	Type dependent status - 1
(35)	1...		TDDCTSPR	- physically recoverable
(35)	.1..		TDDCTSLR	- logically recoverable
(36)	BIT(8)	1	*	Type dependent status - 2
(37)	BIT(8)	1	*	Type dependent status - 3
(37)	1...		TDDCT_START_RBA_REC	Start RBA recovered
(37)	.1..		TDDCT_READ_RBA_REC	Read RBA recovered
(37)	..1.		TDDCT_WRITE_RBA_REC	Write RBA recovered
(37)	...1		TDDCT_NUMELEMS_REC	Numelems recovered
(37)	.... 1...		TDDCT_TDTIBM_REC	TDTIBM recovered
(37)	.... .111		*	Reserved
(38)	OBJECT	64	*	Audit signature
(38)	CHARACTER	64	DFHAMSIG_INSTANCE	Audit signature

Table 94. (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)	FULLWORD	4	*	LM Token for this DCT
(7C)	CHARACTER	20	*	
(7C)	FULLWORD	4	TDDCTDQL	DEST TRIGGER LEVEL
(80)	CHARACTER	4	TDDCTTID	TRANS ID FOR ATI
(84)	CHARACTER	4	TDDCTTED	TERM ID FOR ATI
(88)	ADDRESS	4	TDDCTAAD	A(AID FOR ATI)
(8C)	FULLWORD	4	TDDCT_NO_TIMES_TRIGRD	#times triggered
(90)	CHARACTER	8	*	
(90)	FULLWORD	4	TDDCT_CURRENT_CIS	CIs allocated to Q.
(94)	FULLWORD	4	TDDCT_PEAK_CIS	Peak CIs allocated to this Q.
(98)	CHARACTER	100	*	
(98)	CHARACTER	20	*	
(98)	FULLWORD	4	TDDCT_COMMITTED_ START_RBA	
(9C)	FULLWORD	4	TDDCT_COMMITTED_ WRITE_RBA	
(A0)	FULLWORD	4	TDDCT_COMMITTED_ READ_RBA	
(A4)	FULLWORD	4	TDDCT_COMMITTED_ NUMELEMS	
(A8)	FULLWORD	4	TDDCT_PEAK_ COMMITTED_NUMELEMS	
(AC)	CHARACTER	16	*	

Table 94. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(AC)	ADDRESS	4	TDDCT_READ_TDQUB_PTR	-> to TDQUB
(B0)	FULLWORD	4	*	Reserved
(B4)	CHARACTER	8	TDDCT_UOW_OWNING_ READ_NQ	Owning UOWID
(BC)	CHARACTER	16	*	
(BC)	ADDRESS	4	TDDCT_WRITE_TDQUB_PTR	-> to TDQUB
(C0)	FULLWORD	4	*	Reserved
(C4)	CHARACTER	8	TDDCT_UOW_OWNING_ WRITE_NQ	Owning UOWID
(CC)	CHARACTER	33	*	
(CC)	CHARACTER	8	TDDCT_PR_Q_LOG_STCK	Time PR Q log record written
(D4)	CHARACTER	8	TDDCT_PR_START_RBA_ REC_STCK	Time start RBA recovered
(DC)	CHARACTER	8	TDDCT_PR_READ_RBA_ REC_STCK	Time read RBA recovered
(E4)	CHARACTER	8	TDDCT_PR_WRITE_RBA_ REC_STCK	Time write RBA recovered
(EC)	BIT(8)	1	TDDCT_PR_LOG_RECORD_ TYPE	Record type
(EC)	1...		TDDCT_READQ	READQ
(EC)	.1..		TDDCT_WRITEQ	WRITEQ
(EC)	..1.		TDDCT_DELETEQ	DELETEQ
(EC)	...1		TDDCT_FIRST_WRITEQ	First write
(EC)	 1111		*	Reserved
(ED)	CHARACTER	3	*	
(ED)	BIT(8)	1	TDDCT_FLAGS	Flag byte
(ED)	1...		*	Reserved
(ED)	.1..		TDDCT_UNCOMMIT_DATA_ WRITTEN	Uncommitted data written to queue
(ED)	..1.		TDDCT_Q_INDOUBT	Q indoubt
(ED)	...1 1111		*	Reserved
(EE)	CHARACTER	2	*	Reserved
(F0)	ADDRESS	4	TDDCT_SUSPEND_TOKEN	DSSR suspnd token
(F4)	CHARACTER	8	*	
(F4)	ADDRESS	4	TDDCTFCN	- A(FIRST MQCB)
(F8)	ADDRESS	4	TDDCTBCN	- A(LAST MQCB)
(FC)	CHARACTER	8	*	DCTE request chain
(FC)	FULLWORD	4	TD_INTRA_Q_OWNER	- owning transaction identifier
(100)	ADDRESS	4	TDINAWCB	- A(first MWCB) or 0
(104)	FULLWORD	4	TDDCT_INTRA_USE_COUNT	Use count
(108)	ADDRESS	4	*	Reserved

Table 94. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10C)	CHARACTER	4	*	
(10C)	BIT(8)	1	TDDCT_INDOUBT	Indoubt option for LR Q's
(10C)	1...		TDDCT_REJECT	Reject
(10C)	.1..		TDDCT_HEURISTIC	Heuristic
(10C)	..1.		TDDCT_QUEUE	Queue
(10C)	...1 1111		*	Reserved
(10D)	BIT(8)	1	*	Reserved Userid data for ..non-terminal ATI
(10E)	BIT(8)	1	TDDCTFLC	Userid data status
(10E)	1...		TDDCTUOK	- TDDCTUOK is set for use
(10E)	.111 1111		*	- Reserved
(10F)	UNSIGNED	1	TDDCTUIL	Length of userid - x'0' with default userid
(110)	CHARACTER	8	TDDCTUID	Userid - x'0' with default userid
(118)	UNSIGNED	4	TDDCTUTK	User token - x'0' with default userid
(11C)	CHARACTER	0	*	

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

Table 95.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	196	DCTSDSPS	
(0)	CHARACTER	40	*	
(0)	FULLWORD	4	DCTSDSLN	length of SDSCI et al
(4)	ADDRESS	4	DCTSDSQP	A(owning DCTE) or 0
(8)	ADDRESS	4	DCTSDSRP	A(real SDSCI) or 0
(C)	CHARACTER	8	DCTSDSOC	OPEN/CLOSE words
(C)	UNSIGNED	1	DCTSDSOO	- open options
(D)	ADDRESS	3	*	- A(0)
(10)	ADDRESS	4	DCTSDSDA	- A(DCB)
(14)	BIT(8)	1	DCTSDRW	REWIND status
(14)	1...		DCTSDSLE	- LEAVE
(14)	.1..		DCTSDSRE	- REREAD
(14)	..11 1111		*	- Reserved
(15)	BIT(8)	1	DCTSDTF	TYPEFLE status
(15)	1...		DCTSDSOP	- OUTPUT
(15)	.1..		DCTSDSIP	- INPUT
(15)	..1.		DCTSDSRB	- RDBACK
(15)	...1 1111		*	- Reserved

Table 95. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(16)	BIT(8)	1	*	Reserved
(17)	BIT(8)	1	*	Reserved
(18)	BIT(8)	1	DCTSDSRF	record format
(18)	11..		DCTSDSUF	- undefined format
(18)	1...		DCTSDSFF	- fixed format
(18)	.1..		DCTSDSVF	- variable format
(18)	..1.		*	- Reserved (refer to IHADCB)
(18)	...1		DCTSDSBR	- blocked records
(18)	.... 1...		*	- Reserved (refer to IHADCB)
(18)	.... .1..		DCTSDSCA	- ASA control char
(18)	.... ..1.		DCTSDSCM	- machine control char
(18)	1		*	- Reserved (refer to IHADCB)
(19)	BIT(8)	1	*	Reserved
(1A)	HALFWORD	2	DCTSDSBL	block length
(1C)	HALFWORD	2	DCTSDSRL	(maximum) record length
(1E)	HALFWORD	2	*	- Reserved
(20)	ADDRESS	4	DCTDIAA	Address of Shadow Buffer
(24)	HALFWORD	2	DCTDIAL	Length of Shadow Buffer
(26)	HALFWORD	2	*	Reserved
(28)	CHARACTER	4	*	DCB abend exit data
(28)	BIT(16)	2	DCTSDSCC	- system completion code held in the first 12 bits
(2A)	UNSIGNED	1	DCTSDRC	- return code completion code qualifier
(2B)	BIT(8)	1	DCTSDOM	- options mask
(2B)	1...		*	- Reserved
(2B)	.1..		*	- Reserved
(2B)	..1.		*	- Reserved
(2B)	...1		*	- Reserved
(2B)	.... 1...		DCTSDOMR	- OK to recover
(2B)	.... .1..		DCTSDOMI	- OK to ignore
(2B)	.... ..1.		DCTSDOMD	- OK to delay
(2B)	1		*	- Reserved
(2C)	CHARACTER	96	DCTSDDCB	DCB DCB DDNAME=TRANDATA, DSORG=PS, MACRF=(GL, PL)
(8C)	CHARACTER	56	DCTSDDCBE	DCBE (DCB Extension) IHADCBE

Table 95. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C4)	CHARACTER	0	*	

Constants

Table 96.

Len	Type	Value	Name	Description
8	CHARACTER	>TDQUEUE	TDQUEUE_PREFIX	

DIB - Data interchange block

```
DESCRIPTIVE NAME = CICS TS Data Interchange Block
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      5655-Y04
      (C) Copyright IBM Corp. 1980, 2014
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
 MODULE TYPE = MACRO DEFINING A DSECT
 MODULE SIZE = Not applicable
 ATTRIBUTES = Not applicable
ENTRY POINT = Not applicable
 PURPOSE = Not applicable
 LINKAGE = Not applicable
INPUT = Not applicable
OUTPUT = Not applicable
EXIT-NORMAL = Not applicable
EXIT-ERROR = Not applicable
EXTERNAL REFERENCES = None
 CONTROL BLOCKS = Defines DIB Control Block
 TABLES = None
 MACROS = None
```

Table 97.

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

Table 97. (continued)

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

Table 97. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1A)	BITSTRING	1	DIBIDSF	DESTINATION SELECTION FIELD
(1B)	BITSTRING	1	DIBIERCI	EXCHANGE RECORD LENGTH
(1C)	BITSTRING	1	DIBIRSV2 (2)	RESERVED
(1E)	BITSTRING	1	DIBIDNL	LENGTH OF DSN
(1F)	CHARACTER	8	DIBIDNAM	MAXIMUM OF EIGHT CHARACTERS DSN NAME
(27)	BITSTRING	1	DIBISDNL	SAVED PREVIOUS LENGTH, DESTINATION, NAME
OUTPUT DESTINATION LATEST FMH (STATUS) THIS IS A COPY OF THE BEGIN FMH FIRST OUTPUT USE FMH DSECT TO OVERLAY FIELDS				
(28)	BITSTRING	1	DIBFMHLN	LENGTH OF FMH (TO DIBDNAM)
(29)	BITSTRING	1	DIBFMHTY	FMH TYPE(1, 2, 3 ETC)
(2A)	BITSTRING	1	DIBMSB	MEDIA SELECTION FIELD
BIT 0 RESERVED BIT 0-3 FOLLOWING VALUES: 0000 CONSOLE 0010 CARD 0011 PRINT 0100 DISK 0101 EXTENDED DOCUMENT 0110 PDS 1000 WORD PROCESSING MEDIUM 1 1001 WORD PROCESSING MEDIUM 2 1010 WORD PROCESSING MEDIUM 3 1100 WORD PROCESSING MEDIUM 4 1101 NCI BIT 4-7 LOG SUBADDRESS				
(2B)	BITSTRING	1	DIBSRI (0)	BIT 0 SRI
(2B)	BITSTRING	1	DIBDESEL (0)	BIT 1 DEMAND SELECT
(2B)	BITSTRING	1	DIBDSP (0)	BITS 4-7 DATA STREAM PROFILE
VALUES OF THE DATA STREAM PROFILE				
(2B)	....		DIBDSPDE	"X'00'" DEFAULT
(2B)	1		DIBDSPBA	"X'01'" BASE
(2B)	11		DIBDSPJB	"X'03'" JOB DSP
(2B)	.... .1..		DIBDSPRW	"X'04'" WP RAW
(2B)	.... .11.		DIBDSPI1	"X'06'" OII LEVEL 1
(2B)	.... .111		DIBDSPI2	"X'07'" OII LEVEL 2
(2B)	.... 1...		DIBDSPI3	"X'08'" OII LEVEL 3
VALUES X'09' TO X'0F' RESERVED				
(2B)	BITSTRING	1	DIBDSDSP	DEMAND SEL/DS PROFILE/SRI

Table 97. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2C)	BITSTRING	1	DIBDSF	DESTINATION SELECTION FIELD
(2D)	BITSTRING	1	DIBERCI	EXCHANGE RECORD LENGTH
(2E)	BITSTRING	1	DIBRSVD2 (2)	RESERVED
(30)	BITSTRING	1	DIBDNL	LENGTH OF DSN
(31)	CHARACTER	8	DIBDNAM	MAXIMUM OF EIGHT CHARACTERS DSN NAME
(39)	BITSTRING	1	DIBVNL	LENGTH OF VOLUME
(3A)	CHARACTER	6	DIBVNAM	MAXIMUM SIX CHARACTER VOLUME ID
(40)	BITSTRING	1	DIBKYL	SAVED KEY LENGTH
(41)	CHARACTER	64	DIBKYD	SAVED KEY FOR RETRANSMIT
(88)	DBL WORD	8	(0)	

DHDDS - Doctemplate Resource Statistics

```
CONTROL BLOCK NAME = DFHDHDDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHDHDPS
DESCRIPTIVE NAME = CICS TS Doctemplate Resource Statistics
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       5655-Y04
       (C) Copyright IBM Corp. 2006, 2009
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 98.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHDHDDS	Doctemplate Resid stats record
(0)	HALFWORD	2	DHDDS_LEN	Doctemplate stats record length
(2)	ADDRESS	2	DHDDS_ID	Doctemplate stats id
(4)	CHARACTER	1	DHDDS_VERS	Doctemplate stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	DHD_DOCTEMPLATE_NAME	Doctemplate name
(10)	BITSTRING	1	DHD_TEMPLATE_TYPE	Doctemplate type
(11)	BITSTRING	1	DHD_APPEND_CRLF	Doctemplate append crlf
(12)	BITSTRING	1	DHD_TEMPLATE_CONTENTS	Doctemplate contents
(13)	BITSTRING	1		Reserved
(14)	CHARACTER	48	DHD_TEMPLATE_NAME	Doctemplate template name
(44)	BITSTRING	8		Reserved
(4C)	CHARACTER	8	DHD_TEMPLATE_EXIT_ PROGRAM	Template exit program name
(54)	CHARACTER	8	DHD_TEMPLATE_FILE_ NAME	Template file name
(5C)	CHARACTER	8	DHD_TEMPLATE_ PROGRAM_NAME	Template program name
(64)	CHARACTER	8	DHD_TEMPLATE_PDS_ MEMBER	Template PDS member
(6C)	BITSTRING	8		Reserved
(74)	CHARACTER	8	DHD_TEMPLATE_PDS_ DDNAME	Template PDS ddname
(7C)	CHARACTER	44	DHD_TEMPLATE_PDS_ DSNAME	Template PDS dsname
(A8)	BITSTRING	4		Reserved
(AC)	CHARACTER	4	DHD_TEMPLATE_ TDQUEUE_NAME	Template tdqueue name
(B0)	CHARACTER	16	DHD_TEMPLATE_ TSQUEUE_NAME	Template tsqueue name
(C0)	BITSTRING	8		Reserved
(C8)	CHARACTER	255	DHD_TEMPLATE_ HFSFILE_NAME	Template hfsfile name
(1C7)	BITSTRING	1		Reserved
(1C8)	BITSTRING	4	DHD_TEMPLATE_CACHE_ SIZE	Template cache size
(1CC)	BITSTRING	4	DHD_TEMPLATE_USE_ COUNT	Template use count
(1D0)	BITSTRING	4	DHD_TEMPLATE_ NEWCOPIES	Template newcopy count
(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

Table 98. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(200)	CHARACTER	8	DHD_TEMPLATE_CHANGE_ USERID	Change userid
(208)	BITSTRING	2	DHD_TEMPLATE_CHANGE_ AGENT	Change agent
(20A)	BITSTRING	2	DHD_TEMPLATE_ INSTALL_AGENT	Install agent
(20C)	BITSTRING	8	DHD_TEMPLATE_ INSTALL_TIME	Install/Create time
(214)	CHARACTER	8	DHD_TEMPLATE_ INSTALL_USERID	Install userid
(214)		0	DHDDS_END	"*"
(214)		0	DHDDS_LENGTH	"*-DHDDS_LEN" Doctemplate record length
Constants that denote a DH doctemplate stats record				
(214)	.111		DHDIDR	"112" Doctemplate resid stats id
(214)	1		DHD_VERS	"X'01'" Record version number
(214)	1		DHD_TYPE_EXIT_PROGRAM	"X'01'" Template Type - Exit Program
(214)	.... ..1.		DHD_TYPE_FILE	"X'02'" Template Type - File
(214)	11		DHD_TYPE_PDS_MEMBER	"X'03'" Template Type - PDS Member
(214)	.... .1..		DHD_TYPE_PROGRAM	"X'04'" Template Type - Program
(214)	.... .1.1		DHD_TYPE_TDQUEUE	"X'05'" Template Type - Tdqueue
(214)	.... .11.		DHD_TYPE_TSQUEUE	"X'06'" Template Type - Tsqueue
(214)	.... .111		DHD_TYPE_HFSFILE	"X'07'" Template Type - Hfsfile
(214)	1		DHD_APPEND_CRLF_NO	"X'01'" Append crlf - No
(214)	.... ..1.		DHD_APPEND_CRLF_YES	"X'02'" Append crlf - Yes
(214)	1		DHD_CONTENTS_BINARY	"X'01'" Doctemplate Contents - Binary
(214)	.... ..1.		DHD_CONTENTS_EBCDIC	"X'02'" Doctemplate Contents - Ebcdic Change Agents
(214)	1		DHD_CSDAPI_CHANGE	"0001" CSD API
(214)	.... ..1.		DHD_CSDBATCH_CHANGE	"0002" DFHCSDUP
(214)	11		DHD_DREPAPI_CHANGE	"0003" DREP API
(214)	.... .1..		DHD_CREATE_CHANGE	"0004" EXEC CREATE SPI
(214)	.... 1...		DHD_DYNAMIC_CHANGE	"0008" DYNAMIC Install Agents
(214)	1		DHD_CSDAPI_INSTALL	"0001" CSD API
(214)	.... .1..		DHD_CREATE_INSTALL	"0004" EXEC CREATE SPI

Table 98. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(214)	.... .1.1		DHD_GRPLIST_INSTALL	"0005" GRPLIST
(214)	.... 1...		DHD_DYNAMIC_INSTALL	"0008" DYNAMIC

DHTX - Document Handler Template EXITPGM interface

```
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DFHDHTX COPY

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

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

dhtx_length
The halfword binary length of the entire parameter list.
dhtx_eyecatcher
A 13-character eyecatcher, set to '>DFHDHTXPARMS'.
dhtx_version
A one-byte character version number of the parameter list,
currently set to '0'.
dhtx_buffer_ptr
The address of a CICS-provided buffer in which the EXITPGM must
return the data that is to become the template.
dhtx_buffer_len
The fullword binary length of the buffer addressed by
dhtx_buffer_ptr .
dhtx_template_name_ptr
The address of the 48-character name of the template for which
this EXITPGM is being executed.
dhtx_append_crlf
A one-byte character field that indicates whether the APPENDCRLF
option was specified for this template. It is set to '1' if the
option was specified, and to '0' otherwise.

The following output parameters must be set by the EXITPGM:

dhtx_template_len
The fullword binary length of the template being returned in the
buffer addressed by dhtx_buffer_ptr . This value should be the
size actually required for the template, even if it exceeds
dhtx_buffer_len (although the data moved into the buffer must
not exceed that length). If dhtx_template_len exceeds
dhtx_buffer_len , the EXITPGM will be re-driven with a larger
buffer.
dhtx_return_code
A fullword binary return code that indicates whether the EXITPGM
was successful. It should be one of:

0 Indicates successful completion. A valid template, or a
template truncated to fit the supplied buffer, has been
returned.
8 Indicates failure. No valid template has been returned.
```

```
dhtx_cache_response
Optionally, a one-byte character field that indicates whether
CICS should save the returned template in its cache storage. It
should be set to '1' if the contents returned are the same each
time the exit is called, but should be left as '0' if the
contents may be different each time. If the value is set to '1',
the exit should not be called again unless a SET DOCTEMPLATE
NEWCOPY is performed. (In practice, the exit may be called three
times, first to set this flag, second to obtain the size of
cache buffer to use, and finally to save the result into the
cache buffer.)
dhtx_message_ptr
Optionally, the address of a message that explains why the
EXITPGM was unsuccessful. CICS writes this message to the CSDH
transient data destination.
dhtx_message_len
The fullword binary length of the message addressed by
dhtx_message_ptr , if one is provided.

------------------------------------------------------------------
```

Table 99.

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

DJEPC - Enterprise Java Commarea Event

Table 100.

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

Constants

Table 101.

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

SPI - Task Local Storage Definition

```
 DESCRIPTIVE NAME = CICS TS Resource Definition Online
                    Task Local Storage definition.
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      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1981, 2015
      D97306 700 150105 HDKGDJH bit for MOVE command
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 102.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	312	DFHDMTLS	
Address of KWA chain. Number of links in KWA chain.				
(0)	ADDRESS	4	TLPTR1	
(4)	FULLWORD	4	TLLEN1	

Table 102. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
	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	
(14)	1...		FCADD	remember fct value
(14)	.1..		FCUPDATE	ditto for update
(14)	..1.		FCDELETE	and delete
	Miscellaneous global fields (a) for DFHAMP (CICS) (b) for DFHCSDUP (batch)			
(18)	CHARACTER	20	GLOBMISC	
(18)	ADDRESS	4	*	Was AMARGANC DFHCSDUP misc globals
(18)	BIT(8)	1	TLCUBITS	Flag bits
(18)	1...		TLMSGOFF	Suppress msgs.from BEP
(18)	.1..		TLRDCICS	Processing CICS-supplied resource definition list
(18)	..1.		TLRDTMIG	Processing migrated RDT
(18)	...1		TLUPGUSG	Processing UPGRADE USING
(18)	.... 1...		TLIGNOIW	Ignore I and W msgs
(18)	.... .1..		TLPCURDD	Processing CURDD/CURDN
(18)	.... ..1.		TLUSRDEF	Userdefine command
(18)	1		TLGENGAL	Generic group alter
(19)	BIT(8)	1	*	Reserved
(19)	1...		TLALOBKY	Allow obsolete keywords
(19)	.1..		MOVECMD	Command is MOVE D97306A
(19)	..11 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

Table 102. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
Task-local variables for DFHTOR (Terminal Object Resolution). TRCURSTA records the current (summary) state of data type TR tr_current_state : <initial, luip, eg1, eg2, error>				
(2C)	HALFWORD	2	TRCURSTA	
(2E)	HALFWORD	2	*	Reserved for alignment TRSTATUS is used by all the modules that implement TR. TRSTATUS is used to indicate exceptional conditions as they
(30)	CHARACTER	8	TRSTATUS	arise.
(30)	FULLWORD	4	TRRESP	TR-global response code.
(34)	FULLWORD	4	TRREASON	TR-global reason code.
The following 11 variables are in "tr_state". They represent mappings from names to either a) other names or b) resource definitions. The data length of each (CHAR(20)) is dependent upon the implementation as encoded in DFHTOMAC etc.				
(38)	CHARACTER	20	MMNDX	autodefine models tt_ndx : MAP OF (ttid, ttdef)
(4C)	CHARACTER	20	TTNDX	TYPTERM names, defns. tm_ndx : MAP OF (tmid, tmdef)
(60)	CHARACTER	20	TMNDX	CICS tmids tm_use : MAP OF (tmid, ttid)
(74)	CHARACTER	20	TMUSE	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
(EC)	1...		*	Reserved
(EC)	.1..		EXPANDAC	EXPAND active
(EC)	..1.		EXPANDNX	SET TO 1 WHEN 1ST NEXT IS OK *
(EC)	...1		DISPLYAC	DISPLAY active

Table 102. (continued)

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

Table 102. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(134)	BIT(8)	1	*	Flags
(134)	1...		TLS_CSDAPI	Command from CSD API
(134)	.1..		TLS_INQUIRERSRCE	Inquirersrce command from CSD API
(134)	..11 1111		*	Spare
Flags required for bundle defined resources				
(135)	BIT(8)	1	*	Flags
(135)	1...		TLS_BUNDLE_RES	Command from bundle install
(135)	.1..		TLS_LOG_BUNDLE_CRT	Log bundle creates?
(135)	..11 1111		*	Spare
(136)	CHARACTER	2	*	Spare
----------				
(138)	CHARACTER	0	*	End of storage

DSG - Dispatcher statistics

```
CONTROL BLOCK NAME = DFHDSGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHDSGPS
DESCRIPTIVE NAME = CICS TS Dispatcher Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 2014
       CICS level at which this module was last updated
FUNCTION =
       This data area contains global statistics provided by the
       Dispatcher Domain
       It is provided for use in users monitoring applications
       to map the statistics returned via the APi or the statistics
       exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the Dispatcher to store
       statistics to be passed to the user in response to a request
       to a request for statistics. The storage is released when
       the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Domain call buffer
-------------------------------------------------------------------------
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = from dispatcher domain
    GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------------
```

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

Table 103.

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

Table 103. (continued)

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

```
TCB Mode Statistics
The stats for the Dispatcher TCB Modes are kept in a fixed length
array. The number of entries in the array is in field DSGASIZE
located at the 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 = S8 - Sockets (SSL) mode
 TCB14 = L8 - Open mode
 TCB15 = L9 - Open mode
 TCB16 = X8 - Open mode
 TCB17 = X9 - Open mode
 TCB18 = T8 - Open mode
```

Table 104.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DSGTCBM	TCB Mode Stats
(0)	CHARACTER	2	DSGTCBNM	TCB Mode Name
(2)	BITSTRING	1	DSGTCBMD	TCB Mode
(2)	....		DSGTCBMU	"X'00'" X'00' = Unknown Mode
(2)	1		DSGTCBMN	"X'01'" X'01' = Not Open Mode
(2)	.... ..1.		DSGTCBMO	"X'02'" X'02' = Open Mode
(3)	BITSTRING	1		Reserved
(4)	HALFWORD	2	DSGTCBMP	TCB Mode Pool number
(4)	....		DSGTCBP0	"0" 0 = TCB Pool Not Applicable
(4)	1		DSGTCBPO	"1" 1 = TCB Pool Open
(4)	.... ..1.		DSGTCBPX	"2" 2 = TCB Pool XPLink
(4)	11		DSGTCBPS	"3" 3 = TCB Pool SSL
(4)	.... .1..		DSGTCBPT	"4" 4 = 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	(3)	Reserved

Table 104. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(60)	FULLWORD	4	DSGTMCDQ	Current tasks on dispatchable queue
(64)	FULLWORD	4	DSGTMPDQ	Peak tasks on dispatchable queue
(68)	FULLWORD	4	DSGTMADQ	Average tasks on dispatchable queue (2 decimal places)
(6C)	FULLWORD	4		Reserved
The following CL8 definitions are really "Store Clock" format				
(70)	BITSTRING	8	DSGTWT	Cum real time CICS in OS wait
(78)	BITSTRING	8	DSGTDT	Cum real time TCB disp by MVS
(80)	BITSTRING	8	DSGTCT	Cum CPU time for DS task
(88)	BITSTRING	8	DSGACT	Cum CPU time for TCB
(90)	BITSTRING	8		Reserved
(98)	BITSTRING	8		Reserved
(98)	1.1.		DSGMDEND	"*"
(98)	1.1.		DSGMDLEN	"*-DSGTCBM" Length of a TCB Mode stats

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

Table 105.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DSGTCBP	TCB Pool Stats
(0)	HALFWORD	2	DSGTCBPN	TCB Pool Number
(2)	BITSTRING	2		Reserved
(4)	FULLWORD	4	DSGMXTCB	Max number of TCBs
(8)	FULLWORD	4	DSGCNUAT	Current TCBs attached
(C)	FULLWORD	4	DSGPNUAT	Peak TCBs attached
(10)	FULLWORD	4	DSGCNUUS	Current TCBs in use
(14)	FULLWORD	4	DSGPNUUS	Peak TCBs in use
(18)	BITSTRING	8		Reserved
(20)	FULLWORD	4	DSGNTCBL	No. times at TCB Pool Limit
(24)	FULLWORD	4		Reserved
(28)	BITSTRING	8	DSGTOTWL	Total Wait Time at TCB limit
(30)	BITSTRING	8	DSGCURWT	Current waiting time

Table 105. (continued)

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

DSTDS - Dispatcher MVS TCB Global Stats

```
CONTROL BLOCK NAME = DFHDSTDS
NAME OF MATCHING PLX CONTROL BLOCK = DFHDSTPS
DESCRIPTIVE NAME = CICS TS Dispatcher MVSTCB Global statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2003, 2007
FUNCTION =
       This data area contains global statistics provided by the
       Dispatcher Domain on MVS TCBs.
       It is provided for use in users monitoring applications
```

```
       to map the statistics returned via the APi or the statistics
       exit.
       There is a single instance of this data block.
 LIFETIME =
       This data block is created by the Dispatcher to store
       statistics to be passed to the user in response to a request
       for statistics. The storage is released when the user task
       is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
 STORAGE CLASS =
 LOCATION =
       The user is passed a pointer to the head of the storage
       block.
 INNER CONTROL BLOCKS = none
 NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Domain call buffer
-------------------------------------------------------------------------
 EXTERNAL REFERENCES = none
     DATA AREAS = none
     CONTROL BLOCKS = from dispatcher domain
     GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY, DFHDSTDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 106.

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

Table 106. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(30)	FULLWORD	4	DSTDS_CICSTCB_STG_ BELOW_INUSE	<16M in use
(34)	FULLWORD	4	DSTDS_CICSTCB_STG_ ABOVE_INUSE	>16M in use
(38)	FULLWORD	4	DSTDS_NONCICSTCB_ STG_BELOW_INUSE	<16M in use
(3C)	FULLWORD	4	DSTDS_NONCICSTCB_ STG_ABOVE_INUSE	>16M in use
(40)	FULLWORD	4		Reserved
(44)	FULLWORD	4		Reserved
(48)	CHARACTER	8		Reserved
(48)	.1.1		DSTDS_END	"*"
(48)	.1.1		DSTDS_LENGTH	"*-DSTDS_LEN" MVSTCB global stats record length

DSRDS - Dispatcher MVS TCB Resource Stats

```
CONTROL BLOCK NAME = DFHDSRDS
NAME OF MATCHING PLX CONTROL BLOCK = DFHDSRPS
DESCRIPTIVE NAME = CICS TS Dispatcher MVSTCB resource statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2003, 2007
FUNCTION =
       This data area contains resource statistics provided by the
       Dispatcher Domain on MVS TCBs i.e. the stats relating to
       an individual TCB.
       It is provided for use in users monitoring applications
       to map the statistics returned via the APi or the statistics
       exit.
LIFETIME =
       This data block is created by the Dispatcher to store
       statistics to be passed to the user in response to a request
       for statistics. The storage is released when the user task
       is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Domain call buffer
-------------------------------------------------------------------------
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = none
    GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY, DFHDSRDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 107.

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

DSN - File control dataset name

```
MACRO NAME = DFHDSND
 DESCRIPTIVE NAME = CICS/ESA File control DATA-SET NAME BLOCK
                            and BASE CLUSTER block.
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1983, 2016
FUNCTION =
      Create or map an instance of the DATASET NAME block.
      This block is dependent from the File Control Table,
```

```
     and contains a dataset name (up to 44 characters long)
     or equivalently a /VSE file-ID.
     It is pointed to by any number of FCT file entries,
     for either or both the purposes:
     a) to carry a name for possible DYNAMIC ALLOCATION when the
        file is next opened. (The "optative" name.)
     b) to represent the BASE CLUSTER (in VSAM), DATA SET (BDAM),
        (or any other entity) that the file, being open,
        can update and that CICS needs to guard for backout
        integrity.
               DATASET NAME BLOCK
 The File Control Data Set Name Block (DSNB) holds the name
 for dynamic allocation of a data set. Any number of files
 (represented by File Control Table Entries, FCTEs) may address
 a DSNB. Dynamic allocation takes place at the time a file is
 opened. At this time, if the DSNB represents a VSAM base cluster
 or a BDAM data set, further information describing the data set
 is stored in the Base Cluster Block that is part of the DSNB.
The following fields form part of the Product Sensitive
Programming Interface :
  FCTDNAME
  FCTDNLEN
  FCTDNVAL bit setting in byte FCTDNFL1
  FCTBCFR, FCTBCLOG, FCTBCVAL, bit settings in byte FCTBCFL1
  FCTBCFRL
```

Table 108.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHDSNDS	DUMMY SECTION START
(0)	CHARACTER	8	FCTDNRN	resource name(='DSN_BLK:') ,
(8)	CHARACTER	44	FCTDNAME	dataset name ,
(34)	ADDRESS	4	FCTDNNUM	DATASET NUMBER (CC KEY) ,
(38)	ADDRESS	4	FCTDNBCN	DITTO OF CORR. BASE CLUSTER ,
(3C)	HALFWORD	2	FCTDNUC	USE COUNT ,
(3E)	ADDRESS	1	FCTDNLEN	EFFECTIVE LENGTH OF DSNAME ,
(3F)	ADDRESS	1	FCTDNTYP	DSTYPE=ESDS|KSDS|RRDS|PATH ,
(40)	BITSTRING	1	FCTDNFL1	FLAGS ,
(40)	1...		FCTDNVAL	"X'80'" DSN VALIDATED IN VSAM CAT. ,
(40)	.1..		FCTDNRLS	"X'40'" Last open was in RLS mode ,
(41)	BITSTRING	3		Reserved ,
(44)	CHARACTER	44	FCTDN_BASENAME	Name of base if path ,
(70)	ADDRESS	4	FCTDN_LOCK_TOKEN	entry_lock token ,
(74)	FULLWORD	4	(0)	ALIGNMENT FOR INNER BLOCK ,
(74)	.111 .1..		FCTDNINC	"*" START OF BASE CLUSTER BLOCK ,
BASE CLUSTER BLOCK				

Table 108. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(74)	.111 .1..		DFHBCCDS	"*" ,
(74)	HALFWORD	2	FCTBCUC	Count of ACBs that are open for files in the cluster, or are in transition to or from that state.
(76)	HALFWORD	2	FCTBCUUC	Count of ACBs open for update
(78)	BITSTRING	1	FCTBCFL1	VARIOUS FLAGS -
(78)	1...		FCTBCSRP	"X'80'" LOCALLY-SHARED RESOURCES APPLY
(78)	.1..		FCTBCKVL	"X'40'" ATTRIBUTES ..KYL & ..RKP ARE VALID
(78)	.111 1...		FCTBCRCV	"FCTBCFL1" RECOVERY ATTRIBUTES OF BASE CLUSTER
(78)	..1.		FCTBCFR	"X'20'" FORWARD RECOVERY
(78)	...1		FCTBCLOG	"X'10'" LOGGING
(78)	.... 1...		FCTBCVAL	"X'08'" VALID FLAG FOR RECOVERY ATTRIBUTES
(78)	.... .1..		FCTBCMIS	"X'04'" Recov Attrs Mismatch Flag
(78)	.111 1...		FCTBCSHP	"FCTBCFL1" SHARE OPTIONS INDICATOR
(78)	11		FCTBSH4	"X'03'" SHARE OPTIONS 4
(78)	.... ..1.		FCTBSH34	"X'02'" SHARE OPTIONS 3 OR 4
(78)	1		FCTBSH24	"X'01'" SHARE OPTIONS 2 OR 4
(79)	ADDRESS	1	FCTBCFRL	FRLOG ID FOR FORWARD RECOVERY
(7A)	ADDRESS	1	FCTBCAS	AVAILABILITY STATE
(7A)	..1.		FCTBCUNA	"X'20'" unavailability
(7A)	...1		FCTBCRPL	"X'10'" RREPL
(7B)	ADDRESS	1	FCTBCKYL	Length of key
(7C)	ADDRESS	2	FCTBCRKP	Relative key position
(7E)	ADDRESS	4		Reserved D95683A
(80)	FULLWORD	4	FCTBCCIS	Base cluster Control Interval Size.
(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

Table 108. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8E)	HALFWORD	2	FCTBCRUC	Count of ACBs that are open against this recoverable ESDS base.
(90)	FULLWORD	1	FCTBCLSR	LSR pool identifier
(91)	BITSTRING	1	FCTBCFIC	Fuzzy Image Copy flags
(91)	1...		FCTBCFUZ	"X'80'" Fuzzy backup enabled
(91)	.1..		FCTBCVFS	"X'40'" Valid fuzzy state
(92)	HALFWORD	2	FCTBCFUC	Fuzzy File update count
(94)	ADDRESS	4	FCTBCACB	Address of ACB for base cluster. Allocated at the time of first PUT ADD or MASS INSERT against the path.
(98)	ADDRESS	4	(2)	Add/Delete counts
(A0)	ADDRESS	4	FCTBC_FLLB_CHAIN	Start of FLLB chain
(A4)	BITSTRING	1	FCTBC_RLS_INDS	Data table and RLS flags
(A4)	.1..		FCTBC_LOST_LOCKS	"X'40'" Data set in lost locks state
(A5)	BITSTRING	1		Data table ECB
(A6)	BITSTRING	1		Data table loaded ECB
(A7)	BITSTRING	1	FCT_BC_MISC_INDS	Assorted flags
(A7)	1...		FCTBC_EXTENDED	"X'80'" Extended addressing
(A7)	.1..		FCTBC_THREADSAFE_WORK	"X'40'" Threadsafe work done
(A7)	..1.		FCTBC_REPLICATION_LOG	"X'20'" Replication logging active
(A8)	CHARACTER	8		Table name
(B0)	ADDRESS	4	FCTBCDTK	Table token
(B4)	ADDRESS	4		Open FCTE chain
(B8)	FULLWORD	4	FCTBCTKN	FR Log Tkn from CICS Logger
(BC)	BITSTRING	1	FCTBCFL2	Recovery Attribute Flags
(BC)	1...		FCTBCCAT	"X'80'" Attrs originate from catalog
(BC)	.1..		FCTBCRLS	"X'40'" Attrs set on RLS file open
(BC)	..1.		FCTBCRA	"X'20'" BCB has RLS ACBs open
(BC)	...1		FCTBCNRA	"X'10'" BCB has non-RLS ACBs open
(BC)	.... 1...		FCTBCRCO	"X'08'" XFCRLSCO has allowed RLS and non-RLS ACBs open for this base cluster block

Table 108. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(BC)	.... .1..		FCTBCCON	"X'04'" XFCRLSCO footprint FCN COEX
(BC)	.... ..1.		FCTBCCOW	"X'02'" XFCRLSCO footprint FCN WORK
(BC)	1		FCTBCCOR	"X'01'" XFCRLSCO footprint FCRO
(BD)	CHARACTER	26	FCTBCCRL	FR Logstream Name from Catalog
(D7)	CHARACTER	1	FCTBC_QSTATE	RLS quiesce progress state for QUICLOSE, QUICOPY or QUIBWO
(D8)	FULLWORD	4	FCTBC_0890_COUNT	Requests awaited for 08-90
(DC)	CHARACTER	8	FCTBC_QTOKEN	RLS quiesce token, returned to VSAM when QUICMP issued
(E4)	ADDRESS	4	FCTBC_CONN_CHAIN	Chain of connected FCTEs
(E8)	ADDRESS	4	FCTBC_OWNING_FRAB	Holder of ESDS write lock
(EC)	FULLWORD	4	FCTBC_SAFE_RBA	Highest safe RBA for update
(F0)	FULLWORD	4	FCTBC_QCOUNT	Number of UOWs to reach syncpoint before QUICMP can be issued for QUICOPY or QUIBWO
(F4)	CHARACTER	8	FCTBC_BWO_STAMP	OPEN TIMESTAMP FOR BWO
`Force doubleword alignment`				
(FC)	ADDRESS	4	FCTBC_0890_CHAIN	Head of 0890 wait chain
(100)	CHARACTER	8	FCTBC_HI_XRBA	Relative byte address for extended addressing ESDS
(108)	CHARACTER	8	FCTBC_SAFE_XRBA	Highest safe XRBA for update
(110)	FULLWORD	4	FCTBC_LOCK_TOKEN	BCB Lock Token
(114)	FULLWORD	4	FCTBC_SPHERE_LOCK_ TOKEN	SPHERE Lock Token
(118)	FULLWORD	4	FCTBC_FRLOG_LK_TOKEN	DSNB Log Lock Token
(11C)	HALFWORD	2	FCTBC_NRUC	Non RLS file open with updateable servreqs count
(11E)	HALFWORD	2	FCTBCUCN	Count of ACBs that are open against this dataset for Non RLS files
(120)	HALFWORD	2	FCTBCUCR	Count of ACBs that are open against this dataset for RLS files
(122)	HALFWORD	2		Reserved
(128)	DBL WORD	8	DFHBCEND (0)	Align, to round up gross length to double word
(128)	1.11 .1..		DFHBCLEN	"DFHBCEND-DFHBCCDS" ,

Table 108. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
Constants for FCTBC_QSTATE. This tracks the progress of a VSAM RLS QUICLOSE, QUICOPY or QUIBWO quiesce request.				
(128)	....		FCTBC_QSTATE_NORMAL	"0"
(128)	1		FCTBC_QSTATE_ QUIESCING	"1"
(128)	.... ..1.		FCTBC_QSTATE_ QUIESCE_CANCELLING	"2"
(128)	11		FCTBC_QSTATE_COPYING	"3"
(128)	.... .1..		FCTBC_QSTATE_COPY_ CANCELLING	"4"
(128)	.... .1.1		FCTBC_QSTATE_COPY_ POLICING	"5"
(128)	.... .11.		FCTBC_QSTATE_BWOING	"6"
(128)	.... .111		FCTBC_QSTATE_BWO_ CANCELLING	"7"

DUAFB - Dump Domain Authorised Parameter Block

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

------------------------------------------------------------------------
```

Table 109.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	100	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	84	DAFPB_DATA	
(10)	UNSIGNED	2	DAFPB_FUNCTION	required auth. function
(12)	UNSIGNED	2	DAFPB_RESPONSE	return code from DFHDUSVC
(14)	FULLWORD	4	DAFPB_SDUMPX_RESPONSE	MVS return code from SDUMPX
(18)	ADDRESS	4	DAFPB_SYMREC_PTR	pointer to symptom record
(1C)	FULLWORD	4	DAFPB_SYMREC_LEN	length of symptom record
(20)	CHARACTER	8	DAFPB_DUMPCODE	dump code
(28)	CHARACTER	9	DAFPB_DUMPID	dump identifier
(31)	CHARACTER	3	*	reserved

Table 109. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	ADDRESS	4	DAFPB_JOBLIST_PTR	pointer to joblist
(58)	FULLWORD	4	DAFPB_JOBLIST_LEN	length of joblist
(5C)	ADDRESS	4	DAFPB_DSPLIST_PTR	pointer to dsplist
(60)	FULLWORD	4	DAFPB_DSPLIST_LEN	length of dsplist
(64)	CHARACTER	0	DAFPB_END	

Constants

Table 110.

Len	Type	Value	Name	Description
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	

Table 110. (continued)

Len	Type	Value	Name	Description
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. ----------				
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 TS Dump Domain - Common structures
                   and constants
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1986, 2017
FUNCTION = Contains the structures for :-
             DUA - DU anchor block
```

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

Table 111.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	370	DUA	
(0)	CHARACTER	16	DUA_PREFIX	Standard prefix
(0)	HALFWORD	2	DUA_LENGTH	Length of block
(2)	CHARACTER	1	DUA_ARROW	'>'
(3)	CHARACTER	3	DUA_DFH	'DFH'
(6)	CHARACTER	2	DUA_DOMID	'DU'
(8)	CHARACTER	8	DUA_BLOCK_NAME	'ANCHOR'
(10)	CHARACTER	8	DUA_APPLID	CICS system identifier
(18)	CHARACTER	8	DUA_SYSTEM_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	Tran dump id when data set was last closed
(74)	CHARACTER	8	DUA_XCFGROUP	Region XCFGroup Name
(7C)	CHARACTER	56	*	Reserved
(B4)	BIT(8)	1	DUA_FLAGS	Reserved

Table 111. (continued)

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

Table 111. (continued)

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

Table 111. (continued)

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

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

Table 112.

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

FTB - Block header for Feature table

Table 113.

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

BTB - Block header for Dump Table Browse Token Table

Table 114.

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

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

Table 115.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	436	DTE	
(0)	ADDRESS	4	DTE_NEXT	Ptr Next DTE
(4)	ADDRESS	4	DTE_PREV	Ptr 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	Number of system dumps suppressed
(2C)	UNSIGNED	1	DTE_DAEOPT	PASS SYMPTOM
RECORD ONTO DFHDUSVC				
(2D)	CHARACTER	134	DTE_JOBLIST	
(B3)	CHARACTER	255	DTE_DSPLIST	
(1B2)	CHARACTER	2	*	
(1B4)	CHARACTER	0	*	

```
FTE - Feature table element.
```

Table 116.

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

```
BTE - Browse Table element for Browse Token Table.
```

Table 117.

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

```
Definition of catalog record for dump
```

Table 118.

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

Table 118. (continued)

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

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

Table 119.

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

Table 119. (continued)

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

Table 119. (continued)

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

```
The following block contains the data areas which are 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 120.

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

```
ECB
```

Table 121.

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

Table 121. (continued)

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

`Remote parameter list`

Table 122.

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

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

Table 123.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	72	BSAM_SAVE_AREA	
(0)	ADDRESS	4	* (18)	Save area

Constants

Table 124.

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

Table 124. (continued)

Len	Type	Value	Name	Description
0	BIT	1	DUMP_TRACE_ALL	
%DCL FMODN CHAR EXTERNAL General Constants				
0	BIT	1	YES	
0	BIT	0	NO	
The following values are passed to 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.				
1	CHARACTER	>	ARROW	
4	DECIMAL	16	BDY16	
4	HEX	FFFFFFF0	BDY16ROUND	
1	DECIMAL	2	MAX_DUXWREC_COUNT	
Sizes of quickcell blocks				
4	DECIMAL	4096	DTEBLOCK_SIZE	Size of dump table block
4	DECIMAL	512	BTEBLOCK_SIZE	Size of browse table block
4	DECIMAL	4096	FTE_BLOCK_SIZE	Size of FT table block
Size of buffer for Dump code statistics				
4	DECIMAL	1024	STATS_BUFFER_SIZE	Size of stats buffer
Dump dataset record id's.				
4	DECIMAL	1	DUID_DUMP_HEADER	
4	DECIMAL	2	DUID_DUA	
Dump record names.				
8	CHARACTER	DUA	DUNM_DUA	
DUDM trace point ids				
2	HEX	0001	TPID_DUDM_ENTER	

Table 124. (continued)

Len	Type	Value	Name	Description
2	HEX	0002	TPID_DUDM_EXIT	
2	HEX	0003	TPID_DUDM_INVALID	
2	HEX	0004	TPID_DUDM_RECOV	
2	HEX	0007	TPID_DUDM_LOADFAIL	
2	HEX	0008	TPID_DUDM_GMAIN_DUA	
2	HEX	0009	TPID_DUDM_GMAIN_DUA_ RET	
2	HEX	000A	TPID_DUDM_GMAIN_SDT	
2	HEX	000B	TPID_DUDM_GMAIN_SDT_ RET	
2	HEX	000C	TPID_DUDM_GMAIN_TDT	
2	HEX	000D	TPID_DUDM_GMAIN_TDT_ RET	
2	HEX	000E	TPID_DUDM_GMAIN_STATS_ BUF	
2	HEX	000F	TPID_DUDM_GMAIN_STATS_ BUF_RET	
				*
DUDU trace point ids				
2	HEX	0101	TPID_DUDU_ENTER	
2	HEX	0102	TPID_DUDU_EXIT	
2	HEX	0103	TPID_DUDU_INVALID	
2	HEX	0104	TPID_DUDU_RECOV	
2	HEX	0105	TPID_DUDU_DUMP_TABLE_ NOT_INIT	
DUSR trace point ids				
2	HEX	0301	TPID_DUSR_ENTER	
2	HEX	0302	TPID_DUSR_EXIT	
2	HEX	0304	TPID_DUSR_RECOV	
2	HEX	0305	TPID_DUSR_DFHDUMPX_ ADD_FAILED	
DUDT trace point ids				
2	HEX	0500	TPID_DUDT_ENTER	
2	HEX	0501	TPID_DUDT_EXIT	
2	HEX	0502	TPID_DUDT_RECOV	
2	HEX	0503	TPID_DUDT_INVAL_FORMAT	
2	HEX	0504	TPID_DUDT_INVAL_DT_ FUNCTION	
2	HEX	0505	TPID_DUDT_INVAL_ST_ FUNCTION	
DUTM trace point ids				
2	HEX	0600	TPID_DUTM_ENTER	
2	HEX	0601	TPID_DUTM_EXIT	
2	HEX	0602	TPID_DUTM_RECOV	

Table 124. (continued)

Len	Type	Value	Name	Description
2	HEX	0603	TPID_DUTM_INVAL_FORMAT	
2	HEX	0604	TPID_DUTM_INVAL_TM_ FUNCTION	
2	HEX	0605	TPID_DUTM_INVAL_ST_ FUNCTION	
2	HEX	0606	TPID_DUTM_INVAL_GETN_ BT	
2	HEX	0607	TPID_DUTM_INVAL_ENDBR_ BT	
2	HEX	0608	TPID_DUTM_INVALID_ST_ TYPE	
2	HEX	0609	TPID_DUTM_GMAIN_BTT	
2	HEX	060A	TPID_DUTM_GMAIN_BTT_ RET	
2	HEX	060B	TPID_DUTM_GMAIN_SDT	
2	HEX	060C	TPID_DUTM_GMAIN_SDT_ RET	
2	HEX	060D	TPID_DUTM_GMAIN_TDT	
2	HEX	060E	TPID_DUTM_GMAIN_TDT_ RET	
2	HEX	060F	TPID_DUTM_BTT_NOSTOR	
2	HEX	0610	TPID_DUTM_SDT_NOSTOR	
2	HEX	0611	TPID_DUTM_TDT_NOSTOR	
DUIO trace point ids				
2	HEX	0200	DUIO_ENTRY	
2	HEX	0201	DUIO_EXIT	
2	HEX	0202	DUIO_RECOVERY	
2	HEX	0203	DUIO_DOPEN	
2	HEX	0204	DUIO_DOPEN_RET	
2	HEX	0205	DUIO_DEVTYPE	
2	HEX	0206	DUIO_DEVTYPE_RET	
2	HEX	0207	DUIO_GMAIN	
2	HEX	0208	DUIO_GMAIN_RET	
2	HEX	0209	DUIO_FRMAIN	
2	HEX	020A	DUIO_FRMAIN_RET	
2	HEX	020B	DUIO_CLOSED	
2	HEX	020C	DUIO_CLOSED_RET	
2	HEX	020D	DUIO_FRPOOL	
2	HEX	020E	DUIO_FRPOOL_RET	
2	HEX	020F	DUIO_DWRITE	
2	HEX	0210	DUIO_DWRITE_RET	
2	HEX	0211	DUIO_CHK	
2	HEX	0212	DUIO_CHK_RET	
2	HEX	0214	DUIO_DCB_ABEND	

Table 124. (continued)

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

Table 124. (continued)

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

Table 124. (continued)

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

DWE - Deferred work element

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

Table 125.

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

Table 125. (continued)

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

DBWMS - XRF/DBCTL Last message sent

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

```
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
    Contained in PL/AS Copy Book DFHDXMAC
    Invoke by DXMSGPS NAME(qualifier)
       the qualifier is used to allow multiple copies of
       the message to be defined in the same program
       (rather than use of ->)
-------------------------------------------------------------
 EXTERNAL REFERENCES = None
   DATA AREAS = Contains names and Ids of IMS job
   GLOBAL VARIABLES (Macro pass) = None
```

Table 126.

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

Table 126. (continued)

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

Constants

Table 127.

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

DXPS - XRF/DBCTL DGB Extension

```
CONTROL BLOCK NAME = DFHDXPS
DESCRIPTIVE NAME = CICS XRF/DBCTL DGB Extension
FUNCTION =
DGBDXPS defines fields used by DBCTL/XRF which require
a longer lifetime than CICS 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 128.

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

Table 128. (continued)

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

DXQEL - XRF/DBCTL subtask storage

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

Table 129.

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

Table 129. (continued)

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

DXUEP - CICS-DBCTL XRF User Exit Parameter List

```
CONTROL BLOCK NAME = DFHDXUEP
NAME OF MATCHING PLS CONTROL BLOCK = NONE
DESCRIPTIVE NAME = CICS/MVS XRF support of DBCTL
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1990
FUNCTION =
 Defines the parameter list passed to the Global User Exits
 XXDFA,XXDFB, and 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 130.

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

D2GDS - CICS/DB2 Global statistics

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

Table 131.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHD2GDS	CICS/DB2 Global statistics
(0)	FULLWORD	4	(0)	fullword alignment
(0)	HALFWORD	2	D2GLEN	Length of data area
(0)	.11. .11.		D2GIDE	"0102" CICS/DB2 global stats id mask
(2)	ADDRESS	2	D2GID	CICS/DB2 global stats id
(2)	1		D2GVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	D2GDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	FULLWORD	4	D2G_GLOBAL_STATS (0)	global stats
(8)	CHARACTER	8	D2G_DB2CONN_NAME	name of the DB2CONN
(10)	CHARACTER	4	D2G_DB2_ID	DB2 sysid
(14)	CHARACTER	4	D2G_DB2_RELEASE	release of DB2
(18)	CHARACTER	8	D2G_CONNECT_TIME_GMT	connect time (GMT)
(20)	CHARACTER	8	D2G_CONNECT_TIME_ LOCAL	connect time (local)
(28)	CHARACTER	8	D2G_DISCONNECT_TIME_ GMT	disconnect time (GMT)

Table 131. (continued)

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

Table 131. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(D4)	FULLWORD	4	D2G_POOL_PARTIAL_ SIGNONS	number of partial signons
(D8)	FULLWORD	4	D2G_POOL_THREAD_ CREATE	number of thread creates
(DC)	FULLWORD	4	D2G_POOL_REUSELIMIT_ COUNT	number of times hit reuselimit
(E0)	CHARACTER	16		reserved
(F0)	FULLWORD	4	D2G_COMMAND_STATS (0)	DSNC command statistics
(F0)	CHARACTER	8	D2G_COMD_AUTHID	static authid if any
(F8)	BITSTRING	1	D2G_COMD_AUTHTYPE	authtype if any
(F9)	CHARACTER	3		reserved
(FC)	FULLWORD	4	D2G_COMD_CALLS	number of dsnc comd calls
(100)	FULLWORD	4	D2G_COMD_SIGNONS	number of signons
(104)	FULLWORD	4	D2G_COMD_THREAD_TERM	number of thread terminates
(108)	FULLWORD	4	D2G_COMD_THREAD_OVERF	number of overflows to pool
(10C)	FULLWORD	4	D2G_COMD_THREAD_LIMIT	maximum number of threads
(110)	FULLWORD	4	D2G_COMD_THREAD_ CURRENT	current number of threads
(114)	FULLWORD	4	D2G_COMD_THREAD_HWM	peak number of threads
(118)	FULLWORD	4	D2G_COMD_THREAD_ CREATE	number of thread creates
(11C)	CHARACTER	32		reserved
(13C)	CHARACTER	8	D2G_DB2CONN_DEFINE_ SOURCE	Group installed from
(144)	BITSTRING	8	D2G_DB2CONN_CHANGE_ TIME	Change/create time
(14C)	CHARACTER	8	D2G_DB2CONN_CHANGE_ USERID	Change userid
(154)	BITSTRING	2	D2G_DB2CONN_CHANGE_ AGENT	Change agent
(156)	BITSTRING	2	D2G_DB2CONN_INSTALL_ AGENT	Install agent
(158)	BITSTRING	8	D2G_DB2CONN_INSTALL_ TIME	Install/Create time
(160)	CHARACTER	8	D2G_DB2CONN_INSTALL_ USERID	Install userid
(168)	BITSTRING	4		Reserved
(168)		0	D2G_END	"*"
(168)		0	D2G_LENGTH	"*-D2GLEN" Length of dsect
Equates to test D2G_RESYNCMEMBER				
(168)	....		D2G_RESYNCMEMBER_ RESYNC	"0" Resync uow's
(168)	1		D2G_RESYNCMEMBER_ NORESYNC	"1" Noresync uow's
Equates to test D2G_POOL_AUTHTYPE and D2G_COMD_AUTHTYPE				
(168)	....		D2G_AUTHTYPE_NA	"0" Not applicable
(168)	1		D2G_AUTHTYPE_USERID	"1" Authtype(userid)
(168)	.... ..1.		D2G_AUTHTYPE_OPID	"2" Authtype(opid)
(168)	11		D2G_AUTHTYPE_GROUP	"3" Authtype(group)

Table 131. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(168)	.... .1..		D2G_AUTHTYPE_SIGNID	"4" Authtype(signid)
(168)	.... .1.1		D2G_AUTHTYPE_TERM	"5" Authtype(term)
(168)	.... .11.		D2G_AUTHTYPE_TXID	"6" Authtype(txid)
Equates to test D2G_POOL_ACCOUNTREC				
(168)	1		D2G_ACCOUNTREC_NONE	"1" Accountrec(none)
(168)	.... ..1.		D2G_ACCOUNTREC_TXID	"2" Accountrec(txid)
(168)	11		D2G_ACCOUNTREC_TASK	"3" Accountrec(task)
(168)	.... .1..		D2G_ACCOUNTREC_UOW	"4" Accountrec(uow)
Equates to test D2G_POOL_THREADWAIT				
(168)	1		D2G_THREADWAIT_YES	"1" Threadwait(yes)
(168)	.... ..1.		D2G_THREADWAIT_NO	"2" Threadwait(no)
Equates to test D2G_POOL_PRIORITY				
(168)	....		D2G_PRIORITY_NA	"0" Not applicable
(168)	1		D2G_PRIORITY_HIGH	"1" Priority(high)
(168)	.... ..1.		D2G_PRIORITY_EQUAL	"2" Priority(equal)
(168)	11		D2G_PRIORITY_LOW	"3" Priority(low)
Equates to test D2G_DB2CONN_CHANGE_AGENT				
(168)	1		D2G_DB2CONN_CSDAPI_ CHANGE	"X'01'" Change Agent - CSD API
(168)	.... ..1.		D2G_DB2CONN_ CSDBATCH_CHANGE	"X'02'" Change Agent - DFHCSDUP
(168)	11		D2G_DB2CONN_DREPAPI_ CHANGE	"X'03'" Change Agent - DREP API
(168)	.... .1..		D2G_DB2CONN_CREATE_ CHANGE	"X'04'" Change Agent - CREATE SPI
Equates to test D2G_DB2CONN_INSTALL_AGENT				
(168)	1		D2G_DB2CONN_CSDAPI_ INSTALL	"X'01'" Install Agent - CSD API
(168)	.... .1..		D2G_DB2CONN_CREATE_ INSTALL	"X'04'" Install Agent - CREATE SPI
(168)	.... .1.1		D2G_DB2CONN_GRPLIST_ INSTALL	"X'05'" Install Agent - GRPLIST

D2RDS - CICS/DB2 Resource statistics

```
CONTROL BLOCK NAME = DFHD2RDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHD2RPS
DESCRIPTIVE NAME = CICS TS DB2 Resource statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1997, 2009
FUNCTION =
       This dsect describes the CICS/DB2 statistics provided by
       the CICS/DB2 Attachment facility.
       A single record will be built to respond to a request for
       DB2ENTRY statistics.
```

```
LIFETIME =
       The statistics record is created when a resource statistics
       request is received. Storage for the data block is released
       when the user task is detached.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Domain call buffer
-------------------------------------------------------------------
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = from CICS/DB2 Attachment Facility
    GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHD2RDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 132.

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

Table 132. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(44)	FULLWORD	4	D2R_THREAD_TERM	number of thread terminates
(48)	FULLWORD	4	D2R_THREAD_WAIT_OR_ 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
(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)	11.. 11..		D2R_END	"*"
(C8)	11.. 11..		D2R_LENGTH	"*-D2RLEN" Length of dsect
Equates to test D2R_AUTHTYPE				
(C8)	....		D2R_AUTHTYPE_NA	"0" Not applicable
(C8)	1		D2R_AUTHTYPE_USERID	"1" Authtype(userid)
(C8)	.... ..1.		D2R_AUTHTYPE_OPID	"2" Authtype(opid)
(C8)	11		D2R_AUTHTYPE_GROUP	"3" Authtype(group)
(C8)	.... .1..		D2R_AUTHTYPE_SIGNID	"4" Authtype(signid)
(C8)	.... .1.1		D2R_AUTHTYPE_TERM	"5" Authtype(term)

Table 132. (continued)

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

ECA - Event control area

```
CONTROL BLOCK NAME = DFHECAPS
DESCRIPTIVE NAME = CICS TS Event Control Area
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1990
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 133.

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

Constants

Table 134.

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

ECCDS - Capturespec Resource Statistics

```
CONTROL BLOCK NAME = DFHECCDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHECCPS
DESCRIPTIVE NAME = CICS TS Capturespec Resource Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2008
FUNCTION =
       This data area contains the capturespec resource statistics
       provided by the EC component in the AP Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the
       statistics global user exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the AP Domain to store
       statistics to be passed to the user in response to a
       for capturespec resource statistics. The storage is
       released when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
```

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

Table 135.

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

ECGDS - Eventbinding Global Statistics

```
CONTROL BLOCK NAME = DFHECGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHECGPS
DESCRIPTIVE NAME = CICS TS Eventbinding Global Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2008, 2009
FUNCTION =
       This data area contains the eventbinding global statistics
       provided by the EC component in the AP Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the
       statistics global user exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the AP Domain to store
       statistics to be passed to the user in response to a
       for eventbinding global statistics. The storage is
       released when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHECGDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 136.

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

Table 136. (continued)

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

ECRDS - Eventbinding Resource Statistics

```
CONTROL BLOCK NAME = DFHECRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHECRPS
DESCRIPTIVE NAME = CICS TS Eventbinding Resource Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2008, 2009
FUNCTION =
       This data area contains the eventbinding resource statistics
       provided by the EC component in the AP Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the
       statistics global user exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the AP Domain to store
       statistics to be passed to the user in response to a
       for eventprocess resource statistics. The storage is
       released when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHECRDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 137.

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

Table 137. (continued)

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

EDF - EDF Communication area

```
CONTROL BLOCK NAME = DFHEDFDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHEDFCA.
DESCRIPTIVE NAME = CICS TS EDF Debug Linkage Area
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1981, 2012
FUNCTION =
  This DSECT describes the user task data that is used by EDF
  to display the status information, etc.
  It is obtained in DFHEDFX for each EDF call. It is then
```

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

Table 138.

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

Table 138. (continued)

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

Table 138. (continued)

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

Table 138. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C8)	.... .1..		EDFSTKCM	"X'04'" Command from user exit
(C9)	BITSTRING	1	EDFCTL6	flag byte
(C9)	1...		EDFRABND	"X'80'" DPL remote abend indicator
(C9)	.1..		EDFRPEND	"X'40'" User task suspended, pending RESUME
(CA)	HALFWORD	2	EDFSTKC	Programs EDF stack level
(CC)	FULLWORD	4	EDFTCAAD	1st EDF Task's TCA address
(D0)	FULLWORD	4	(0)	
(D0)	CHARACTER	128	EDFREGS (0)	
(D0)	DBL WORD	8	(16)	GP registers 0-15 at abend
---------- 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. ----------				
(150)	CHARACTER	8	EDF_DLA_USAGE (0)	Area controlling DLA
(150)		4	EDF_DLA_USER_TASK_USE	Task running DFHEDFX
(154)		4	EDF_DLA_CEDF_TASK_USE	CEDF running EDFP/EDFD
(154)		0	EDFDSLEN	"*-DFHEDFDS" LENGTH OF DFHEDFDS

EIB - EXEC interface block

```
CONTROL BLOCK NAME = DFHEIBLK
NAME OF MATCHING PL/AS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS EXEC Interface Block.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1990, 1993
FUNCTION = EXEC Interface Block.
       The exec interface block contains information on the
       transaction identifier, the time and date, and the cursor
       position on a display device. Some of the other fields are
       set indicating the next action that a program should take
       in certain circumstances.
       DFHEIBLK also contains information that will be helpful
       when a dump is being used to debug a program.
       This control block is included automatically by an
       application program using the command-level interface.
       EISEIBA in the EIS addresses the EIB.
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
-------------------------------------------------------------------------
             EXEC INTERFACE BLOCK
```

Table 139.

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

Table 139. (continued)

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

Table 139. (continued)

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

EICD1 - Language definition table

```
 DESCRIPTIVE NAME = CICS TS language definition (LD) table
                    structure 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.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1981, 2012
FUNCTION =
   Declarations relating to language definition table (LD table).
   The declarations below define the mapping of the contents of
   the language definition table.
   The declarations are used by both the translator itself and
   the table compilation utility program DFHUTG.
     EIT is the root of the LD table and gives addressability
     to all its components and their sizes.
```

Table 140.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	136	EIT	
Following entries in pairs consisting of (ptr, no. of entries)				
(0)	ADDRESS	4	TABXPTR	
(4)	FULLWORD	4	NTABS	Table entries
(8)	ADDRESS	4	STTXPTR	
(C)	FULLWORD	4	NSTTS	Standard text - VBPA
(10)	ADDRESS	4	CTLXPTR	
(14)	FULLWORD	4	NCTLS	Controls - VBPA
(18)	ADDRESS	4	KEEXPTR	
(1C)	FULLWORD	4	NKEYS	Keyword information *
(20)	ADDRESS	4	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

Table 140. (continued)

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

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

Table 141.

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

Table 142.

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

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

Table 143.

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

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

Table 144.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	XKERAY (256)	
(0)	CHARACTER	12	KEYWORDA	
(C)	CHARACTER	12	*	Dependant on XKEITEM size

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

Table 145.

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

Table 145. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10)	UNSIGNED	1	KENARG	max number of arguments
(11)	BIT(8)	1	KEDTYP	Data type - KEDTYP=0 means dont care BIT1 Arithmetic BIT2 String BIT1=0 and BIT2=0 Other BIT3 0-Binary 1-Decimal BIT3 0-Bit 1-Char BIT4 0-Fixed 1-Float BIT6 1-Fixed Bin(64)
(12)	UNSIGNED	1	KEDTYPL	Length of datatype
(13)	UNSIGNED	1	KEP (3)	KEYQUIVI or code gen parameters *
(16)	CHARACTER	1	KEFLG2	Additional flags
(17)	CHARACTER	1	KEFLG3	Reserved for future use
(18)	CHARACTER	0	KEEND	End of KEINFO

Table 146.

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

Table 147.

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

Table 148.

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

Table 148. (continued)

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

Table 149.

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

Table 150.

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

Table 151.

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

Table 151. (continued)

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

Table 152.

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

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

Table 153.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20421	BIFENTRY	
(0)	CHARACTER	12	BIFNAME	'DFHDATASET', etc.
(C)	BIT(8)	1	BIFFLAGS	Reserved *
(D)	ADDRESS	4	BIFNEXT	0 for last in chain *
(11)	FULLWORD	4	BIFNEQUS	Number of CVDA'S
(15)	CHARACTER	17	BIFEQUSA (1200)	
(15)	CHARACTER	12	BIFARG	'ENABLED', etc.
(21)	FULLWORD	4	BIFCVDA	128, 129, etc.
(25)	BIT(8)	1	BIFCVDFL	Reserved *

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

Table 154.

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

Table 154. (continued)

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

Table 155.

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

Table 156.

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

Table 157.

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

Table 158.

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

Table 159.

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

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

Table 160.

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

Table 161.

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

Table 161. (continued)

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

Table 162.

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

Table 163.

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

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

Table 164.

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 165.

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

Table 165. (continued)

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

Constants

Table 166.

Len	Type	Value	Name	Description
1	DECIMAL	255	STOPPER	

EIC - EXEC interface communications area

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

Table 167.

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

Constants

Table 168.

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

EIPDS - Command level interface dsects

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

Table 169.

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

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

Table 170.

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

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

Table 171.

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

```
Arg list DSECT overlays the argument list from the application
```

Table 172.

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

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

Table 173.

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

Table 173. (continued)

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

Table 173. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5)	.1..		EIDFML31	"X'40"' 31 BIT LENGTH IN TC ARG4
(5)	..1.		EIDMXL31	"X'20"' 31 BIT LENGTH IN TC ARG9
(5)	...1		EIDNTRNC	"X'10"' TC NOTRUNCATE OPTION
(5)	1...		EIDTPN32	"X'80"' TPNs > 32 chars are valid
(5)	.1..		EIDTROFF	"X'40"' TRACE OFF
(5)	...1		EIDTRLST	"X'10"' TRACE LIST
(5)	.... 1...		EIDTRSIN	"X'08"' TRACE SINGLE
(5)	.... .1..		EIDTRSYS	"X'04"' TRACE SYSTEM
(5)	.... ..1.		EIDTRUSE	"X'02"' TRACE USER
(5)	1		EIDTRALL	"X'01"' TRACE ALL
(5)	.... .1..		EIDMSDEF	"X'04"' BMS DEFAULT
(5)	.... ..1.		EIDMSALT	"X'02"' BMS ALTERNATE
(6)	CHARACTER	1	EIDOPT6	OPTION BYTE 6
(6)	1...		EIDCONFM	"X'80"' TC CONFIRM OPTION
(6)	1...		EIDRBA	"X'80"' RBA
(6)	1...		EIDSYNC	"X'80"' SYNCONRETURN specified
(6)	1...		EIDRTST	"X'80"' Routable START
(6)	.1..		EIDGENER	"X'40"' GENERIC
(6)	..1.		EIDGTEQ	"X'20"' GTEQ
(6)	.... ..1.		EIDPROT	"X'02"' PROTECT
(6)	1		EIDNOCHK	"X'01"' NOCHECK
(6)	.1..		EIDTCDEF	"X'40"' TC DEFAULT
(6)	..1.		EIDTCALT	"X'20"' TC ALTERNATE
(6)	.1..		EIDRESUN	"X'40"' RESUNAVAIL support
(7)	CHARACTER	1	EIDOPT7	OPTION BYTE 7
(7)	.... 1...		EIDSGST	"X'08"' SEGSET
(7)	.... .1..		EIDUPDT	"X'04"' UPDATE
(7)	.... .1..		EIDREWR	"X'04"' REWRITE
(7)	.... 1...		EIDITEM	"X'08"' ITEM
(7)	..1.		EIDICHDR	"X'20"' IC HEADER
(7)	...1		EIDICPUT	"X'10"' START WITH DATA
(7)	...1		EIDSHRD	"X'10"' GETMAIN SHARED
(7)	1... .1.1		EIDTERM	"X'85"' GETMAIN TERMINAL class
(8)	CHARACTER	8	EIDRMID (0)	RESOURCE MANAGER ID

Table 173. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8)	CHARACTER	1	EIDOPT8	OPTION BYTE 8
(8)	....		EIDCANCL	"X'00'" CANCEL (DEFAULT)
(8)	.... ..1.		EIDLABEL	"X'02'" LABEL
(8)	1		EIDPROG	"X'01'" PROGRAM
(8)	1		EIDTCWRI	"X'01'" TC SEND / CONVERSE
(8)	.... .1..		EIDWT	"X'04'" WAIT
(9)	CHARACTER	1	EIDOPT9	OPTION BYTE 9
(9)	...1		EIDRRN	"X'10'" RRN
(A)	CHARACTER	1	EIDOPT10	OPTION BYTE 10
(A)	11..		EIDMAPO	"X'C0'" MAPONLY
(A)	1...		EIDBUF	"X'80'" BUFFER
(A)	.... 1...		EIDWAIT	"X'08'" WAIT
(B)	CHARACTER	1	EIDOPT11	OPTION BYTE 11
(B)	.... .1..		EIDPSBKW	"X'04'" PASSBK ON SEND
(C)	CHARACTER	1	EIDOPT12	OPTION BYTE 12
(C)	...1		EIDFMH	"X'10'" FMH
(C)	...1		EIDRTAIN	"X'10'" RETAIN
(C)	.... 1...		EIDLAST	"X'08'" LAST
(C)	.... 1...		EIDRLSE	"X'08'" RELEASE
(D)	CHARACTER	1	EIDOPT13	OPTION BYTE 13
(E)	CHARACTER	1	EIDOPT14	OPTION BYTE 14
(E)	...1		EIDSTRF	"X'10'" STRUCTURED FIELD
(E)	.... ..1.		EIDNVIT	"X'02'" INVITE
(F)	CHARACTER	1	EIDOPT15	OPTION BYTE 15
(10)	CHARACTER	8	EIDLNNO (0)	LINE NUMBER
(10)	CHARACTER	1	EIDOPT16	OPTION BYTE 16
(11)	CHARACTER	1	EIDOPT17	OPTION BYTE 17
(12)	CHARACTER	1	EIDOPT18	OPTION BYTE 18
(13)	CHARACTER	1	EIDOPT19	OPTION BYTE 19
(14)	CHARACTER	1	EIDOPT20	OPTION BYTE 20
(15)	CHARACTER	1	EIDOPT21	OPTION BYTE 21
(16)	CHARACTER	1	EIDOPT22	OPTION BYTE 22
(17)	CHARACTER	1	EIDOPT23	OPTION BYTE 23
(18)	CHARACTER	1	EIDOPT24	OPTION BYTE 24
(19)	CHARACTER	1	EIDOPT25	OPTION BYTE 25
(1A)	CHARACTER	1	EIDOPT26	OPTION BYTE 26
(1B)	CHARACTER	1	EIDOPT27	OPTION BYTE 27

EIS - EXEC interface structure

Table 174.

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

```
CONTROL BLOCK NAME = DFHEISDS
NAME OF MATCHING PL/AS CONTROL BLOCK = DFHEISPS
DESCRIPTIVE NAME = CICS TS EXEC Interface Structure.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1980, 2017
FUNCTION =
This copybook describes the system part of the EXEC
Interface storage (EIS). It does not contain a DSECT
statement and it is normally invoked by DFHEIS. See
this macro for reasons and details.
-------------------------------------------------------------------
   Dummy change for PQ58342
```

Table 175.

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

Table 175. (continued)

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

Table 175. (continued)

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

Table 175. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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	EISTRACE	Level 2 trace
(58)	FULLWORD	4	EISSAVE0	R0 save area for GETMAIN/FREEM.
(5C)	ADDRESS	4	EISSAVE1	R1 save area for GETMAIN/FREEM.
(60)	ADDRESS	4	EISSAVE6	R6 save area for GETMAIN/FREEM.
(64)	ADDRESS	4	EISSAVE7	R7 save area for GETMAIN/FREEM.
(64)	ADDRESS	4	EISTPTA	Save area for TCATPTA
(68)	BITSTRING	8	EIS_LE370_THREAD_ TOKEN	LE thread token
PROGRAM LIFETIME STORAGE The following storage is used to hold information which has the same lifetime as the current program				
(70)	HALFWORD	2	EISCSETL	data length (no trunc) for read set
(72)	CHARACTER	1	EISENILT	ENTRY NO. IN LABEL TABLE
(73)	CHARACTER	1		Reserved
(74)	ADDRESS	4	EISRET	SUBROUTINE RETURN ADDRESS
(78)	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				
(7C)	CHARACTER	4	EISSYSNM	name of sys. holding resrce.
(80)	ADDRESS	4	EISTEMP	TEMPORARY R14 SLOT
(84)	ADDRESS	4	EISTEMP2	TEMPORARY R14 SLOT
(88)	ADDRESS	4	EISTEMP3	TEMPORARY R14 SLOT
(8C)	ADDRESS	4	EISTEMP4	TEMPORARY R14 SLOT
(90)	BITSTRING	1	EISEDFRB	EDF REQUEST/REPLY BYTE
REQUEST BITS				
(90)	1...		EISEDFRQ	"X'80'" EXEC REQUEST
(90)	.1..		EISEDFRS	"X'40'" EXEC RESPONSE
(90)	..1.		EISEDFIN	"X'20'" INITIALIZATION
(90)	...1		EISEDFPT	"X'10'" PROGRAM TERMINATION
(90)	.... 1...		EISEDFTT	"X'08'" TASK TERMINATION
(90)	.... .1..		EISEDFAB	"X'04'" ABEND

Table 175. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(90)	.... ..1.		EISEDFAC	"X'02'" ABNORMAL CONDITION
(90)	1		EISEDFRE	"X'01'" PLIST-REFORMAT REQUIRED
REPLY BITS				
(90)	1...		EISEDFFA	"X'80'" FORCED ABEND
(90)	.1..		EISEDFUA	"X'40'" USER ABEND
(90)	..1.		EISEDFUW	"X'20'" USER ABEND WITH DUMP
(90)	...1		EISEDFUD	"X'10'" USER DUMP
(90)	.... 1...		EISEDFCA	"X'08'" CATASTROPHIC ABEND
(91)	CHARACTER	7		Reserved
START OF STACKED STORAGE The following storage up to EISUPERB is stacked across links. The length of the stacked storage is held in EISTACKL. Fields from here to EISERMSA are RUN-UNIT local.				
(98)	DBL WORD	8	(0)	
(98)	ADDRESS	4	EISTACKA (0)	
(98)	ADDRESS	4	EIS_PIPI_CICSKEY_RSA	Address of PIPI Cics key rsa
(9C)	ADDRESS	4	EIS_PIPI_USERKEY_STG	Address of PIPI User key stg incl rsa
(A0)	ADDRESS	4	EISRUSTG	RUN UNIT LOCAL STORAGE ADDRESS
(A4)	ADDRESS	4	EISERMSA	EDF/DLI ADDR EDF DISPLAY DATA
(A8)	ADDRESS	4	EIS_PLB_ADDRESS	Addr(Program Language Block)
(AC)	ADDRESS	4	EIS_APLI_SAVEAREA	Addr(DFHAPLI's registers on giving up control)
(B0)	ADDRESS	4	EISASTG	A(WS) FOR COBOL ONLY
(B4)	CHARACTER	2	EIS_PROGRAM_MODE	TCB MODE for application program
(B6)	BITSTRING	1	EISAPM	APPLICATION PROGRAM MASK
(B7)	BITSTRING	1	EISFLAG8	
(B7)	1...		EISSRPAB	"X'80'" TCAAAM SET IN EDFX-SRP ISSUED ABND
(B7)	.1..		EISEDFRM	"X'40'" INDICATE EDF INVOKED BY ERM
(B7)	...1		EISEDFRN	"X'10'" INDICATE NEW TYPE EDF SCREEN REQUIRED
(B7)	.... 1...		EISCEDFY	"X'08'" CEDF allowed for current program

Table 175. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B7)	.... .1..		EISTKING	"X'04'" Entering new exec capable GLUE/URM
(B7)	.... ..1.		EISDPL	"X'02'" Program restricted to DPL API
(B7)	1		EISYNCOK	"X'01'" Syncpointing allowed in DPL server prog.
(B8)	BITSTRING	1	EISFLAG9	
(B8)	1...		EISSYEIB	"X'80'" SYSEIB ON LAST EXEC CICS COMMAND
(B8)	.1..		EISRTDST	"X'40'" Indicate a RouTeD STart request
(B8)	..1.		EISERM31	"X'20'" DFHERM INVOKED IN AMODE 31
(B8)	...1		EISERM64	"X'10'" DFHERM INVOKED IN AMODE 64
(B9)	BITSTRING	1		Reserved
(BA)	HALFWORD	2	EISEDFLV	EDF stack level for current prog
(BC)	ADDRESS	4		Reserved
`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.`				
(C0)	ADDRESS	4	EISINITA (0)	
(C0)	BITSTRING	1	EISFLAG1	ASSORTED FLAGS
(C0)	1...		EISRORX	"X'80'" 1 FOR PL/I RETURN OR XCTL
(C0)	.1..		EISSPEX	"X'40'" eligible for XEISPIN, OUT
(C0)	..1.		EISJVMXC	"X'20'" Executing in JVM
(C0)	.... 1...		EISPGOTO	"X'08'" LE/370 Perform Goto flag
(C0)	.... ..1.		EISEDFFC	"X'02'" 1 FOR EDF WAS ON FOR FIRST CALL OF A SET OF CALLS
(C0)	1		EISEXEC	"X'01'" 1 DURING EXEC COMMAND
(C1)	CHARACTER	2	EIS_FASTPATH (0)	Fastpath Condition Flags
(C1)	BITSTRING	1	EISFLAG6	MASTERS FOR EISFLAG2
(C2)	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.`				
(C3)	BITSTRING	1	EISLANG	LANGUAGE FLAGS
(C3)	...1 111.		EISLANGS	"X'1E'" ALL LANGUAGE BITS

Table 175. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C3)	...1		EISRPG	"X'10'" FOR RPG PROGRAM
(C3)	.... 1...		EISASM	"X'08'" FOR ASM PROGRAM
(C3)	.... .1..		EISCOBOL	"X'04'" FOR COBOL PROGRAM
(C3)	.... .11.		EISSPCOB	"X'06'" FOR SPECIAL PROGRAM
(C3)	.... ..1.		EISPLI	"X'02'" FOR PL/I PROGRAM
(C3)	.... 1.1.		EISPLS	"X'0A'" FOR PL/AS PROGRAM
(C3)	.... 11..		EISVSPLI	"X'0C'" FOR V. SPECIAL PROGRAM
(C3)	.... 111.		EISC	"X'0E'" FOR C PROGRAM
(C3)	...1 ..1.		EISLEASM	"X'12'" FOR LE MAIN Assembler
(C4)	BITSTRING	1	EISFLAGA	flag byte
(C4)	1...		EISDAT31	"X'80'" program will accept data above 16M
(C4)	.1..		EISDAT64	"X'40'" program will accept data above 2G
(C4)	.... .1..		EIS_XCTL	"X'04'" User has issued XCTL
(C4)	.... ..1.		EIS_PROGRAM_ABENDED	"X'02'" DFHAPLI's Recovery Routine has detected that the program has abended
(C4)	1		EISEIECR	"X'01'" The program has terminated by issuing Exec Cics Return
`EIS_CICS_DATAKEY, EIS_CICS_EXECKEY, EIS_CURRENT_EXECKEY, and EIS_ABEND_EXECKEY are all part of the support for Storage Isolation - PSK`				
(C4)	..1.		EIS_CICS_DATAKEY	"X'20'" Current program was defined with CICS data location key.
(C4)	...1		EIS_CICS_EXECKEY	"X'10'" Current program was defined with
(C4)	.... 1...		EISRUNIN	"X'08'" CEE Run-Unit in control CICS execution key.
(C5)	BITSTRING	1	EIS_CURRENT_EXECKEY	Instantaneous execution key when current command started
(C5)	1..1		EIS_USERKEY	"X'90'" Constant for testing EIS_CURRENT_EXECKEY

Table 175. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C6)	BITSTRING	1	EIS_ABEND_EXECKEY	Instantaneous execution key when the last HANDLE ABEND LABEL was executed at this level.
(C7)	BITSTRING	1	EIS_APPL_BOUNDARY_ FLAGS	Application Boundary Flags
(C7)	1...		EIS_RECOVERY_SWITCH	"X'80'" Recovery environment switch needed at application boundary
(C7)	.1..		EIS_ABTERM_ALLOWED_ SWITCH	"X'40'" Abterm_allowed switch needed at application boundary
(C7)	..1.		EIS_CRITICAL_CODE_ SWITCH	"X'20'" Critical code protection switch needed at application boundary
(C7)	...1		EIS_RESET_RUNAWAY_ SWITCH	"X'10'" Reset runaway state
(C7)	.... 1...		EISECOFF	"X'08'" Event capture off for curr pgm
(C7)	.... .1..		EISECTST	"X'04'" Event captr tested for curr pgm
(C8)	ADDRESS	4	EIS24STG	A(run-unit work-area <16 meg)
(CC)	ADDRESS	4		Reserved
(CC)	...1		EISINITL	"*-EISINITA" Length cleared
This is the end of the area initialised to X'00' on LINK or XCTL.				
(CC)	..11 1...		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...				
(D0)	ADDRESS	8	EISUPERB (0)	START OF SUPERLINK
(D0)	ADDRESS	4	EISICIOAL	IC Retrieve length for Bridge
(D4)	ADDRESS	4	EISBAIOA	A(BAIOA)
(D8)	ADDRESS	4	EISTDIA	A(TDIA)
(DC)	ADDRESS	4	EISTSIOA	A(TSIOA)
(E0)	ADDRESS	4	EISICIOA	IC TSIOA
(E4)	ADDRESS	4	EISDITAB	DI TABLE
(E8)	ADDRESS	4	EISERMDA	A(ERM-EDF I/F VECTOR)
(EC)	ADDRESS	4	EISBIBP	
(F0)	ADDRESS	8	EISEIPR1	EIP'S INPUT R1 For EDF..
(F8)	ADDRESS	4	EISUPERE (0)	END OF SUPERLINK *
end of SUPERLINK storage				
(F8)	FULLWORD	4	(0)	

Table 175. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(F8)	CHARACTER	8	EISTITLE	DFHEIB

EISTG - EXEC interface dynamic storage

```
EXEC INTERFACE DYNAMIC STORAGE
```

Table 176.

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

EIUS - EXEC interface user structure

```
CONTROL BLOCK NAME = DFHEIUS
DESCRIPTIVE NAME = CICS TS User part of EXEC interface storage
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
```

```
       (C) Copyright IBM Corp. 1990, 2000
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 177.

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

Table 177. (continued)

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

EPDE - Event Processing Descriptor

```
CONTROL BLOCK NAME = DFHEPDEC

FUNCTION

The EPDE is a definition of the DFHEP.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.CHAR.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'. These containers contain the
capture data in a printable form formatted as requested when
defining the Emitted Business Information in the Event Binding
editor.
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'. These containers contain the
raw unformatted capture data.

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. :edl

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 and DFHEP.CHAR
containers will not be created.

--------------------------------------------------------------------
```

Table 178.

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

Table 179.

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

Constants

Table 180.

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

EPFE - Event Processing Flattened Event

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

Table 181.

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

Constants

Table 182.

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

EPCX - Event Processing Context Container

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

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

A CICS EVENT object consists of the following containers:

DFHEP.ADAPTER
- a container for the EP adapter configuration
DFHEP.ADAPTPARM
- a container for the EP adapter invocation parameters
DFHEP.CONTEXT
- a container for the contextual data common to all events
DFHEP.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 183.

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

Constants

Table 184.

Len	Type	Value	Name	Description
Values of EPCX_StrucId				
4	CHARACTER	EPCX	EPCX_STRUC_ID	
Values of EPCX_Version				
4	DECIMAL	1	EPCX_VERSION_1	
4	DECIMAL	2	EPCX_VERSION_2	
4	DECIMAL	2	EPCX_CURRENT_VERSION	
Values of EPCX_SchemaVersion				
2	DECIMAL	1	EPCX_SCHEMA_VERSION_1	
2	DECIMAL	2	EPCX_SCHEMA_VERSION_2	
2	DECIMAL	2	EPCX_CURRENT_SCHEMA_ VERSION	
Values of EPCX_SchemaRelease				
2	DECIMAL	0	EPCX_SCHEMA_RELEASE_0	

Table 184. (continued)

Len	Type	Value	Name	Description
2	DECIMAL	0	EPCX_CURRENT_SCHEMA_ RELEASE	
Values of EPCX_EventType				
1	CHARACTER	A	EPCX_APPLICATION	
1	CHARACTER	S	EPCX_SYSTEM	

EPAP - Event Processing Adaptparm Container

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

A CICS EVENT object consists of the following containers:

DFHEP.ADAPTER
- a container for the EP adapter configuration
DFHEP.ADAPTPARM
- a container for the EP adapter invocation parameters
DFHEP.CONTEXT
- a container for the contextual data common to all events
DFHEP.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 185.

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

Constants

Table 186.

Len	Type	Value	Name	Description
Values of EPAP_StrucId				
4	CHARACTER	EPAP	EPAP_STRUC_ID	
Values of EPAP_Version				
4	DECIMAL	1	EPAP_VERSION_1	
4	DECIMAL	1	EPAP_CURRENT_VERSION	

Table 186. (continued)

Len	Type	Value	Name	Description
Values of EPAP_Recover				
1	CHARACTER	R	EPAP_RECOVERABLE	
1	CHARACTER	N	EPAP_NON_RECOVERABLE	
1	CHARACTER		EPAP_ANY_RECOVERABLE	

EPGDS - Event Processing Global Statistics

```
CONTROL BLOCK NAME = DFHEPGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHEPGPS
DESCRIPTIVE NAME = CICS TS EP Domain (Eventproc) Global Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2008, 2016
FUNCTION =
       This data area contains the eventprocess global statistics
       provided by the EP Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the
       statistics global user exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the EP Domain to store
       statistics to be passed to the user in response to a
       for eventprocess global statistics. The storage is
       released when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHEPGDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 187.

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

Table 187. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(64)	FULLWORD	4	EPG_DISPATCHERS_ ATTACHED	Number of dispatcher attaches
(68)	FULLWORD	4	EPG_CURRENT_ DISPATCHERS	Current dispatcher tasks
(6C)	FULLWORD	4	EPG_PEAK_DISPATCHERS	Peak dispatcher tasks
(70)	FULLWORD	4		Reserved
(74)	FULLWORD	4	EPG_CUSTOM_ADAPTER_ EVENTS	Events to Custom EP adapter
(78)	FULLWORD	4	EPG_WMQ_ADAPTER_ EVENTS	Events to WMQ EP adapter
(7C)	FULLWORD	4	EPG_TRANS_ADAPTER_ EVENTS	Events to Trans EP adapter
(80)	FULLWORD	4	EPG_TSQUEUE_ADAPTER_ EVENTS	Events to Tsqueue adapter
(84)	FULLWORD	4	EPG_HTTP_ADAPTER_ EVENTS	Events to HTTP adapter
(88)	FULLWORD	4	EPG_TDQUEUE_ADAPTER_ EVENTS	Events to Tdqueue adapt
(8C)	FULLWORD	4	EPG_DISPATCH_ FAILURE_CONFIG	Events lost - config
(90)	FULLWORD	4	EPG_DISPATCH_ FAILURE_OTHER	Events lost - other
(94)	FULLWORD	4	EPG_ADAPTER_FAILURE_ CONFIG	Events lost - config
(98)	FULLWORD	4	EPG_ADAPTER_FAILURE_ OTHER	Events lost - other
(9C)	FULLWORD	4	EPG_EVENTS_ADAPTER_ UNAVAIL	Events lost - no adapter

Table 187. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A0)	BITSTRING	16		Reserved
(A0)	1.11		EPGDS_END	"*"
(A0)	1.11		EPGDS_LENGTH	"*-EPGDS_LEN" EP Domain Global record length
Constants that denote a EP domain global stats record				
(A0)	1... 111.		EPGIDE	"142" Eventprocess global stats id
(A0)	1		EPG_VERS	"X'01'" Record version number

EPRDS - Event Processing Resource Statistics

```
CONTROL BLOCK NAME = DFHEPRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHEPRPS
DESCRIPTIVE NAME = CICS TS EP Domain (EP) Resource Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2016
FUNCTION =
       This data area contains the eventprocess resource statistics
       provided by the EP Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the
       statistics global user exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the EP Domain to store
       statistics to be passed to the user in response to a request
       for eventprocess resource statistics. The storage is
       released when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHEPRDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 188.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHEPRDS	EP resource stats record
(0)	HALFWORD	2	EPRDS_LEN	EP resource stats record length
(2)	ADDRESS	2	EPRDS_ID	EP resource stats id
(4)	CHARACTER	1	EPRDS_VERS	EP resource stats version

Table 188. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	.11. 11..		EPRDS_END	"*"
(64)	.11. 11..		EPRDS_LENGTH	"*-EPRDS_LEN" EP Domain resource record length
Constants that denote a EP domain resource stats record				
(64)	1..1		EPRIDE	"144" Eventprocess resource stats id
(64)	1		EPR_VERS	"X'01'" Record version number
The following values relates to epr_emission_mode				
(64)	1		EPR_EMODE_SYNC	"01"
(64)	.... ..1.		EPR_EMODE_ASYNC	"02"
The following values relates to epr_adapter_type				
(64)	1		EPR_ATYPE_CUSTOM	"01"
(64)	.... ..1.		EPR_ATYPE_WMQ	"02"
(64)	11		EPR_ATYPE_TRANSTART	"03"
(64)	.... .1..		EPR_ATYPE_TSQUEUE	"04"
(64)	.... .1.1		EPR_ATYPE_HTTP	"05"
(64)	.... .11.		EPR_ATYPE_TDQUEUE	"06" Change Agents
(64)	1		EPR_CSDAPI_CHANGE	"0001" CSD API
(64)	.... ..1.		EPR_CSDBATCH_CHANGE	"0002" DFHCSDUP
(64)	11		EPR_DREPAPI_CHANGE	"0003" DREP API
(64)	.... .1..		EPR_CREATE_CHANGE	"0004" EXEC CREATE SPI Install Agents
(64)	.... 1..1		EPR_BUNDLE_INSTALL	"0009" BUNDLE

ETC - EXEC terminal control

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

Table 189.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHETCDS	
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
(C)	ADDRESS	4	ETCBTEAR	0 IF ETCBUSID SET OR A(TCTTE) IF ETCBTCID SET
(10)	ADDRESS	4	ETCBSTDA	LOW BOUND ADDRESS FOR FMH BUILD / EXTRACT
(14)	ADDRESS	4	ETCBNDDA	HIGH BOUND ADDRESS FOR FMH BUILD / EXTRACT
(18)	CHARACTER	8	ETCBID	NAME OF EXEC TERMINAL CONTROL CONTROL BLOCK
(20)	CHARACTER	1	ETCBFLGS	
(20)	1...		ETCBUSID	"X'80'" ID IS 8 BYTE USER NAME
(20)	.1..		ETCBTCID	"X'40'" ID IS 4 BYTE TCTTE NAME
(21)	CHARACTER	1	ETCBXTOP	FMH BUILD / EXTRACT OPTIONS BYTE - VALUES CORRESPOND TO THOSE HELD IN TCTEXTOP
(21)	1...		ETCBEXNO	"X'80'" EXTRACT = NO
(21)	.1..		ETCBEXAT	"X'40'" EXTRACT = ATTACH
(21)	..1.		ETCBEXPR	"X'20'" EXTRACT = PREPARE
(22)	CHARACTER	1	ETCBREMV	FMH REMOVAL OPTIONS BYTE - VALUES ARE IDENTICAL TO THOSE HELD IN ETCBXTOP
(23)	CHARACTER	1	ETCBBILD	FMH BUILD OPTIONS

Table 189. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(23)	1...		ETCBUFMH	"X'80'" USER DATA CONTAINS FMH(S)
(23)	.1..		ETCBBUAT	"X'40'" BUILD = ATTACH
(23)	..1.		ETCBBUPR	"X'20'" BUILD = PREPARE * *
(24)	FULLWORD	4	(0)	*
	NOW COME DEFINITIONS FOR FIELDS THAT RELATE TO AN LU6 PREPARE HEADER			
(24)	CHARACTER	1	LU6PTYP	VALUE PUT IN FMHPPTYP *
	NOW COME DEFINITIONS FOR FIELDS THAT RELATE TO AN LU6 ATTACH HEADER			
(25)	CHARACTER	1	LU6MTYP	VALUE PUT IN FMHXMOD
(26)	CHARACTER	1	LU6DS	VALUE PUT IN FMHADS
(27)	CHARACTER	1	LU6DBA	VALUE PUT IN FMHADBA *
	NOW COME DEFINITIONS FOR OPTIONAL FIELDS THAT RELATE TO AN LU6 ATTACH HEADER			
(28)	CHARACTER	1	LU6EXIST	VALUES PRESENT IN FMH
(28)	1...		LU6DPNX	"X'80'" DPN PRESENT
(28)	.1..		LU6PRNX	"X'40'" PRN PRESENT
(28)	..1.		LU6RDPNX	"X'20'" RDPN PRESENT
(28)	...1		LU6RPRNX	"X'10'" RPRN PRESENT
(28)	.... 1...		LU6DQNX	"X'08'" DQN PRESENT *
(29)	CHARACTER	8	LU6DPN	VALUE PUT IN FMHATDPN
(31)	CHARACTER	8	LU6PRN	VALUE PUT IN FMHATPRN
(39)	CHARACTER	8	LU6RDPN	VALUE PUT IN FMHARDPN
(41)	CHARACTER	8	LU6RPRN	VALUE PUT IN FMHARPRN
(49)	CHARACTER	8	LU6DQN	VALUE PUT IN FMHATDQN *
	LASTLY COME DEFINITIONS FOR FIELDS THAT RELATE TO WHAT HAS BEEN DONE TO THE DATA			
(51)	CHARACTER	1	ETCBPRE	IF SET, PREPARE HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB
(52)	CHARACTER	1	ETCBLU6	IF SET, LU6 ATTACH HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB

Table 189. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(53)	CHARACTER	1	ETCBLUC	IF SET, LU6 ATTACH HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB
(54)	CHARACTER	1	ETCBFMH	IF SET, DATA RETURNED TO CALLER CONTAINS ONE OR MORE FMHS
(55)	CHARACTER	1	ETCBERR	IF SET, FMH IS NOT CONTAINED WITHIN THE SPECIFIED DATA LIMITS
(58)	DBL WORD	8	ETCBEND (0)	
(58)	.1..		ETCBCLR	"*-ETCBID" LENGTH OF DATA IN CONTROL BLOCK THAT IS CLEARED WHEN AN ETCB IS FREED
(58)	.1.1		ETCBLEN	"*-ETCBFCHN" OVERALL LENGTH OF AN ETCB CONTROL BLOCK

FCE - File control EXEC argument list

```
CONTROL BLOCK NAME = DFHFCEDS
DESCRIPTIVE NAME = CICS TS EXEC argument list for File Control
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      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1989, 2016
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 190.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	FC_ADDR_LIST	EXEC Parameter List
(0)	ADDRESS	4	FC_ADDR0	Address 0
(4)	ADDRESS	4	FC_ADDR1	Address 1
(8)	ADDRESS	4	FC_ADDR2	Address 2
(C)	ADDRESS	4	FC_ADDR3	Address 3
(10)	ADDRESS	4	FC_ADDR4	Address 4
(14)	ADDRESS	4	FC_ADDR5	Address 5
(18)	ADDRESS	4	FC_ADDR6	Address 6
(1C)	ADDRESS	4	FC_ADDR7	Address 7

Table 190. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	ADDRESS	4	FC_ADDR8	CICS Internal Use Only
(24)	ADDRESS	4	FC_ADDR9	CICS Internal Use Only
(28)	ADDRESS	4	FC_ADDRA	CICS Internal Use Only
(2C)	ADDRESS	4	FC_ADDRB	Address 11

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

Table 191.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	FC_EID	EID for File Control
(0)	CHARACTER	1	FC_GROUP	Group Code
(0)	.... .11.		FC_FILE_GROUP	"X'06'" All File Control Requests ..
(1)	CHARACTER	1	FC_FUNCT	Function Code
(1)	.... ..1.		FC_READ	"X'02'" READ Request
(1)	.... .1..		FC_WRITE	"X'04'" WRITE Request
(1)	.... .11.		FC_REWRITE	"X'06'" REWRITE Request
(1)	.... 1...		FC_DELETE	"X'08'" DELETE Request
(1)	.... 1.1.		FC_UNLOCK	"X'0A'" UNLOCK Request
(1)	.... 11..		FC_STARTBR	"X'0C'" STARTBR request
(1)	.... 111.		FC_READNEXT	"X'0E'" READNEXT Request
(1)	...1		FC_READPREV	"X'10'" READPREV Request
(1)	...1 ..1.		FC_ENDBR	"X'12'" ENDBR Request
(1)	...1 .1..		FC_RESETBR	"X'14'" RESETBR Request
(1)	...1 .11.		FC_REPLACE	"X'16'" REPLACE Request
(1)	...1 1...		FC_REPLDEL	"X'18'" REPLACE_DELETE Request
	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)	1...		FC_EXIST1	"X'80'" FC_ADDR1 is valid if the command specifies FILE

Table 191. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	.1..		FC_EXIST2	"X'40'" FC_ADDR2 is valid if the command specifies INTO, SET or FROM
(2)	..1.		FC_EXIST3	"X'20'" FC_ADDR3 is valid if the command specifies LENGTH or NUMREC. It is also valid if a STARTBR, RESETBR or ENDBR specifies REQID. This bit may be modified by a user exit.
(2)	...1		FC_EXIST4	"X'10'" FC_ADDR4 is valid if the command specifies RIDFLD.
(2)	.... 1...		FC_EXIST5	"X'08'" FC_ADDR5 is valid if the command specifies KEYLENGTH. This bit may be modified by a user exit.
(2)	.... .1..		FC_EXIST6	"X'04'" FC_ADDR6 is valid if the command is READNEXT or READPREV and it specifies REQID. This bit may be modified by a user exit.
(2)	.... ..1.		FC_EXIST7	"X'02'" FC_ADDR7 is valid if the command specifies SYSID. This bit may be modified by a user exit.
(2)	1		FC_EXIST8	"X'01'" CICS Internal Use Only
(3)	BITSTRING	1	FC_BITS2	Next 8 existence bits
(3)	1...		FC_EXIST9	"X'80'" CICS Internal Use Only
(3)	.1..		FC_EXISTA	"X'40'" CICS Internal Use Only
(3)	..1.		FC_EXISTB	"X'20'" FC_ADDRB is valid if the command specifies TOKEN. This may be modified by a user exit.
	The next 5 bytes describe the keywords on the command For example, if FC_MASSINSERT is set on, the command included the MASSINSERT keyword. If FC_MASSINSERT is set off, the command did not include the MASSINSERT keyword.			
(4)	BITSTRING	1		Reserved
(5)	BITSTRING	1	FC_EIDOPT5	Options Byte 1
(5)	.... .1..		FC_MASSINSERT_X	"X'04'" MASSINSERT specified. This bit may be modified by a user exit.
(5)	.... ..1.		FC_RRN_X	"X'02'" RRN specified
(5)	1		FC_SET_X	"X'01'" SET specified

Table 191. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6)	BITSTRING	1	FC_EIDOPT6	Options byte 2
(6)	1...		FC_RBA_X	"X'80'" RBA specified
(6)	.1..		FC_GENERIC_X	"X'40'" GENERIC specified. This bit may be modified by a user exit.
(6)	..1.		FC_GTEQ_X	"X'20'" GTEQ specified. This bit may be modified by a user exit.
(6)	...1		FC_NRI_X	"X'10'" NRI specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set.
(6)	.... 1...		FC_CR_X	"X'08'" CR specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set.
(6)	.... .1..		FC_RR_X	"X'04'" RR specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set.
(6)	.... ..1.		FC_BRWS_UPD_X	"X'02'" Update specified on READNEXT or READPREV request. This bit may not be modified by the user exit.
(6)	1		FC_NO_SUSPEND	"X'01'" NOSUSPEND specified on READ, READNEXT, READPREV, WRITE, DELETE, or REWRITE. This bit may be modified by the user exit.
(7)	BITSTRING	1	FC_EIDOPT7	Options Byte 3
(7)	.... .1..		FC_UPDATE_X	"X'04'" UPDATE specified. WARNING. This bit should only be tested if the command is READ. For all other commands it has no meaning and may or may not be set depending on the command.
(7)	.... ..1.		FC_RLO_X	"X'02'" Record lock only READ UPDATE

Table 191. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7)	1		FC_DEBLOCK_X	"X'01'" BDAM Deblocking request Either DEBKEY or DEBREC specified EIDOPT8 will specify whether DEBKEY or DEBREC. WARNING. This bit should only be tested if the command is READ or STARTBR. For all other commands this bit has no meaning and it may or may not be set depending on the command.
(8)	BITSTRING	1	FC_EIDOPT8	Options Byte 4
(8)	1...		FC_DEBKEY_X	"X'80'" DEBKEY specified
(8)	.1..		FC_DEBREC_X	"X'40'" DEBREC specified
(8)	..1.		FC_TOKEN_X	"X'20'" TOKEN specified
(8)	...1		FC_BYPASS_SECURITY	"X'10'" No security check
(8)	.... 1...		FC_XRBA_X	"X'08'" XRBA specified

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

Table 192.

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

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

Table 193.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	FC_DATA2	Addressed by FC_ADDR2
(0)	ADDRESS	4	FC_SET	Pointer for SET
(0)	CHARACTER	1	FC_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 194.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	FC_DATA3	Addressed by FC_ADDR3

Table 194. (continued)

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

```
FC_ADDR4 addresses RIDFLD
```

Table 195.

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

```
FC_ADDR5 addresses KEYLENGTH
```

Table 196.

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

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

Table 197.

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

```
FC_ADDR7 addresses SYSID
```

Table 198.

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

```
FC_ADDRB addresses TOKEN
```

Table 199.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	FC_DATAB	Addressed by FC_ADDRB
(0)	CHARACTER	4	FC_TOKEN	Area for TOKEN

`Start of general use programming interface.`
`EIBRCODE, EIBRESP and EIBRESP2`
`Equates for EIBRCODE values used by File Control`				

(4)	BITSTRING	6	FC_OK_EIBRCODE	OK

Table 199. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	1		FC_FILENOTFOUND_ EIBRCODE	"X'01'" File not Found
(4)	11		FC_LOCKED_EIBRCODE	"X'03'" LOCKED
(4)	.... .1.1		FC_RECORDBUSY_ EIBRCODE	"X'05'" RECORDBUSY
(4)	.... .11.		FC_CHANGED_EIBRCODE	"X'06'" CHANGED
(4)	1... ...1		FC_NOTFND_EIBRCODE	"X'81'" NOTFND
(4)	1... ..1.		FC_DUPREC_EIBRCODE	"X'82'" DUPREC
(4)	1... .1..		FC_DUPKEY_EIBRCODE	"X'84'" DUPKEY
(4)	.... 1...		FC_INVREQ_EIBRCODE	"X'08'" INVREQ
(4)	1...		FC_IOERR_EIBRCODE	"X'80'" IOERR
(4)	1... ..11		FC_NOSPACE_EIBRCODE	"X'83'" NOSPACE
(4)	.... 11..		FC_NOTOPEN_EIBRCODE	"X'0C'" NOTOPEN
(4)	 1111		FC_ENDFILE_EIBRCODE	"X'0F'" ENDFILE
(4)	.... ..1.		FC_ILLOGIC_EIBRCODE	"X'02'" ILLOGIC
(4)	111. ...1		FC_LENGERR_EIBRCODE	"X'E1'" LENGERR
(4)	11.1		FC_SYSIDERR_EIBRCODE	"X'D0'" SYSIDERR
(4)	11.1 ...1		FC_ISCINVREQ_EIBRCODE	"X'D1'" ISCINVREQ
(4)	11.1 .11.		FC_NOTAUTH_EIBRCODE	"X'D6'" NOTAUTH
(4)	1... .1.1		FC_SUPPRESSED_ EIBRCODE	"X'85'" SUPPRESSED
(4)	.... 11.1		FC_DISABLED_EIBRCODE	"X'0D'" DISABLED
(4)	1... .11.		FC_LOADING_EIBRCODE	"X'86'" LOADING
Equates for EIBRESP values used by File Control				
(4)	....		FC_OK_EIBRESP	"00" OK
(4)	.... 11..		FC_FILENOTFOUND_ EIBRESP	"12" File Not found
(4)	.... 11.1		FC_NOTFND_EIBRESP	"13" NOTFND (Record not found)
(4)	.... 111.		FC_DUPREC_EIBRESP	"14" DUPREC
(4)	 1111		FC_DUPKEY_EIBRESP	"15" DUPKEY
(4)	...1		FC_INVREQ_EIBRESP	"16" INVREQ
(4)	...1 ...1		FC_IOERR_EIBRESP	"17" IOERR
(4)	...1 ..1.		FC_NOSPACE_EIBRESP	"18" NOSPACE
(4)	...1 ..11		FC_NOTOPEN_EIBRESP	"19" NOTOPEN
(4)	...1 .1..		FC_ENDFILE_EIBRESP	"20" ENDFILE
(4)	...1 .1.1		FC_ILLOGIC_EIBRESP	"21" ILLOGIC
(4)	...1 .11.		FC_LENGERR_EIBRESP	"22" LENGERR
(4)	..11 .1.1		FC_SYSIDERR_EIBRESP	"53" SYSIDERR
(4)	..11 .11.		FC_ISCINVREQ_EIBRESP	"54" ISCINVREQ
(4)	.1.. .11.		FC_NOTAUTH_EIBRESP	"70" NOTAUTH
(4)	.1.. 1...		FC_SUPPRESSED_EIBRESP	"72" SUPPRESSED
(4)	.1.1 .1..		FC_DISABLED_EIBRESP	"84" DISABLED
(4)	.1.1 111.		FC_LOADING_EIBRESP	"94" LOADING

Table 199. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	.11. .1..		FC_LOCKED_EIBRESP	"100" LOCKED
(4)	.11. .1.1		FC_RECORDBUSY_EIBRESP	"101" RECORDBUSY
(4)	.11. 1..1		FC_CHANGED_EIBRESP	"105" CHANGED
Equates for EIBRESP2 values used by File Control EIBRESP2 values are listed in numerical order. This can mean that not all of the EIBRESP2 values for a given EIBRESP are listed together; for example, not all of the EIBRESP2 values for NOSPACE are listed one after the other, because there are other EIBRESP2 values within that numerical range.				
(4)	....		FC_OK_EIBRESP2	"0" OK
(4)	1		FC_FILENOTFOUND_ EIBRESP2	"1" File not Found
(4)	.... 1.1.		FC_LENGERR10_EIBRESP2	"10" No variable length
(4)	.... 1.11		FC_LENGERR11_EIBRESP2	"11" Buffer too small (on read request)
(4)	.... 11..		FC_LENGERR12_EIBRESP2	"12" Record too large (on write request)
(4)	.... 11.1		FC_LENGERR13_EIBRESP2	"13" Buffer length not file len. (read)
(4)	.... 111.		FC_LENGERR14_EIBRESP2	"14" Record length not file len. (write)
(4)	...1 .1..		FC_INVREQ20_EIBRESP2	"20" Servreq violation
(4)	...1 .1.1		FC_INVREQ21_EIBRESP2	"21" ESDS Delete
(4)	...1 .11.		FC_INVREQ22_EIBRESP2	"22" Generic delete not KSDS
(4)	...1 .111		FC_INVREQ23_EIBRESP2	"23" Ridfld Key not record key
(4)	...1 1...		FC_INVREQ24_EIBRESP2	"24" Readprev in generic browse
(4)	...1 1..1		FC_INVREQ25_EIBRESP2	"25" Generic key too long
(4)	...1 1.1.		FC_INVREQ26_EIBRESP2	"26" Full key wrong length
(4)	...1 1.11		FC_INVREQ27_EIBRESP2	"27" BDAM delete
(4)	...1 11..		FC_INVREQ28_EIBRESP2	"28" Two READ UPDATEs without TOKEN
(4)	...1 11.1		FC_INVREQ29_EIBRESP2	"29" Reserved
(4)	...1 111.		FC_INVREQ30_EIBRESP2	"30" Rewrite before read update
(4)	...1 1111		FC_INVREQ31_EIBRESP2	"31" Delete before read update
(4)	..1.		FC_INVREQ32_EIBRESP2	"32" Reserved
(4)	..1. ...1		FC_INVREQ33_EIBRESP2	"33" Duplicate REQID
(4)	..1. ..1.		FC_INVREQ34_EIBRESP2	"34" Unknown REQID Readnext
(4)	..1. ..11		FC_INVREQ35_EIBRESP2	"35" Unknown REQID Endbr
(4)	..1. .1..		FC_INVREQ36_EIBRESP2	"36" Unknown REQID Resetbr

Table 199. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	..1. .1.1		FC_INVREQ37_EIBRESP2	"37" Illegal key type change
(4)	..1. .11.		FC_INVREQ38_EIBRESP2	"38" BDAM Write Massinsert
(4)	..1. .111		FC_INVREQ39_EIBRESP2	"39" BDAM Readprev
(4)	..1. 1...		FC_INVREQ40_EIBRESP2	"40" BDAM Key Conversion
(4)	..1. 1..1		FC_INVREQ41_EIBRESP2	"41" Unknown REQID Readprev
(4)	..1. 1.1.		FC_INVREQ42_EIBRESP2	"42" Keylength negative
(4)	..1. 1.11		FC_INVREQ43_EIBRESP2	"43" SEGSET Specified (obsolete funct'n)
(4)	..1. 11..		FC_INVREQ44_EIBRESP2	"44" Not in data table subset
(4)	..1. 11.1		FC_INVREQ45_EIBRESP2	"45" INVREQ from remote system
(4)	..1. 111.		FC_INVREQ46_EIBRESP2	"46" BDAM length change
(4)	..1. 1111		FC_INVREQ47_EIBRESP2	"47" Invalid TOKEN suppied
(4)	..11		FC_INVREQ48_EIBRESP2	"48" Reserved
(4)	..11 ..1.		FC_DISABLED_EIBRESP2	"50" DISABLED
(4)	..11 ..11		FC_INVREQ51_EIBRESP2	"51" RBA access to RLS KSDS
(4)	..11 .1..		FC_INVREQ52_EIBRESP2	"52" CR specified, but file not RLS
(4)	..11 .1.1		FC_INVREQ53_EIBRESP2	"53" RR specified, but file not RLS
(4)	..11 .11.		FC_INVREQ54_EIBRESP2	"54" Browse request specified UPDATE, but file is not RLS
(4)	..11 .111		FC_INVREQ55_EIBRESP2	"55" A command specified NOSUSPEND but the file was not a VSAM file open in RLS mode.
(4)	..11 1...		FC_INVREQ56_EIBRESP2	"56" Unit of work cannot make updates to any more recoverable coupling facility data tables
(4)	..11 1..1		FC_INVREQ57_EIBRESP2	"57" File is flagged RREPL but program is not a REPLICATOR
(4)	..11 1.11		FC_INVREQ59_EIBRESP2	"59" XRBA specified. Dataset is KSDS
(4)	..11 11..		FC_NOTOPEN_EIBRESP2	"60" NOTOPEN
(4)	.1.. .11.		FC_ISCINVREQ_EIBRESP2	"70" ISCINVREQ
(4)	.1.1		FC_NOTFND_EIBRESP2	"80" NOTFND
(4)	.1.1 ...1		FC_NOTFND_XRBA_ EIBRESP2	"81" NOTFND. Request specified XRBA>4G Data set is not extended addressing.

Table 199. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	.1.1 1.1.		FC_ENDFILE_EIBRESP2	"90" ENDFILE
(4)	.11. .1..		FC_NOSPACE_EIBRESP2	"100" NOSPACE
(4)	.11. .1.1		FC_NOTAUTH_EIBRESP2	"101" NOTAUTH
(4)	.11. .11.		FC_TABLE_FULL_ EIBRESP2	"102" NOSPACE - Data table full
(4)	.11. .111		FC_STORE_FAIL_ EIBRESP2	"103" NOSPACE - GETMAIN fail
(4)	.11. 1...		FC_LOADING_EIBRESP2	"104" LOADING
(4)	.11. 1..1		FC_SUPPRESSED_ EIBRESP2	"105" SUPPRESSED
(4)	.11. 1.1.		FC_LOCKED_EIBRESP2	"106" LOCKED
(4)	.11. 1.11		FC_RECORDBUSY_ EIBRESP2	"107" RECORDBUSY
(4)	.11. 11..		FC_CFDTPOOL_FULL_ EIBRESP2	"108" NOSPACE - CFDT pool full
(4)	.11. 11.1		FC_CHANGED_EIBRESP2	"109" Record CHANGED since read upd
(4)	.11. 111.		FC_ILLOGIC_EIBRESP2	"110" ILLOGIC
(4)	.111 1...		FC_IOERR_EIBRESP2	"120" IOERR
(4)	1... ..1.		FC_SYSIDERR_EIBRESP2	"130" SYSIDERR
(4)	1... ..11		FC_CFDT_SYSIDERR_ EIBRESP2	"131" SYSIDERR - CFDT server failed
(4)	1... .1..		FC_CFDT_NOTABLE_ EIBRESP2	"132" SYSIDERR - CF data table gone
(4)	1... .1.1		FC_SYSIDERR_XRBA_ EIBRESP2	"133" SYSIDERR - File Owning Region does not support XRBA. Link is MRO. Error detected in AOR.
(4)	1... 11..		FC_DUPKEY_EIBRESP2	"140" DUPKEY
(4)	1..1 .11.		FC_DUPREC_EIBRESP2	"150" DUPREC
End of general use programming interface.				

FCLGC - File Control Log Record Format

```
CONTROL BLOCK NAME = DFHFCLGC
DESCRIPTIVE NAME = CICS TS (FC) File Control Part of Log Record
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1994, 2012
FUNCTION =
     This describes the format of File Control's part of log
     records written to the system log for backout, log records
     written to forward recovery logs and autojournal records
     written to autojournals.
LIFETIME =
     This just describes the layout of log and journal records
     so does not have any particular lifetime.
LOCATION =
     Log and journal records are built in LIFO storage by
     module DFHFCLJ.
```

```
  STORAGE CLASS =
       Since log and journal records are built in DFHFCLJ's LIFO
       this is CICS storage class.
  INNER CONTROL BLOCKS =
       None
  NOTES :
   DEPENDENCIES = S/390
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
   All fields contained in this DSECT may be used to interpret
   CICS log and journal records and as such form part of the
   General-Use Programming Interface.
-------------------------------------------------------------------
  EXTERNAL REFERENCES =
        None.
    DATA AREAS =
        None.
    CONTROL BLOCKS =
        None.
    GLOBAL VARIABLES (Macro pass) =
        None.
-------------------------------------------------------------------
 FLJB - File Log and Journal Block
 The FLJB forms the basis of the data that File Control writes as
 part of its log and journal records. The FLJB is, in general,
 built from two parts, one part which contains data that mostly
 applies to all log and journal records, and a second part which
 contains data specific to the type of record. All log and journal
 records have data specific to the type of record.
 The FLJB is always written to the log or journal (as appropriate),
 but there may also be some variable length data written
 immediately after the fixed length parts of the FLJB. Precisely
 what variable length data is written depends on the record type.
 The resulting log and journal records for each record type are
 described below.
 Note that what follows is a description of only what File Control
 writes to the log or journal. In practice these records themselves
 also have a header prepended to them, either by the CICS Logger
 (in the case of autojournal and forward recovery records) or by
 the Recovery Manager (for all system log records).
 The format of File Control's part of log and journal records
 written for read only, read update, write update, and write add,
 and journal records written for the write add complete record
 type, is as shown below. The respective length of each block is
 also indicated.
 o fljb_general_data of length length(fljb_general_data),
   followed by:
 o fljb_common_data of length length(fljb_common_data),
   followed by:
 o fljb_cd_key of length fljb_cd_key_length,
   followed by:
 o fljb_cd_data of length fljb_cd_data_length.
 The format of File Control's part of log records written for the
 write add complete record type, is as shown below. The respective
 length of each block is also indicated.
 o fljb_general_data of length length(fljb_general_data),
   followed by:
 o fljb_common_data of length length(fljb_common_data).
 The format of File Control's part of log and journal records
 written for write delete is shown below. The respective length of
 each block is also indicated.
 o fljb_general_data of length length(fljb_general_data),
   followed by:
 o fljb_write_delete_data of length length(fljb_write_delete_data),
   followed by:
 o fljb_wdd_base_key of length fljb_wdd_base_key_length,
   followed by:
```

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

Table 200.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	FLJB_GENERAL_DATA	
(0)	CHARACTER	1	FLJB_RECORD_TYPE	80: read only 81: read update record 82: write update record 83: write add record 84: write add complete 86: write delete record 87: commit record 88: backout record 8E: file close record 8F: tie up record
(1)	BIT(8)	1	FLJB_BITS	general flag byte
(1)	1...		FLJB_AUTOJOURNAL	ON: autojournal record OFF: otherwise
(1)	.1..		FLJB_FWD_RECOVERY	ON: forward recovery log record OFF: otherwise
(1)	..1.		FLJB_SYSTEM_LOG	ON: system log record OFF: otherwise
(1)	...1		FLJB_LOG_OF_LOGS	ON: log of logs record OFF: otherwise
(1)	.... 1...		FLJB_BACKOUT	ON: written in backout OFF: otherwise

Table 200. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	.... .1..		FLJB_GENERAL_ EXTENDED_ESDS	ON: extended addressing ESDS OFF everything else
(1)	.... ..1.		FLJB_REPLICATION	ON: Replication log record OFF otherwise
(1)	1		*	reserved
(2)	CHARACTER	8	FLJB_FILE_NAME	name of the file which this record applies to
(A)	CHARACTER	2	*	reserved

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

Table 201.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	FLJB_COMMON_DATA	
(0)	UNSIGNED	4	FLJB_CD_BASE_ESDS_RBA	base RBA of ESDS, or 0 if not an ESDS Also 0 for EA ESDS
(4)	HALFWORD	2	FLJB_CD_KEY_LENGTH	length of the key for the users data
(6)	CHARACTER	2	*	reserved
(8)	FULLWORD	4	FLJB_CD_DATA_LENGTH	length of the users data (This could be fixed(15) but allow for future expansion plans.)
(C)	BIT(8)	1	FLJB_CD_BITS	common flag byte
(C)	1...		FLJB_CD_SHUNTED	ON: uow has been shunted OFF: otherwise
(C)	.1..		FLJB_CD_MASS_INSERT	ON: write mass insert when write add or write add complete OFF: otherwise
(C)	..1.		FLJB_CD_MI_FIRST	ON: first write add complete in mass insert sequence
(C)	...1		FLJB_CD_MI_LAST	ON: end of mi sequence WRTBFR/ENDREQ was successful.
(C)	.... 1...		FLJB_CD_FIXED_RECFM	ON: Fixed length record OFF: Variable length record.
(C)	.... .1..		FLJB_CD_AUTO_COMMIT	ON: Replication can commit
(C)	.... ..1.		FLJB_CD_TOKEN_REQUEST	ON: token used on read update request rep log only
(C)	1		*	reserved
(D)	CHARACTER	3	*	reserved

```
Write delete data
```

Table 202.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	FLJB_WRITE_DELETE_ DATA	
(0)	UNSIGNED	4	FLJB_WDD_BASE_ESDS_ RBA	base RBA of ESDS, or 0 if not an ESDS Also 0 for EA ESDS
(4)	HALFWORD	2	FLJB_WDD_BASE_KEY_ LENGTH	length of base key
(6)	HALFWORD	2	FLJB_WDD_PATH_KEY_ LENGTH	length of path key, or 0 if not a path
(8)	BIT(8)	1	FLJB_WDD_BITS	write delete flag byte
(8)	1...		FLJB_WDD_SHUNTED	ON: uow has been shunted OFF: otherwise
(8)	.1..		FLJB_WDD_FIXED_RECFM	ON: Fixed length record OFF: Variable length record.
(8)	..1.		FLJB_WDD_AUTO_COMMIT	ON: Replication can commit
(8)	...1 1111		*	reserved
(9)	CHARACTER	3	*	reserved

```
File close data
```

Table 203.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	FLJB_FILE_CLOSE_DATA	
(0)	CHARACTER	26	FLJB_FCD_ FWDRECOVLOG_NAME	forward recovery log stream name
(1A)	BIT(8)	1	FLJB_FCD_BITS	file close flag byte
(1A)	1...		FLJB_FCD_FWD_RECOVERY	ON: forward recovery was specified for this file OFF: otherwise
(1A)	.1..		FLJB_FCD_AUTOJOURNAL	ON: autojounalling was specified for this file OFF: otherwise
(1A)	..1.		FLJB_FCD_REPLICATION	ON: Replication log for this file OFF otherwise
(1A)	...1 1111		*	reserved
(1B)	CHARACTER	1	*	reserved

```
Tie up record data
```

Table 204.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	136	FLJB_TIE_UP_RECORD	
(0)	FULLWORD	4	FLJB_TUR_BASE_CI_SIZE	CI size of base dataset
(4)	FULLWORD	4	FLJB_TUR_MAXIMUM_ LRECL	maximum record length
(8)	FULLWORD	4	FLJB_TUR_BASE_KEY_ POSITION	position of base key within the record
(C)	HALFWORD	2	FLJB_TUR_BASE_KEY_ LENGTH	length of base key

Table 204. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(E)	CHARACTER	1	FLJB_TUR_DATASET_TYPE	type of dataset: K=KSDS, E=ESDS, P=path, R=RRDS or V=VRRDS
(F)	CHARACTER	1	FLJB_TUR_RECORD_ FORMAT	format of records: V=variable, F=fixed
(10)	HALFWORD	2	FLJB_TUR_BASE_ DSNAME_LENGTH	length of base dataset name
(12)	CHARACTER	44	FLJB_TUR_BASE_DSNAME	base dataset name
(3E)	HALFWORD	2	FLJB_TUR_PATH_ DSNAME_LENGTH	length of path dataset name
(40)	CHARACTER	44	FLJB_TUR_PATH_DSNAME	path dataset name
(6C)	CHARACTER	26	FLJB_TUR_ FWDRECOVLOG_NAME	forward recovery log stream name
(86)	BIT(8)	1	FLJB_TUR_BITS	tie up flag byte
(86)	1...		FLJB_TUR_RLS	ON: this was an RLS file OFF: otherwise
(86)	.1..		FLJB_TUR_OPEN	ON: tie up record written on open OFF: otherwise
(86)	..1.		FLJB_TUR_TAKE_ KEYPOINT	ON: tie up record written for take keypoint request (non-RLS only) OFF: otherwise
(86)	...1		FLJB_TUR_DATASET_COPY	ON: tie up record written for DSS copy of dataset (RLS only) OFF: otherwise
(86)	.... 1...		FLJB_TUR_FWD_RECOVERY	ON: forward recovery was specified for this file OFF: otherwise
(86)	.... .1..		FLJB_TUR_AUTOJOURNAL	ON: autojounalling was specified for this file OFF: otherwise
(86)	.... ..1.		FLJB_TUR_REPLICATION	ON: Replication log for this file OFF otherwise
(86)	1		*	reserved
(87)	CHARACTER	1	*	reserved

Constants

Table 205.

Len	Type	Value	Name	Description
`Values for record types`				
1	HEX	80	FLJB_READ_ONLY	
1	HEX	81	FLJB_READ_UPDATE	
1	HEX	82	FLJB_WRITE_UPDATE	
1	HEX	83	FLJB_WRITE_ADD	
1	HEX	84	FLJB_WRITE_ADD_ COMPLETE	

Table 205. (continued)

Len	Type	Value	Name	Description
1	HEX	86	FLJB_WRITE_DELETE	
1	HEX	87	FLJB_REPLICATE_COMMIT	
1	HEX	88	FLJB_REPLICATE_BACKOUT	
1	HEX	8E	FLJB_FILE_CLOSE	
1	HEX	8F	FLJB_TIE_UP	

FCS - File control static storage

Table 206.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2176	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	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

Table 206. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(58)	CHARACTER	8	FC_SUBPOOL_TOKEN_VSAM	VSAM FCTE subpool
(60)	CHARACTER	8	FC_SUBPOOL_TOKEN_BDAM	BDAM FCTE subpool
(68)	CHARACTER	8	FC_SUBPOOL_TOKEN_ SHRCTL	SHRCTL block subpool
(70)	CHARACTER	8	FC_SUBPOOL_TOKEN_ DSNAME	DSNAME block subpool
(78)	CHARACTER	8	FC_SUBPOOL_TOKEN_ACB	VSAM ACB subpool
(80)	CHARACTER	8	FC_SUBPOOL_TOKEN_DCB	BDAM DCB subpool
(88)	CHARACTER	8	FC_SUBPOOL_TOKEN_FRAB	FRAB subpool
(90)	CHARACTER	8	FC_SUBPOOL_TOKEN_FLAB	FLAB subpool
(98)	CHARACTER	8	FC_SUBPOOL_TOKEN_ ABOVE	Storage above 16M
(A0)	CHARACTER	8	FC_SUBPOOL_TOKEN_FRTE	FRTE subpool
(A8)	CHARACTER	8	FC_SUBPOOL_TOKEN_RPL	RPL subpool
(B0)	CHARACTER	8	FC_SUBPOOL_TOKEN_FLLB	FLLB subpool
(B8)	CHARACTER	8	FC_SUBPOOL_TOKEN_FCPE	FCPE subpool
(C0)	CHARACTER	8	FC_SUBPOOL_TOKEN_ IFGLUWID	IFGLUWID subpool
(C8)	CHARACTER	8	FC_SUBPOOL_TOKEN_FCPW	FCPW subpool
(D0)	CHARACTER	8	FC_SUBPOOL_TOKEN_FCUP	FCUP subpool
(D8)	CHARACTER	8	*	Reserved
Flags and Indicators				
(E0)	CHARACTER	16	*	Flags
(E0)	CHARACTER	4	FC_DEBUG_EYECATCHER	'DBUG'
(E4)	CHARACTER	4	*	Developer testing flags
(E4)	CHARACTER	1	*	
(E4)	1...		FC_THREADSAFE_ TESTMODE	Assert processing
(E4)	.1..		FC_FORCEQR	Force on QR TCB
(E4)	..1.		FC_KEY9VSAMQR	Switch key 9 VSAM to QR
(E4)	...1		FC_NOLOCKS	Assume QR so no locking
(E4)	.... 1...		FC_FORCEQR_LOCAL_VSAM	Run local VSAM on QR
(E4)	.... .1..		FC_VSAM_TRACE	Trace all VSAM reqs
(E4)	11		*	Reserved
(E5)	UNSIGNED	1	FC_0890_MAX_RETRY	Max No. retries
(E6)	CHARACTER	2	*	Reserved
(E8)	CHARACTER	4	*	Restart completion flgs
(E8)	CHARACTER	1	FC_FLAGS1	Flag byte 1
(E8)	1...		FCSCMPLT	FC restart complete
(E8)	.1..		FC_NO_ENVIRONMENT	FC restart failed to rebuild FC environment
(E8)	..1.		*	Reserved
(E8)	...1		FC_XFCFRIN_ACTIVE	XFCFRIN active
(E8)	.... 1...		FC_XFCFROUT_ACTIVE	XFCFROUT active
(E8)	.... .1..		FC_NONRLS_RECOV	Ignore LOG for nonRLS

Table 206. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(E8)	11		*	Reserved
(E9)	CHARACTER	1	FC_FLAGS2	Flag byte 2
(E9)	1...		FC_SHUT_IMMED	IMMEDIATE SHUTDN
(E9)	.1..		*	was FC_ESDS_COMPAT_INFO
(E9)	..1.		FC_XESDS_MSG_SENT	Sent message "there is an extended addr ESDS"
(E9)	...1 11..		*	Reserved
(E9)	.... ..1.		FC_TRANISO	TRANISO=YES
(E9)	1		FC_CILOCK	VSAM CI lock indicator
(EA)	CHARACTER	2	*	Reserved
(EC)	CHARACTER	4	*	Reserved
Addresses of FC interface modules				
(F0)	ADDRESS	4	FC_FCMT_ADDRESS	FCMT entry address
(F4)	ADDRESS	4	FC_FCRL_ADDRESS	FCRL entry address
(F8)	ADDRESS	4	FC_FCDN_ADDRESS	FCDN entry address
(FC)	ADDRESS	4	FC_FCFS_ADDRESS	FCFS entry address
(100)	ADDRESS	4	FC_FCRF_ADDRESS	FCRF entry address
(104)	ADDRESS	4	FC_BDAM_ENTRY_ADDRESS	FCBD entry address
(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

Table 206. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(15C)	ADDRESS	4	FC_FCLF_ADDRESS	FCLF entry address
(160)	ADDRESS	4	FC_FCDO_ADDRESS	FCDO entry address
(164)	ADDRESS	4	FC_FCFL_ADDRESS	FCFL entry address
(168)	ADDRESS	4	FC_FCNQ_ADDRESS	FCNQ entry address
(16C)	ADDRESS	4	FC_FCDR_ADDRESS	FCDR entry address
(170)	ADDRESS	4	FC_FCBU_ADDRESS	FCBU entry address
(174)	ADDRESS	4	FC_FCXS_ADDRESS	FCXS entry address
(178)	ADDRESS	4	* (2)	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	* (3)	Reserved
(1C0)	ADDRESS	4	FC_SHRCTL_ VECTORS (255)	Pointers to SHRCTL blocks
(5BC)	ADDRESS	4	* (9)	reserved
Pointers to exit lists				
(5E0)	ADDRESS	4	FC_VSAM_EXIT_LIST_PTR	VSAM exit list
(5E4)	ADDRESS	4	FC_RLS_EXIT_LIST_PTR	RLS exit list
(5E8)	ADDRESS	4	FC_RLS_CTL_EXIT_ LIST_PTR	RLS Control ACB exit list
(5EC)	ADDRESS	4	*	Reserved
NQ domain ENQ/DEQ pool tokens				
(5F0)	CHARACTER	32	FC_NQ_POOL_TOKENS	
(5F0)	ADDRESS	4	FC_DS_RECORD_NQ_ POOL_TOKEN	DSNB

Table 206. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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	* (2)	Reserved
Directory Manager Tokens				
(610)	CHARACTER	16	FC_DIRECTORY_TOKENS	
(610)	ADDRESS	4	FC_FCT_TOKEN	FCT directory token
(614)	ADDRESS	4	FC_DSN_TOKEN	DSN directory token
(618)	ADDRESS	4	FC_FCBU_DIR_TOKEN	FCBU directory token
(61C)	ADDRESS	4	*	Reserved
Lock Manager Tokens fc_FCT_GLOBAL_lock - Used to stabilise FCT entries shared For read access exclusive For add, update and delete fc_DSN_GLOBAL_lock - Used to stabilise DSN entries shared For read access exclusive For add, update and delete fc_FRAB_GLOBAL_lock - Used to stabilse the FRAB chain				
(620)	CHARACTER	48	FC_LOCK_TOKENS	
(620)	ADDRESS	4	FC_FCT_GLOBAL_LOCK_ TOKEN	FCT global lock
(624)	ADDRESS	4	FC_DSN_GLOBAL_LOCK_ TOKEN	DSN global lock
(628)	ADDRESS	4	FC_FRAB_GLOBAL_LOCK_ TOKEN	FRAB chain lock
(62C)	ADDRESS	4	FC_CONNECT_LOCK_TOKEN	connect_dsnb lock
(630)	ADDRESS	4	FC_RPL_GLOBAL_LOCK_ TOKEN	Ctl ACB RPL chain lock
(634)	ADDRESS	4	FC_LSR_GLOBAL_LOCK_ TOKEN	LSRPOOL stats lock
(638)	ADDRESS	4	FC_STATS_GLOBAL_ LOCK_TOKEN	Reset Stats lock
(63C)	ADDRESS	4	FC_ACB_STRING_LOCK_ TOKEN	Ctl Acb string lock
(640)	ADDRESS	4	* (4)	Reserved
Cache aligned variable data. May change after initialisation This must be aligned to a 256 byte boundary				
(700)	CHARACTER	384	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

Table 206. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(705)	CHARACTER	3	FC_TASK_ID	Task which FC_QR_COUNT applies
(708)	CHARACTER	8	*	Reserved
CICS ECBs (hand posted)				
(710)	CHARACTER	1	*	
(710)	BIT(8)	1	FC_NON_RECOV_ ALLOWED_ECB	Non-recoverable work
(711)	CHARACTER	1	*	
(711)	BIT(8)	1	FC_RECOV_ALLOWED_ECB	Recoverable work
(712)	CHARACTER	1	*	
(712)	BIT(8)	1	FC_CTL_ACB_UNREG_ECB	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	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

Table 206. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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	* (2)	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	*	
(770)	1...		FC_FUZZY_ALLOWED	BWO allowed
(770)	.1..		FC_KEYPOINT_TAKEN	Set every 30 minutes
(770)	..1.		FC_IGWABWO_LOADED	load attemped
(770)	...1		FC_IGWABWO_LOAD_ FAILED	if load failed
(770)	.... 1...		FC_HSM_BACKLEVEL	HSM 2.5 not installed
(770)	.... .1..		FC_DSS_BACKLEVEL	DSS 2.5 not installed
(770)	.... ..1.		FC_HSM_DSS_WARNMSG	HSM/DSS warning message
(770)	1		*	Reserved

Table 206. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(771)	CHARACTER	3	*	Reserved
(774)	ADDRESS	4	FC_KPLE_CHAIN	Anchor for KPLE chain
(778)	CHARACTER	8	FC_KEYPOINT_TIME	Last keypoint time
(778)	UNSIGNED	4	FC_KEYPOINT_WK1	Left word (1bit=1sec)
(77C)	UNSIGNED	4	FC_KEYPOINT_WK2	right word
DATA TABLES				
(780)	CHARACTER	8	FC_DT_LAST_INIT	Time of last attempt to issue AOR DTP_INIT
(780)	UNSIGNED	4	FC_DT_LH_LAST_INIT	Left half of clock
(788)	ADDRESS	4	FC_DT_2	Entry point for data tables initialization
(78C)	ADDRESS	4	FC_DT_CLOSE_CHAIN	Files to be closed
(790)	BIT(8)	1	FC_DT_CLOSE_ECB	Files to be closed ECB
(791)	CHARACTER	1	*	FOR support indicators
(791)	1...		FC_DT_FOR_NOSHARING	FOR cannot support SDT
(791)	.1..		FC_DT_FOR_LOGGED_ON	FOR logged on
(791)	..1.		FC_DT_FOR_NOTAUTH	FOR not authorized
(791)	...1 1111		*	Reserved
(792)	CHARACTER	1	*	AOR support indicators
(792)	1...		FC_DT_AOR_NOSHARING	AOR cannot use SDT
(792)	.111 1111		*	Reserved
(793)	BIT(8)	1	*	Reserved
(794)	ADDRESS	4	FC_DT_REMOTE_GLOBAL	Remote table services global area
(798)	ADDRESS	4	FC_DT_SIGNAL	Addr STCK field in ECSA indicating table opens
(79C)	ADDRESS	4	FC_DT_CONNECT	Data table CONNECT
(7A0)	ADDRESS	4	FC_DT_REMOTE_READ	Data table SDT read
(7A4)	ADDRESS	4	FC_DT_REMOTE_USE	Data table set user
(7A8)	ADDRESS	4	FC_DT_BF	Bind fail chain
(7AC)	ADDRESS	4	*	Reserved
RLS				
(7B0)	UNSIGNED	2	FC_TIMEOUT	Global timeout value
(7B2)	UNSIGNED	2	FC_QUIESTIM	Quiesce timeout value
(7B4)	BIT(8)	1	FC_RLS_FLAGS	RLS Indicators
(7B4)	1...		*	Reserved
(7B4)	.1..		FC_CACHE_MSG_SENT	Cache message sent
(7B4)	..1.		FC_RLS_SUPPORTED	RLS supported
(7B4)	...1		FC_RLS_RECOVERY_ONLY	Only recovery work may access RLS
(7B4)	.... 1...		FC_ACUCB_SUPPORTED	UCB VSCR supported

Table 206. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7B4)	.... .1..		FC_CATALOG_SUPPORTED	Non-rls recovery attributes from catalog supported
(7B4)	.... ..1.		FC_LSR_INCLUDE_RLS_ FCTES	Include RLS in build
(7B4)	1		*	Reserved
(7B5)	CHARACTER	3	*	Reserved
(7B8)	ADDRESS	4	FC_RLS_ACB_CHAIN	Chain of open RLS ACBs
(7BC)	CHARACTER	4	*	
(7BC)	ADDRESS	4	FC_CTL_ACB_RPL_CHAIN	Active RPL chain
(7C0)	ADDRESS	4	FC_INQRECOV_ADDRESS	-> last INQ RECOV area
(7C4)	FULLWORD	4	FC_INQRECOV_LENGTH	len of above area
(7C8)	ADDRESS	4	* (2)	Reserved
RLS counts				
(7D0)	CHARACTER	4	*	
(7D0)	FULLWORD	4	FC_CTL_ACB_TOTAL_ WAITS	Tot # string waits
(7D4)	FULLWORD	4	FC_CTL_ACB_TOTAL_ WAITS_CSFAIL	# CS Failures
(7D8)	CHARACTER	4	*	
(7D8)	FULLWORD	4	FC_CTL_ACB_CURRENT_ WAITS	Curr # string waits
(7DC)	FULLWORD	4	FC_CTL_ACB_CURRENT_ WAITS_CSFAIL	# CS Failures
(7E0)	CHARACTER	4	*	
(7E0)	FULLWORD	4	FC_CTL_ACB_HWM_WAITS	String wait hwm
(7E4)	FULLWORD	4	FC_CTL_ACB_HWM_ WAITS_CSFAIL	# CS Failures
(7E8)	CHARACTER	4	*	
(7E8)	FULLWORD	4	FC_CTL_ACB_ACT_ STRINGS	Active string count
(7EC)	FULLWORD	4	FC_CTL_ACB_ACT_ STRINGS_CSFAIL	# CS Failures
Flags				
(7F0)	CHARACTER	1	*	Restart Flags
(7F0)	1...		FC_DYRRE_IN_PROGRESS	DYRRE in Progress flag. Set whilst a dynamic RLS restart is in progress, clear when one is not.
(7F0)	.111 1111		*	Reserved
(7F1)	CHARACTER	3	*	Reserved
The following structure allows to set FC_RLS_ACCESS_DISABLED and FC_SERVER_SEQUENCE atomically. FC_SERVER_SEQUENCE is sequence number of server. Starts at 1. At first recycle goes to 2 etc.				
(7F4)	BIT(32)	4	*	
(7F4)	UNSIGNED	4	FC_SERVER_STATE	
(7F4)	BIT(32)	4	*	

Table 206. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7F4)	BIT(8)	1	*	Pacify dsectgen
(7F4)	1...		FC_RLS_ACCESS_ DISABLED	
(7F4)	.111 1111		*	
(7F5)	BIT(24)	3	*	
(7F4)	CHARACTER	4	*	
(7F4)	UNSIGNED	2	*	
(7F6)	UNSIGNED	2	FC_SERVER_SEQUENCE	
RLS Restart Task variables				
(7F8)	CHARACTER	4	FC_RLS_RESTART_ SUSPEND_TOKEN	
(7FC)	CHARACTER	4	*	
(7FC)	FULLWORD	4	FC_OFFSITE_RESTART	1 or 0
(800)	FULLWORD	4	FC_OFFSITE_RESTART_ CSFAIL	# CS Failures
(804)	ADDRESS	4	* (3)	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
(834)	1...		FC_CFQS_TERM	=1 to stop CFQS task
(834)	.1..		FC_CFQR_TERM	=1 to stop CFQR task
(834)	..11 1111		*	Reserved
(835)	CHARACTER	11	*	Reserved
(840)	CHARACTER	8	FC_DFHFCQX_ENTRY_STCK	Time of entry to DFHFCQX
(848)	CHARACTER	8	FC_DFHFCQX_EXIT_STCK	Time of exit from DFHFCQX
CFDT				
(850)	FULLWORD	4	FC_CFDT_LOADER_ID	
(854)	ADDRESS	4	* (3)	Reserved
System Event and Policy system rule tokens				
(860)	CHARACTER	8	FC_OPEN_EVENT_TOKEN	Open/close event

Table 206. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(868)	CHARACTER	8	FC_ENABLE_EVENT_TOKEN	Enable/disable event
(870)	CHARACTER	8	FC_OPEN_RULE_TOKEN	Open/close rule
(878)	CHARACTER	8	FC_ENABLE_RULE_TOKEN	Enable/disable rule
(880)	CHARACTER	0	FC_STATIC_END	

```
  MACRO NAME: IFGSYSNM
  DESCRIPTION: Mapping the Subsystem Name Control Block
  STATUS: Version 1 DFSMS Release 3.0
PROPRIETARY V3 STATEMENT
LICENSED MATERIALS - PROPERTY OF IBM
 RESTRICTED MATERIALS OF IBM
5695-DF1
(C) COPYRIGHT 1995 IBM CORP.
END PROPRIETARY V3 STATEMENT
   FUNCTION = Mapping macro for SubSystem Name
   INCLUDED MACROS = NONE
   METHOD OF ACCESS = PL/X-370 OR ASSEMBLER
```

Table 207.

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

```
transaction CFCR's parmlist
```

Table 208.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	CFCR_ATT_PARMS	
(0)	CHARACTER	8	PARM_FILE_NAME	

Constants

Table 209.

Len	Type	Value	Name	Description
Constants				
2	DECIMAL	2176	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				

Table 209. (continued)

Len	Type	Value	Name	Description
2	HEX	3321	MIN_RLS_DFP_LEVEL1	
4	HEX	01010300	MIN_RLS_DFP_LEVEL2	
SYSNM Constants				
8	CHAR HEX	00000000 00000000	SYSNMNUL	Null Subsys Name
8	CHARACTER	IFGSYSNM	SYSNMIDC	Eyecatcher
1	DECIMAL	1	SYSNMVRC	Version
NQ domain ENQ/DEQ pool names				
8	CHARACTER	FCDSRECD	FC_DS_RECORD_NQ_POOL_ NAME	
8	CHARACTER	FCFLRECD	FC_FILE_RECORD_NQ_ POOL_NAME	
8	CHARACTER	FCDSRNGE	FC_DS_RANGE_NQ_POOL_ NAME	
8	CHARACTER	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	
response of check_reallocate_or_busy				
4	DECIMAL	0	RESPONSE_OK	
4	DECIMAL	1	RESPONSE_DO_NOT_ REALLOCATE	
4	DECIMAL	2	RESPONSE_FCT_ENTRY_IN_ USE	

FCT - File control table entry layout

```
CONTROL BLOCK NAME = DFHFCTDS
 DESCRIPTIVE NAME = CICS/ESA FILE CONTROL TABLE ENTRY LAYOUT
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 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 210.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHFCTDS	DUMMY SECTION FILE CONTROL TABLE
FCTE prefix				
(0)	CHARACTER	8	FCTDSID	File identification
(8)	CHARACTER	8	FCTRFILE	Remote file id
(10)	CHARACTER	4	FCTSYSID	Sysid of remote file
(14)	ADDRESS	2	FCTDSTEL	Table entry length
DATA SET CONTROL INDICATOR 1 All 'Capabilities' (as derived from SERVREQ)				
(16)	BITSTRING	1	FCTDSVR1	DATA SET CONTROL INDICATOR 1
(16)	...1 .11.		FCTDSRI	"FCTDSVR1" READ INDICATOR
(16)	1...		FCTRDIM	"X'80'" READ VALID
(16)	...1 .11.		FCTDSUPD	"FCTDSVR1" READ UPDATE INDICATOR
(16)	..1.		FCTUPDIM	"X'20'" UPDATE VALID
(16)	...1 .11.		FCTDSADD	"FCTDSVR1" WRITE NEW RECORD INDICATOR
(16)	...1		FCTADDIM	"X'10'" ADD VALID
(16)	...1 .11.		FCTDSDI	"FCTDSVR1" DELETION VALIDITY INDICATOR
(16)	.... 1...		FCTDELIM	"X'08'" DELETE VALID
(16)	...1 .11.		FCTBRWSE	"FCTDSVR1" BROWSE VALIDITY INDICATOR
(16)	.... ..1.		FCTBRZIM	"X'02'" BROWSE VALID
DATA SET CONTROL INDICATOR 2 Flags relating to structure of records (mainly BDAM)				
(17)	BITSTRING	1	FCTDSVR2	DATA SET CONTROL INDICATOR 2

Table 210. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(17)	...1 .111		FCTDSEXC	"FCTDSVR2" EXCLUSIVE CONTROL INDICATOR
(17)	1...		FCTEXCIM	"X'80'" EXCLUSIVE CONTROL (BDAM)
(17)	.1..		FCT_SET_AFTER	"X'40'" Acquire SET storage after file request is complete
(17)	...1 .111		FCTDSDRT	"FCTDSVR2" DECIMAL RELATIVE TRACK INDICATOR
(17)	...1		FCTDRTIM	"X'10'" DECIMAL RELATIVE TRACK ACCESSING
(17)	...1 .111		FCTDSVLI	"FCTDSVR2" RECORD LENGTH TYPE INDICATOR
(17)	.... 1...		FCTVRLIM	"X'08'" VARIABLE LENGTH RECORDS
(17)	.... .1..		FCTFIXIM	"X'04'" FIXED LENGTH RECORDS
(17)	...1 .111		FCTDSNBK	"FCTDSVR2" RECORD BLOCKING INDICATOR
(17)	.... ..1.		FCTBLKIM	"X'02'" BLOCKED RECORDS
(17)	...1 .111		FCTDSKEY	"FCTDSVR2" BDAM KEY SEARCH INDICATOR
(17)	1		FCTKEYIM	"X'01'" KEYED BDAM
DATA SET CONTROL INDICATOR 3 Flags defining the access method				
(18)	BITSTRING	1	FCTDSVR3	DATA SET CONTROL INDICATOR 3
(18)	...1 1...		FCTDSVSM	"FCTDSVR3" VSAM INDICATOR
(18)	1...		FCTVSAMI	"X'80'" VSAM DATA SET
(18)	.1..		FCTDTBL	"X'40'" Data table
(18)	..1.		FCTDTUM	"X'20'" User data table
(18)	.... 1...		FCTREMOT	"X'08'" Remote FCTE
(18)	.... .1..		FCTRLS	"X'04'" RLS file
(18)	.... ..1.		FCTCFDT	"X'02'" Coupling Facility Data Table
(18)	...1 1...		FCTDSBDM	"FCTDSVR3" BDAM DATA SET INDICATOR
(18)	1		FCTBDAMI	"X'01'" BDAM DATA SET
DATA SET CONTROL INDICATOR 4 Flags to govern journalling and logging.				
(19)	BITSTRING	1	FCTDSVR4	DATA SET CONTROL INDICATOR 4

Table 210. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(19)	...1 1..1		FCTDSJRO	"FCTDSVR4" JOURNAL READ ONLYS INDICATOR
(19)	1...		FCTJRO	"X'80'" JOURNAL READ ONLYS
(19)	...1 1..1		FCTDSJRU	"FCTDSVR4" JOURNAL READS FOR UPDATE INDICATOR
(19)	.1..		FCTJRU	"X'40'" JOURNAL READS FOR UPDATE
(19)	...1 1..1		FCTDSJWU	"FCTDSVR4" JOURNAL WRITE UPDATES INDICATOR
(19)	..1.		FCTJWU	"X'20'" JOURNAL WRITE UPDATES
(19)	...1 1..1		FCTDSJWA	"FCTDSVR4" JOURNAL WRITE ADDS INDICATOR
(19)	...1		FCTJWA	"X'10'" JOURNAL WRITE ADDS
(19)	...1 1..1		FCTDSJDS	"FCTDSVR4" DSNAME HAS BEEN JOURNALLED IND
(19)	...1 1..1		FCTDSJSY	"FCTDSVR4" SYNCHRONOUS READS JOURNAL INDICATOR
(19)	.... .1..		FCTJSYN	"X'04'" SYNCHRONOUS READS JOURNAL
(19)	...1 1..1		FCTDSJAS	"FCTDSVR4" ASYNCHRONOUS WRITES JRNL INDICATOR
(19)	.... ..1.		FCTJASY	"X'02'" ASYNCHRONOUS WRITES JOURNAL
(19)	...1 1..1		FCTDSLOG	"FCTDSVR4" USE SYSTEM LOG INDICATOR
(19)	1		FCTLOG	"X'01'" USE SYSTEM LOG
FILE STATE THE NEW FILE STATES ALLOW FOR "TRANSITIONAL" CONDITIONS. IF " TM FCTDSTAT,FCTDSENI" YIELDS "ONES", THEN I/O REQUESTS ARE ALLOWED, EVEN IF THE TASK MUST WAIT FOR A DATA SET TO BE OPENED, SUBJECT TO SERVREQ CHECKING.				
(1A)	BITSTRING	1	FCTDSTAT	File state
(1A)	...1 1.1.		FCTDSOPN	"FCTDSTAT" (Early-open indicator)
(1A)	1...		FCTOPNIM	"X'80'" Data set is to be opened by utility rather than on first reference.
(1A)	.1..		FCTDSOPI	"X'40'" Data set is open or opening

Table 210. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
HENCE: .1..... OPEN .0..... CLOSED .0..... CLOSING (with FCTDSCLX set)				
(1A)	...1		FCTDSCRQ	"X'10'" 'CLOSE' has been requested
(1A)	.... .1..		FCTDSENI	"X'04'" Data set is enabled
(1A)	.... ..1.		FCTDSIMP	"X'02'" Disabled only implicitly via close
HENCE: .....10. ENABLED .....01. DISABLED implicitly via CLOSE .....00. DISABLED explicitly .....11. (never valid)				
(1A)	1		FCTDTCLS	"X'01'" Close data table source
(1B)	BITSTRING	1	FCTDSKL	Key length
(1C)	BITSTRING	1	FCTBFLGS	Backout Flags
(1C)	1...		FCTBACKO	"X'80'" LOG=Y for this file while open
(1C)	.1..		FCT_ESDS_COMPAT_ERR	"X'40'" ESDS Compat Error Message sent
(1C)	..1.		FCT_ESDS_COMPAT_INFO	"X'20'" ESDS Compat Info (6037) sent
(1C)	.... .1..		FCTFOPEN	"X'04'" Dynamically allocated and the first to be opened
(1C)	.... ..1.		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)	1...		FCTDPSHR	"X'80'" "DISP=SHR" FOUND
(29)	.1..		FCTDPOLD	"X'40'" "DISP=OLD" FOUND

Table 210. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
CONDITIONS FOUND WHILE PROCESSING AN "OPEN" REQUEST -				
(29)	.... ..1.		FCTDSDA	"X'02'" DYNAMICALLY ALLOCATED DATA SET
(29)	1		FCTDSCLX	"X'01'" CLOSE IN PROGRESS
(2A)	BITSTRING	1	FCTFLG3	Saved temporary flag
ACCESS - STATE PROTECTION Some flags are defined for in-progress state changes The following three ECBs (or "wait bytes") exist to serialise certain combinations of state-change requests. Only one of them can be WAITing at any moment, but any combination may be POSTed (implying present or past existence of tasks that waited for an action of the specific kind to complete). Next there is an ECB for serialising data table loads				
(2B)	BITSTRING	1	FCTINPFL	In-progress flags
(2B)	..1. 1.11		FCTDIINP	"FCTINPFL" Disable in-progress indicator
(2B)	1...		FCTDISIN	"X'80'" Disable is in progress
(2C)	BITSTRING	1	FCTOPECB	"OPEN" state-change ECB
(2D)	BITSTRING	1	FCTDIECB	"DISABLE" state-change ECB
(2E)	BITSTRING	1	FCTCLECB	"CLOSE" state-change ECB
(2F)	BITSTRING	1	FCTDTLDC	Table load complete
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				

Table 210. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(60)	ADDRESS	4	FCTDSDP	>-> DSNAME ENTRY FOR DYNAMIC ALLOCATION.
(64)	ADDRESS	4	FCTDSBCP	>-> DSNAME ENTRY WITH BASE CLUSTER NAME.
Buffer pool pointer				
(68)	ADDRESS	4	FCTDSBFP	Pointer to buffer pool header
New or moved fields for making FCT threadsafe				
(6C)	ADDRESS	4	FCT_LOCK_TOKEN	Unique lock token per FCT
(70)	BITSTRING	1	FCT_IN_PROGRESS	Flags for add or delete
(70)	1...		FCT_ADD_IN_PROGRESS	"X'80'"
(70)	.1..		FCT_DELETE_IN_ PROGRESS	"X'40'"
(71)	CHARACTER	3		Reserved
(74)	ADDRESS	4	FCT_STRING_LOCK_TOKEN	
(78)	BITSTRING	4	FCT_TOD_CREATED	1st word of TOD
(7C)	FULLWORD	4	FCTDSXCL	No. of exclusive ctl conflicts
(80)	FULLWORD	4		Reserved for # CS Failures
(84)	ADDRESS	4	(7)	Reserved
Resource Signature data				
(A0)	CHARACTER	1	FCT_RESOURCE_SIG	matches the PLX version
Access-method dependent sections				
(E0)	DBL WORD	8	FCTVSEXT (0)	BASE FOR OVERLAYING
VSAM EXTENSION				
(E0)	ADDRESS	4		Reserved
(E4)	FULLWORD	4	FCTDSTBW	TOTAL # WAITED FOR BUFFER
(E8)	FULLWORD	4		Reserved for # CS Failures
(EC)	FULLWORD	4	(3)	Reserved
(F8)	ADDRESS	4	FCTVSWA	Free VSWAs
(FC)	FULLWORD	4	FCTVSWA_CNT	# of changes to FCTVSWA
(100)	BITSTRING	1	FCTDSDBN	BUFFER SIZE INDEX FOR DATA BUFFERS
(101)	BITSTRING	1	FCTDSIBN	BUFFER SIZE INDEX FOR INDEX BUFFERS
(102)	BITSTRING	1	FCTVSVR1	VSAM DATA SET CONTROL IND 1
(102)		0	FCTDSKSD	"FCTVSVR1" KSDS INDICATOR
(102)	1...		FCTKSDS	"X'80'" KEY SEQUENCED DATA SET
(102)		0	FCTDSESD	"FCTVSVR1" ESDS INDICATOR

Table 210. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(102)	.1..		FCTESDS	"X'40'" ENTRY SEQUENCED DATA SET
(102)		0	FCTDSSHR	"FCTVSVR1" SHARED RESOURCES INDICATORS, THAT SIGNIFY CONNECTION WITH LSR POOLS
(102)	..1.		FCTSHRIM	"X'20'" FILE IS NOW SHARING RESOURCES
(102)	.... 1...		FCTSHRSP	"X'08'" FILE IS TO USE AN LSR POOL
(102)		0	FCTDSSGF	"FCTVSVR1" SHARED STATS COLLECTED FLAG
(102)	...1		FCTSHBG	"X'10'" STATISTICS HAVE BEEN COLLECTED
(102)	.... .1..		FCTVRRDS	"X'04'" Variable RRDS
(102)		0	FCTDSADR	"FCTVSVR1" ADDRESSED ACCESS INDICATOR
(102)	.... ..1.		FCTADR	"X'02'" ADDRESSED ACCESS ONLY (SHARE OPTIONS 4 ONLY)
(102)		0	FCTDSRRD	"FCTVSVR1" RRDS INDICATOR
(102)	1		FCTRRDS	"X'01'" RELATIVE RECORD DATA SET
(103)	BITSTRING	1	FCTDSOBJ	VSAM OBJECT TYPE (OR MODE)
MODE OF ACCESS THROUGH VSAM (DETERMINED AT OPEN-TIME, ON OS)				
(103)		0	FCTDSPAT	"FCTDSOBJ" AIX PATH INDICATOR
(103)	...1		FCTPATH	"X'10'" AIX PATH + DATASET SHARING
(103)		0	FCTDSALT	"FCTDSOBJ" AIX INDICATOR
(103)	.... 1...		FCTALTIX	"X'08'" ACCESS THROUGH AIX
(103)	.... .1..		FCTBASE	"X'04'" ACCESSED AS A BASE
(104)	ADDRESS	1	FCTIPOOL	LSR POOL IDENTIFIER
(105)	BITSTRING	1	FCTVSVR2	VSAM DS INDICATOR 2
(105)	1...		FCT_IMMCLOSE	"X'80'" Immediate close requested
(105)	.1..		FCTDTOPN	"X'40'" Data table is open
(105)	..1.		FCTNODSN	"X'20'" DSN-SHARING NOT TO BE APPLIED IF READ-ONLY

Table 210. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(105)	.... 1...		FCTILFLG	"X'08'" DATA SET IS BEING INITIALLY LOADED
(105)	.... .1..		FCTDREUS	"X'04'" THE FILE HAS A "REUSE" SERVREQ
(105)	.... ..1.		FCTMTYRQ	"X'02'" "EMPTY" REQUEST IS OUTSTANDING
(105)	1		FCTDLFLG	"X'01'" VSAM "LOAD" MODE IS IN EFFECT
DATA SET CONTROL INDICATOR 6 VSAM only journalling and logging options.				
(106)	BITSTRING	1	FCTDSVR6	Dataset control indicator 6
(106)	1...		FCTJFR	"X'80'" Forward recovery
(106)	.1..		FCTJWAC	"X'40'" Write add complete
(106)	..1.		FCTFUZZY	"X'20'" Fuzzy Image Copy Allowed according to FCTE
(106)	...1		FCTBWO	"X'10'" BWO allowed for this FCTE set according to FCTE or VSAM Catalog - whichever is being used
EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved DATA SET CONTROL INDICATOR 7 VSAM RLS options.				
(107)	BITSTRING	1	FCTDSVR7	RLS bit settings
(107)	1...		FCTCR	"X'80'" Consistent read
(107)	.1..		FCTRR	"X'40'" Repeatable read
(107)	..1.		FCTUQENA	"X'20'" Re-ENABLE on QUIOPEN
(107)	...1		FCTCQENA	"X'10'" Re-ENABLE on QUICEND
The following two fields are used to record the catalog definition for read only RLS files.				
(107)	.... 1...		FCTROBO	"X'08'" Backward Recovery
(107)	.... .1..		FCTROFR	"X'04'" Forward Recovery
DATA SET CONTROL INDICATOR 8 VSAM bundle options.				
(108)	BITSTRING	1	FCTDSVR8	bundle options
(108)	1...		FCTBUNDL	"X'80'" Installed from bundle
(109)	BITSTRING	1		Reserved
(10A)	HALFWORD	2		Reserved
THE NEXT TWO FIELDS CONTAIN LIMITS, AGAINST WHICH FCTDSASC IS TESTED.				
(10C)	HALFWORD	2	FCTDSMSC	Upper limit for string count
(10E)	HALFWORD	2	FCTDSPMS	Limit for UPDATE/ADD string count

Table 210. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
THE NEXT THREE FIELDS CONTAIN HISTORICAL INFORMATION, COLLECTED FOR USE IN STATISTICAL REPORTS				
(110)	FULLWORD	4	FCTDSTSW	Total # tasks waited for string
(114)	FULLWORD	4		Reserved for # CS Failures
(118)	FULLWORD	4	(3)	Reserved
(124)	FULLWORD	4	FCTDSDEL	Number of DELETEs
(128)	HALFWORD	2		Reserved
(12A)	HALFWORD	2	FCTUPSTG	Number of strings required by VSAM during an UPDATE request
THE NEXT FIELD IS THE MAXIMUM RECORD LENGTH SPECIFIED IN THE DEFINITION OF THE VSAM DATA SET AND IS ALSO USED FOR ESTIMATING THE SIZE OF BUFFER REQUIRED FOR LARGE VSAM RECORDS.				
(12C)	FULLWORD	4	FCTMAXLN	Maximum record length
(130)	FULLWORD	4	FCTCFRLN	CFDT user specified reclen
TWO FIELDS REPRESENT SYSTEM-PROGRAMMER-SUPPLIED VALUES, THAT WILL BE DYNAMICALLY INSERTED IN THE ACB :				
(134)	HALFWORD	2	FCTBUFND	Specified number of data buffers
(136)	HALFWORD	2	FCTBUFNI	Specified number of index buffers
(138)	FULLWORD	4	FCTDSACB	Pointer to VSAM ACB
(13C)	BITSTRING	1		Reserved
(13D)	BITSTRING	1		Reserved
(13E)	BITSTRING	1	FCTFRLOG	Forward recovery log id
(13F)	BITSTRING	1		Reserved
(140)	CHARACTER	8		Reserved
(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

Table 210. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(180)	ADDRESS	4	FCTDTPTH	Data table path token
(184)	ADDRESS	4	FCTBCCHN	Open file chain
(188)	ADDRESS	4	FCT_NEXT_RLS_FCTE	Address of next file open in RLS mode
(18C)	ADDRESS	4	FCT_BC_CONN_CHAIN	Address of next FCT entry connected to this base
(190)	ADDRESS	4	FCT_RLS_TIMEOUTS	Number Of RLS timeouts
(194)	FULLWORD	4		Reserved for # CS Failures
(198)	FULLWORD	4	(3)	Reserved
(1A4)	CHARACTER	8	FCTDT_NAME	Data Table Name
(1AC)	CHARACTER	8	FCTCF_POOL_NAME	CFDT Pool Name
(1B4)	ADDRESS	4	FCTCF_POOL_ELEM_ADDR	Address of pool element
(1B8)	ADDRESS	4	FCTCF_NEXT_IN_POOL_ CHAIN	Address of next FCT entry open against a CFDT in this pool
(1BC)	FULLWORD	4	FCTCF_DT_TOKEN	CFDT Token
(1C0)	BITSTRING	1	FCTCF_FLAGS	CFDT Flags Byte
(1C0)	1...		FCTCF_UM_CONTEN	"X'80'" CFDT update model is contention
(1C0)	.1..		FCTCF_LOADREQ	"X'40'" CFDT requires loading
(1C0)	..1.		FCTCF_SOURCE	"X'20'" CFDT has a source data set
(1C0)	...1		FCTCF_REOPEN	"X'10'" CFDT access needs reopening
(1C1)	BITSTRING	1	FCTFLG1	Flags
(1C1)	1...		FCT_NOT_AUTH	"X'80'" Connect failed - not auth
(1C1)	..1.		FCT_CONN_FAIL	"X'20'" Last CONNECT attempt failed - retry later
(1C1)	...1		FCT_LINK_FAIL	"X'10'" Last CONNECT attempt failed link security check
(1C1)	.... 1...		FCT_408_ISSUED	"X'08'" Message 0408 issued - shipped request was successful
(1C1)	.... .1..		FCT_408_NEEDED	"X'04'" Message 0408 needed if shipped request is successful
(1C1)	.... ..1.		FCT_FORCE	"X'02'" Force users off
(1C2)	CHARACTER	2		Reserved
(1C4)	FULLWORD	4	FCTCF_LOADER_ID	CFDT loader id
(1C8)	DBL WORD	8	FCT_STCK	Last shared table connect
New or moved fields for making FCT threadsafe				

Table 210. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1D0)	FULLWORD	4	FCTDSCBW	CURRENT # WAITING FOR BUFFER
(1D4)	FULLWORD	4		Reserved for # CS Failures
(1D8)	FULLWORD	4	FCTDSHBW	HIGHEST # WAITED FOR BUFFER
(1DC)	FULLWORD	4		Reserved for # CS Failures
(1E0)	FULLWORD	4	FCTDSASC	Active string count
(1E4)	FULLWORD	4		Reserved for # CS Failures
(1E8)	FULLWORD	4	FCTDSCWC	VSAM current string wait count
(1EC)	FULLWORD	4		Reserved for # CS Failures
(1F0)	FULLWORD	4	FCTDSHSW	Highest # tasks waited on string
(1F4)	FULLWORD	4		Reserved for # CS Failures
(1F8)	FULLWORD	4	FCT_ACTV_RLS_CNT	# active RLS requests
(1FC)	ADDRESS	4	FCT_STRING_HEAD	Max. string wait chain head
(200)	FULLWORD	4		Reserved for # CS Failures
(204)	ADDRESS	4	FCT_PSEUDO_HEAD	Pseudo max string wait chain hd.
(208)	FULLWORD	4		Reserved for # CS Failures
(20C)	BITSTRING	1	FCTTSFLG	Threadsafe bit flags
(20C)	1...		FCT_THREADSAFE_WORK	"X'80'" Flag Threadsafe work performed
(20D)	BITSTRING	1	(3)	on file. No CS needed.
New or moved fields for define file in bundle				
(210)	CHARACTER	8	FCT_BUNDLE_TOKEN	
(218)	CHARACTER	8	FCT_RESOURCE_TOKEN	
(220)	FULLWORD	4	FCT_SHARED_LOCK_COUNT	
(224)	FULLWORD	4		Reserved for # CS Failures
(228)	BITSTRING	1	FCT_BUNDLE_BITS	
(228)	1...		FCT_BUNDLE_DISABLE_ DEFERRED	"X'80'"
(229)	BITSTRING	1	FCTLOECB	
Here is the embedded resource signature object				
(229)		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

Table 210. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(E6)	111. 1...		FCTNVEL	"*-DFHFCTDS" Length of BDAM file entry

```
FILE CONTROL TABLE PREFIX
```

Table 211.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHFPFDS	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)	..1.		FPFPRFL	"*-DFHFPFDS" LENGTH OF FCT PREFIX

FCTSR - File control shared resources

```
CONTROL BLOCK NAME = DFHFCTSR
DESCRIPTIVE NAME = CICS TS FCT SHARED RESOURCES CONTROL BLOCK
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1982, 2013
FUNCTION =
       To represent CICS's requirements of, and use made of,
       a VSAM local shared resources pool.
       Part of FILE CONTROL (the database component).
       There is one instance for each pool mentioned in the
       FCT, ie up to a maximum of 255 pools.
LIFETIME & STORAGE CLASS =
       Same as the rest of the FCT.
LOCATION =
       By pointers and identifying numbers, all within the FCT.
INNER CONTROL BLOCKS =
       None in the strict sense.
       Certain fields repeat others defined in DFHFCSBK,
       and can be used as a work area.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None.
   MODULE TYPE = Control block definition
-------------------------------------------------------------------------
EXTERNAL REFERENCES =
    DATA AREAS =
```

```
    The six fields named FCTVR... are all defined over
    the list-form of VSAM macro BLDVRP.
CONTROL BLOCKS =
         None.
GLOBAL VARIABLES (Macro pass) = Used only for splitting source.
-------------------------------------------------------------------
                FILE CONTROL TABLE
              SHARED RESOURCES CONTROL
```

Table 212.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHFCTSR	VSAM SHARED RESOURCES CONTROL
(0)	CHARACTER	8	FCTSRGRP (0)	(RDO group name)
(0)	CHARACTER	8		SHARED RESOURCES CONTROL EYE-CATCHER
(8)	BITSTRING	1	FCTSRCSN (0)	String num. status (next build)
(8)	1...		FCTCPSTN	"X'80'" MUST COMPUTE STRING NUMBER
(8)	BITSTRING	1	FCTSRCKL (0)	Key length status (next build)
(8)	.1..		FCTCPKYL	"X'40'" MUST COMPUTE LENGTH FOR KEYS
(8)	BITSTRING	1	FCTSRCCI (0)	CI size sataus (next build)
(8)	..1.		FCTCPCIS	"X'20'" MUST COMPUTE CI SIZES
(8)	BITSTRING	1	FCTSRNDI (0)	Data/index buffer status (next build)
(8)	...1		FCTSRNSP	"X'10'" Use separate buffers
(8)	BITSTRING	1		Next build control flags
(9)	FULLWORD	1	FCTSRPID	NUMERICAL POOL IDENTIFIER
(A)	HALFWORD	2	FCTSRUC	NUMBER OF OPEN ACBs ON THE POOL
(C)	ADDRESS	4	FCTSRBWC	BUFFER WAIT CHAIN START
(10)	FULLWORD	4		# CS Failures
(14)	ADDRESS	4	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

Table 212. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(36)	HALFWORD	2	FCTSRSTN	COMPUTED NUMBER OF STRINGS
(38)	HALFWORD	2		RESERVED
(3A)	HALFWORD	2		RESERVED
(3C)	BITSTRING	1	FCTSRNBB	NO BUFFER byte
(3C)	1...		FCTSRNBF	"X'80'" This BIT requires own BYTE
(3D)	CHARACTER	3		reserved
(40)	FULLWORD	4	FCTSRMAP	WRTBFR TRANSID USE MAP
(44)	BITSTRING	1	FCTSRSDI (0)	Separate DATA/INDEX buffers
(44)	1...		FCTSRSEP	"X'80'" Use separate buffers (was 10)
(44)	BITSTRING	1	FCTSRERR (0)	ERROR BUILDING POOL
(44)	.1..		FCTSRDMP	"X'40'" FORMATTED DUMP ISSUED (was 02)
(44)	BITSTRING	1	FCTSRPST (0)	STATUS OF THIS POOL
(44)	..1.		FCTSRBLT	"X'20'" POOL IS BUILT (was 01)
(44)	BITSTRING	1		Current build control flags
(45)	CHARACTER	3		Reserved
(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

Table 212. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(80)	FULLWORD	4	FCTSRHBX	Hiperspace bufs next build
(84)	FULLWORD	4	FCTSRBFF	NUMBER OF LOOK-ASIDE HITS
(88)	FULLWORD	4	FCTSRFRD	NUMBER OF BUFFER READS
(8C)	FULLWORD	4	FCTSRUIW	NO OF USER INITIATED WRITES
(90)	FULLWORD	4	FCTSRNUW	NO OF NON-USER INITIATED WRITES
(94)	FULLWORD	4	FCTSRCRS	Number successful CREADS
(98)	FULLWORD	4	FCTSRCWS	Number successful CWRITES
(9C)	FULLWORD	4	FCTSRCRF	Number failing CREADS
(A0)	FULLWORD	4	FCTSRCWF	Number failing CWRITES
(A0)	..11		FCTSRCIL	"*-FCTSRCIS" LENGTH OF BUFFER SIZE ENTRY
(74)	BITSTRING	1	FCTSR512_DATA (0)	512 CI'S NUMBER AND STATISTICS
(A4)	BITSTRING	1	FCTSR1K_DATA (0)	1K CI'S NUMBER AND STATISTICS
(D4)	BITSTRING	1	FCTSR2K_DATA (0)	2K CI'S NUMBER AND STATISTICS
(104)	BITSTRING	1	FCTSR4K_DATA (0)	4K CI'S NUMBER AND STATISTICS
(134)	BITSTRING	1	FCTSR8K_DATA (0)	8K CI'S NUMBER AND STATISTICS
(164)	BITSTRING	1	FCTSR12K_DATA (0)	12K CI'S NUMBER AND STATISTICS
(194)	BITSTRING	1	FCTSR16K_DATA (0)	16K CI'S NUMBER AND STATISTICS
(1C4)	BITSTRING	1	FCTSR20K_DATA (0)	20K CI'S NUMBER AND STATISTICS
(1F4)	BITSTRING	1	FCTSR24K_DATA (0)	24K CI'S NUMBER AND STATISTICS
(224)	BITSTRING	1	FCTSR28K_DATA (0)	28K CI'S NUMBER AND STATISTICS
(254)	BITSTRING	1	FCTSR32K_DATA (0)	32K CI'S NUMBER AND STATISTICS
(254)		0	FCTSRRFL	"(*-FCTSRCIS)" Length of repeating fields
(254)	.... 1.11		FCTSRNCI	"(FCTSRRFL/FCTSRCIL)" Number of CI sizes
(284)	BITSTRING	1	FCTSR512_INDX (0)	512 CI'S NUMBER AND STATISTICS
(2B4)	BITSTRING	1	FCTSR1K_INDX (0)	1K CI'S NUMBER AND STATISTICS

Table 212. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2E4)	BITSTRING	1	FCTSR2K_INDX (0)	2K CI'S NUMBER AND STATISTICS
(314)	BITSTRING	1	FCTSR4K_INDX (0)	4K CI'S NUMBER AND STATISTICS
(344)	BITSTRING	1	FCTSR8K_INDX (0)	8K CI'S NUMBER AND STATISTICS
(374)	BITSTRING	1	FCTSR12K_INDX (0)	12K CI'S NUMBER AND STATISTICS
(3A4)	BITSTRING	1	FCTSR16K_INDX (0)	16K CI'S NUMBER AND STATISTICS
(3D4)	BITSTRING	1	FCTSR20K_INDX (0)	20K CI'S NUMBER AND STATISTICS
(404)	BITSTRING	1	FCTSR24K_INDX (0)	24K CI'S NUMBER AND STATISTICS
(434)	BITSTRING	1	FCTSR28K_INDX (0)	28K CI'S NUMBER AND STATISTICS
(464)	BITSTRING	1	FCTSR32K_INDX (0)	32K CI'S NUMBER AND STATISTICS
(494)		0	FCTSRLNG	"*-DFHFCTSR" RESOURCE CONTROL ENTRY LENGTH

FIOA - File input/output area

```
CONTROL BLOCK NAME = DFHFIOA
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS File I/O Area.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1984, 1991
FUNCTION = FILE I/O AREA
 The FIOA is acquired dynamically from main storage by File
 Control whenever a request is made for I/O to a BDAM data set.
 The data area, beginning at field FIOADBA, is used as the true
 I/O area from/to which records are read/written. The FRTE
 contains the address of the FIOA at FRT_WORK_AREA_ADDRESS.
 The following fields form part of the Product-Sensitive
 Programming Interface.
     FIOAIND
     FIOAM
     FCFIODEC
     FCFIOBEX
     FCFIOECB
     FCFIOLRA
     FIOADBA
     FCDS01D
   PN= REASON REL YYMMDD HDXXIII : REMARKS
```

Table 213.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHFIOA	DUMMY SECTION - FILE I/O AREA

Table 213. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
FIXED SECTION				
(0)	HALFWORD	2	FIOALGTH	Length of FIOA.
DATA EVENT CONTROL BLOCK				
(2)	BITSTRING	1	FIOAIND (0)	FILE I/O AREA INDICATOR
(2)	11..		FIOAM	"X'C0'" FILE I/O AREA
(4)	FULLWORD	4	FCFIODEC (0)	DATA EVENT CONTROL BLOCK
(4)	FULLWORD	4	FCFIOBEX (0)	EXCEPTION CODES - BDAM
(4)	FULLWORD	4	FCFIOECB	EVENT CONTROL BLOCK
(8)	HALFWORD	2	FCFIOTYP	TYPE OF OPERATION
(A)	HALFWORD	2	FCFIOLNG	DATA / AREA LENGTH
(C)	FULLWORD	4	FCFIODCB	DATA CONTROL BLOCK ADDRESS
(10)	ADDRESS	4	FCFIOAA	INPUT / OUTPUT DATA ADDR
(14)	FULLWORD	4	FCFIOIOB	IOB ADDRESS
(18)	FULLWORD	4	FCFIOKA	KEY ADDRESS
(1C)	FULLWORD	4	FCFIOBRF	BLKREF FIELD - BDAM
(20)	FULLWORD	4	FCFNXADR	ADDR OF NEXT ADDR FEEDBACK FLD
VARIABLE SECTION				
(24)	BITSTRING	1	FCIOEXB (0)	EXCLUSIVE CONTROL INDICATOR
(24)	1...		FCECIND	"X'80'" RECORD IS UNDER EXCLUSIVE CNTRL
(24)	CHARACTER	1	(3)	RESERVED
(28)	ADDRESS	4	FIOAFRTE	ADDRESS OF ASSOCIATED FRTE
(2C)	FULLWORD	4	FCFIOLRA	LOGICAL RECORD ADDRESS
(30)	HALFWORD	2	FCFIOLRL	Logical record length
(34)	FULLWORD	4	FCFIOFCT	FILE CONTROL TABLE ENTRY ADDR
(38)	FULLWORD	4	FIOA_KEY_ADDRESS	Address of RIDFLD in FIOA
(3C)	FULLWORD	4		Reserved
(40)	FULLWORD	4	FIOA_BLOCK_END	Address of end of block
(44)	HALFWORD	2	FIOA_BROWSE_KEYLENGTH	Keylength during browse
(46)	HALFWORD	2	FIOA_BROWSE_RRN	DEBREC number in browse
(48)	CHARACTER	8	FIOA_KEY_WORKAREA	Workarea for real address conversion
(50)	CHARACTER	8	FIOA_JOURNAL_ECN	Workarea for FCJL

Table 213. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(58)	BITSTRING	1	FIOA_BROWSE_FLAGS	Indicators for browse
(58)	1...		FIOA_BROWSE_IN_ PROGRESS	"X'80'" Browse in progress
(58)	.1..		FIOA_DEBREC_BROWSE	"X'40'" DEBREC browse
(58)	..1.		FIOA_DEBKEY_BROWSE	"X'20'" DEBKEY browse
(59)	BITSTRING	1	FIOA_INDICATORS	Miscellaneous indicators
(59)	1...		FIOA_DEBLOCK_REQUIRED	"X'80'" Deblock required
(60)	DBL WORD	8	FIOACAE (0)	CONTROL AREA ENDING ADDRESS
(60)	.11.		FIOACAD	"*-DFHFIOA" CONTROL AREA DISPLACEMENT
(60)	.1.1 11..		FIOAL	"*-FCFIOECB" FIOA LENGTH
(60)	DBL WORD	8	FCDS01D (0)	BEGINNING ADDRESS DATA AREA
(60)	.11.		FIOADBA	"FCDS01D" DATA BEGINNING ADDRESS

FLABC - File Lasting Access Block

Table 214.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	144	DFHFLAB	
Eye catcher				
(0)	CHARACTER	16	FLAB_EYE_CATCHER	Eye catcher
(0)	HALFWORD	2	FLAB_LENGTH	Length of FLAB
(2)	CHARACTER	6	FLAB_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FLAB_EYE2	FLAB
Main part of FLAB.				
(10)	CHARACTER	128	FLAB_MAIN_PART	Main part of FLAB
(10)	CHARACTER	4	*	
(10)	CHARACTER	4	*	
(10)	ADDRESS	4	FLAB_NEXT_FLAB_ ADDRESS	-> next FLAB on chain from owning FLAB
(10)	ADDRESS	4	FLAB_FREE_FLAB_ ADDRESS	Address of next FLAB on free chain
(14)	ADDRESS	4	FLAB_FRAB_ADDRESS	Addresss of FRAB that owns this FLAB
(18)	CHARACTER	8	*	
(18)	CHARACTER	8	FLAB_FILENAME	Name of associated file
(20)	CHARACTER	4	FLAB_REMOTE_SYSTEM_ID	Name of target system if file is remote
(24)	CHARACTER	8	FLAB_REMOTE_FILENAME	Name of file on target system if file is remote

Table 214. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2C)	CHARACTER	4	*	
(2C)	ADDRESS	4	FLAB_FCTE_ADDRESS	-> associated FCTE
(30)	UNSIGNED	4	FLAB_ENVIRONMENT_ID	Environment identifier
This part of the FLAB addresses the FRTE chain and controls whether the file may be closed or reallocated.				
(34)	CHARACTER	4	*	
(34)	ADDRESS	4	FLAB_FRTE_CHAIN_ ADDRESS	-> first FRTE owned by this FLAB
(38)	BIT(8)	1	FLAB_FLAGS	Flag byte
(38)	1...		FLAB_FORCE_ABEND	SDT connect failed, abend
(38)	.1..		*	Reserved
(38)	..1.		FLAB_BACKOUT_ ATTEMPTS_DISABLED	Do not attempt backout: base data set has had a backout failure since the last unshunt
(38)	...1		*	Reserved
(38)	.... 1...		FLAB_MI_COMPLETE_SEEN	Mass insert complete log rec seen (restart)
(38)	.... .1..		FLAB_WA_COMPLETE_SEEN	Write add complete log rec seen (restart)
(38)	.... ..1.		FLAB_NEEDS_FLLB	FLLB getmained but not yet chained
(38)	1		FLAB_HAS_FLLB	FLLB now chained
(39)	BIT(8)	1	FLAB_SECURITY_ACCESS	Security Characteristics
(39)	1...		FLAB_READ_ALLOWED	Read security check OK
(39)	.1..		FLAB_UPDATE_ALLOWED	Update security check OK
(39)	..11 1111		*	Reserved
(3A)	CHARACTER	1	*	
(3A)	UNSIGNED	1	FLAB_RETAIN_REASON	Reason work had to be retained
(3B)	UNSIGNED	1	FLAB_RETAIN_REASON2	Sub-reason for backout failures
SET storage for READ_SET requests				
(3C)	CHARACTER	8	FLAB_SET_CONTROL	Set storage control
(44)	CHARACTER	8	FLAB_SETU_CONTROL	Set storage control
Threadsafe Flags ??? make these separate words				
(4C)	BIT(8)	1	*	
(4C)	CHARACTER	1	*	
(4C)	BIT(8)	1	FLAB_DO_NOT_CLOSE_ FLAG	
(4C)	1...		FLAB_DO_NOT_CLOSE	Dont close file until syncpoint commit
(4D)	BIT(8)	1	*	
(4D)	CHARACTER	1	*	

Table 214. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4D)	BIT(8)	1	FLAB_DO_NOT_ REALLOCATE_FLAG	
(4D)	1...		FLAB_DO_NOT_ REALLOCATE	Dont realloc file exist
(4E)	BIT(8)	1	*	
(4E)	CHARACTER	1	*	
(4E)	BIT(8)	1	FLAB_RECOVERABLE_ WORK_DONE_FLAG	
(4E)	1...		FLAB_RECOVERABLE_ WORK_DONE	Recoverable work done so eligible for shunting
(4F)	BIT(8)	1	*	
(4F)	CHARACTER	1	*	
(4F)	BIT(8)	1	FLAB_QUICMP_PENDING_ FLAG	
(4F)	1...		FLAB_QUICMP_PENDING	RLS QUICOPY or QUIBWO req recvd for base data set
Statistics for this task. Copied to FCT at end of task. If a stats are collected before end of task the value collected is saved in FLAB_STATS_COLLECTED so that the extra value saved at end of task is reduced by that value				
(50)	CHARACTER	28	FLAB_STATS	Stats for task
(50)	FULLWORD	4	FLAB_FCTDSRD	READ
(54)	FULLWORD	4	FLAB_FCTDSWRA	ADD
(58)	FULLWORD	4	FLAB_FCTDSWRU	UPDATE
(5C)	FULLWORD	4	FLAB_FCTDSGU	GET UPDATE
(60)	FULLWORD	4	FLAB_FCTDSBR	BROWSE
(64)	FULLWORD	4	FLAB_FCTDSBRU	BROWSE UPDATE
(68)	FULLWORD	4	FLAB_FCTDSDEL	DELETE
(6C)	CHARACTER	28	FLAB_STATS_COLLECTED	Stats collected
(6C)	FULLWORD	4	FLAB_FCTDSRD_ COLLECTED	READ
(70)	FULLWORD	4	FLAB_FCTDSWRA_ COLLECTED	ADD
(74)	FULLWORD	4	FLAB_FCTDSWRU_ COLLECTED	UPDATE
(78)	FULLWORD	4	FLAB_FCTDSGU_ COLLECTED	GET UPDATE
(7C)	FULLWORD	4	FLAB_FCTDSBR_ COLLECTED	BROWSE
(80)	FULLWORD	4	FLAB_FCTDSBRU_ COLLECTED	BROWSE UPDATE
(84)	FULLWORD	4	FLAB_FCTDSDEL_ COLLECTED	DELETE
(88)	CHARACTER	8	*	Reserved
(90)	CHARACTER	0	*	Align to double word boundary

Constants

Table 215.

Len	Type	Value	Name	Description
Values for flab_retain_reason				

Table 215. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	0	FLAB_NOT_RETAINED	
1	DECIMAL	1	FLAB_FILE_BACKOUT_ FAILURE	
1	DECIMAL	2	FLAB_CACHE_FAILURE	
1	DECIMAL	3	FLAB_RLS_CATASTROPHE	
1	DECIMAL	4	FLAB_INDOUBT	
1	DECIMAL	5	FLAB_COMMIT_FAILURE	
1	DECIMAL	6	FLAB_CICS_FAILURE	
Values for flab_retain_reason2				
1	DECIMAL	0	FLAB_NO_SUBREASON	
1	DECIMAL	1	FLAB_IO_ERROR	
1	DECIMAL	2	FLAB_NO_SPACE	
1	DECIMAL	3	FLAB_AIX_FULL	
1	DECIMAL	4	FLAB_DUP_RECORD	
1	DECIMAL	5	FLAB_OPEN_ERROR	
1	DECIMAL	6	FLAB_NO_LDEL	
1	DECIMAL	7	FLAB_DEADLOCK	
1	DECIMAL	8	FLAB_COPY_ACTIVE	
1	DECIMAL	9	FLAB_SEVERE_ERROR	
1	DECIMAL	10	FLAB_RETAINABLE_LOCKS	
1	DECIMAL	11	FLAB_REPEATABLE_READS	
1	DECIMAL	12	FLAB_LOCK_STRUC_FULL	

FMH - Function management headers

```
NAME OF MATCHING PL/S MODULE = None
DESCRIPTIVE NAME = CICS TS CICS Function Management Headers
    Licensed Materials - Property of IBM
     Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1981, 2013
FUNCTION =
 Copybook DFHFMHDS provides dsect DFHFMHDS.
 DFHFMHDS describes the format of the Function Management Headers
 (FMHs) used by CICS.
LIFETIME =
 FMHs are used (in conjunction with user data) for communication
 between CICS and other LUs. These include:
  1. 3600 and batch LUs
  2. LUs supporting LU6.1 protocols
  3. LUs supporting LU6.2 protocols
  4. LUs supporting (CICS) IRC protocols
 The lifetime, as far as CICS is concerned, is no more than the
 lifetime of the TIOAs containing the FMHs and user data.
STORAGE CLASS =
 As for TIOAs.
LOCATION =
 As for TIOAs.
INNER CONTROL BLOCKS =
```

```
 There are no inner control blocks.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = There are no restrictions.
 MODULE TYPE = Control block definition.
-------------------------------------------------------------------------
EXTERNAL REFERENCES =
    DATA AREAS =
    CONTROL BLOCKS =
    GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------------
       COMMON SECTION - 3600, BATCH LU
```

Table 216.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHFMHDS	DSECT - FORMAT MESSAGE HDR
(0)	BITSTRING	1	FMHLENG	FMH LENGTH
(0)	11		FMHL3600	"3" ...LENGTH OF 3600 FMH
(0)	.... .11.		FMHLBLU	"6" ...LENGTH OF BATCH LU FMH
(0)	.... 1..1		FMHLLU4	"9" ...LENGTH OF LU4 FMH-NO DSN
(1)	BITSTRING	1	FMHHD	HEADER DESCRIPTION
(1)	.1..		FMHFD	"X'40'" ...MESSAGE HAS FORMATTED DATA
(1)	..1.		FMHALARM	"X'20'" ...TRIGGER ALARM AT DEVICE
(1)	1		FMHTBLU	"X'01'" ...BATCH LU IS TYPE X'01'
(2)	BITSTRING	1	FMHLDC	LOGICAL DEVICE CODE -- SAME VALUES IN DFHSLDC, EXCEPT:
(2)	1...		FMHBLUIN	"X'80'" ...INPUT INDICATOR FOR BATCH LU
(3)	BITSTRING	1		RESERVED
BATCH LU EXTENSION				
(4)	BITSTRING	1	FMHFLAGS	BATCH LU FLAGS
(4)	1...		FMHSUSP	"X'80'" ...SUSPEND DATA SET
(4)	.1..		FMHBODS	"X'40'" ...BEGINNING OF DATA SET
(4)	..1.		FMHEODS	"X'20'" ...END OF DATA SET
(5)	BITSTRING	1		RESERVED
RESPECIFICATION FOR BATCH LU FMHS TYPE 1 FMH FORMAT				
(0)	BITSTRING	1	FMHLEN	LENGTH OF COMPLETE FMH
(1)	BITSTRING	1	FMHTYPE	TYPE OF FMH
(1)	1		FMHFTYP1	"X'01'" ..TYPE 1 FMH

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	.... ..1.		FMHFTYP2	"X'02'" ..TYPE 2 FMH
(1)	11		FMHFTYP3	"X'03'" ..TYPE 3 FMH
(1)	1...		FMHFCONC	"X'80'" CONCATENATED FMH
(2)	BITSTRING	1	FMHMEDIA	MEDIA SELECTION BYTE
(2)	....		FMHMEFCN	"X'00'" ..CONSOLE
(2)	...1		FMHMEFEX	"X'10'" ..EXCHANGE MEDIA
(2)	..1.		FMHMEFCD	"X'20'" ..CARD READER
(2)	..11		FMHMEFPR	"X'30'" ..PRINT
(2)	.1..		FMHMEFDI	"X'40'" ..DISK
(2)	.11.		FMHMEFPD	"X'60'" ..PDS
(2)	.1.1		FMHMEXDC	"X'50'" .. EXTENDED DOCUMENT
(2)	1...		FMHMEWM1	"X'80'" .. WP MEDIUM 1
(2)	1..1		FMHMEWM2	"X'90'" .. WP MEDIUM 2
(2)	1.1.		FMHMEWM3	"X'A0'" .. WP MEDIUM 3
(2)	11..		FMHMEWM4	"X'C0'" .. WP MEDIUM 4
(2)	11.1		FMHMENCI	"X'D0'" .. NCI
(2)	.111 1111		FMHMEFAN	"X'7F'" ..ANY NOTE ONLY BITS 1-3 USED BIT 0 RESERVED BIT 4-7 LOGICAL SUBADDRESS
(3)	BITSTRING	1	FMHFLAG3 (0)	FLAG BYTE
(3)	1...		FMHT1STK	"X'80'" 'YOUR' STACK INDICATOR BIT 1-3 RESERVED
(3)	BITSTRING	1	FMHDSP (0)	DATA STREAM PROFILE
(3)	....		FMHDSPDE	"X'00'" DEFAULT DSP
(3)	1		FMHDSPBA	"X'01'" BASE DSP
(3)	11		FMHDSPJB	"X'03'" JOB DSP
(3)	.... .1..		FMHDSPRW	"X'04'" WP RAW
(3)	.... .11.		FMHDSPI1	"X'06'" OII LEVEL 1
(3)	.... .111		FMHDSPI2	"X'07'" OII LEVEL 2
(3)	.... 1...		FMHDSPI3	"X'08'" OII LEVEL 3 X'09' - X'0A' RESERVED
(3)	.... 1.11		FMHDSPSF	"X'0B'" STRUCTURED FIELDS X'0C' - X'0F' RESERVED
(3)	BITSTRING	1	FMHDSDSP	DEFINE STORAGE
(4)	BITSTRING	1	FMHDESEL	DESTINATION SELECT FIELD BIT 0-2 ONLY
(4)	....		FMHDEFRE	"X'00'" ..RESUME DATA SET

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	..1.		FMHDEFEN	"X'20'" ..END DATA SET
(4)	.1..		FMHDEFBG	"X'40'" ..BEGIN DATA SET
(4)	.11.		FMHDEFBD	"X'60'" ..BEGIN AND END DATA SET
(4)	1...		FMHDEFSU	"X'80'" ..SUSPEND DATA SET
(4)	1.1.		FMHDEFAB	"X'A0'" ..ABORT DATA SET
(5)	BITSTRING	1	FMHRESV1 (0)	RESERVED
(5)	BITSTRING	1	FMHERCI	EXCHANGE RECORD LENGTH
(6)	BITSTRING	1	FMHRESV2 (2)	RESERVED
(8)	BITSTRING	1	FMHDSNL	LENGTH OF DESTINATION NAME
(9)	CHARACTER	1	FMHDSNH (0)	ACTUAL DSN NAME
TYPE 2 FMH OVERLAY				
(2)	BITSTRING	1	FMH2OPCD	TYPE OF OPERATION
(2)	..1. .1..		FMH2FADD	"X'24'" ..ADD OPERATION
(2)	..1. .1.1		FMH2FREP	"X'25'" ..REPLACE OPERATION
(2)	..1. 1...		FMH2FQUE	"X'28'" ..QUERY OPERATION
(2)	..1. 1..1		FMH2FNOT	"X'29'" ..NOTE OPERATION
(2)	..1. 1.1.		FMH2NTRY	"X'2A'" ..NOTE REPLY OPERATION
(2)	..1. 1.11		FMH2FRID	"X'2B'" ..RECID OPERATION
(2)	..1. 11..		FMH2FERA	"X'2C'" ..ERASE OPERATION
(2)	..1. 111.		FMH2FVOL	"X'2E'" ..VOLID OPERATION
(3)	BITSTRING	1	FMH2NURC (0)	NUMBER OF RECORDS AFFECTED
(3)	BITSTRING	1	FMH2RITY (0)	TYPE OF KEY FOR RECID TYPE
(3)	....		FMH2RIAK	"X'00'" ..ADDRESSED DIRECT
(3)	1		FMH2RID1	"X'01'" ..KEY DIRECT KEY1
(3)	.... ..1.		FMH2RID2	"X'02'" ..KEY DIRECT KEY2
(3)	11		FMH2RIAP	"X'03'" ..APPLICATION DEFINITION
(3)	.... .1..		FMH2RICC	"X'04'" ..CONTROL DEFINITION
(3)	BITSTRING	1	FMH2DAT1 (0)	START OF DATA FIRST TYPE
(3)	BITSTRING	1		OVERLAYED BYTE

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	CHARACTER	1	FMH2DAT2 (0)	START OF DATA SECOND TYPE
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)	1...		FMHCAT	"X'80'" A SECOND F.M. HEADER COMES AFTER THIS ONE BIT1 - BIT 7 FMH TYPE VALUES SET AS FOLLOWS
(1)	.... .1.1		FMHT05	"X'05'" IBM ARCHITECTED ATTACH F.M. HEADER
(1)	.... .11.		FMHT06	"X'06'" IBM ARCHITECTED MODEL F.M. HEADER

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	.... .111		FMHT07	"X'07"' IBM ARCHITECTED SYSTEM MESSAGE F.M. HEADER
(1)	.... 1.1.		FMHT0A	"X'0A"' IBM ARCHITECTED SYNCPOINT F.M. HEADER
(1)	.... 11..		FMHT0C	"X'0C"' IBM ARCHITECTED TRANSFORMED PASSWORD F.M. HEADER
(1)	.1.. ..11		FMHT43	"X'43"' CICS ARCHITECTED MODEL F.M. HEADER
(2)	CHARACTER	2	FMHXCMD (0)	GROUP AND FUNCTION CODES
(2)	CHARACTER	2	FMHXSS (0)	FMH T7 SYSTEM SENSE
(2)	CHARACTER	1	FMHGROUP	GROUP CODE
(3)	CHARACTER	1	FMHFN	FUNCTION CODE
(4)	CHARACTER	2	FMHXUS (0)	FMH T7 USER SENSE
(4)	CHARACTER	1	FMHXMOD	MODIFIER BITS SET AS FOLLOWS
(4)	1...		FMHXLNSZ	"X'80"' '0' FOR 1 BYTE FMH LENGTH FIELDS(LU6.1 FMH ONLY)
(4)	.1..		FMHXTOS	"X'40"' Set if system supports Time-out delete of remote skeletons (Transaction Routing only) BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED BIT5 RESERVED BIT6 RESERVED BIT7 RESERVED
(5)	CHARACTER	1	FMHXFXCT	LENGTH OF FIXED LENGTH PARAMETERS IN FMH
(6)	CHARACTER	1	FMHFORG (0)	ORIGIN FOR THE TYPE, GROUP AND FUNCTION DEPEND- ENT FIXED LENGTH PARAMETERS
(6)	.... .11.		LFMH	"*-DFHFMHDS" LENGTH OF THE STANDARD PART OF THE HEADER
	TYPE 5 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF ATTACH MANAGEMENT LU6.1 ATTACH FUNCTION MANAGEMENT HEADER X'0202' GROUP AND FUNCTION FMHGROUP VALUES SET AS FOLLOWS			
(6)	.... ..1.		FMHT5ATT	"X'02"' GROUP IS ATTACH FMHFN VALUES SET AS FOLLOWS

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6)	.... ..1.		FMHATTFN	"X'02'" FUNCTION IS ATTACH
(6)	CHARACTER	1	FMHATDS	SECURITY ALGORITHM VALUE
(7)	CHARACTER	1	FMHATDBA	DATA ALGORITHM VALUE VALUES SET AS FOLLOWS
(7)	....		FMHAU	"X'00'" UNDEFINED
(7)	1		FMHAV	"X'01'" VARIABLE LENGTH
(7)	.... ..1.		FMHASCSD	"X'02'" DOCUMENT SUBSET OF SCS
(7)	11		FMHASCSC	"X'03'" CARD SUBSET OF SCS
(7)	.... .1..		FMHARUC	"X'04'" CHAIN OF REQUEST UNITS
(7)	.... .1.1		FMHARU	"X'05'" REQUEST UNIT
(7)	.... 1...		LFMH0202	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(7)	.... 1...		LF050202	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHATDPN (0)	PROCESS TO BE INITIATED
(0)	CHARACTER	1	FMHATDPL	PROCESS NAME LENGTH
(0)	1		FMHARLEN	"1" LENGTH OF AN ARCHITECTED PROCESS NAME
(1)	CHARACTER	4	FMHATDPV (0)	PROCESS NAME UP TO FOUR CHARACTERS
(1)	..11 1111		FMHARMAX	"X'3F'" MAXIMUM POSSIBLE VALUE FOR ARCHITECTED PROCESS NAMES - NON-GRAPHIC VALUES
(0)	CHARACTER	8	FMHATPRN (0)	RESOURCE FOR INITIATED PROCESS
(0)	CHARACTER	8	FMHARDPN (0)	RETURN PROCESS NAME
(0)	CHARACTER	8	FMHARPRN (0)	RESOURCE FOR RETURN PROCESS
(0)	CHARACTER	8	FMHATDQN (0)	QUEUE TO BE ASSOCIATED WITH INITIATED PROCESS
(0)	..1. ..11		TA050202	"LF050202+ 1+ L'FMHATDPN+ 1+ L'FMHATPRN+ 1+ L'FMHARDPN"

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	..11 .1.1		MF050202	"TA050202+ 1+ L'FMHARPRN+ 1+ L'FMHATDQN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE ATTACH FMH
	LU6.2 ATTACH FUNCTION MANAGEMENT HEADER X'02FF' GROUP AND FUNCTION GROUP AND FUNCTION VALUES SET AS FOLLOWS			
(0)	BITSTRING	0	FMHBCMD	"X'02FF'" ATTACH LU6.2
(0)	1111 1111		FMHBTTFN	"X'FF'" FUNCTION = LU6.2 ATTACH FLAGS SET IN FMHXMOD
(0)	.... 1...		FMHBPIP	"X'08'" PIP PRESENT
(0)	.... .1..		FMHBXSEC	"X'04'" Extended security bit
(0)	1...		FMHBAVER	"X'80'" USERID ALREADY VERIFIED
(0)	.1..		FMHBPVER	"X'40'" USERID PERSISTENTLY VERIFIED
(0)	..1.		FMHBPV2	"X'20'" Userid Persistently Signed On FMHXFXCT
(0)	11		FMHBFXCT	"X'03'" LENGTH OF FIXED LENGTH PARMS
(6)	BITSTRING	1	FMHBCVT (0)	CONVERSATION TYPE
(6)	11.1		FMHBUNMP	"X'D0'" UNMAPPED
(6)	11.1 ...1		FMHBMAPD	"X'D1'" MAPPED
(6)	BITSTRING	1	FMHBFXT1	1ST BYTE
(7)	BITSTRING	1	FMHBFXT2	2ND BYTE - RESERVED 3RD BYTE
(8)	BITSTRING	1	FMHBSPL (0)	BITS 0-1 - SYNC POINT LEVEL
(8)	....		FMHBSPL0	"X'00'" NO SYNC
(8)	.1..		FMHBSPL1	"X'40'" COMMIT ONLY (CONFIRM)
(8)	1...		FMHBSPL2	"X'80'" FULL SYNCPT
(8)	11..		FMHBSPMK	"X'C0'" SYNC POINT MASK
(8)	BITSTRING	1	FMHBRSTL (0)	BIT 2 - RESTART LEVEL
(8)	....		FMHBRNO	"X'00'" - NO
(8)	..1.		FMHBRYES	"X'20'" - YES
(8)	BITSTRING	1	FMHBFXT3	3RD BYTE
(8)	.... 1..1		LF0502FF	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	1	FMHBTPNL	ACTUAL LENGTH OF FMHBTPN

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	CHARACTER	32	FMHBTPN (0)	TRANSACTION PROGRAM NAME
(0)	CHARACTER	1	FMHBACCL	ACTUAL LENGTH OF FMHBACC
(1)	CHARACTER	139	FMHBACC (0)	SECURITY ACCESS CODE
(0)	CHARACTER	1	FMHBACSL	ACCESS SUBFIELD LENGTH
(1)	CHARACTER	1	FMHBACST	ACCESS SUBFIELD TYPE
(1)	....		FMHBACPR	"X'00'" PROFILE-ID
(1)	1		FMHBACPA	"X'01'" PASSWORD
(1)	.... ..1.		FMHBACUS	"X'02'" USER-ID
(1)	1111 1...		FMHBAC_EWLM	"X'F8'" EWLM correlator
(1)	1111 1..1		FMHBAC_RQS	"X'F9'" Requeststream flow
(1)	1111 1.1.		FMHBAC_RRS	"X'FA'" RRS data field
(1)	1111 1.11		FMHBAC_EPN	"X'FB'" ENTRY PORT NAME
(1)	1111 11..		FMHBAC_EPT	"X'FC'" ENTRY PORT TYPE
The entry port type can either be X'00' representing a VTAM terminal, or X'01' representing a console.				
(1)	....		FMH_VTAM_TERMINAL	"X'00'"
(1)	1		FMH_CONSOLE	"X'01'"
(1)	1111 11.1		FMHBAC_APL	"X'FD'" APPLID OF ENTRY PORT
(1)	1111 111.		FMHBAC_PRI	"X'FE'" SHIPPED TASK PRIORITY
(1)	1111 1111		FMHBAC_SRC	"X'FF'" MVS/WLM SRC TOKEN
(2)	CHARACTER	64	FMHBACSD (0)	ACCESS SUBFIELD DATA
(0)	CHARACTER	1	FMHBUOWL	ACTUAL LENGTH OF FMHBUOW
(1)	CHARACTER	30	FMHBUOW (0)	UNIT OF WORK ID
(1)	CHARACTER	1	FMHBULUL	LENGTH OF LU NAME
(2)	CHARACTER	17	FMHBULU (0)	LU NAME (NETWORK NAME FROM ACB)
(0)	CHARACTER	6	FMHBUCLK	UOW INSTANCE (STORE CLOCK VALUE)
(6)	CHARACTER	2	FMHBUSEQ	UOW SEQUENCE NO
(0)	CHARACTER	1	FMHBCCSL	ACTUAL LENGTH OF FMHBCCS
(1)	CHARACTER	8	FMHBCCS (0)	SENDER'S CONVERSATION CORRELATOR
(0)	CHARACTER	1	FMHBSEQL	Actual length of FMHBSEQ

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	CHARACTER	8	FMHBSEQ (0)	Sender's DCE sequence number
(1)	11.1 .1.1		TA0502FF	"LF0502FF+ 1+ L'FMHBTPN+ 1+ L'FMHBACC+ 1+ L'FMHBUOW"
(1)	111. .11.		MF0502FF	"TA0502FF+ 1+ L'FMHBCCS+ L'FMHBSEQ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE LU6.2 ATTACH FMH
	TYPE 6 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 SYSTEM MESSAGE MODEL SYSSTAT FUNCTION MANAGEMENT HEADER USED FOR LOGGING ERROR MESSAGES ON CSMT X'0402' GROUP AND FUNCTION NOTE THAT CICS/VS WILL NOT SEND THE SYSSTAT FMH			
(1)	.... .11.		LF060402	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	SYSERROR FUNCTION MANAGEMENT HEADER USED FOR ..... X'0404' GROUP AND FUNCTION NOTE THAT CICS/VS WILL NOT SEND NOR RECEIVE THE SYSERROR FMH			
(1)	.... .11.		LF060404	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	4	FMHERDPN	DPN FOR INTENDED REPLY
(0)	CHARACTER	4	FMHERPRN	PRN FOR INTENDED REPLY
(0)	...1		MF060404	"LF060404+ 1+ L'FMHERDPN+ 1+ L'FMHERPRN" GOOD UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SYSERROR FMH
	FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 SCHEDULER MODEL SCHED FUNCTION MANAGEMENT HEADER USED FOR IC SCHEDULE REQUESTS X'0802' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXMOD FOR SCHED FMH			
(0)	.1..		FMHXRPLY	"X'40"' REPLY IS EXPECTED
(0)	..1.		FMHXPROT	"X'20"' REQUEST IS PROTECTED

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	...1		FMHXDELY	"X'10'" TIMER IS REQUIRED
(0)	.... 1...		FMHRTST	"X'08'" Routable START
(0)	.... .1..		FMHRESUN	"X'04'" RESUNAVAIL is supported
(0)	.... ..1.		FMHCHANL	"X'02'" CHANNEL request
(6)	CHARACTER	1	FMHSRQST	DETAILS OF SCHEDULE REQUEST BITS SET AS FOLLOWS
(6)	1...		FMHSTIME	"X'80'" TIME DELAY SPECIFIED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED BIT5 RESERVED BIT6 RESERVED BIT7 RESERVED
(6)	.... .111		LF060802	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHSSDPN (0)	NAME OF PROCESS THAT IS TO BE INITIATED
(0)	CHARACTER	4	FMHSPRN (0)	NAME OF PRIMARY RESOURCE FOR PROCESS BEING INITIATED
(0)	CHARACTER	8	FMHSRDPN (0)	SUGGESTED NAME FOR RETURN PROCESS
(0)	CHARACTER	4	FMHSRPRN (0)	SUGGESTED NAME FOR PRIMARY RESOURCE FOR RETURN PROCESS
(0)	CHARACTER	8	FMHSQNME (0)	NAME OF QUEUE ASSOCIATED WITH PROCESS BEING INITIATED
(0)	CHARACTER	8	FMHSREQN (0)	NAME OF REQUEST INSTANCE ASSOCIATED WITH PROCESS
(0)	CHARACTER	6	FMHSDELY (0)	THE INTERVAL OR TIME INITIATION DELAY FIELD
(0)	CHARACTER	8	FMHUSID (0)	THE USERID ON A START COMMAND
(0)	CHARACTER	8	FMHSYSNE (0)	Applid for PF start
(0)	CHARACTER	8	FMHTRMNE (0)	Terminal netname for start
(0)	...1 111.		TA060802	"LF060802+ 1+ L'FMHSSDPN+ 1+ L'FMHSPRN+ 1+ L'FMHSRDPN"

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	..11 .1.1		TB060802	"TA060802+ 1+ L'FMHSRPRN+ 1+ L'FMHSQNME+ 1+ L'FMHSREQN"
(0)	.1.. 11.1		MF060802	"TB060802+ 1+ L'FMHSDELY+ 1+ L'FMHUSID+ L'FMHSYSNE" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SCHED FMH
	SCDSTAT FUNCTION MANAGEMENT HEADER USED FOR IC SCHEDULE REPLIES X'0804' GROUP AND FUNCTION			
(6)	CHARACTER	1	FMHSSSTS	STATUS OF SCHEDULE REQUEST BITS SET AS FOLLOWS BIT0 RESERVED
(6)	.1..		FMHSSYSI	"X'40'" Unable to ship request to next node
(6)	..1.		FMHSINAU	"X'20'" UNAUTHORIZED REQUEST
(6)	...1		FMHSIEXP	"X'10'" INITIATION TIME EXPIRED
(6)	.... 1...		FMHSIDPN	"X'08'" INVALID PROCESS NAME
(6)	.... .1..		FMHSIPRN	"X'04'" INVALID RESOURCE NAME
(6)	.... ..1.		FMHSERR	"X'02'" UNABLE TO SCHEDULE DUE TO PROCESSING ERROR
(6)	1		FMHSINV	"X'01'" INVALID REQUEST
(7)	CHARACTER	1	FMHSSST2	EXTENSION TO FMHSSSTS BITS SET AS FOLLOWS
(7)	1...		FMHUIDER	"X'80'" USERID ERROR
(7)	.... 1...		LF060804	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHSIREQ (0)	REQUEST NAME GENERATED BY RECEIVING SYSTEM
(0)	...1 ...1		MF060804	"LF060804+ 1+ L'FMHSIREQ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SCDSTAT FMH
	PURGREQ FUNCTION MANAGEMENT HEADER USED FOR IC CANCEL REQUESTS X'0806' GROUP AND FUNCTION			

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	.... .11.		LF060806	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHSREQN
(0)	CHARACTER	8	FMHSCDPN (0)	NAME OF PROCESS THAT IS TO BE CANCELLED
(0)	...1 1...		MF060806	"LF060806+ 1+ L'FMHSREQN+ 1+ L'FMHSCDPN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE PURGREQ FMH
	PURGSTAT FUNCTION MANAGEMENT HEADER USED FOR IC CANCEL REPLIES X'0808' GROUP AND FUNCTION			
(6)	CHARACTER	1	FMHSPSTS	STATUS OF PURGE REQUEST BITS SET AS FOLLOWS BIT0 RESERVED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED
(6)	.... .1..		FMHSPSYS	"X'04'" Unable to ship request to next node
(6)	.... ..1.		FMHSPNAU	"X'02'" UNAUTHORIZED REQUEST
(6)	1		FMHSNFD	"X'01'" NAMED REQUEST NOT FOUND
(6)	.... .111		LF060808	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 QUEUE MODEL QPUT FUNCTION MANAGEMENT HEADER USED FOR WRITEQ TD REQUESTS WRITEQ TS REQUESTS X'0A02' GROUP AND FUNCTION			
(6)	.... ..1.		FMHCNDRQ	"X'02'" CONDITIONAL REQUEST
(6)	CHARACTER	1	FMHQQORG	TYPE OF QUEUE VALUES SET AS FOLLOWS
(6)	....		FMHQNSPE	"X'00'" QUEUE TYPE NOT SPECIFIED
(6)	1		FMHQSEQL	"X'01'" QUEUE TYPE IS SEQUENTIAL
(6)	.... ..1.		FMHQLINE	"X'02'" QUEUE TYPE IS LINEAR

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6)	11		FMHQHIER	"X'03'" QUEUE TYPE IS HIERARCHICAL
(6)	.... .111		LF060A02	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	16	FMHQNAME (0)	THE QUEUE NAME IS FROM 1 TO 16 CHARACTERS
(0)	...1 1...		MF060A02	"LF060A02+ 1+ L'FMHQNAME" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QPUT FMH
QGET FUNCTION MANAGEMENT HEADER USED FOR READQ TS REQUESTS X'0A04' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXMOD FOR QGET FMH FMHCNDRQ EQU X'02' CONDITIONAL REQUEST				
(6)	CHARACTER	1		see definition for FMHQQORG
(6)	.... .111		LF060A04	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHQNAME
(0)	CHARACTER	2	FMHQCURS	THE CURSOR IS HELD AS TWO BYTE BINARY
(0)	CHARACTER	2	FMHQTRSZ	THE MAXIMUM RECORD LENGTH IS HELD AS TWO BYTE BINARY
(0)	...1 111.		MF060A04	"LF060A04+ 1+ L'FMHQNAME+ 1+ L'FMHQCURS+ 1+ L'FMHQTRSZ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QGET FMH
QPURGE FUNCTION MANAGEMENT HEADER USED FOR DELETEQ TD REQUESTS DELETEQ TS REQUESTS X'0A06' GROUP AND FUNCTION				
(6)	CHARACTER	1		see definition for FMHQQORG
(6)	.... .111		LF060A06	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHQNAME

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	...1 1...		MF060A06	"LF060A06+ 1+ L'FMHQNAME" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QPURGE FMH
	QXFR FUNCTION MANAGEMENT HEADER USED FOR READQ TD REPLIES READQ TS REPLIES X'0A08' GROUP AND FUNCTION			
(6)	CHARACTER	1		see definition for FMHQQORG
(7)	CHARACTER	1	FMHQXFST	STATUS BYTE BITS SET AS FOLLOWS BIT0 RESERVED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED
(7)	.... .1..		FMHQDISP	"X'04'" DISPOSITION OF QUEUE BIT6 RESERVED
(7)	1		FMHQEMSG	"X'01'" END OF MESSAGE
(7)	.... 1...		LF060A08	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	2	(0)	see definition for FMHQCURS
(0)	CHARACTER	2	FMHQRCNT (0)	NUMBER OF OCCURENCES OF RECORDS AT LOWEST LEVEL OF CURSOR
(0)	CHARACTER	2	FMHQRCLN (0)	RECORD LENGTH BEFORE TRUNCATION
(0)	...1 ...1		MF060A08	"LF060A08+ 1+ L'FMHQCURS+ 1+ L'FMHQRCNT+ 1+ L'FMHQRCLN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QXFR FMH
	QSTATUS FUNCTION MANAGEMENT HEADER USED FOR WRITEQ TD REPLIES WRITEQ TS REPLIES READQ TD REPLIES READQ TS REPLIES DELETEQ TD REPLIES DELETEQ TS REPLIES X'0A0A' GROUP AND FUNCTION NOTE THAT CICS/VS WILL NOT SEND EITHER THE FMHQSENS OR THE FMHQNAME VARIABLE LENGTH PARAMETER			
(6)	CHARACTER	1		see definition for FMHQQORG

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7)	CHARACTER	2	FMHQSTAT (0)	STATUS OF REQUEST
(7)	CHARACTER	1	FMHQSTA1	FIRST STATUS BYTE BITS SET AS FOLLOWS
(7)	1...		FMHQINVL	"X'80'" INVALID LENGTH FOR REQUEST
(7)	.1..		FMHQINVN	"X'40'" INVALID QUEUE NAME
(7)	..1.		FMHQRNVL	"X'20'" RECORD NOT AVAILABLE
(7)	...1		FMHQNAVL	"X'10'" QUEUE NAME NOT AVAILABLE
(7)	.... 1...		FMHQSPAC	"X'08'" NO SPACE LEFT ON QUEUE
(7)	.... .1..		FMHQINVC	"X'04'" INVALID CURSOR
(7)	.... ..1.		FMHQERRO	"X'02'" I/O ERROR WHEN QUEUE ACCESSED
(7)	1		FMHQEMPT	"X'01'" QUEUE IS EMPTY
(8)	CHARACTER	1	FMHQSTA2	RESERVED
(8)	1...		FMHQIORG	"X'80'" Q-ORG NOT SUPPORTED
(8)	.1..		FMHQNAUT	"X'40'" UNAUTHORIZED REQUEST
(8)	..1.		FMHQSYSI	"X'20'" Unable to ship request to next node
(8)	...1		FMHQDISA	"X'10'" Queue exists but has been disabled
(8)	.... 1...		FMHQINVR	"X'08'" Invalid request; e.g. DELETEQ for extra TD
(8)	.... .1..		FMHQLOCK	"X'04'" Queue is locked
(8)	.... 1..1		LF060A0A	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	2	(0)	see definition for FMHQCURS
(0)	CHARACTER	256	FMHQSENS (0)	SENSE DATA (COULD BE ACCESS METHOD DATA)
(0)	CHARACTER	8	(0)	see definition for FMHQNAME
(0)	.... 11..		MF060A0A	"LF060A0A+ 1+ L'FMHQCURS" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QSTATUS FMH

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
QREPL FUNCTION MANAGEMENT HEADER USED FOR WRITEQ TS REQUESTS X'0A0C' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXMOD FOR QREPL FMH FMHCNDRQ EQU X'02' CONDITIONAL REQUEST				
(6)	CHARACTER	1		see definition for FMHQQORG
(6)	.... .111		LF060A0C	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHQNAME
(0)	CHARACTER	2	(0)	see definition for FMHQCURS
(0)	...1 1.11		MF060A0C	"LF060A0C+ 1+ L'FMHQNAME+ 1+ L'FMHQCURS" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QREPL FMH
QGETN FUNCTION MANAGEMENT HEADER USED FOR READQ TD REQUESTS READQ TS REQUESTS X'0A10' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXMOD FOR QGETN FMH FMHCNDRQ EQU X'02' CONDITIONAL REQUEST				
(6)	CHARACTER	1		see definition for FMHQQORG
(6)	.... .111		LF060A10	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8		see definition for FMHQNAME
(0)	CHARACTER	2		see definition for FMHQTRSZ
(0)	...1 1.11		MF060A10	"LF060A10+ 1+ L'FMHQNAME+ 1+ L'FMHQTRSZ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QGETN FMH
FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 DL/I MODEL DL/I MODEL FUNCTION MANAGEMENT HEADERS CAN BE FOLLOWED BY ONE OR MORE SELF DESCRIBING PIECES OF DATA.				
(0)	CHARACTER	2	FMHDLENG	LENGTH OF PARAMETER; INCLUDES LENGTH AND TYPE FIELDS

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	CHARACTER	1	FMHDTYPE	PARAMETER TYPE - VALUES SET AS FOLLOWS
(2)	1		FMHDIOA	"X'01'" FLAG SET TO SHOW THAT PARAMETER IS AN I/O AREA
(2)	.... ..1.		FMHDSSA	"X'02'" FLAG SET TO SHOW THAT PARAMETER IS A SSA
(2)	11		FMHDPCB	"X'03'" FLAG SET TO SHOW THAT PARAMETER IS A PCB
(2)	.... .1..		FMHDKEY	"X'04'" FLAG SET TO SHOW THAT PARAMETER IS A KEY
(2)	.... .1.1		FMHDSTFN	"X'05'" Flag set to show that parameter is a STATFUNC
(2)	.... .11.		FMHDSRTK	"X'06'" Flag set to show that parameter is a SRTOKEN
(2)	.... .111		FMHDSCHD	"X'07'" Flag set to show that parameter is a SCHEDINFO
(2)	.... 1...		FMHDAIB	"X'08'" Flag set to show that parameter is a AIB
(3)	CHARACTER	256	FMHDPARM (0)	THE PARAMETER ITSELF; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE
(3)	CHARACTER	256	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)
(B)	 1111		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

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	2	FMHDSAMX (0)	MAX SSA SIZE - VARIABLE PARAM - 2 BYTES LONG
(0)	CHARACTER	2	FMHDIOMX (0)	MAX I/O AREA SIZE - 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)	..11 ..11		MAXLDVD	"LFMHDVD+ 1+ L'FMHDDBDN+ 1+ L'FMHDSAMX+ 1+ L'FMHDIOMX+ 1+ L'FMHDS
		GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR VIEW DESCRIPTOR		
(3)	CHARACTER	256	FMHDPKEY (0)	THE FULLY CONCATENATED KEY FOR THIS OPERATION; 256 IS AN ARBITRARY RATHER RATHER THAN MAXIMUM VALUE
	DLIDBS FUNCTION MANAGEMENT HEADER USED FOR DL/I SCHEDULE REQUESTS X'4002' GROUP AND FUNCTION			
(3)	.... .11.		LF064002	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHDPSBN (0)	PSB NAME - VARIABLE PARAM - FROM 1 TO 8 CHARACTERS LONG
(0)	 1111		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)	1...		FMHDNOPN	"X'80'" DATA BASE NOT OPEN
(6)	.1..		FMHDNFND	"X'40'" PSB NOT FOUND

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6)	..1.		FMHDNACT	"X'20'" DL/I NOT ACTIVE
(6)	...1		FMHDFAIL	"X'10'" PSB INITIALIZATION FAILED
(6)	.... 1...		FMHDNAUT	"X'08'" UNAUTHORIZED ACCESS TO PSB
(6)	.... .1..		FMHDCONF	"X'04'" INTENT SCHEDULE CONFLICT
(6)	.... ..1.		FMHDIPCB	"X'02'" Invalid PCB Request E.G. IOPCB for Local PSB BIT6 RESERVED BIT7 RESERVED
(7)	CHARACTER	1	FMHDSRC2	RESERVED
(7)	.... 1...		LF064004	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIREPL FUNCTION MANAGEMENT HEADER USED FOR DL/I REPL REQUESTS X'4006' GROUP AND FUNCTION			
(6)	CHARACTER	2	FMHDPCBI	THE INDEX FOR THIS PCB
(6)	.... 1...		LF064006	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIISRT FUNCTION MANAGEMENT HEADER USED FOR DL/I ISRT REQUESTS X'4008' GROUP AND FUNCTION			
(6)	CHARACTER	2		see definition for FMHDPCBI
(6)	.... 1...		LF064008	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIDLET FUNCTION MANAGEMENT HEADER USED FOR DL/I DLET REQUESTS X'400A' GROUP AND FUNCTION			
(6)	CHARACTER	2		see definition for FMHDPCBI
(6)	.... 1...		LF06400A	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIGU FUNCTION MANAGEMENT HEADER USED FOR DL/I GU REQUESTS X'4010' GROUP AND FUNCTION			
(6)	CHARACTER	2		see definition for FMHDPCBI
(6)	.... 1...		LF064010	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
	DLIGHU FUNCTION MANAGEMENT HEADER USED FOR DL/I GHU REQUESTS X'4012' GROUP AND FUNCTION			
(6)	CHARACTER	2		see definition for FMHDPCBI
(6)	.... 1...		LF064012	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIGN FUNCTION MANAGEMENT HEADER USED FOR DL/I GN REQUESTS X'4014' GROUP AND FUNCTION			
(6)	CHARACTER	2		see definition for FMHDPCBI
(6)	.... 1...		LF064014	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIGHN FUNCTION MANAGEMENT HEADER USED FOR DL/I GHN REQUESTS X'4016' GROUP AND FUNCTION			
(6)	CHARACTER	2		see definition for FMHDPCBI
(6)	.... 1...		LF064016	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIGNP FUNCTION MANAGEMENT HEADER USED FOR DL/I GNP REQUESTS X'4018' GROUP AND FUNCTION			
(6)	CHARACTER	2		see definition for FMHDPCBI
(6)	.... 1...		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)	.... 1...		LF06401A	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIDBXFR FUNCTION MANAGEMENT HEADER USED FOR DL/I DATABASE REPLIES (SUCCESSFUL GET REQUESTS) X'401C' GROUP AND FUNCTION			
(6)	CHARACTER	2	FMHDRCDS (0)	DL/I RETURN CODES

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6)	CHARACTER	1	FMHDRCD1	DL/I RETURN CODE WITH BITS SET AS FOLLOWS
FMHDNOPN EQU X'80' DATA BASE NOT OPEN BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED				
(6)	.... .1..		FMHDNVRQ	"X'04'" INVALID PCB INDEX BIT6 RESERVED BIT7 RESERVED
(7)	CHARACTER	1	FMHDRCD2	RESERVED
(8)	CHARACTER	2	FMHDSEGL	SEGMENT LEVEL (BINARY)
(A)	CHARACTER	2	FMHDSTCD	STATUS CODES
(A)	.... 11..		LF06401C	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHDSEGN (0)	THE SEGMENT NAME IS FROM ONE TO EIGHT CHARACTERS
(0)	...1 .1.1		MF06401C	"LF06401C+ 1+ L'FMHDSEGN" GOOD UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE 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)	.... 11..		LF06401E	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHDSEGN

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	...1 .1.1		MF06401E	"LF06401E+ 1+ L'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)	.... 1...		LF064020	"*-DFHFMHDS" Length of fixed part
(8)	ADDRESS	2		Length of view descriptor
(A)	BITSTRING	1		I/O area type View descriptor
(B)	BITSTRING	1		I/O area (1 byte)
(B)	.... 11..		MF064020	"*-DFHFMHDS" Maximum length of this header
	DLIDEQR FUNCTION MANAGEMENT HEADER USED FOR DL/I DEQ REPLIES X'4022' GROUP AND FUNCTION			
(6)	CHARACTER	2		FMHDRCDS
(8)	CHARACTER	2	FMHDESTC	DL/I Status Code
(8)	.... 1.1.		LF064022	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIDBSI Function Management Header Used for DL/I Schedule requests with IOPCB X'4024' Group and Function			
(6)	CHARACTER	8	FMHSIPSBNM	PSB Name
(6)	.... 111.		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)	...1 11.1		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)	.... 1...		LF064026	"*-DFHFMHDS"

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
	DLISTAT Function Management Header User for DL/I STAT requests X'4028' Group and Function			
(6)	CHARACTER	2		PCB index
(6)	.... 1...		LF064028	"*-DFHFMHDS"
(0)	CHARACTER	2		FMHDLENG
(2)	CHARACTER	1		FMHDTYPE
(3)	CHARACTER	9	FMHDPSTA (0)	
(3)	CHARACTER	4	FMHDSTTY	
(7)	CHARACTER	1	FMHDSTFO	
(8)	CHARACTER	4	FMHDSTRE	
(8)	...1 .1..		MF064028	"LF064028+ 2+ 1+ L'FMHDPSTA"
	DLIINIT Function Management Header User for DL/I INIT requests X'402A' Group and Function			
(6)	CHARACTER	2		PCB index
(6)	.... 1...		LF06402A	"*-DFHFMHDS"
	DLISETS Function Management Header User for DL/I SETS requests X'402C' Group and Function			
(6)	CHARACTER	2		PCB index
(6)	.... 1...		LF06402C	"*-DFHFMHDS"
(0)	CHARACTER	4	FMHDPSRT	
	DLIROLS Function Management Header User for DL/I ROLS requests X'402E' Group and Function			
(6)	CHARACTER	2		PCB index
(6)	.... 1...		LF06402E	"*-DFHFMHDS"
	DLIPOS Function Management Header User for DL/I POS requests X'4030' Group and Function			
(6)	CHARACTER	2		PCB index
(6)	.... 1...		LF064030	"*-DFHFMHDS"
	DLISSR Function Management Header User for DL/I System Service Reply X'4032' Group and Function			
(6)	CHARACTER	2		FMHDRCDS
(8)	CHARACTER	2	FMHDSSCD	Status Code
(8)	.... 1.1.		LF064032	"*-DFHFMHDS"

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
	DLIINITR Function Management Header User for DL/I INIT Reply X'4034' Group and Function			
(8)	.... .11.		LF064034	"*-DFHFMHDS"
	DLIICMD Function Management Header User for DL/I ICMD requests X'4036' Group and Function			
(6)	CHARACTER	2		PCB index (zero for ICMD, RCMD, GMSG)
(6)	.... 1...		LF064036	"*-DFHFMHDS" Length of fixed part
	DLIAOIR Function Management Header User for DL/I ICMD, RCMD, GMSG Reply X'4038' Group and Function			
(6)	CHARACTER	2		FMHDRCDS
(6)	.... 1...		LF064038	"*-DFHFMHDS"
	DLIRCMD Function Management Header User for DL/I RCMD requests X'403A' Group and Function			
(6)	CHARACTER	2		PCB index (zero for ICMD, RCMD, GMSG)
(6)	.... 1...		LF06403A	"*-DFHFMHDS" Length of fixed part
	DLIGMSG Function Management Header User for DL/I GMSG requests X'403C' Group and Function			
(6)	CHARACTER	2		PCB index (zero for ICMD, RCMD, GMSG)
(6)	.... 1...		LF06403C	"*-DFHFMHDS" Length of fixed part
	DLIINQY Function Management Header User for DL/I INQY requests X'403E' Group and Function			
(6)	CHARACTER	2		PCB index (zero for INQY)
(6)	.... 1...		LF06403E	"*-DFHFMHDS" Length of fixed part
	TYPE 7 FUNCTION MANAGEMENT HEADERS			
(6)	CHARACTER	1	FMHELOG (0)	LUTYPE 6.2 ERROR LOG
(6)	1...		FMHELOG1	"X'80'" GDS DATA VARIABLE
(6)	....		FMHELOG0	"X'00'" NO GDS DATA VARIABLE
(6)	CHARACTER	2	FMHSMNUM	MESSAGE NUMBER

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6)	.... 1...		LFMHSM	"*-DFHFMHDS" LENGTH OF ARCHITECTED T7 FMH
(8)	CHARACTER	1	FMHSMSTD (0)	END OF ARCHITECTED T7 FMH
(8)	CHARACTER	4	FMHSMCCD	CICS ABEND CODE
(C)	CHARACTER	5	FMHSMDCD	DL/I ABEND CODE
(C)	...1 ...1		LFMHSMDL	"*-DFHFMHDS" LENGTH OF MM T7 FMH
	TYPE 10 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF SYNCPOINT MANAGEMENT SYNCPOINT FUNCTION MANAGEMENT HEADER X'0202' GROUP AND FUNCTION			
(C)	.... ..1.		FMHPGPSY	"X'02'" SYNCH POINT GROUP
(C)	.... ..1.		FMHPGPPR	"X'02'" PREPARE SUBGROUP
(4)	BITSTRING	1	FMHPRSV1	RESERVED '00'
(5)	BITSTRING	1	FMHPPTYP	PREPARE TYPE
(5)	....		FMHPPTFL	"X'00'" PREPARE WITH KEEP FLOW
(5)	1		FMHPPTEB	"X'01'" PREPARE WITH REQUEST EB
(5)	.... ..1.		FMHPPTCD	"X'02'" PREPARE WITH REQUEST CD
(5)	.... .11.		LF0A0202	"*-DFHFMHDS" LENGTH
	TYPE 12 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF BIND TIME SECURITY TRANSFORMED PASSWORD FUNCTION MANAGEMENT HEADER ---- GROUP AND FUNCTION NOT SUPPORTED			
(2)	BITSTRING	8	FMHVTPW	TRANSFORMED PASSWORD
(2)	.... 1.1.		LFFMHV	"*-DFHFMHDS" LENGTH
	TYPE 43 FUNCTION MANAGEMENT HEADERS CICS PRIVATE HEADERS THE FUNCTION MANAGEMENT HEADER FOR A CICS REQUEST OR REPLY. SINCE THIS IS A PRIVATE FMH, THE DIRECTION OF TRANSMISSION DETERMINES WHETHER IT REPRESENTS A REQUEST OR A REPLY.			
(2)	.... .11.		LFMHCICS	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	14	FMHCOPTS (0)	FOR OUTBOUND REQUESTS - THE EXISTENCE AND TCA BITS FROM ARG0

Table 216. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	9	FMHCINVP (0)	For outbound DPL requests - the name of the invoking program
(0)	CHARACTER	5	FMH43_PC_CCSID (0)	
(0)	CHARACTER	5	FMH43_PC_NDIAN (0)	
(0)	CHARACTER	7	FMHCRCDE (0)	FOR INBOUND REPLIES - THE ERROR CODES FROM EIBRCODES
(0)	CHARACTER	7	FMHRESP (0)	FOR INBOUND REPLIES - RESPONSE/REASON ETC.
(0)	CHARACTER	5	FMHVRSN (0)	FOR INBOUND REPLIES - VERSION NUMBER OF REPLY FIELDS
(0)	CHARACTER	3	FMHFLGS (0)	FOR INBOUND REPLIES - FLAG BYTES
(0)	1...		FMH_TERMINATE_STRING	"X'80'" TERMINATE STRING INDICATOR
(0)	CHARACTER	5	FMHCTRRC (0)	FOR INBOUND REPLIES - THE TRANSACTION ROUTING RETURN CODE TO BE PASSED TO CPSM
THIS FMH IS FOLLOWED BY ZERO OR MORE DATA VARIABLES WHICH REPRESENT ARGUMENTS TO AN EXEC CICS COMMAND. NOT ALL ARGUMENTS WILL BE SENT AND FURTHERMORE THE VALUES TRANSMITTED WILL DEPEND ON THE FUNCTION AND DIRECTION OF TRANSMISSION.				
(0)	CHARACTER	2	FMHCARGL	LENGTH OF PARAMETER; INCLUDES LENGTH AND ARGNO FIELDS
(2)	CHARACTER	1	FMHCARGN	ARGUMENT NUMBER; ARG3 IS REPRESENTED BY VALUE X'06'
(3)	CHARACTER	256	FMHCARGV (0)	THE ARGUMENT ITSELF; IT MAY BE, FOR EXAMPLE, A KEY
(3)	BITSTRING	1	FMHCACFL	Current App Ctxt Flags
(3)	1...		FMH_CUR_IS_INITIAL	"X'80'" Use initial ctxt as current

FMI - Function and module identifiers

Constants

Table 217.

Len	Type	Value	Name	Description
MODULE NAME = DFHFMIPS MATCHING ASSEMBLER MODULE = DFHFMIDS DESCRIPTIVE NAME = CICS TS FUNCTION AND MODULE IDENTIFIERS Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1980, 2010 All names defined in DFHFMIPS form part of the Product-Sensitive Programming Interface. STATUS = 7.1.0 FUNCTION IDENTIFIERS X'20' PLUS X'8-' ...USE FOR AUTOMATIC JOURNALING X'40' PLUS X'8-' ...USE FOR AUTOMATIC LOGGING X'E0' thru X'FF' are reserved for Sync-Point logging (MUST BE PRESENT IN 'LOGGABLE' DWE'S) DFHFMIDS CONSTANTS JOURNAL CONTROL				
1	HEX	80	FIDJCLAB	JOURNAL CONTROL LABEL
FILE CONTROL				
1	HEX	40	FIDALOG	AUTOMATICALLY LOGGED
1	HEX	20	FIDAJRN	AUTOMATICALLY JOURNALLED
1	HEX	10	FIDMASS	MASSINSERT REQ (FIDFCWA ONLY) *
1	HEX	80	FIDFCRO	FILE CONTROL READ-ONLY
1	HEX	81	FIDFCRU	FILE CONTROL READ-UPDATE
1	HEX	82	FIDFCWU	FILE CONTROL WRITE-UPDATE
1	HEX	83	FIDFCWA	FILE CONTROL WRITE-ADD
1	HEX	84	FIDFCWAC	FILE CONTROL WRITE-ADD-COMP *
1	HEX	86	FIDFCWD	FILE CONTROL WRITE-DELETE *
1	HEX	88	FIDFCBOF	Backout Failed Log Record *
1	HEX	8F	FIDFCDSN	Dsname record *
NOTE THAT FID VALUES (AS ABOVE) ARE OFTEN USED BOTH TO IDENTIFY THE FUNCTION OF THE DWE AND THE FUNCTION OF THE LOG RECORD. IN THE CASE OF THE FIDFC EQU'S ABOVE, THEY ARE USED FOR LOG RECORDS ONLY. SPECIAL FEATURES FUNCTION IDENTIFIERS				
1	HEX	80	FIDPSOPC	CONTINOUS LOGICAL SPOOLOPEN

Table 217. (continued)

Len	Type	Value	Name	Description
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
1	HEX	84	FIDTCPRR	POSITIVE RESPONSE
1	HEX	85	FIDTCIMF	INPUT MESSAGE (W/FMH,
1	HEX	86	FIDTCOMN	OUTPUT MESSAGE, (W/O
1	HEX	87	FIDTCON	OUTPUT MESSAGE, FMH,
1	HEX	88	FIDTCONN	OUTPUT MESSAGE, W/O FMH,
1	HEX	89	FIDTCUA	INITIAL TCT USER AREA

Table 217. (continued)

Len	Type	Value	Name	Description
1	HEX	8A	FIDTCEIB	INITIAL EXEC COMM AREA
1	HEX	8B	FIDTCIMN	IN MSG, NO FMH, DATA COMPLT *
1	HEX	8C	FIDTCINN	IN MSG, NO FMH, DATA ¬COMPLT *
GENERAL PURPOSE SUBTASK FUNCTION IDENTIFIERS				
1	HEX	80	FIDSKDF	DEFAULT FUNCTION CODE
Front-End Programming Interface FUNCTION IDENTIFIERS				
1	HEX	F0	FIDFEPIN	FEPI Inbound API<-FEPI
1	HEX	F1	FIDFEPOU	FEPI Outbound API->FEPI
MODULE IDENTIFIERS (MAY BE X'01'-->X'FF'.)				
1	HEX	08	MODIDIC	INTERVAL CONTROL
1	HEX	10	MODIDTC	TERMINAL CONTROL
1	HEX	11	MODIDFC	FILE CONTROL
1	HEX	13	MODIDTS	TEMPORARY STORAGE
1	HEX	14	MODIDFCJ	FILE CONTROL JOURNALLING *
1	HEX	40	MODIDBM	BASIC MAPPING
1	HEX	45	MODIDJC	JOURNAL CONTROL
1	HEX	53	MODIDPS	SPECIAL FEATURES
1	HEX	5B	MODIDTMP	TABLE MANAGER
1	HEX	5C	MODIDSKP	SUBTASK MANAGER
1	HEX	5D	MODIDFEP	Front-End Prog Inter
1	HEX	FF	MODIDUSR	RESERVED FOR USER SYNC

FRABC - File Request Anchor Block

Table 218.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	312	DFHFRAB	
Eye catcher				
(0)	CHARACTER	16	FRAB_EYE_CATCHER	Eye catcher
(0)	UNSIGNED	2	FRAB_LENGTH	Length of FRAB
(2)	CHARACTER	6	FRAB_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FRAB_EYE2	FRAB
Following storage is not reinitialise for each task				
(10)	CHARACTER	16	*	
(10)	ADDRESS	4	FRAB_FREE_FLAB	Free FLAB

Table 218. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(14)	ADDRESS	4	FRAB_FREE_FRTE	Free FRTE
(18)	ADDRESS	4	* (2)	Reserved
Main part of FRAB (initialised at start of task)				
(20)	CHARACTER	280	FRAB_MAIN_PART	Main part of FRAB
(20)	CHARACTER	4	*	
(20)	CHARACTER	4	*	
(20)	ADDRESS	4	FRAB_NEXT_FRAB_ ADDRESS	-> next FRAB in FRAB chain
(20)	ADDRESS	4	FRAB_FREE_FRAB_ ADDRESS	Next FRAB in FC static free chain.
(24)	ADDRESS	4	FRAB_PREV_FRAB_ ADDRESS	Pointer to previous FRAB in FRAB chain
(28)	CHARACTER	4	*	
(28)	ADDRESS	4	FRAB_FLAB_CHAIN_ ADDRESS	-> FLAB chain for current tran
(2C)	CHARACTER	4	*	
(2C)	ADDRESS	4	FRAB_FLLB_CHAIN_ ADDRESS	-> FLLB chain for current tran
(30)	ADDRESS	4	FRAB_EXCL_VSWA	VSWA that suffered excl control conflict for this task.
(34)	CHARACTER	4	*	
(34)	ADDRESS	4	FRAB_TRANSACTION_ TOKEN	Current TCA
(38)	FULLWORD	4	FRAB_UPDATE_TOKEN	Current update token
Data tables section of FRAB				
(3C)	ADDRESS	4	FRAB_DT_UOW_TOKEN	Data tables recovery token
Recovery-related section of FRAB				
(40)	BIT(8)	1	FRAB_FLAGS	Assorted flags
(40)	1...		FRAB_REPLICATION_DONE	Replication log record since syncpoint
(40)	.1..		FRAB_NON_RLS_LOCKS_ HELD	NQ Manager DEQ is required
(40)	..1.		FRAB_HAS_LOCKS	FLLB lost locks chain is built
(40)	...1		FRAB_UOWID_SET	UOW has been recorded in FRAB
(40)	.... 1...		FRAB_PHASE_2_SYNC	UOW has been through ph2 of syncpoint
(40)	.... .1..		FRAB_REQUEST_FORGET	Request_forget has been issued
(40)	.... ..1.		FRAB_LONG_RUNNING	The XFCFRIN exit has intercepted the request and indicated that the mirror is to remain long running
(40)	1		FRAB_FORCE_PURGE_ ISSUED	FCFS issued purge

Table 218. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(41)	CHARACTER	1	*	
(41)	CHARACTER	1	*	
(41)	BIT(8)	1	FRAB_RLS_LOCKS_HELD_ FLAG	
(41)	1...		FRAB_RLS_LOCKS_HELD	IDALKREL is reqd
(42)	CHARACTER	1	*	
(42)	CHARACTER	1	*	
(42)	BIT(8)	1	FRAB_HAS_BEEN_ SHUNTED_FLAG	
(42)	1...		FRAB_HAS_BEEN_SHUNTED	UOW was shunted at least once
(43)	CHARACTER	1	*	Reserved
(44)	ADDRESS	4	FRAB_FCUP_CHAIN_ ADDRESS	Pointer to start of FCUP chain
RLS section of FRAB				
(48)	UNSIGNED	2	FRAB_RLS_TIMEOUT	Timeout value
(4A)	UNSIGNED	2	FRAB_SERVER_SEQUENCE	Sequence number of server at time FRAB created.
(4C)	ADDRESS	4	FRAB_NEXT_RECOV_UPDT	-> frab
(50)	CHARACTER	4	FRAB_TRANNUM	Transaction # for deadlock/timeout pd
(54)	CHARACTER	4	FRAB_TRANID	Transaction id for deadlock/timeout pd
(58)	CHARACTER	96	*	
(58)	CHARACTER	96	FRAB_LUWID	RLS Luwid
(B8)	CHARACTER	80	FRAB_VSAM_WORKAREA	VSAM workarea
(B8)	FULLWORD	4	* (20)	(20 words)
(108)	CHARACTER	0	*	Align to double word boundary
FRAB extension - multi-purpose				
(108)	FULLWORD	4	FRAB_REQUEST_COUNT	req counter
(10C)	ADDRESS	4	FRAB_REP_LOG_TOKEN_P	replication
(110)	FULLWORD	4	* (2)	future use
(118)	CHARACTER	26	FRAB_FCTBCCRL	curr repl log name
(132)	CHARACTER	6	*	future use
(138)	CHARACTER	0	*	Align to double word boundary

```
  MACRO NAME: IFGLUWID
  DESCRIPTION: Mapping the Logical Unit of Work ID Control Block
  STATUS: Version 1 DFSMS Release 3.0
PROPRIETARY V3 STATEMENT
LICENSED MATERIALS - PROPERTY OF IBM
 RESTRICTED MATERIALS OF IBM
5695-DF1
(C) COPYRIGHT 1995 IBM CORP.
END PROPRIETARY V3 STATEMENT
```

```
FUNCTION = Mapping Macro for Logical Unit of Work ID
INCLUDED MACROS = NONE
METHOD OF ACCESS = PL/X-370 OR ASSEMBLER
```

Table 219.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	96	IFGLUWID	
(0)	CHARACTER	16	LUWIDHDR	
(0)	CHARACTER	8	LUWIDID	Eye Catcher - IFGLUWID
(8)	FULLWORD	4	LUWIDLEN	Control Block Length
(C)	UNSIGNED	1	LUWIDVER	Version Identifier
(D)	CHARACTER	3	*	Reserved
(10)	CHARACTER	8	LUWIDVAL	Logical Unit Of Work ID
(18)	CHARACTER	36	LUWIDPDI	deadlock/timeout problem
determination information				
(18)	BIT(8)	1	LUWIDFL1	first flag field
(18)	1...		LUWIDNDL	'1'= LUWID is not a preferred
deadlock victim				
(19)	CHARACTER	3	*	reserved
(1C)	CHARACTER	32	LUWIDPD	Deadlock/time out problem
determination data area				
(3C)	UNSIGNED	4	LUWIDWLM	WLM transaction token or 0
The LUWID should be on a dblword boundary. In PL/X, if LIKE is used, LIKE must specify BDY(DWORD). To avoid potential problems with how the user gets the LUWID block, whether PL/X or ASM, VSAM will save result of TIMEUSED in a BDY(DWORD) internal field and then move to LUWIDCPU				
(40)	CHARACTER	8	LUWIDCPU	Total CPU time used by the
current SRB up until TIMEUSED is issued. Time used by TCB is NOT included. (Field must be cleared by user before issuing a VSAM request. Field is not available until the VSAM request is complete. For SYN,RLSWAIT, field is available when control is returned from RLSWAIT exit. For ASY requests, field is available when CHECK completes. VSAM may not be able to set this field if Cancel or ABEND occurs, or TIMEUSED fails.)				
(48)	ADDRESS	4	LUWIDSVA	Ptr to a 20-word BDY(DWORD)
user-provided area required for VSAM to use TIMEUSED				
(4C)	FULLWORD	4	* (5)	Reserved, unused

Constants

Table 220.

Len	Type	Value	Name	Description
LUWID Constants				
8	CHAR HEX	00000000 00000000	LUWIDNUL	Null LUWID
8	CHARACTER	IFGLUWID	LUWIDIDC	Eyecatcher

Table 220. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	1	LUWIDVRC	Version Number

FRTEC - File Request Thread Element

Table 221.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	116	DFHFRTE	
Eye catcher				
(0)	CHARACTER	16	FRT_EYE_CATCHER	Eye catcher
(0)	HALFWORD	2	FRT_LENGTH	length of FRTE
(2)	CHARACTER	6	FRT_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FRT_EYE2	FRTE
NOTE: frt_ifgluwid_pointer is NOT part of frt_main_part. This ensures that this field is not cleared when the FRTE is reused. The FRTE stays permanently attached the IFGLUWID area.				
(10)	ADDRESS	4	FRT_IFGLUWID_POINTER	Address of IFGLUWID associated with this request thread.
Main part of FRTE FRT_MAIN_PART starts here - Do not move fields out of FRT_MAIN_PART - All fields in FRT_MAIN_PART are reset together				
(14)	CHARACTER	96	FRT_MAIN_PART	Main part of FRTE
(14)	CHARACTER	4	*	
(14)	CHARACTER	4	*	
(14)	ADDRESS	4	FRT_NEXT_FRTE_ADDRESS	-> next FRTE in chain for current file.
(14)	ADDRESS	4	FRT_FREE_FRTE_ADDRESS	Next FRTE in FC static storage free chain.
(18)	ADDRESS	4	FRT_FLAB_ADDRESS	Address of FLAB that owns this FRTE.
(1C)	CHARACTER	1	*	
(1C)	CHARACTER	1	FRT_FUNCTION	Function byte see CONSTANT defs
(1D)	BIT(8)	1	FRT_FLAGS	FRTE flag byte
(1D)	1...		*	
(1D)	.1..		FRT_INITIAL_LOAD	Initial loading lock held.
(1D)	..1.		FRT_USE_FCDT	Call FCDT if a CMT
(1D)	...1		FRT_BACKOUT	Backing out
(1D)	.... 1...		FRT_CONTINUATION	This request continues a previous one
(1D)	.... .1..		*	
(1D)	.... ..1.		FRT_UMT_LOCK_HELD	UMT record lock held for frt_key_copy

Table 221. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1D)	1		FRT_GENERIC_BROWSE	Generic browse
(1E)	UNSIGNED	2	FRT_REQID	Browse request ident.
(20)	ADDRESS	4	FRT_DATA_BUFFER	Temporary area to read record into
(24)	UNSIGNED	4	FRT_DATA_BUFFER_ LENGTH	Length of temporary area
(28)	ADDRESS	4	FRT_UPDATE_TOKEN	TOKEN for read update
This section of the FRTE describes the work area (VSWA or FIOA)				
(2C)	ADDRESS	4	FRT_WORK_AREA_ADDRESS	Address of work area i.e. VSWA or FIOA
(30)	UNSIGNED	4	FRT_WORK_AREA_LENGTH	Work area length
(34)	CHARACTER	8	FRT_WORK_AREA_SUBPOOL	Work area subpool
This section of the FRTE describes SET storage				
(3C)	CHARACTER	8	FRT_SET_CONTROL	Set storage control area.
This section of the FRTE is used by data tables				
(44)	ADDRESS	4	FRT_KEY_COPY	Key copy area
(48)	CHARACTER	12	FRT_DT_RECORD_TOKEN	Table record token
(48)	ADDRESS	4	FRT_FBWA_ADDRESS	Table browse area
(54)	ADDRESS	4	FRT_CF_CONNECTION_ TOKEN	CFDT pool connect token
(58)	FULLWORD	4	FRT_CF_INSTANCE_ NUMBER	CFDT server instance number
This section of the FRTE is temporary and will be removed later				
(5C)	ADDRESS	4	FRT_BCB_ADDRESS	Base Cluster Block addr
This section of the FRTE is used by the log and journal program				
(60)	ADDRESS	4	FRT_FORCE_TOKEN	Token returned from RMRE APPEND & supplied to RMRE FORCE
This section of the FRTE is used by RLS.				
(64)	FULLWORD	4	FRT_WRMI_COUNT	no. of massinsert requests to recoverable ESDS.
(68)	CHARACTER	8	FRT_WRMI_START_TIME	Time of first massinsert to recoverable ESDS.
This section of the FRTE is flags for general use				
(70)	BIT(8)	1	*	Reserved
(70)	CHARACTER	1	*	
(70)	BIT(8)	1	FRT_PRIVILEGED_FLAG	
(70)	1...		FRT_PRIVILEGED	Privileged req
(71)	BIT(8)	1	*	Reserved
(71)	CHARACTER	1	*	
(71)	BIT(8)	1	FRT_ACCMETH_MODULE_ ACTIVE_FLAG	
(71)	1...		FRT_ACCMETH_MODULE_ ACTIVE	access method dependent module is active

Table 221. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(72)	BIT(8)	1	*	Reserved
(73)	BIT(8)	1	*	Reserved

Constants

Table 222.

Len	Type	Value	Name	Description
Constants for FRT_FUNCTION				
1	DECIMAL	1	FRT_READ	Read
1	DECIMAL	3	FRT_READ_UPDATE	Read_Update
1	DECIMAL	5	FRT_WRITE	Write
1	DECIMAL	8	FRT_DELETE	Delete
1	DECIMAL	10	FRT_START_BROWSE	Start Browse

ICE - Interval Control Element

```
CONTROL BLOCK NAME = DFHICEDS
DESCRIPTIVE NAME = CICS TS Interval Control Element (ICE)
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1991, 2016
FUNCTION =
       An ICE is created for each time-dependent request
       received by the interval control program. These ICEs are
       logically chained from CSAICEBA in the CSA in expiration
       time-of-day sequence.
LIFETIME =
       Expiration of a time-ordered request is detected by the
       expired request logic of the interval control program
       running as a CICS system task. The type of service
       represented by the expired ICE is initiated, if all
       resources required for the service are available, and the
       ICE is removed from the chain. If the resources are not
       available, the ICE remains on the chain and another
       attempt to initiate the request service is made the next
       time the expiry logic runs.
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS =
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
EXTERNAL REFERENCES =
    DATA AREAS =
    CONTROL BLOCKS =
    GLOBAL VARIABLES (Macro pass) =
The following fields form part of the product sensitive
programming interface:
ICECHNAD ICERQID ICETRMID ICETRNID ICEXTOD (Marked #)
```

Table 223.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	172	DFHICEDS	ICE control block

Table 223. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	16	ICEPRFX	ICE prefix
(0)	UNSIGNED	2	ICELEN	ICE length
(2)	CHARACTER	6	ICEBLKID	Eye-catcher ('>DFHAP')
(8)	CHARACTER	8	ICEBLKNM	Control block name ('ICE')
(10)	CHARACTER	8	ICEBODY	ICE body
(10)	ADDRESS	4	ICECHNAD	#ICE chain address
(14)	ADDRESS	4	ICETECAA	Timer event area address
(18)	ADDRESS	4	ICETCAAD	TCA address
(18)	CHARACTER	4	ICETRMID	#Symbolic terminal id
(1C)	CHARACTER	4	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
(2E)	1...		ICESTNRL	Expired normally
(2E)	.1..		ICE_BEING_PROCESSED	Being processed
(2E)	..1.		ICESTXTE	Expired on entry
(2E)	...1		ICESTCNL	Cancelled by other task
(2E)	.... 1...		ICESTXTM	Expiration time
(2E)	.... .1..		ICESTRES	Awaiting DS resume
(2E)	.... ..1.		*	Reserved
(2E)	1		ICESTCHN	On chain
(2F)	CHARACTER	1	ICERQCLS	Request identification
(30)	UNSIGNED	4	ICE_UNIQUE_ID	Number used to construct unique request id.
(30)	CHARACTER	4	ICEXTOD	#Exp'n time of day
(34)	CHARACTER	8	ICERQID	#Request identification
(3C)	CHARACTER	8	ICENETSY	Netname/sysid from 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
(4E)	1...		ICESZ	Startcode SZ for FEPI
(4E)	.1..		*	Reserved
(4E)	..1.		*	Reserved
(4E)	...1		ICEDYNTR	Transaction dynamic
(4E)	.... 1...		*	Reserved
(4E)	.... .1..		ICE_DATA_RECOVERABLE	ICE is associated with a recoverable TS queue

Table 223. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4E)	.... ..1.		ICE_ZERO_INTERVAL	Originating request specified an INTERVAL of zero
(4E)	1		ICE_PROTECTED	START was protected
(4F)	BIT(8)	1	ICEFLAG2	Flags
(4F)	1...		ICERTST	Routable START
(4F)	.1..		ICE_TRACK_OVERRIDE_NO	Tracking data for user task not required
(4F)	..1.		ICE_TRACK_OVERRIDE_ YES	Tracking data for system task is required
(4F)	...1		ICE_TG_ACD_IS_CAC	Initial ctx = current
(4F)	.... 1...		ICE_SETUP_REQUIRED	ICE created by APIC
(4F)	.... .1..		*	Reserved
(4F)	.... ..1.		ICE_TG_ODR_WITH_PTD	ODR with PTD
(4F)	1		*	Reserved
(50)	CHARACTER	4	ICECURTR	Current terminal id
(54)	CHARACTER	12	ICE_QUALIFIED_ EXPIRY_TIME	Expiry time and expiry time qualifier
(54)	CHARACTER	8	ICE_EXPIRY_TIMES	Absolute expiry times
(54)	CHARACTER	8	ICE_EXPIRY_STCK	STCK expiry time for an interval ICE
(54)	CHARACTER	8	ICE_EXPIRY_DT	Date and time of expiry for time ICE
(54)	CHARACTER	4	ICE_EXPIRY_DATE	ccyyddd+ expiry date for time ICE
(58)	CHARACTER	4	ICE_EXPIRY_TIME	Timer unit (1/300sec) expiry TOD for time ICE
(5C)	CHARACTER	4	ICETIMST	Expiry time qualifier
(60)	HALFWORD	2	ICE_START_DATA_LEN	Length of data
(62)	CHARACTER	2	*	Reserved
(64)	CHARACTER	8	ICE_CREATION_TIME	Creation time STCK value
(6C)	CHARACTER	8	ICE_TERMINAL_NETNAME	Netname of terminal
(74)	CHARACTER	4	ICESHSYS	Shipped via sysid
(78)	CHARACTER	8	ICE_TOR_NETNAME	Netname of TOR
(80)	ADDRESS	4	ICE_ROUTER_COMM_ADDR	Address of commarea for dynamic routing program
(84)	HALFWORD	2	ICE_ROUTER_COMM_LEN	Length of DYP commarea
(86)	CHARACTER	4	ICEDFTRN	Transaction id for deferred dynamic start request
(8A)	CHARACTER	8	ICEDSRP	Router program name - stored here for ICXM processing to reduce SHRTM calls
(92)	CHARACTER	2	*	RESERVED

Table 223. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)
(A0)	ADDRESS	4	ICE_ADAPTER_ADDR	Addr adapter fields
(A4)	ADDRESS	4	ICE_TG_ACD_ADDR	A(ACD) initial
(A8)	ADDRESS	4	ICE_TG_CAC_ADDR	A(ACD) current
(AC)	CHARACTER	0	*	end of ICE

Constants

Table 224.

Len	Type	Value	Name	Description
Length of the ICE control block				
4	DECIMAL	172	ICEAD	ICE length
Possible values of ICETYPE				
1	HEX	20	ICEWTM	
1	HEX	30	ICEPST	
1	HEX	40	ICEINT	
1	HEX	50	ICEPUT	
Values used in DFHIC get wait requests				
1	DECIMAL	0	ICE_GW_DATA	Resumed due to new data
1	DECIMAL	4	ICE_GW_SHUTDOWN	Resumed due to shutdown

ICUE - Interval Control EXEC Parameter List

```
CONTROL BLOCK NAME = DFHICUEC
DESCRIPTIVE NAME = CICS TS EXEC argument list for Interval
                                Control user exits.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1992, 2013
      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 225.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	128	IC_ADDR_LIST	Addresses of...
(0)	ADDRESS	4	IC_ADDR0	the EID
(4)	ADDRESS	4	IC_ADDR1	TIME or INTERVAL value
			(DELAY, POST or START) SET address (RETRIEVE) REQID value (CANCEL) ABSTIME value (FORMATTIME, ASKTIME)	
(8)	ADDRESS	4	IC_ADDR2	REQID value
			(DELAY, POST or START) LENGTH value (RETRIEVE) YYDDD value (FORMATTIME)	
(C)	ADDRESS	4	IC_ADDR3	TRANSID value (START, CANCEL)
			SET address (POST) 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 225. (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)	
(5C)	ADDRESS	4	IC_ADDR17	EWLM correaltor

Table 225. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(START - internal only)				
(60)	ADDRESS	4	* (5)	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 226.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	9	IC_EID	
(0)	CHARACTER	1	IC_GROUP	X'10' = Interval Control
X'4A' = ASKTIME or FORMATTIME				
(1)	CHARACTER	1	IC_FUNCT	If IC_GROUP = X'10'
X'02' = Asktime X'04' = Delay X'06' = Post X'08' = Start X'0A' = Retrieve X'0C' = Cancel If IC_GROUP = X'4A' X'02' = ASKTIME X'04' = FORMATTIME				
--- The existence bits specify the parameters that are valid for this command. For example, IC_EXIST7 set on indicates that IC_ADDR7 is valid, meaning that it addresses a SYSID value. IC_ADDR0 is always valid and has no existence bit. ---				
(2)	BIT(8)	1	IC_BITS1	
--- IC_EXIST1 is set if IC_ADDR1 is valid. IC_EXIST1 is always set on DELAY, POST, RETRIEVE and CANCEL commands, or on a CANCEL command which specifies REQID. IC_EXIST1 may only be modified by a user exit program invoked for a CANCEL command. ---				
(2)	1...		IC_EXIST1	
(2)	1...		IC_TIME_INTERVAL_V	
(2)	1...		IC_DELAY_TIME_ INTERVAL_V	
(2)	1...		IC_POST_TIME_ INTERVAL_V	
(2)	1...		IC_START_TIME_ INTERVAL_V	
(2)	1...		IC_RETRIEVE_SET_ INTO_V	
(2)	1...		IC_CANCEL_REQID_V	

Table 226. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
---------- IC_EXIST2 is set if IC_ADDR2 is valid. IC_EXIST2 is always set on RETRIEVE commands, or if REQID is specified on a DELAY, POST or START command. IC_EXIST2 may only be modified by a user exit program invoked for a DELAY, POST or START command. ----------				
(2)	.1..		IC_EXIST2	
(2)	.1..		IC_REQID_V	
(2)	.1..		IC_DELAY_REQID_V	
(2)	.1..		IC_POST_REQID_V	
(2)	.1..		IC_START_REQID_V	
(2)	.1..		IC_RETRIEVE_LENGTH_V	
---------- IC_EXIST3 is set if IC_ADDR3 is valid. IC_EXIST3 is always set on START and POST commands, or if TRANSID is specified on a CANCEL command. IC_EXIST3 may only be modified by a user exit program invoked for a CANCEL command. ----------				
(2)	..1.		IC_EXIST3	
(2)	..1.		IC_TRANSID_V	
(2)	..1.		IC_CANCEL_TRANSID_V	
(2)	..1.		IC_START_TRANSID_V	
(2)	..1.		IC_POST_SET_V	
---------- IC_EXIST4 is set if IC_ADDR4 is valid. IC_EXIST4 is set if a START command specifies FROM. IC_EXIST4 may only be modified by a user exit program invoked for a START command. ----------				
(2)	...1		IC_EXIST4	
(2)	...1		IC_START_FROM_V	
---------- IC_EXIST5 is set if IC_ADDR5 is valid. IC_EXIST5 is set if a START command specifies LENGTH IC_EXIST5 may only be modified by a user exit program invoked for a START command. ----------				
(2)	.... 1...		IC_EXIST5	
(2)	.... 1...		IC_START_LENGTH_V	
---------- IC_EXIST6 is set if IC_ADDR6 is valid. IC_EXIST6 is set if a START command specifies TERMID IC_EXIST6 may only be modified by a user exit program invoked for a START command. ----------				
(2)	.... .1..		IC_EXIST6	
(2)	.... .1..		IC_START_TERMID_V	

Table 226. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
---------- IC_EXIST7 is set if IC_ADDR7 is valid. IC_EXIST7 is set if a START or CANCEL command specifies SYSID. IC_EXIST7 may only be modified by a user exit program invoked for a START or CANCEL command. ----------				
(2)	.... ..1.		IC_EXIST7	
(2)	.... ..1.		IC_SYSID_V	
(2)	.... ..1.		IC_CANCEL_SYSID_V	
(2)	.... ..1.		IC_START_SYSID_V	
---------- IC_EXIST8 is set if IC_ADDR8 is valid. IC_EXIST8 is set if a START or RETRIEVE command specifies RTRANSID. IC_EXIST8 may only be modified by a user exit program invoked for a START or RETRIEVE command. ----------				
(2)	1		IC_EXIST8	
(2)	1		IC_RTRANSID_V	
(2)	1		IC_START_RTRANSID_V	
(2)	1		IC_RETRIEVE_ RTRANSID_V	
IC_BITS2 defines existence bits for keywords containing values.				
(3)	BIT(8)	1	IC_BITS2	
---------- IC_EXIST9 is set if IC_ADDR9 is valid. IC_EXIST9 is set if a START or RETRIEVE command specifies RTERMID. IC_EXIST9 is set if a FORMATTIME command specifies DATESEP. IC_EXIST9 may only be modified by a user exit program invoked for a START or RETRIEVE command. ----------				
(3)	1...		IC_EXIST9	
(3)	1...		IC_RTERMID_V	
(3)	1...		IC_START_RTERMID_V	
(3)	1...		IC_RETRIEVE_RTERMID_V	
(3)	1...		IC_FORMATTIME_ DATESEP_V	
---------- IC_EXISTA is set if IC_ADDRA is valid. IC_EXISTA is set if a START or RETRIEVE command specifies QUEUE. IC_EXISTA may only be modified by a user exit program invoked for a START or RETRIEVE command. ----------				
(3)	.1..		IC_EXISTA	
(3)	.1..		IC_QUEUE_V	
(3)	.1..		IC_START_QUEUE_V	
(3)	.1..		IC_RETRIEVE_QUEUE_V	

Table 226. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
---------- IC_EXISTB is set if IC_ADDRB is valid. IC_EXISTB is set if a DELAY, POST or START command specifies HOURS. IC_EXISTB may only be modified by a user exit program invoked for a DELAY, POST or START command. ----------				
(3)	..1.		IC_EXISTB	
(3)	..1.		IC_HOURS_V	
(3)	..1.		IC_DELAY_HOURS_V	
(3)	..1.		IC_POST_HOURS_V	
(3)	..1.		IC_START_HOURS_V	
---------- IC_EXISTC is set if IC_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. ----------				
(3)	...1		IC_EXISTC	
(3)	...1		IC_MINUTES_V	
(3)	...1		IC_DELAY_MINUTES_V	
(3)	...1		IC_POST_MINUTES_V	
(3)	...1		IC_START_MINUTES_V	
---------- IC_EXISTD is set if IC_ADDRD is valid. IC_EXISTD is set if a DELAY, POST or START command specifies SECONDS. IC_EXISTD may only be modified by a user exit program invoked for a DELAY, POST or START command. ----------				
(3)	.... 1...		IC_EXISTD	
(3)	.... 1...		IC_SECONDS_V	
(3)	.... 1...		IC_DELAY_SECONDS_V	
(3)	.... 1...		IC_POST_SECONDS_V	
(3)	.... 1...		IC_START_SECONDS_V	
---------- IC_EXISTE is set if IC_ADDRE is valid. IC_EXISTE is set if a START command specifies a USERID ----------				
(3)	.... .1..		IC_EXISTE	
(3)	.... .1..		IC_START_USERID_V	
---------- IC_EXISTF is set if IC_ADDRF is valid IC_EXISTF is set if a start is for it's PF ----------				
(3)	.... ..1.		IC_EXISTF	PF starts
(3)	.... ..1.		IC_START_SYSNET_V	

Table 226. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(3)	.... ..1.		IC_DELAY_MILLISECS_V	
---------- 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. ----------				
(3)	1		IC_EXIST10	BREXIT(value)
(3)	1		IC_START_BREXIT_V	
(3)	1		IC_FORMATTIME_ TIMESEP_V	
---------- EIDOPT4 Any changes made by the exit are ignored ----------				
(4)	BIT(8)	1	IC_EIDOPT4	
(4)	1...		IC_SYSEIB	Program uses SYSEIB
(4)	.1..		IC_NOEDF	NOEDF specified
(4)	..1.		IC_NOHANDLE	NOHANDLE specified
(4)	...1 111.		*	Language identifying bits
(4)	1		*	Reserved
---------- 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	
(5)	1...		IC_FORMATTIME_ ABSTIME_X	ABSTIME specified on a FORMATTIME command.
(5)	1...		IC_ASKTIME_ABSTIME_X	ABSTIME specified on an ASKTIME command.
(5)	.1..		IC_FORMATTIME_YYDDD_X	YYDDD specified on a FORMATTIME command.
(5)	..1.		IC_FORMATTIME_ YYMMDD_X	YYMMDD specified on a FORMATTIME command.
(5)	...1		IC_FORMATTIME_ YYDDMM_X	YYDDMM specified on a FORMATTIME command.
(5)	.... 1...		IC_FORMATTIME_ DDMMYY_X	DDMMYY specified on a FORMATTIME command.
(5)	.... .1..		IC_FORMATTIME_ MMDDYY_X	MMDDYY specified on a FORMATTIME command.
(5)	.... ..1.		IC_FORMATTIME_DATE_X	DATE specified on a FORMATTIME command.

Table 226. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5)	1		IC_RETRIEVE_SET_X	SET (not INTO) specified on a RETRIEVE command. This bit may NOT be modified by a user exit.
(5)	1		IC_START_ATTACH_X	ATTACH specified on a START command. This bit may NOT be modified by a user exit.
(5)	1		IC_FORMATTIME_ DATEFORM_X	DATEFORM specified on a FORMATTIME command.
---------- EIDOPT6 ----------				
(6)	BIT(8)	1	IC_EIDOPT6	
(6)	1...		IC_START_ROUTABLE	
(6)	1...		IC_FORMATTIME_ DATESEP_X	DATESEP specified on a FORMATTIME command.
(6)	.1..		IC_FORMATTIME_ DAYCOUNT_X	DAYCOUNT specified on a FORMATTIME command.
(6)	..1.		IC_FORMATTIME_ DAYOFWEEK_X	DAYOFWEEK specified on a FORMATTIME command.
(6)	...1		IC_START_FMH_X	FMH specified on a START cmd.
(6)	...1		IC_FORMATTIME_ DAYOFMONTH_X	DAYOFMONTH specified on a FORMATTIME command.
(6)	.... 1...		IC_FORMATTIME_ MONTHOFYEAR_X	MONTHOFYEAR specified on a FORMATTIME command.
(6)	.... .1..		IC_FORMATTIME_YEAR_X	YEAR specified on a FORMATTIME command.
(6)	.... ..1.		IC_START_PROTECT_X	PROTECT specified on a START command.
(6)	.... ..1.		IC_FORMATTIME_TIME_X	TIME specified on a FORMATTIME command.
(6)	1		IC_START_NOCHECK_X	NOCHECK specified on a START command.
(6)	1		IC_FORMATTIME_ TIMESEP_X	TIMESEP specified on a FORMATTIME command.
---------- EIDOPT7 ----------				
(7)	BIT(8)	1	IC_EIDOPT7	
(7)	1...		IC_FORMATTIME_ YYYYDDD_X	YYYYDDD specified on a FORMATTIME command.
(7)	.1..		IC_FORMATTIME_ YYYYMMDD_X	YYYYMMDD specified on a FORMATTIME command.

Table 226. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7)	..1.		IC_START_HEADER_X	RTRANSID, RTERMID, FMH and/or QUEUE specified on a START command.
(7)	..1.		IC_FORMATTIME_ YYYYDDMM_X	YYYYDDMM specified on a FORMATTIME command.
(7)	...1		IC_START_DATA_X	FROM, RTRANSID, RTERMID, FMH and/or QUEUE specified on a START command.
(7)	...1		IC_FORMATTIME_ DDMMYYYY_X	DDMMYYYY specified on a FORMATTIME command.
(7)	.... 1...		IC_DELAY_TIME_X	TIME (not INTERVAL) specified on a DELAY command.
(7)	.... 1...		IC_POST_TIME_X	TIME (not INTERVAL) specified on a POST command.
(7)	.... 1...		IC_START_TIME_X	TIME (not INTERVAL) specified on a START command.
(7)	.... 1...		IC_RETRIEVE_WAIT_X	WAIT specified on a RETRIEVE command.
(7)	.... 1...		IC_FORMATTIME_ MMDDYYYY_X	MMDDYYYY specified on a FORMATTIME command.
(7)	.... .1..		IC_CANCEL_REQID_X	REQID specified on a CANCEL command.
(7)	.... .1..		IC_DELAY_REQID_X	REQID specified on a DELAY command.
(7)	.... .1..		IC_POST_REQID_X	REQID specified on a POST command.
(7)	.... .1..		IC_START_REQID_X	REQID specified on a START command.
(7)	.... .1..		IC_FORMATTIME_ FULLDATE_X	FULLDATE specified on a FORMATTIME command.
(7)	.... ..1.		*	Reserved
(7)	1		IC_START_TERMID_X	TERMID specified on a START command.
---------- EIDOPT8 ----------				
(8)	BIT(8)	1	IC_EIDOPT8	
(8)	1...		IC_FORAFTER_X	Command specifies FOR or AFTER
(8)	1...		IC_DELAY_FOR_X	FOR (not UNTIL) specified on a DELAY command.
(8)	1...		IC_POST_AFTER_X	AFTER (not AT) specified on a DELAY command.

Table 226. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8)	1...		IC_START_AFTER_X	AFTER (not AT) specified on a START command.
(8)	.1..		IC_ATUNTIL_X	Command specifies AT or UNTIL
(8)	.1..		IC_DELAY_UNTIL_X	UNTIL (not FOR) specified on a DELAY command.
(8)	.1..		IC_POST_AT_X	AT (not AFTER) specified on a POST command.
(8)	.1..		IC_START_AT_X	AT (not AFTER) specified on a START command.
(8)	..1.		*	Reserved
(8)	...1		IC_START_BREXIT_X	START BREXIT
(8)	.... 1...		IC_START_BRDATA_X	
(8)	.... .1..		IC_START_ BRDATALENGTH_X	BRDATALENGTH *
(8)	.... ..1.		IC_START_CHANNEL_X	
(8)	1		IC_START_CORREL_X	

```
The following definitions are for the rest of the arguments in
the EXEC parameter list, addressed by IC_ADDR1 -
IC_ADDR1E in IC_ADDR_LIST.
------------------------------------------------------------------
             IC_DATA1 - Addressed by IC_ADDR1
------------------------------------------------------------------
```

Table 227.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_DATA1	
(0)	CHARACTER	8	*	

Table 228.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_INTERVAL	Value of INTERVAL
(0)	CHARACTER	4	IC_START_INTERVAL	
(0)	CHARACTER	4	IC_DELAY_INTERVAL	
(0)	CHARACTER	4	IC_POST_INTERVAL	
(0)	CHARACTER	4	IC_TIME	Value of TIME
(0)	CHARACTER	4	IC_START_TIME	
(0)	CHARACTER	4	IC_DELAY_TIME	
(0)	CHARACTER	4	IC_POST_TIME	

Table 229.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_CANCEL_REQID	Value of REQID on
(0)	CHARACTER	8	*	a CANCEL command.

Table 230.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_RETRIEVE_INTO	Value of DATA on a
(0)	CHARACTER	*	*	RETRIEVE INTO cmd

Table 231.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_RETRIEVE_SET	Pointer for SET on
(0)	ADDRESS	4	*	a RETRIEVE command

Table 232.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_FORMATTIME_ABSTIME	
(0)	CHARACTER	8	*	

Table 233.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_ASKTIME_ABSTIME	
(0)	CHARACTER	8	*	

```
-----------------------------------------------------------------
            IC_DATA2 - Addressed by IC_ADDR2
-----------------------------------------------------------------
```

Table 234.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_DATA2	
(0)	CHARACTER	8	*	

Table 235.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_REQID	Value of REQID
(0)	CHARACTER	8	IC_DELAY_REQID	Value of REQID on a DELAY cmd
(0)	CHARACTER	8	IC_POST_REQID	Value of REQID on a POST cmd
(0)	CHARACTER	8	IC_START_REQID	Value of REQID on a START cmd

Table 236.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	IC_RETRIEVE_LENGTH	Value of LENGTH on a RETRIEVE cmd
(0)	HALFWORD	2	*	

Table 237.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_YYDDD	
(0)	CHARACTER	*	*	

```
-----------------------------------------------------------------
            IC_DATA3 - Addressed by IC_ADDR3
-----------------------------------------------------------------
```

Table 238.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA3	
(0)	ADDRESS	4	IC_POST_SET	SET address on a POST command
(0)	CHARACTER	4	IC_TRANSID	Value of TRANSID
(0)	CHARACTER	4	IC_CANCEL_TRANSID	Value of TRANSID on a CANCEL cmd
(0)	CHARACTER	4	IC_START_TRANSID	Value of TRANSID on a START cmd

Table 239.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_YYMMDD	
(0)	CHARACTER	*	*	

```
-----------------------------------------------------------------
            IC_DATA4 - Addressed by IC_ADDR4
-----------------------------------------------------------------
```

Table 240.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA4	
(0)	CHARACTER	*	IC_START_FROM	Data on a START command

Table 241.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_YYDDMM	
(0)	CHARACTER	*	*	

```
-----------------------------------------------------------------
            IC_DATA5 - Addressed by IC_ADDR5
-----------------------------------------------------------------
```

Table 242.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	IC_DATA5	
(0)	HALFWORD	2	IC_START_LENGTH	Length of data on a START cmd

Table 243.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_DDMMYY	
(0)	CHARACTER	*	*	

```
------------------------------------------------------------------
            IC_DATA6 - Addressed by IC_ADDR6
------------------------------------------------------------------
```

Table 244.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA6	
(0)	CHARACTER	4	IC_START_TERMID	Value of TERMID on a START cmd

Table 245.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_MMDDYY	
(0)	CHARACTER	*	*	

```
------------------------------------------------------------------
            IC_DATA7 - Addressed by IC_ADDR7
------------------------------------------------------------------
```

Table 246.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA7	
(0)	CHARACTER	4	IC_SYSID	Value of SYSID
(0)	CHARACTER	4	IC_START_SYSID	Value of SYSID on a START cmd
(0)	CHARACTER	4	IC_CANCEL_SYSID	Value of SYSID on a CANCEL cmd

Table 247.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_DATE	
(0)	CHARACTER	*	*	

```
------------------------------------------------------------------
            IC_DATA8 - Addressed by IC_ADDR8
------------------------------------------------------------------
```

Table 248.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA8	
(0)	CHARACTER	4	IC_RTRANSID	Value of RTRANSID
(0)	CHARACTER	4	IC_START_RTRANSID	Value of RTRANSID on a START cmd

Table 248. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	4	IC_RETRIEVE_RTRANSID	Value of RTRANSID on a RETRIEVE cmd

Table 249.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	IC_FORMATTIME_ DATEFORM	
(0)	CHARACTER	6	*	

```
------------------------------------------------------------------
            IC_DATA9 - Addressed by IC_ADDR9
------------------------------------------------------------------
```

Table 250.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA9	
(0)	CHARACTER	4	IC_RTERMID	Value of RTERMID
(0)	CHARACTER	4	IC_START_RTERMID	Value of RTERMID on a START cmd
(0)	CHARACTER	4	IC_RETRIEVE_RTERMID	Value of RTERMID on a RETRIEVE cmd

Table 251.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	IC_FORMATTIME_DATESEP	
(0)	CHARACTER	1	*	

```
------------------------------------------------------------------
            IC_DATA10 - Addressed by IC_ADDRA
------------------------------------------------------------------
```

Table 252.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_DATA10	
(0)	CHARACTER	8	IC_QUEUE	Value of QUEUE
(0)	CHARACTER	8	IC_START_QUEUE	Value of QUEUE on a START cmd
(0)	CHARACTER	8	IC_RETRIEVE_QUEUE	Value of QUEUE on a RETRIEVE cmd

Table 253.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_ DAYCOUNT	
(0)	FULLWORD	4	*	

```
------------------------------------------------------------------
            IC_DATA11 - Addressed by IC_ADDRB
------------------------------------------------------------------
```

Table 254.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA11	
(0)	CHARACTER	4	IC_HOURS	Value of HOURS
(0)	CHARACTER	4	IC_DELAY_HOURS	Value of HOURS on a DELAY cmd
(0)	CHARACTER	4	IC_POST_HOURS	Value of HOURS on a POST cmd
(0)	CHARACTER	4	IC_START_HOURS	Value of HOURS on a START cmd

Table 255.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_ DAYOFWEEK	
(0)	FULLWORD	4	*	

```
------------------------------------------------------------------
             IC_DATA12 - Addressed by IC_ADDRC
------------------------------------------------------------------
```

Table 256.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA12	
(0)	CHARACTER	4	IC_MINUTES	Value of MINUTES
(0)	CHARACTER	4	IC_DELAY_MINUTES	Value of MINUTES on a DELAY cmd
(0)	CHARACTER	4	IC_POST_MINUTES	Value of MINUTES on a POST cmd
(0)	CHARACTER	4	IC_START_MINUTES	Value of MINUTES on a START cmd

Table 257.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_ DAYOFMONTH	
(0)	FULLWORD	4	*	

```
------------------------------------------------------------------
             IC_DATA13 - Addressed by IC_ADDRD
------------------------------------------------------------------
```

Table 258.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA13	
(0)	CHARACTER	4	IC_SECONDS	Value of SECONDS
(0)	CHARACTER	4	IC_DELAY_SECONDS	Value of SECONDS on a DELAY cmd
(0)	CHARACTER	4	IC_POST_SECONDS	Value of SECONDS on a POST cmd

Table 258. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	4	IC_START_SECONDS	Value of SECONDS on a START cmd

Table 259.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_ MONTHOFYEAR	
(0)	FULLWORD	4	*	

```
-------------------------------------------------------------
            IC_DATA14 - Addressed by IC_ADDRE
-------------------------------------------------------------
```

Table 260.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_DATA14	
(0)	CHARACTER	8	IC_START_USERID	Value of USERID on START command

Table 261.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_YEAR	
(0)	FULLWORD	4	*	

```
-------------------------------------------------------------
            IC_DATA15 - Addressed by IC_ADDRF
-------------------------------------------------------------
```

Table 262.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_DATA15	
(0)	CHARACTER	8	IC_START_SYSNET	Value of SYSNET
(0)	CHARACTER	4	IC_DELAY_MILLISECS	MILLISECS on DELAY

Table 263.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_FORMATTIME_TIME	
(0)	CHARACTER	*	*	

```
-------------------------------------------------------------
            IC_DATA16 - Addressed by IC_ADDR10
-------------------------------------------------------------
```

Table 264.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_DATA16	
(0)	CHARACTER	8	IC_START_BREXIT	Value BREXIT

Table 265.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	IC_FORMATTIME_TIMESEP	
(0)	CHARACTER	1	*	

```
------------------------------------------------------
            IC_DATA17 - Addressed by IC_ADDR11
------------------------------------------------------
```

Table 266.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA17	
(0)	CHARACTER	*	IC_FORMATTIME_YYYYDDD	

```
------------------------------------------------------
            IC_DATA18 - Addressed by IC_ADDR12
------------------------------------------------------
```

Table 267.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA18	
(0)	CHARACTER	*	IC_FORMATTIME_ YYYYMMDD	

```
------------------------------------------------------
            IC_DATA19 - Addressed by IC_ADDR13
------------------------------------------------------
```

Table 268.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA19	
(0)	CHARACTER	*	IC_FORMATTIME_ YYYYDDMM	

```
------------------------------------------------------
            IC_DATA20 - Addressed by IC_ADDR14
------------------------------------------------------
```

Table 269.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA20	
(0)	CHARACTER	*	IC_FORMATTIME_ DDMMYYYY	

```
------------------------------------------------------
            IC_DATA21 - Addressed by IC_ADDR15
------------------------------------------------------
```

Table 270.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA21	
(0)	CHARACTER	*	IC_FORMATTIME_ MMDDYYYY	

```
-------------------------------------------------------
            IC_DATA22 - Addressed by IC_ADDR16
-------------------------------------------------------
```

Table 271.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA22	
(0)	CHARACTER	*	IC_FORMATTIME_ FULLDATE	

```
-------------------------------------------------------
            IC_DATA23 - Addressed by IC_ADDR17
-------------------------------------------------------
```

Table 272.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA23	
(0)	CHARACTER	*	IC_EWLM_CORRELATOR	

```
-------------------------------------------------------------
            IC_DATA29 - Addressed by IC_ADDR1D
-------------------------------------------------------------
```

Table 273.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA29	
(0)	CHARACTER	*	IC_START_BRDATA	Address BRDATA

```
-------------------------------------------------------------
            IC_DATA30 - Addressed by IC_ADDR1E
-------------------------------------------------------------
```

Table 274.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA30	
(0)	FULLWORD	4	IC_START_BRDATALENGTH	Value BRDATALENGTH

```
-------------------------------------------------------------
            IC_DATA31 - Addressed by IC_ADDR1F
-------------------------------------------------------------
```

Table 275.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	IC_DATA31	
(0)	CHARACTER	16	IC_START_CHANNEL	Name of channel

Constants

Table 276.

Len	Type	Value	Name	Description
Equate for IC_GROUP. All Interval Control requests have group code '10' except ASKTIME and FORMATTIME which have group code '4A'				

Table 276. (continued)

Len	Type	Value	Name	Description
1	HEX	10	IC_INTERVAL_GROUP	
1	HEX	4A	IC_ABSTIME_GROUP	
Equates for IC_FUNCT values.				
1	HEX	02	IC_ASKTIME	Asktime
1	HEX	04	IC_FORMATTIME	Formattime
1	HEX	04	IC_DELAY	Delay
1	HEX	06	IC_POST	Post
1	HEX	08	IC_START	Start
1	HEX	0A	IC_RETRIEVE	Retrieve
1	HEX	0C	IC_CANCEL	Cancel
Start of General Use Programming Interface. Equates for EIBRCODE values used by Interval Control.				
1	HEX	00	IC_OK_EIBRCODE	OK
1	HEX	01	IC_ENDDATA_EIBRCODE	ENDDATA
1	HEX	04	IC_IOERR_EIBRCODE	IOERR
1	HEX	11	IC_TRANSIDERR_EIBRCODE	
				TRANSIDERR
1	HEX	12	IC_TERMIDERR_EIBRCODE	
				TERMIDERR
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

Table 276. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	17	IC_IOERR_EIBRESP	IOERR
1	DECIMAL	22	IC_LENGERR_EIBRESP	LENGERR
1	DECIMAL	27	IC_PGMIDERR_EIBRESP	PGMIDERR
1	DECIMAL	28	IC_TRANSIDERR_EIBRESP	
				TRANSIDERR
1	DECIMAL	29	IC_ENDDATA_EIBRESP	ENDDATA
1	DECIMAL	31	IC_EXPIRED_EIBRESP	EXPIRED
1	DECIMAL	53	IC_SYSIDERR_EIBRESP	SYSIDERR
1	DECIMAL	54	IC_ISCINVREQ_EIBRESP	ISCINVREQ
1	DECIMAL	56	IC_ENVDEFERR_EIBRESP	ENVDEFERR
1	DECIMAL	69	IC_USERIDERR_EIBRESP	USERIDERR
1	DECIMAL	70	IC_NOTAUTH_EIBRESP	NOTAUTH
1	DECIMAL	121	IC_RESUNAVAIL_EIBRESP	
				RESUNAVAIL
1	DECIMAL	122	IC_CHANNELERR_EIBRESP	
				CHANNELERR
Equates for EIBRESP2 values used by Interval Control.				
1	DECIMAL	0	IC_OK_EIBRESP2	OK
1	DECIMAL	1	IC_CHANNEL_INVCHARS_ EIBRESP2	
				Invalid chars in channel name
1	DECIMAL	1	IC_ROUTER_REJECTED_ EIBRESP2	
				Router rejected start request
1	DECIMAL	4	IC_INVHRS_EIBRESP2	Hours out of range
1	DECIMAL	5	IC_INVMINS_EIBRESP2	Minutes out of range
1	DECIMAL	6	IC_INVSECS_EIBRESP2	Seconds out of range
1	DECIMAL	22	IC_INVMSECS_EIBRESP2	millisecs out of range
1	DECIMAL	7	IC_NOTAUTH_EIBRESP2	Request not authorised
1	DECIMAL	8	IC_USERID_NOT_DEFINED_ EIBRESP2	
				Userid not known
1	DECIMAL	9	IC_SURROGATE_FAILURE_ EIBRESP2	
				Surrogate check failed
1	DECIMAL	10	IC_USERID_NOT_ DETERMINED_EIBRESP2	
				CICS is unable to determine whether the userid exists
1	DECIMAL	18	IC_SECURITY_INACTIVE_ EIBRESP2	
				SEC=NO specified on SIT

Table 276. (continued)

Len	Type	Value	Name	Description
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	
				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 *-* *-*-*-**-**-**-**-**-**-*-*-*

IMSDS - Function request shipping message

```
CONTROL BLOCK NAME = DFHIMSDS
NAME OF MATCHING PLAS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Function Request Shipping Message
                               Insert Area.
    Licensed Materials - Property of IBM
     Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1981, 1991
FUNCTION =
          Description of message insert information chained off
          ISC 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 277.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHIMSDS	
(0)	FULLWORD	4		SAA (CLASS=CONTROL)
(4)	ADDRESS	4	(10)	Parm address list for MGP
(2C)	BITSTRING	6	ISMDESC	Message descriptor for MGP
(32)	ADDRESS	2		Reserved
(2E)	HALFWORD	2	ISMMSGNO	Message number
(34)	CHARACTER	6	ISMISTM	LL & ISC terminal
(3A)	CHARACTER	6	ISMRSYS	LL & remote system id
(40)	CHARACTER	6	ISMTRAN	LL & transaction id
(46)	CHARACTER	6	ISMOPTM	LL & operator's terminal
(4C)	CHARACTER	5	ISMOPID	LL & operator id
(51)	CHARACTER	7	ISMTKNO	LL & task number (packed)
(58)	CHARACTER	11	ISMTIME	LL & time hh:mm:sss
(63)	CHARACTER	4	ISMMODID	LL & module id
(67)	CHARACTER	41	ISMUOWID (0)	Full formatted UOW id def
(67)	HALFWORD	2	ISMUWLEN	UOW length excluding this field
(69)	CHARACTER	17	ISMUWLUN	LU name (NB variable length)
length of the variable length field ISMUWLUN is less than 17.				
(7A)	CHARACTER	3	ISMUWC1	A constant
(7D)	CHARACTER	12	ISMUWTKN	Token

Table 277. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(89)	CHARACTER	2	ISMUWC2	A constant
(8B)	CHARACTER	5	ISMUWSEQ	Sequence number
(8B)	1..1		ISMEND	"*"
(8B)	.1.1 11..		ISMKPL	"ISMEND-*" Length to be keypointed
(34)	CHARACTER	1	ISMKP	Bytes to be keypointed
(34)	1..1		ISMLEN	"ISMEND-DFHIMSDS" Dsect length

IRRDS - Interregion Session Recovery

```
CONTROL BLOCK NAME = DFHIRRDS
NAME OF MATCHING PLS CONTROL BLOCK = None.
DESCRIPTIVE NAME = CICS TS Interregion Session Recovery
                                Data Stream.
FUNCTION =
       This DSECT describes the datastream sent by both primary
       and secondary at the start of an IRC session. The datastream
       is used to perform session recovery immediately after a
       new IRC connection has been established between two
       systems.
```

Table 278.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHIRRDS	
(0)	BITSTRING	1	IRRSTRT (0)	START
(0)	BITSTRING	4	IRFLGS (0)	FLAGS
(0)	BITSTRING	1	IRFLG1	FLAG BYTE 1
(0)	1...		IRFLGFX	"X'80'" .. FAST PATH XFORMER SUPPORTED
(0)	.1..		IRFLFACC	"X'40'" .. Revised State-after-Rollback rules are required
(0)	..1.		IRFLBSND	"X'20'" .. Sender is 'new batch'
(0)	...1		IRFLBREJ	"X'10'" .. Sender is non-batch connection reject
(0)	.... 1...		IRFLCONT	"X'08'" .. More bind data after IRLEN (see IRCONT DSECT below)
(0)	.... .1..		IRFLRSYN	"X'04'" .. Sender is capable of new (LU62-style) resync
(0)	.... ..1.		IRFLFCTK	"X'02'" .. Sender can handle FC Tokens
(0)	1		IRFRRS	"X'01'" .. Sender supports transactional EXCI
(1)	BITSTRING	1	IRFLG2	

Table 278. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	1...		IRFLRTST	"X'80'" .. Routable START support
(1)	.1..		IRFLRQST	"X'40'" .. Requeststreams
(1)	..1.		IRFLCHAN	"X'20'" .. Sender can handle Channels
(1)	...1		IRFLEWLM	"X'10'" .. Sender can handle EWLM correlators
(1)	.... 1...		IRFLTXBK	"X'08'" .. TEXCI BACKOUT AFTER ABEND
	EQU X'04' Reserved - Do not use			
(1)	.... ..1.		IRFLICRX	"X'02'" .. Sender can handle ICRX's
(1)	1		IRFLODRP	"X'01'" .. Sender can handle Origin Data
(2)	BITSTRING	1	IRFLG3	
(2)	1...		IRFLSTIX	"X'80'" .. Sender supports ICRX on start
(2)	.1..		IRFLACTX	"X'40'" .. Sender supports initial app ctxt
(2)	..1.		IRFLCACX	"X'20'" .. Sender supports current app ctxt
(2)	...1		IRFLXCHAN	"X'10'" .. Sender can handle Tran Channels
(3)	BITSTRING	1		RESERVED
(4)	BITSTRING	4	IRRELNO	SENDER'S RELEASE LEVEL (SAME FORMAT AS ISC RLSE NO IN USER AREA IN BIND)
(8)	CHARACTER	4	IRSNAM	SENDER'S NAME
(C)	CHARACTER	4	IRRNAM	NAME TO WHICH SENDER WAS CONNECTED IN PREV. SESSION (BLANKS IF NONE OR UNKNWN)
(10)	BITSTRING	2	IRLONO	LOGICAL OUTBOUND SEQUENCE NO. AT END OF LAST SESSION (ZEROS IF COLD-STARTED)
(12)	BITSTRING	2	IRLINO	LOGICAL OUTBOUND SEQUENCE NO. AT END OF LAST SESSION (ZEROS IF COLD-STARTED)
(12)	...1 .1..		IRLEN	"*-IRRSTRT" LENGTH OF DATASTREAM

```
The IRCONT DSECT describes a bind continuation element.
The presence of such an element is signalled by the
setting of the IRFLCONT flag in IRFLGS (see the DFHIRRDS
DSECT above). The element appears immediately after
the bind data (ie at offset IRLEN from DFHIRRDS).
```

Table 279.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	IRCONT	
(0)	HALFWORD	2	IRCONT_LTH	lth of data item (including lth field itself)
(2)	HALFWORD	2	IRCONT_TYPE	type of data item
(2)	1		IRCONT_JOBID	"X'01'" type value for jobid data item
(2)	.... ..1.		IRCONT_XLN	"X'02'" type value for bind XLN data
(4)	BITSTRING	1	IRCONT_DATA (0)	start of data proper
(2)	BITSTRING	1	IRCONT_FLAG	flag at start of type field
(2)	1...		IRCONT_MORE	"X'80'" IRCONT_FLAG value indicating presence of another data item

IRC - Interregion control blocks

```
CONTROL BLOCK NAME = DFHIRSPS
DESCRIPTIVE NAME = CICS TS Interregion Control Blocks
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1980, 2014
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 280.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	SLCB	
(0)	FULLWORD	4	SLCBLECB	Logon (Master) ECB
(4)	FULLWORD	4	SLCBSCAC	SCACB Address
(8)	CHARACTER	4	SLCBSTTS	Status bytes
(8)	CHARACTER	1	SLCBSTS1	Status byte 1

Table 280. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
FLAGS IN STATUS BYTE 1: LCBSTTS1 OR SLCBSTS1				
(8)	1...		LCBFAM31	'80'X User of LCB is AMODE(31)
(8)	.1..		LCBFQUIP	'40'X Normal quiesce in progress
(8)	..1.		LCBFQUIM	'20'X Immediate quiesce
(8)	...1		LCBFSPST	'10'X System Post
(8)	.... 1...		LCBFBTCH	'08'X Batching of opsys
(8)	.... .1..		LCBFBTCP	'04'X Batch=Postexit
(8)	.... ..1.		LCBFBEXL	'02'X Exit Loaded
(8)	1		LCBFUNIQ	'01'X LCB corresponds to a UNIQUE user
(9)	CHARACTER	1	SLCBSTS2	Status byte 2
FLAGS IN STATUS BYTE 2: LCBSTTS2 OR SLCBSTS2				
(9)	1...		LCBFNWCN	'80'X New connector: scan ECBs
(9)	.1..		LCBFQUCM	'40'X Quiesce complete
(9)	..1.		LCBFSWFS	'20'X Switch First received
(9)	...1		LCBFDSCR	'10'X Disconnect received
(9)	.... 1...		LCBFJOIN	'08'X IXCJOIN may have been done
(9)	.... .1..		LCBFLVIP	'04'X IXCLEAVE in flight
(9)	11		*	Reserved
(A)	BIT(8)	1	SLCBSTS3	Status byte 3
(B)	CHARACTER	1	SLCBSTS4	Status byte 4
FLAGS IN STATUS BYTE 4: LCBSTTS4 OR SLCBSTS2				
(B)	1...		LCBSRBSE	'80'X Serialization with work queue processor
(B)	.111 1111		*	Reserved
(C)	ADDRESS	4	SLCBLCB	Address of LCB

```
     Subsystem Connection Control Block
This DSECT defines the SCCB, the control block which
contains the information about a particular connection
which can be accessed by the subsystem level of inter-
region communication function.
First define the format of the fields in the SCCB.
```

Table 281.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	96	SCCB	
(0)	FULLWORD	4	SCCBDECB	Dependent ECB
(4)	FULLWORD	4	SCCBTHNM	Thread number
(8)	FULLWORD	4	SCCBTHID	Thread identification
(C)	CHARACTER	4	SCCBSTAT	Status bytes

Table 281. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C)	CHARACTER	1	SCCBSTS1	Status byte 1
(C)	1...		CCBFNWCN	'80'X New connecter
(C)	.1..		*	'40'X Was CCBFCNTR - now reserved
(C)	..1.		CCBFSWDT	'20'X Data passed with switch
(C)	...1		CCBFSWFS	'10'X Switch First received
(C)	.... 1...		CCBFDTNF	'08'X Data doesn't fit
(C)	.... .1..		CCBFDWP	'04'X Disconnect when possible
(C)	.... ..1.		CCBFSWIT	'02'X Invalid target for switch
(C)	.... ..1.		CCBFUNEX	'02'X Unexpected failure in SRB/subtask
(C)	1		CCBIRCWT	'01'X This side is waiting for a session recovery response from the other side.
(D)	CHARACTER	1	SCCBSTS2	Status byte 2
FLAGS IN STATUS BYTE 2:				
(D)	1...		CCBFTERM	'80'X Other side terminated normally
(D)	.1..		CCBFABTM	'40'X Other side terminated abnormally
(D)	..1.		CCBFABTQ	'20'X Abnormal termination due to Quiesce
(D)	...1		CCBFCNCT	'10'X The connection is currently connected
(D)	.... 1...		CCBFFTRM	'08'X Other side's normal disc. requests FORGET
(D)	.... .1..		CCBNOTFY	'04'X Notify request
(E)	BIT(8)	1	SCCBSTS3	Status byte 3
(E)	1...		CCBFPRIM	'80'X This is a primary SCCB
(F)	BIT(8)	1	SCCBSTS4	Status byte 4
(10)	FULLWORD	4	SCCBDLTH	Total length of data passed
(14)	FULLWORD	4	SCCBSLTH	Target area length
(18)	ADDRESS	4	SCCBAREA	Target area address
(1C)	CHARACTER	8	SCCBCNAM	Connector LOGON name
(24)	FULLWORD	4	SCCBUSER	User field
(28)	CHARACTER	8	SCCBSEC	Security user field
(30)	ADDRESS	4	SCCBELA	SCCB associated work element
(34)	ADDRESS	4	*	Reserved

Table 281. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 282.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	SCACB	
(0)	FULLWORD	4	SCACBNUM	Number of entries in SCACB
(4)	FULLWORD	4	SCACBENT	Start of entries
(4)	FULLWORD	4	SCACBEND	End marker = X'FFFFFFFF'

Table 283.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	SCACBE	
(0)	FULLWORD	4	SCACBEAD	Address of SCCB

```
          Logon Connections List
This list is passed to logon by the requester, and
it describes the systems to which this logger-on
can be connected.
```

Table 284.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	22	LCL	
(0)	CHARACTER	8	LCLNAME	Name of connected system
(8)	CHARACTER	8	LCLUSRID	Was security userid (ignored)
(10)	UNSIGNED	2	LCLSECNO	Number of secondaries for connections to given system
(12)	UNSIGNED	2	LCLPRMNO	Number of primaries for connections to given system
(14)	BIT(8)	1	LCLFLG	Flag byte
(14)	1...		LCLFLGLS	'80'X Last element in list
(14)	.1..		LCLFLGCN	'40'X Connections to this system are initially 'IN SERVICE'

Table 284. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(14)	..1.		LCLFLGSK	'20'X Partner must be a system key user
(14)	...1		LCLFLGXM	'10'X Cross-Memory acceptable
(15)	BIT(8)	1	*	Reserved

```
The SVC argument list comprises a list of addresses,
each of which is the address of a function argument list.
```

Table 285.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IRSVCADS	
(0)	FULLWORD	4	IRVCAARG	Address of function argument list

```
The function argument list, addressed from the SVC
argument list, contains different arguments according to
the function being requested. The first six arguments
identify the function required, the function modifier
(for SWITCH, DISCONNECT or QUIESCE), the user number
and identification, and the thread number and
identification (where required). The remaining three
arguments depend on the function requested and identify
a system name (for LOGON, INSERV or QUIESCE), a
subsystem control block address (for LOGON or CONNECT)
and a parameter list (for LOGON or SWITCH).
```

Table 286.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	IRSVCFDS	
(0)	UNSIGNED	1	IRVCLEN	Length of parameter list
(1)	UNSIGNED	1	IRVCTYP	Function type
(2)	HALFWORD	2	IRVCSTYP	Function modifier
(4)	FULLWORD	4	IRVCUSID	Address of userid argument (except LOGON) OR userid return slot (LOGON only)
(8)	FULLWORD	4	IRVCTHID	Address of thread ID argument (SWITCH, PULL or DISCONNECT only) or thread number return slot (CONNECT only)
(C)	CHARACTER	12	IRVCALST	Start of function specific argument list
(18)	CHARACTER	0	IRVCEND	

Table 287.

Offset Hex	Type	Len	Name (Dim)	Description
(8)	STRUCTURE	4	IRVCLGFL	Logon flags
(8)	UNSIGNED	1	IRVCLGF1	First flag byte

Table 287. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8)	1...		IRVCLGSP	SYS POST req'd on links
(8)	.1..		IRVCLGBT	Batching of operating system POSTs
(8)	..1.		IRVCLGBX	BATCH=POSTEXIT
(8)	...1		IRVCLEXM	Exit module name given
(8)	.... 1...		IRVCLELT	Latent parameter supplied on logon
(8)	.... .1..		IRVCLDOK	Allow duplicate names for this logon
(8)	11		*	Reserved
(9)	UNSIGNED	1	IRVCLGF2	Second flag byte
(A)	UNSIGNED	1	IRVCLGBV	Batching value (IRVCLGBT set)
(B)	UNSIGNED	1	IRVCLGGM	GETMAIN above if SVCLOC=ANY
(B)	1...		IRVCLSVC	1 SVCLOC=ANY, 0 SVCLOC=BELOW
(B)	.111 1111		*	Reserved

Table 288.

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	24	*	Argument list for LOGON
(C)	FULLWORD	4	IRVCLGIM	Address of MYNAME argument
(10)	FULLWORD	4	IRVCLGSL	Address of SLCB addr return slot
(14)	FULLWORD	4	IRVCLGMU	Address of max users argument
(18)	FULLWORD	4	IRVCLGEX	Addr of exit module name
(1C)	FULLWORD	4	IRVCLGLT	Addr of latent parameter
(20)	ADDRESS	4	IRCVLNEW_PARM_PTR	Addrs of ext. PLIST

Table 289.

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for LOGOFF
(C)	FULLWORD	4	IRVCLODS	Address of dynamic storage operand
(10)	CHARACTER	8	*	

Table 290.

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for CONNECT
(C)	FULLWORD	4	IRVCCNTO	Address of TO argument

Table 290. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10)	FULLWORD	4	IRVCCNSC	Address of SCCB addr return slot
(14)	CHARACTER	4	*	

Table 291.

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for SWITCH
(C)	FULLWORD	4	*	Reserved
(10)	FULLWORD	4	*	Reserved
(14)	FULLWORD	4	IRVCSWPM	Address of parameter to pass

Table 292.

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for QUIESCE
(C)	FULLWORD	4	IRVCQUTO	Address of TO argument
(10)	CHARACTER	8	*	

Table 293.

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for INSERV
(C)	FULLWORD	4	IRVCINTO	Address of TO argument
(10)	CHARACTER	8	*	

Table 294.

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for RECOVER
(C)	FULLWORD	4	*	Reserved
(10)	FULLWORD	4	IRVCRCRS	Register 13 save area
(14)	FULLWORD	4	IRVCRCSA	Address of save area argument

Table 295.

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for EOT/M CLEAR
(C)	HALFWORD	2	IRVCEOAS	ASID of failing memory or ASID of memory containing failing task
(E)	HALFWORD	2	*	Reserved
(10)	FULLWORD	4	IRVCEOTA	TCB address of failing task
(14)	FULLWORD	4	IRVCEOSC	Address of SSCT

Table 296.

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for ADD
(C)	FULLWORD	4	IRVCANM	Pointer to netname (=IRVCLGIM)
(10)	FULLWORD	4	IRVCATOK	ADD token pointer
(14)	FULLWORD	4	IRVCALCL	A(LCL) - same offset as LOGON

Table 297.

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	4	*	Argument list for CHCKLEVL
(C)	FULLWORD	4	IRVCALVL	Caller's level identifier

Table 298.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IRVCLNEW_PARM	logon extention plist
(0)	FULLWORD	4	IRVCLNEW_VERSION	version id
(4)	FULLWORD	4	IRVCLNEW_GRP_NAME	addr of XCF GROUP Name

Constants

Table 299.

Len	Type	Value	Name	Description
4	DECIMAL	16	SLCBLENG	Length of SLCB
4	DECIMAL	96	SCCBLENG	Length of SCCB
1	HEX	80	IRXMTHRD	If not XCF, X-Memory thread
1	HEX	40	IRNXTHRD	Non-XCF thread ID
4	DECIMAL	8	SCACBLEN	Basic SCACB length
4	DECIMAL	4	SCACBELN	Length of SCACB entry
4	DECIMAL	22	LCLLENG	Connection list element length
4	DECIMAL	24	IRVCMAXM	Maximum parameter length
4	DECIMAL	1	IRVCLVL1	Function lvl 1 - basic XCF
4	DECIMAL	2	IRVCLVL2	Function lvl 2 - FORGET
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

Table 299. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	8	IRVCEQCN	CONNECT
1	DECIMAL	12	IRVCEQDC	DISCONNECT
1	DECIMAL	16	IRVCEQSW	SWITCH
1	DECIMAL	20	IRVCEQQU	QUIESCE
1	DECIMAL	24	IRVCEQPL	PULL
1	DECIMAL	28	IRVCEQIN	INSERV
1	DECIMAL	32	IRVCEQCL	CLEAR
1	DECIMAL	36	IRVCEQRC	RECOVER
1	DECIMAL	40	IRVCEQEO	EOT/M CLEAR
1	DECIMAL	44	IRVCEQMX	Immediate Quiesce
1	DECIMAL	48	IRVCEQAD	Connection ADD
1	DECIMAL	52	IRVCEQCK	Check DFHIRP level
FUNCTION QUALIFICATION CODES				
1	DECIMAL	0	IRVCEQDN	Normal DISCONNECT
1	DECIMAL	4	IRVCEQDA	Abnormal DISCONNECT
1	DECIMAL	8	IRVCEQDF	FORGET disc (normal quies
1	DECIMAL	0	IRVCEQQN	Normal QUIESCE
1	DECIMAL	4	IRVCEQQI	Immediate QUIESCE
1	DECIMAL	0	IRVCEQSS	SWITCH SUBSEQUENT
1	DECIMAL	4	IRVCEQSF	SWITCH FIRST
1	DECIMAL	0	IRVCEQRP	Recover from program check
1	DECIMAL	4	IRVCEQRA	Recover from ABEND
1	DECIMAL	0	IRVCEQET	End of Task
1	DECIMAL	4	IRVCEQEC	End of Cross Memory Resource Owner Task
1	DECIMAL	8	IRVCEQEM	End of Memory
1	DECIMAL	0	IRVCEQPR	ADD_PREPARE
1	DECIMAL	4	IRVCEQCM	ADD_COMMIT
1	DECIMAL	8	IRVCEQRL	ADD_ROLLBACK
Error Return Codes The following equates define the return codes passed back by the interregion communication SVC when it detects an error. These error codes are loaded into R15.				
2	NUMB HEX	0004	IRERRINF	Invalid function requested
2	NUMB HEX	0008	IRERRAUT	User not authorized to use SVC (MVS only)
2	NUMB HEX	000C	IRERRINE	Environment incorrect
2	NUMB HEX	0010	IRERRUNM	Invalid user number
2	NUMB HEX	0014	IRERRUID	Invalid user identification
2	NUMB HEX	0018	IRERRKEY	PSW key not same as at LOGON

Table 299. (continued)

Len	Type	Value	Name	Description
2	NUMB HEX	001C	IRERRTHN	Invalid thread number
2	NUMB HEX	0020	IRERRTHD	Invalid thread ID
2	NUMB HEX	0024	IRERRCFT	Set footprint failed
2	NUMB HEX	0028	IRERRLVE	* DFHIRP services are down-level
2	NUMB HEX	002C	IRERRLGN	Valid userno & ID but LCB not fully logged on
2	NUMB HEX	0034	IRERRNOS	No SCTE in the SVA
2	NUMB HEX	0038	IRERRNFL	No free LACBE for LOGON
2	NUMB HEX	003C	IRERRDPL	Duplicate LOGON
2	NUMB HEX	0040	IRERRMXL	Maximum LOGONs already reached
2	NUMB HEX	0044	IRERRGMD	GETMAIN failed XCF busy retry TQE storage
2	NUMB HEX	0048	IRERRGM1	GETMAIN failed LACB storage
2	NUMB HEX	004C	IRERRGM4	GETMAIN failed SUDB storage
2	NUMB HEX	0050	IRERRGM2	GETMAIN failed LCB/CCB storage
2	NUMB HEX	0054	IRERRGM3	GETMAIN failed - private area storage
Qualifiers for Getmain and size exceeded errors				
1	NUMB HEX	01	IRERQSCW	IRERRGM3 qualifier security work area
1	NUMB HEX	02	IRERQLCC	IRERRGM3 qualifier LCL copy area
1	NUMB HEX	03	IRERQVFW	IRERRGM3 qualifier SSI VERIFY work area
1	NUMB HEX	04	IRERQSDW	SUDB work area security work area
1	NUMB HEX	05	IRERQJSB	IRERRGM3 qualifier JSB storage
1	NUMB HEX	06	IRERQSCA	IRERRGM3/IRERRSIZ qualifier SCACB storage
1	NUMB HEX	07	IRERQLCV	IRERRGM3/IRERRSIZ qualifier LCBE vector storage
1	NUMB HEX	08	IRERQLCD	IRERRGM2/IRERRSIZ qualifier LCBD, LCBE & CCB storage
1	NUMB HEX	09	IRERQSCC	IRERRGM3/IRERRSIZ qualifier SCCB storage
1	NUMB HEX	0A	IRERQLCX	IRERRGM3/IRERRSIZ qualifier LCBEX & CCBX storage

Table 299. (continued)

Len	Type	Value	Name	Description
1	NUMB HEX	0B	IRERQPHB	IRERRGM3/IRERRSIZ qualifier PHB storage
1	NUMB HEX	0C	IRERQSLC	IRERRGM3/IRERRSIZ qualifier SLCB storage
1	NUMB HEX	0D	IRERQSRW	IRERRGM3/IRERRSIZ qualifier SRB work area
1	NUMB HEX	0E	IRERQXTT	IRERRGM3/IRERRSIZ qualifier XCF Trace Table
1	NUMB HEX	0F	IRERQQSW	IRERRGM3/IRERRSIZ qualifier QUERY SYSPLEX work area
1	NUMB HEX	10	IRERQGXW	IRERRGM3/IRERRSIZ qualifier XCF Group Exit work area
1	NUMB HEX	11	IRERQRXW	IRERRGM3/IRERRSIZ qualifier XCF busy retry SRB work area
1	NUMB HEX	12	IRERQRTT	IRERRGM3/IRERRSIZ qualifier XCF busy retry SRB Trace Table
Error return codes continued				
2	NUMB HEX	0058	IRERRNSK	Potential partner is not a system key user but LCBE insists on system key partners
2	NUMB HEX	005C	IRERRNLG	System not logged on
2	NUMB HEX	0060	IRERRNCT	Primary & secondary DFHIRP levels have incompatible XCF User State Data formats
2	NUMB HEX	0064	IRERRGM5	GETMAIN failed CSB/CND storage
2	NUMB HEX	0068	IRERRNSS	Secondary system not in primary LCB
2	NUMB HEX	006C	IRERRCCS	No secondary CCB found for primary system
2	NUMB HEX	0070	IRERRIQS	Secondary is in QUIESCE
2	NUMB HEX	0074	IRERRNSP	Primary system not in secondary LCB
2	NUMB HEX	0078	IRERRCCP	No primary CCB found for secondary
2	NUMB HEX	007C	IRERRIQP	Primary is in QUIESCE
2	NUMB HEX	0080	IRERRCCR	No primary CCB/retry req
2	NUMB HEX	0084	IRERRDSC	Link is already disconnected
2	NUMB HEX	0088	IRERRSWI	Other side cannot receive data
2	NUMB HEX	008C	IRERRNSW	This side cannot send data

Table 299. (continued)

Len	Type	Value	Name	Description
2	NUMB HEX	0090	IRERRPL1	Other side cannot be pulled from
2	NUMB HEX	0094	IRERRPL2	This side cannot pull data
2	NUMB HEX	0098	IRERRNPP	There is no pull pending
2	NUMB HEX	009C	IRERRNDP	No data to be pulled (Internal error)
2	NUMB HEX	00A0	IRERRLIQ	LCB is in QUIESCE
2	NUMB HEX	00A4	IRERRUKS	Target system not found in LCB
2	NUMB HEX	00A8	IRERRCSB	CSB cannot be found
2	NUMB HEX	00AC	IRERRLNC	Link is not connected
2	NUMB HEX	00B0	IRERRSCF	Security check failed
Qualifiers for security check failure				
1	NUMB HEX	01	IRERQAUT	IRERRSCF qualifier AUTH denied access
1	NUMB HEX	02	IRERQFAU	IRERRSCF qualifier FASTAUTH denied access
Error codes continued				
2	NUMB HEX	00B4	IRERRSCH	Attempt to schedule an SRB/subtask failed
2	NUMB HEX	00B8	IRERRGM7	GETMAIN failed for SRB storage (MVS)
2	NUMB HEX	00BC	IRERRPST	'Special' ABEND (Bad ECB etc.)
2	NUMB HEX	00C0	IRERRIA0	Invalid argument or Parameter addr
2	NUMB HEX	00C4	IRERRIA1	Invalid address in parameter list
2	NUMB HEX	00C8	IRERRIA2	Invalid address in data list
2	NUMB HEX	00CC	IRERRABN	An MVS ABEND occurred
2	NUMB HEX	00D0	IRERRGM8	GETMAIN failed for Transfer Buffer
2	NUMB HEX	00D4	IRERRGM9	GETMAIN failed for EOM wk area
2	NUMB HEX	00D8	IRERRENV	Subsystem notification error (MVS only)
2	NUMB HEX	00DC	IRERRIA3	Invalid target for data movement
2	NUMB HEX	00E0	IRERRILE	Internal logic error
2	NUMB HEX	00E4	IRERRGMX	GETMAIN failed for use count array
2	NUMB HEX	00E8	IRERRAX	Non-zero AX value currently set

Table 299. (continued)

Len	Type	Value	Name	Description
2	NUMB HEX	00EC	IRERRGMA	GETMAIN failed for XCF part table or XCF retry storage
2	NUMB HEX	00F0	IRERRCAT	Connect SRB ATSET failed
2	NUMB HEX	00F4	IRERRXME	Cross memory environment error
2	NUMB HEX	00F8	IRERRIDL	Total data length invalid For SWITCH or PULL
2	NUMB HEX	00FC	IRERRMPD	M/C check paging I/O or DAT error
2	NUMB HEX	0100	IRERRWEN	Bad name for EXITS=
2	NUMB HEX	0104	IRERRWEL	LOAD failed for IR work exit
2	NUMB HEX	0108	IRERRWEF	IR work exit is bad format
2	NUMB HEX	010C	IRERRLCL	Error in LOGON/ADD connections list
Qualifiers for logon/add connection list error				
1	NUMB HEX	01	IRERQDNM	Duplicate connection name in LCL or 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
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

Table 299. (continued)

Len	Type	Value	Name	Description
2	NUMB HEX	0130	IRERRMTM	LCBFJOIN set at start of IRCJOIN but XCF member token not present in LCB - probably caused by a previous ABEND during IXCJOIN
2	NUMB HEX	0134	IRERRSCM	The LACB that currently exists was built by an incompatible version of DFHIRP
2	NUMB HEX	0138	IRERRXCF	Co-located systems, or systems in the same MVS image cannot connect if they belong to different XCF GROUPS
2	NUMB HEX	013C	IRERRXCF_INV_NAME	Specified XCF Group Name does not conform to XCF naming conventions
2	NUMB HEX	0FFF	IRERRINVHW	DFHIRP is being run on non z/Architecture hardware

ISMF - ISC IP Message Formats

```
--

The name of this header is defined in constant ISHH_NAME. It is
the main HTTP header present on all protocol(IPIC) HTTP requests
and responses.

The IS HTTP header is added by the ISSR send_request and
send_response functions and inspected by the ISRR
process_input_queue function to determine what action to take on
receipt of incoming IPIC data.

It has a prefix and a data component.

The conversation ID, ishh_conv_id, relates the message to its
session. If a new conversation is to be started on a particular
previous session, for example to implement the CICS RM Implicit
Forget protocol, the ishh_prev_conv_id field must be set to the
conversation ID that used that session previously. Otherwise it
should be left blank.

The ishh_msg_seqno is incremented for each new request within a
conversation. This number is allowed to wrap back to 1 after
999999. The reply carries the same ishh_msg_seqno as the request
to which it relates.

There may be multiple chain elements within an IS request or
response. Each IS chain element is an HTTP request or response
message.

The first or only chain element within a request should have
ishh_chain_seqno = 1.

A sender must wait for a pacing response after every four
messages. A pacing message carries no body data.
```

```
IS HTTP msgs are:

ISHH_DATA
half duplex flip-flop, conversation level messages. Change
direction is implied at the end of every message, or chain of
messages.
ISHH_EXPD
expedited conversation level command messages that carry no body
data; may be sent with or against the conversation level flow.
ishh_conv_state should be set to ishh_end, indicating that no
reply to the conversation level command is expected.
ISHH_CMD
connection level command messages are at the IPCONN level and
carry no body data; the ishh_conv_id and ishh_conv_state are
ignored.

------------------------------------------------------------------
```

Table 300.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	50	ISHH_PREFIX	
(0)	CHARACTER	10	ISHH_PREFIX_V1	fixed part of ishh at v1
(0)	CHARACTER	1	ISHH_MAJOR_VERSION	
(1)	CHARACTER	1	ISHH_MINOR_VERSION	
(2)	CHARACTER	1	ISHH_MSG_TYPE	message type: D, C, X
(3)	CHARACTER	1	ISHH_CONV_STATE	conversation state: B, I, E, O
(4)	CHARACTER	6	ISHH_CONV_ID	conversation id correlator
(A)	CHARACTER	0	ISHH_PREFIX_END_V1	end of fixed part of ishh at v1
(A)	CHARACTER	8	ISHH_PREFIX_V2	fixed part of ishh at v2
(A)	CHARACTER	6	ISHH_PREV_CONV_ID	previous conv id correlator
(10)	CHARACTER	2	ISHH_REQUEST_TYPE	type if request flowed
(12)	CHARACTER	0	ISHH_PREFIX_END_V2	end of fixed part of ishh at v2
(12)	CHARACTER	32	ISHH_PREFIX_V3	fixed part of ishh at v3
(12)	CHARACTER	16	ISHH_CONV_ID8	previous conv id correlator
(22)	CHARACTER	16	ISHH_PREV_CONV_ID8	conv id correlator
(32)	CHARACTER	0	ISHH_PREFIX_END_V3	end of fixed part of ishh at v2

Table 301.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	31	ISHH_TYPE_DEP	msg type dependent part of ishh
(0)	CHARACTER	31	ISHH_CONV_DATA	data (msg_type=D)
(0)	CHARACTER	13	ISHH_CONV_DATA_PREFIX	fixed part of conv_data
(0)	CHARACTER	6	ISHH_MSG_SEQNO	message no. w/n conversation
(6)	CHARACTER	1	ISHH_CHAIN	chain indicator: F, M, L, P
(7)	CHARACTER	6	ISHH_CHAIN_SEQNO	chain element sequence no.

Table 301. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(D)	CHARACTER	18	*	
(D)	CHARACTER	18	ISHH_CONV_ATTACH_DATA	reqd if conv_state=B
(D)	CHARACTER	4	ISHH_ATTACH_TRAN_ID	mirror tran id
(11)	CHARACTER	8	ISHH_SRC_TOKEN	WLM SRC token
(19)	CHARACTER	5	ISHH_CCSID	client ccsid:' ' for no conv, '-1 ' for default conv
(1E)	CHARACTER	1	ISHH_ENDIAN	client endian:0=little, 1=big
(0)	CHARACTER	4	ISHH_CMD_DATA	command (msg_type=C|X)
(0)	CHARACTER	2	ISHH_CMD_ID	command
(2)	CHARACTER	2	*	reserved

```
--

This name of this header is defined in constant ISUH_NAME.

It should only be present when using CICS recovery protocol.

The IS HTTP uowid header is added by the ISSR send_request
function when a new transaction is to be attached in the partner
system.

The data it contains is binary data, unpacked and converted to
ASCII for transmission over HTTP.

------------------------------------------------------------------
```

Table 302.

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

```
--

This name of this header is defined in constant ISAH_NAME.

It should only be present when a START has been issued where a
TRUE set adapter data and that START was found to be remote. If
this header is present there will not be an ODR header.

The IS HTTP adapter header is added by the ISSR send_request
function when a new transaction is to be attached in the partner
system.

The data it contains is binary data, unpacked and converted to
ASCII for transmission over HTTP.

------------------------------------------------------------------
```

Table 303.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	512	ISAH	
(0)	CHARACTER	512	ISAH_ADAPTER_DATA	Flattened adapter data

```
--

The generic field header format.

------------------------------------------------------------------------
```

Table 304.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	ISFLD	
(0)	UNSIGNED	4	ISFLD_LENGTH	Field length, including itself
(4)	UNSIGNED	2	ISFLD_TYPE	Field type number
(6)	CHARACTER	0	ISFLD_DATA	Field data

```
--

The Capability Exchange request message (Type 1).

When an IPIC connection is established between two CICS systems,
or between CICS and a JCA client, an instance of the capability
exchange message is sent by the initiator, immediately after the
first socket (WB session) is opened, before the connection can be
used for any other work.

The Capability Exchange both identifies the partner and defines
any functional constraints it may have.

The IS HTTP headers (ISHH) associated with the capability exchange
messages have a convid of 0.

When the initiator of a connection is a CICS system, this message
is triggered by SET IPCONN ACQUIRED. This SPI command attaches
transaction CISC which issuse DFHISCO acquire_connection to create
a socket and send a Capability Exchange to the partner.

The partner CICS attaches the IPIC TCPIPSERVICE protocol
transaction, CISS by default, to issue DFHISCO
initialize_connection. The initialize_connection function calls
the acquire_connection routine to create a similar connection back
to the initiator, to allow work to be started from the partner
back to the connection initiator.

If the connection initiator has no requirement for a return
connection e.g because it doesn't support inbound requests, the
isce_callback_port should be set to ISCE_NO_PORT. (This is
currently only supported for recovery protocol XA).

If the partner supports multiple sockets per IPCONN, a capability
exchange request is sent for each socket opened. Second and
subsequent capex requests use the isce_reqd_sessions field to
indicate how many IS sessions are to be allocated to the new
socket. Data following the comment isce_primary_data is ignored in
secondary capex requests.

------------------------------------------------------------------------
```

Table 305.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	84	ISCE	
(0)	CHARACTER	68	ISCE_V11	length at v1.1
(0)	CHARACTER	2	ISCE_PREFIX	

Table 305. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	UNSIGNED	1	ISCE_MAJOR_VERSION	
(1)	UNSIGNED	1	ISCE_MINOR_VERSION	
(2)	UNSIGNED	2	ISCE_LEN_FIXED	length of fixed part
(4)	CHARACTER	16	ISCE_FULL_CLIENT_ APPLID	isce sender's applid
(4)	CHARACTER	8	ISCE_CLIENT_NETWORKID	to match target IPCONN
(C)	CHARACTER	8	ISCE_CLIENT_APPLID	to match target IPCONN
(14)	CHARACTER	16	ISCE_FULL_SERVER_ APPLID	client's view of partner
(14)	CHARACTER	8	ISCE_SERVER_NETWORKID	validated in server
(1C)	CHARACTER	8	ISCE_SERVER_APPLID	validated in server
(24)	UNSIGNED	4	ISCE_REQD_SESSIONS	no. sessions requested
(28)	BIT(8)	1	ISCE_FLAGS	
(28)	1...		ISCE_INITIATOR	1=capex initiator
(28)	.1..		ISCE_SECONDARY_SOCKET	1=capex on secondary socket
(28)	..1.		ISCE_IPV6_ADDRESS	1=ipv6 addr used
(28)	...1		ISCE_XA_ROLLBACK	1=rollback mirror if appl--ication abend occurs
(28)	.... 1...		ISCE_HA_CLUSTER_ CONNECT	1=Request to connect to an HA cluster
(28)	.... .1..		ISCE_HA_SPECIFIC_ CONNECT	1=Request to connect to a specific region in an HA cluster
(28)	11		*	spare
`isce_primary_data. Data after this point in the isce is ignored for secondary capex requests.`				
(29)	CHARACTER	15	ISCE_CALLBACK_IPADDR	
(38)	FULLWORD	4	ISCE_CALLBACK_PORT	NO=-1
(3C)	UNSIGNED	1	ISCE_PREFERRED_ RECOVERY	1=CICS, 2=XA
(3D)	BIT(8)	1	ISCE_SUPPORTED_ PROTOCOLS	protocols supported
(3D)	1...		ISCE_RECOV_CICS	
(3D)	.1..		ISCE_RECOV_XA	
(3D)	..11 1111		*	spare
(3E)	CHARACTER	6	ISCE_CONV_ID	copy of conv_id
(44)	CHARACTER	16	ISCE_V31	v3.1 fixed extensions
(44)	CHARACTER	16	ISCE_CONV_ID8	copy of ishh_conv_id8
(54)	CHARACTER	0	ISCE_SUBFIELDS	start of variable data

Table 306.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	ISCE_SUB	Argument subfield
(0)	CHARACTER	3	ISCE_SUB_PREFIX	Length of subfield
(0)	UNSIGNED	2	ISCE_SUB_LEN	Length of subfield

Table 306. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	UNSIGNED	1	ISCE_SUB_TYPE	Subfield type
(3)	CHARACTER	*	ISCE_SUB_DATA	Argument data

```
--

The Capability Exchange response message (Type 2).

When iscer_response is iscer_exception, iscer_reason may take any
of the following values:

REASON(AUTOINSTALL_FAILED)
No IPCONN was found to match an incoming IPIC connection and
capability exchange and the subsequent autoinstall attempt was
disallowed or failed.
REASON(INVALID_PARTNER_STATE)
A capability exchange request was received for an IPCONN whose
state is invalid. The IPCONN must be inservice and not already
acquired.
REASON(INVALID_IPCONN_STATE)
An ISCO ACQUIRE_CONNECTION has been issued for an IPCONN whose
state is invalid. The IPCONN must be inservice and released.
REASON(IPCONN_NOT_FOUND)
An ISCO ACQUIRE_CONNECTION has been issued for an IPCONN which
no longer exists.
REASON(ISCE_ERROR)
The capability exchange request was determined to be invalid and
rejected by the partner CICS.
REASON(ISCE_INVALID_APPLID)
The server_applid, or its high level qualifier, in the
capability exchange message does not match the partner CICS's
local applid and high level qualifier.
REASON(ISCE_TIMED_OUT)
The TCPIPSERVICE transaction (CISS by default) has been attached
to initialize a connection for an ipconn but it has not received
its initial data, the capability exchange request, within the
timeout period defined in its transaction profile.
REASON(ISCE_BAD_RECOV)
A capability exchange request has been received that contains an
unsupported isce_preferred_recovery value and no matching
isce_in.isce_supported_protocols flags are set to fallback to.
REASON(ISCER_BAD_RESPONSE)
The callback capability exchange response contains a bad isco
response and reason from the partner CICS.
REASON(ISCER_ERROR)
The callback capability exchange response was determined to be
invalid.
REASON(ISCER_HTTP_ERROR)
The callback capability exchange response contained a bad http
status code.
REASON(ISCER_TIMED_OUT)
DFHISCO acquire_connection has not received a response to its
capability exchange request within the timeout period specified.
REASON(SESSION_OPEN_FAILED)
While acquiring an ipconn, DFHISCO has failed to open a web
session to the partner host defined in the ipconn.
REASON(SHUTDOWN)
A call has been made to DFHISCO to acquire or initialize an
ipconn but CICS has been shutdown before the function completed.
REASON(TCPIP_CLOSED)
DFHISCO acquire_connection has been called for an ipconn but
tcpip is closed.
REASON(TCPIPSERVICE_MISMATCH)
A capability exchange request was received for an IPCONN which
```

```
is defined as using a different 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.
REASON(ISCER_INVALID_HA_TCPIPSERVICE)
TCPIPS attributes in server region are invalid for HA.
REASON(ISCER_HA_RESOURCE_MISMATCH)
Resource definitions in client and server regions to establish a
high availability connection do not match.

--------------------------------------------------------------------
```

Table 307.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	52	ISCER	
(0)	CHARACTER	50	ISCER_V11	length at v1.1
(0)	CHARACTER	2	ISCER_PREFIX	
(0)	UNSIGNED	1	ISCER_MAJOR_VERSION	
(1)	UNSIGNED	1	ISCER_MINOR_VERSION	
(2)	UNSIGNED	1	ISCER_RESPONSE	isco_response
(3)	UNSIGNED	1	ISCER_REASON	isco_reason
(4)	UNSIGNED	4	ISCER_MAX_SESSIONS	max sessions allowed
(8)	BIT(64)	8	ISCER_CAPABILITIES	system capabilities
(8)	BIT(8)	1	IS_PROTOCOLS	protocols supported
(8)	1...		IS_RECOV_CICS	
(8)	.1..		IS_RECOV_XA	
(8)	..1.		IS_ISHH_V2	
(8)	...1		IS_IMPLICITFORGET	
(8)	.... 1...		IS_IPV6_ADDRESSING	
(8)	.... .1..		IS_IDPROP	
(8)	.... ..1.		IS_ISHH_V3	
(8)	1		IS_ODR_GT_384	
(9)	BIT(8)	1	IS_FUNCTIONS	functions supported
(9)	1...		IS_SYNCLEVEL2	
(9)	.1..		IS_DPL	

Table 307. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(9)	..1.		IS_CONTAINER	
(9)	...1		IS_START_CANCEL	
(9)	.... 1...		IS_TRANSACTION_ ROUTING	routing
(9)	.... .1..		IS_REMOTE_SCHEDULES	
(9)	.... ..1.		IS_ENHANCED_ROUTING	
(9)	1		IS_FILE_CONTROL	
(A)	BIT(8)	1	IS_FUNCTIONS2	more functions supported
(A)	1...		IS_MIRRORLIFE	
(A)	.1..		IS_TRANSIENT_DATA	
(A)	..1.		IS_TEMPORARY_STORAGE	
(A)	...1		IS_TIMEOUT	
(A)	.... 1...		IS_ESI	
(A)	.... .1..		IS_EDF	
(A)	.... ..1.		IS_IMS	
(A)	1		IS_ICRX_ON_START	
(B)	BIT(8)	1	IS_FUNCTIONS3	more supported
(B)	1...		IS_HA	
(B)	.1..		IS_CAC	
(B)	..1.		IS_TRANSACTION_ CHANNEL	
(B)	...1 1111		*	spare
(C)	BIT(32)	4	*	spare
(10)	CHARACTER	16	ISCER_FULL_CLIENT_ APPLID	client fully qualified applid
(10)	CHARACTER	8	ISCER_CLIENT_ NETWORKID	
(18)	CHARACTER	8	ISCER_CLIENT_APPLID	
(20)	CHARACTER	16	ISCER_FULL_SERVER_ APPLID	server fully qualified applid
(20)	CHARACTER	8	ISCER_SERVER_ NETWORKID	
(28)	CHARACTER	8	ISCER_SERVER_APPLID	
(30)	UNSIGNED	1	ISCER_RECOV_PROTOCOL	1=CICS, 2=XA
(31)	BIT(8)	1	ISCER_RESULTS	negotiated values
(31)	1...		ISCER_SEC_VERIFY	auth: verify user sec
(31)	.1..		ISCER_SEC_IDENTIFY	auth: identify user sec
(31)	..1.		ISCER_SEC_CERTIFICATE	auth: certificate sec
(31)	...1		ISCER_RESYNC	resync possible
(31)	.... 1...		ISCER_HA_CLUSTER_ CONNECT_RESPONSE	HA: response
(31)	.... .111		*	spare
(32)	CHARACTER	2	ISCER_V21	v2.1 fixed extensions
(32)	UNSIGNED	2	ISCER_LEN_FIXED	length of fixed part
(34)	CHARACTER	0	ISCER_SUBFIELDS	start of variable data

Table 308.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	48	ISCER_SUB	Argument subfield
(0)	CHARACTER	4	ISCER_SUB_PREFIX	Length of subfield
(0)	UNSIGNED	2	ISCER_SUB_LEN	Length of subfield
(2)	UNSIGNED	1	ISCER_SUB_TYPE	Subfield type
(3)	UNSIGNED	1	*	spare
(4)	CHARACTER	44	ISCER_SUB_DATA	sub_type dependent arg data
(4)	UNSIGNED	4	ISCER_SUB_NUM_SOCKETS	Max sockets allowed
(4)	UNSIGNED	4	ISCER_SUB_ MIRRORLIFE_DATA	Mirrorlife field
(4)	UNSIGNED	1	ISCER_SUB_ MIRRORLIFE_VALUE	Mirrorlife value
(5)	UNSIGNED	3	*	Spare
(4)	CHARACTER	44	ISCER_SUB_SPECIFIC_ DATA	HA spec data
(4)	FULLWORD	4	ISCER_SUB_SPECIFIC_ PORT	HA spec port
(8)	UNSIGNED	1	ISCER_SUB_SPECIFIC_ IPFAMILY	HA spec ipfamily
(9)	CHARACTER	39	ISCER_SUB_SPECIFIC_ IPADDRESS	HA spec ipaddr
(9)	CHARACTER	15	IPV4	
(9)	CHARACTER	39	IPV6	
(4)	CHARACTER	0	*	

```
--

The Bracket Initiation Stopped (BIS) request message (Type 3)
and the Bracket Initiation Stopped (BISR) response message
(Type 4) have the same format.

When an IPIC connection between two CICS systems is released, a
drain command is sent by the initiator causing both sides to
quiesce: current and queued work is processed, no new work is
accepted. Once all activity on the ipserver connection has
terminated, a BIS message and response is exchanged prior to
closing the web session (socket) IF any send session is flagged
send or receive forget pending i.e if any conversation on that
session has terminated leaving an RM link pending.

The BIS message carries a list of conversations for which forget
is pending.

------------------------------------------------------------------
```

Table 309.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	ISBIS	
(0)	CHARACTER	6	ISBIS_FIXED	minimum fixed part
(0)	UNSIGNED	2	ISBIS_LEN_FIXED	length of fixed part
(2)	UNSIGNED	2	ISBIS_LEN_CONV_ENTRY	length of a conv entry
(4)	UNSIGNED	2	ISBIS_NUM_CONVS	Number of conversations
(6)	CHARACTER	0	ISBIS_CONV_LIST	List of conversations

Table 310.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	ISBIS_CONV	Conversation to complete
(0)	UNSIGNED	4	ISBIS_CONV_ID	Conversation id
(4)	UNSIGNED	2	ISBIS_CONV_RESP	BIS response

Table 311.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	18	ISBIS_CONV2	Conversation to complete
(0)	CHARACTER	16	ISBIS_CONV2_ID8	Conversation id8
(10)	UNSIGNED	2	ISBIS_CONV2_RESP	BIS response

```
--

The Syncpoint Command field (Type 6).

The normal syncpoint exchange is as follows:- Initiator
-----------Prepare----------> Agent 1 <------Request
Commit--------
Initiator -------Request Commit-------> Agent 2 (=last agent)
<----------Committed--------- ------------Forget---------->
Initiator -----------Committed--------> Agent 1
<-----------Forget-----------

Alternate flows - When the decision is to roll back the UOW, then
the coordinator sends an FMH7 as the data portion of the Type 6
field.

Resync Flows - Type 6 fields are also used in resync messages,
exchanged between CICS regions. The are 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 312.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	PS_HEADER	
(0)	UNSIGNED	2	PS_LL	
(2)	CHARACTER	6	PS_TP_DATA	
(2)	UNSIGNED	1	PS_LEN	
(3)	UNSIGNED	1	PS_TYPE	
(4)	UNSIGNED	1	PS_FLAGS	
(5)	UNSIGNED	1	PS_CMD	
(6)	CHARACTER	2	PS_SPC_MOD	
(6)	UNSIGNED	1	PS_SPC_MOD0	

Table 312. (continued)

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

```
--

The Conversation Error field (Type 7).

IS7 messages are similar in intent and content to the SNA FMH7.
Their purpose is to 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 313.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	7	IS7_DATA	Type 7 field data
(0)	UNSIGNED	2	IS7_LEN_FIXED	Length of fixed part
(2)	BIT(32)	4	IS7_SENSE	Sense code
(6)	BIT(8)	1	IS7_MODIFIER	Modifier
(6)	1...		IS7_LOG_DATA	Error msg present
(6)	.1..		IS7_SYSTEM_SESSION	IS7 sent from system session !
(6)	..11 1111		*	Reserved

Table 314.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IS7_SUB1	Subfield 1 (message)
(0)	UNSIGNED	2	IS7_SUB1_LEN	Length of subfield
(2)	UNSIGNED	1	IS7_SUB1_TYPE	Subfield type 1
(3)	CHARACTER	*	IS7_SUB1_MSG	Message text

```
--

The Security field (Type 8).

Subfields

- Type 1 - Userid

- Type 2 - Password

------------------------------------------------------------------------
```

Table 315.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	3	IS8_DATA	Type 8 subfield data
(0)	UNSIGNED	2	IS8_LEN	Length of subfield
including this subfield header				
(2)	UNSIGNED	1	IS8_TYPE	Subfield type
(3)	CHARACTER	0	IS8_STRING	Subfield string

```
Fields at is8_string
```

Table 316.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	100	IS8_STRING_FIELDS	
(0)	CHARACTER	10	IS8_STRING_USERID	
(0)	CHARACTER	100	IS8_STRING_PASSWORD	
(0)	UNSIGNED	1	IS8_STRING_PASSWORD_ TYPE	
(0)	CHARACTER	10	IS8_STRING_GROUPID	

```
--

The External Security Interface field (Type 9).

Subfields

- Type 1 - Userid

- Type 2 - Password (1-8 chars) or Password Phrase (9-100 chars)

------------------------------------------------------------------
```

Table 317.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	IS9_DATA	Type 9 subfield data
(0)	CHARACTER	0	IS9_GDS_DATA	GDS data

```
------------------------------------------------------------------
Input_TP_LLID
The Input_TP_LLID consists of a second LLID pair and data
TP_LL is the total length of the TP record.
TP_ID is the indicator for SIGN-ON or SIGN-ON/CHANGE_PASSWORD.
TP_Data contains the data for this LLID. It is a series of
variable length subfields.

The Input_TP_LLID has the following format:
-----------------------------------------
| L | I | Input_Data | Input_Data | Input_Data |
| L | D | SF(1)      | SF(2)      | SF(3)      |
-----------------------------------------
------------------------------------------------------------------
```

Table 318.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	INPUT_TP_LLID	
(0)	UNSIGNED	2	INPUT_TP_LL	
(2)	UNSIGNED	2	INPUT_TP_ID	
(4)	CHARACTER	*	INPUT_TP_DATA	

```
------------------------------------------------------------------
Input_SF_LID
Each Input_SF_LID consists of a one byte length, an Id field
and a variable length data field.
SF_L is the total length of the SF record.
SF_Id indicates which subfield type it is.
SF_Data contains the data for this subfield.

The subfields have the following format:
------------
|L|I| SF_Data|
| |d| |
------------
------------------------------------------------------------------
```

Table 319.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	INPUT_SF_LID	
(0)	UNSIGNED	1	INPUT_SF_L	

Table 319. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	UNSIGNED	1	INPUT_SF_ID	
(2)	CHARACTER	*	INPUT_SF_DATA	

```
------------------------------------------------------------------
Output_GDS_LLID
The Output Data consists of an initial LLID pair and data
GDS_LL is the total length of Output Data.
GSD_ID is the indicator for SIGN-ON data.
GDS_Data contains the data to be passed to the partner.

The Output_GDS_LLID has the following format:
-----------------------------------------------------------
| L | I | Output_GDS_Data |
| L | D | |
-----------------------------------------------------------

Within the Output_GDS_Data exists a second LLID pair called the
TP record
TP_LL is the total length of the TP record.
TP_ID is the indicator for SIGN-ON reply data.
TP_Data contains the data for this LLID. It is a series of
variable length subfields.

The Output_TP_LLID has the following format:
-------------------------------------------------
| L | I | Output_Data | Output_Data | Output_Data |
| L | D | SF(1) | SF(2) | SF(3) |
-------------------------------------------------

Each subfield has the following format:
-------------
|L|I| SF_Data |
| |d| |
-------------

------------------------------------------------------------------
```

Table 320.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	229	OUTPUT_GDS_LLID	
(0)	UNSIGNED	2	OUTPUT_GDS_LL	
(2)	UNSIGNED	2	OUTPUT_GDS_ID	
(4)	CHARACTER	225	OUTPUT_GDS_DATA	
(4)	UNSIGNED	2	OUTPUT_TP_LL	
(6)	UNSIGNED	2	OUTPUT_TP_ID	
(8)	CHARACTER	221	OUTPUT_TP_DATA	

```
--

The ICRX Security field (Type 19).

This field may appear together with or without an IS-8 field in a
message.

The format of the ICRX data is not known to the IS domain, and can
```

```
be found in the IRRPICRX macro.

-------------------------------------------------------------------
```

Table 321.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2000	IS19_DATA	Type 19 subfield data
(0)	CHARACTER	2000	IS19_ICRX_DATA	ICRX data !

```
   Need to pull in the GDS structure from ISXS at some point
--

The UOWID recovery field (Type A).

The Type A field is included as part of a DPL request between CICS
regions. It contains the coordinating UOWID, that is then added to
the participant's RM link for its principle facility.

The Type A field also forms the first part of a resync message,
sent between CICS regions. If the corresponding UOW, or an RM link
containing it, cannot be found then the response sent back
contains only a Type A field with the unresolved UOWID in it,
indicating the resync attempt for that UOW has failed.

-------------------------------------------------------------------
```

Table 322.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	UOWID_DATA	Type A field data
(0)	CHARACTER	8	UOWID_VALUE	Unit of Work Identifier

```
--

The XID recovery field (Type B).

A Type B field is included in a DPL request from an XA client when
the request is intended to form part of an extended UOW. CICS
takes the XID from the Type B field and stores it with the
corresponding UOW. It can then be matched to a resync attempt
should one be necessary.

-------------------------------------------------------------------
```

Table 323.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	136	XID_DATA	Type B field data
(0)	FULLWORD	4	XID_FORMAT_ID	Format ID
(4)	CHARACTER	66	XID_GTRID	Global Transaction ID
(4)	UNSIGNED	2	XID_GTRID_LENGTH	
(6)	CHARACTER	64	XID_GTRID_DATA	
(46)	CHARACTER	66	XID_BQUAL	Branch Qualifier
(46)	UNSIGNED	2	XID_BQUAL_LENGTH	
(48)	CHARACTER	64	XID_BQUAL_DATA	

```
--

The XID recovery list field (Type C).
```

```
An XA client can request that CICS 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 324.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XIDRL_LIST	Recovery list
(0)	UNSIGNED	4	XIDRL_ITEMS	Number of items in the list
(4)	CHARACTER	*	XIDRL_LIST_START	Start of list items

Table 325.

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

```
--

The ReSync Outcome field (Type C).

The Type C field is exchanged by a pair of CICS regions that are
involved in a resync attempt relating to a particular connection.
One region initiates the resync attempt and, when it has completed
processing the RM links that it has found, sends a message
comprising only of this field to the partner region. The partner
then processes any RM links that it has and responds with its own
Type C message.

------------------------------------------------------------------
```

Table 326.

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

```
--

The API Request/Response field (Type 43). Note that the length
field for the fixed length part is one byte rather than two to
maintain consistency with SNA FMH43 so that the transformer code
ported into DFHISXF can work unchanged. The same header is used
for requests and responses. Request flows include subfields for
the input parameters. Response flows include subfields for the
output parameters.

Subfield types are assigned to all fields on a particular command
```

```
that can be shipped, as follows:
FOR EXEC CICS LINK 02 program 04 length 06 commarea 08 transid 0A
hex transid

--------------------------------------------------------------------
```

Table 327.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	23	IS43_DATA	Type 43 field data
(0)	UNSIGNED	1	IS43_LEN_FIXED	Length of fixed part
(1)	BIT(8)	1	IS43_FMH_TYPE	Old-style FMH number = 43x
(2)	CHARACTER	1	IS43_GROUP	API command group
(3)	CHARACTER	1	IS43_FUNCTION	API command function
(4)	CHARACTER	1	IS43_FMHXMOD	Old-style fmh field (not used)
(5)	CHARACTER	1	IS43_FMHXFXCT	Old-style fmh field (not used)
(6)	UNSIGNED	1	IS43_OPTION_LEN	Command options length
(7)	CHARACTER	7	IS43_OPTIONS	Option bytes from ARG0
(7)	CHARACTER	2	IS43_ARG_EXISTENCE	Argument existence bits
(9)	CHARACTER	1	IS43_COMMAND_FLAGS	Command modifier flags
(A)	CHARACTER	4	IS43_KEYW_EXISTENCE	Keyword existence bits
(E)	UNSIGNED	1	IS43_INVPROG_LEN	Invoking program name length
(F)	CHARACTER	8	IS43_INVPROG	Invoking program name
(17)	CHARACTER	0	IS43_SUBFIELDS	Start of subfields

Table 328.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IS43_SUB	Argument subfield
(0)	UNSIGNED	2	IS43_SUB_LEN	Length of subfield
(2)	UNSIGNED	1	IS43_SUB_TYPE	Subfield type (arg num x 2)
(3)	CHARACTER	*	IS43_SUB_DATA	Argument data

```
--

The Channel header field (Type 44). This structure MUST match the
definition of DFHCHAN in DFHAPCR. If present, this field will
always follow an IS43, and will be followed by zero or more IS45s.

--------------------------------------------------------------------
```

Table 329.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	DFHCHAN	
(0)	UNSIGNED	2	CHAN_LEN	Length of channel header
(2)	CHARACTER	8	CHAN_EYE	Eye catcher
(A)	CHARACTER	16	CHAN_INAME	Name of channel

Table 329. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1A)	UNSIGNED	1	CHAN_VERSION	Version of channel header
(1B)	CHARACTER	5	*	May be useful one day
(20)	UNSIGNED	4	CHAN_CCSID	Channel codepage (as CCSID)
(24)	UNSIGNED	4	CHAN_CNUM	Total number of containers

```
--

The Container field (Type 45). This structure MUST match the
definition of DFHCHDR in DFHAPCR. The container data follows
immediately after the DFHCHDR fields. Note that the upper size
limit for an individual container is currently 2G-1. The bin(32)
length in the IS45 header allows for containers up to
4G-1-length(isfld)-length(dfhchdr), so it is sufficient for the
time being. If containers longer than this are ever supported, a
new IS field that allows splitting of a container into multiple
fields will be required. Every instance of this field will always
be preceded by either another IS45 or an IS44.

------------------------------------------------------------------
```

Table 330.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	DFHCHDR	
(0)	UNSIGNED	2	CHDR_LEN	length of container header
(2)	CHARACTER	8	CHDR_EYE	Eye catcher
(A)	CHARACTER	16	CHDR_CNAME	Name of container
(1A)	BIT(8)	1	CHDR_BITS	
(1A)	1...		CHDR_DELETED	Container is deleted
(1A)	.1..		CHDR_CHANGED	Container is changed
(1A)	..1.		CHDR_READONLY	Container is readonly
(1A)	...1		CHDR_CICS	Container is owned by system
(1A)	 1111		*	
(1B)	CHARACTER	1	CHDR_DATATYPE	Datatype (see values below)
(1C)	UNSIGNED	4	CHDR_CCSID	Codepage (as CCSID)

```
--

The Transaction Routing Attach field (Type 50).

This IS field is used to identify a request by a routing region
for a transaction routed transaction to be attached.

It carries transaction identification and terminal identification
parameters together with other parameter information for the
transaction that is to be attached in an AOR.

It is also followed by argument fields that are created and
interpreted by the IPIC Transaction Routing Transformer DFHAPRX.

------------------------------------------------------------------
```

Table 331.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	IS50_DATA	Type 50 field data
(0)	UNSIGNED	2	IS50_LEN	Length of field
(2)	CHARACTER	28	*	Terminal identification
(2)	CHARACTER	8	IS50_TERMINAL_OWNER_ NETWORK	Network name of TOR
(A)	CHARACTER	8	IS50_TERMINAL_OWNER_ NETNAME	Netname name of TOR
(12)	CHARACTER	4	IS50_TERMID	Terminal id in owning region
(16)	CHARACTER	8	IS50_TERMINAL_TOKEN	Terminal definition token
(1E)	UNSIGNED	1	IS50_PRIORITY	Priority value to pass to AOR
(1F)	BIT(8)	1	*	
(1F)	1...		IS50_TERMINAL_ SHIPPABLE	Terminal shippable(yes)
(1F)	.1..		IS50_TERMINAL_APPC	Terminal is APPC device
(1F)	..1.		IS50_CHANNEL_SEND	Channel data is being sent
(1F)	...1		IS50_SET_PRIORITY	Pass priority value to AOR
(1F)	 1111		*	
(20)	CHARACTER	0	IS50_ARGUMENTS	Start of arguments

```
--

The Transaction Routing Inquire Request field (Type 51).

This IS field is used to identify a request issued by an
application owning region to a routing region for terminal
definition parameters. It also identifies a response.

For a response, this IS field carries AP domain parameter
information in argument fields. This parameter information is a
Builder Parameter Set that is supplied by ZC Builder modules
(DFHBSxxx modules) from a DFHZCQ function INQUIRE and used as
input to ZC Builder modules with a DFHZCQ function INSTALL to
install a terminal definition in the AP domain of an application
owning region.

------------------------------------------------------------------
```

Table 332.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	IS51_DATA	Type 51 field data !
(0)	UNSIGNED	2	IS51_LEN	Length of field !
(2)	CHARACTER	0	IS51_ARGUMENTS	Start of arguments !

```
--

The Transaction Routing Relay Request field (Type 55).

This IS field is used to identify a terminal request issued in an
application owning region that is to be relayed to a routing
region. It also identifies a response.
```

```
It carries AP domain parameter information in argument fields that
identify the terminal request or response. The argument fields are
created and interpreted by the IPIC Transaction Routing
Transformer DFHAPRX.

------------------------------------------------------------------
```

Table 333.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	IS55_DATA	Type 55 field data !
(0)	UNSIGNED	2	IS55_LEN	Length of field !
(2)	CHARACTER	0	IS55_ARGUMENTS	Start of arguments !

```
--

The Transaction Routing Schedule Request field (Type 60).

This IS field is used to identify a remote schedule request. This
could be a remote terminal request issued in response to a
terminal START and flowing from the AOR to the TOR, or a remote
delete request for a badly-disconected terminal that had been
running CRTE flowing from the TOR to the AOR.

The flow is sent by and receieved by DFHCRS.

------------------------------------------------------------------
```

Table 334.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	30	IS60_DATA	Remote schedule request
(0)	UNSIGNED	2	IS60_LEN	Length of field
(2)	UNSIGNED	2	*	
(4)	CHARACTER	2	IS60_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)

```
--

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 335.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	IS61_DATA	Remote schedule response
(0)	UNSIGNED	2	IS61_LEN	Length of field
(2)	UNSIGNED	2	*	
(4)	UNSIGNED	4	IS61_RESPONSE	Response code (CRSRESPC)
(8)	CHARACTER	8	IS61_TARGET_APPLID	Name of new TOR to try (CRSR_TARGET_APPL)
(10)	CHARACTER	4	IS61_TOR_TERMID	Termid on TOR (CRSR_TOR_TERMID)

```
--

The ACD field (Type 62).

This field may appear if application context needs to be passed on
a request.

The format of the ACD data is not known to the IS domain, and can
be found in DFHMNAC.

------------------------------------------------------------------
```

Table 336.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IS62_DATA	Type 62 subfield data
(0)	FULLWORD	4	IS62_ACD_LEN	ACD len
(4)	CHARACTER	0	IS62_ACD_DATA	ACD data

Constants

Table 337.

Len	Type	Value	Name	Description
Constants for the IS HTTP header names. The HTTP header names and character data will be converted to ASCII for transmission. ----------				
13	CHARACTER	X-ibm-cics-is	ISHH_NAME	
14	CHARACTER	ARM_ CORRELATOR	ISAC_NAME	
17	CHARACTER	X-ibm-cics-is-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	

Table 337. (continued)

Len	Type	Value	Name	Description
1	CHARACTER	2	ISHH_MAJOR_V2	
1	CHARACTER	3	ISHH_MAJOR_V3	
1	CHARACTER	3	ISHH_MAJOR_CURRENT	
Values of minor_version				
1	CHARACTER	1	ISHH_MINOR_V1	
1	CHARACTER	1	ISHH_MINOR_CURRENT	
Values of ishh_chain				
1	CHARACTER	F	ISHH_FIRST	first in chain
1	CHARACTER	M	ISHH_MIDDLE	middle in chain
1	CHARACTER	L	ISHH_LAST	last or only in chain
1	CHARACTER	P	ISHH_PACING	pacing response(no data)
Values of ishh_conv_state				
1	CHARACTER	B	ISHH_BEGIN	first request in conv
1	CHARACTER	I	ISHH_IN	in conversation
1	CHARACTER	E	ISHH_END	final or only req/resp
1	CHARACTER	O	ISHH_ONLY	1st + last msg
Values of ishh_msg_type				
1	CHARACTER	D	ISHH_DATA	conversation data
1	CHARACTER	X	ISHH_EXPD	conversation level cmd
1	CHARACTER	C	ISHH_CMD	connection level command
Values of ishh_request_type				
2	CHARACTER	FC	ISHH_FC	FC request
2	CHARACTER	IC	ISHH_IC	IC request
2	CHARACTER	LN	ISHH_DPL	DPL request
2	CHARACTER	TD	ISHH_TD	TD request
2	CHARACTER	TR	ISHH_TR	TR request
2	CHARACTER	TS	ISHH_TS	TS request
2	CHARACTER		ISHH_OTHER	Non-EXEC request
ishh_ccsid, required for msg_type=D & conv_state=B, has value: - a 5 digit decimal IBM CCSID supported by dfhcnv or - blanks for no data conversion for e.g DPL commareas or - minus one for the default client code page (CLINTCP) to be used e.g. for when the input CCSID can not be determined				
5	CHARACTER		ISHH_NO_CONV	no data conversion
5	CHARACTER	-1	ISHH_DEFAULT_CONV	use default code page
Values of ishh_endian for msg_type=D if conv_state=B				
1	CHARACTER	0	ISHH_LITTLE_ENDIAN	little endian
1	CHARACTER	1	ISHH_BIG_ENDIAN	big endian
Values of ishh_cmd_id for ishh_msg_type=ISHH_CMD				
2	CHARACTER	01	ISHH_DRAIN	drain
2	CHARACTER	98	ISHH_PING	ping

Table 337. (continued)

Len	Type	Value	Name	Description
2	CHARACTER	99	ISHH_PONG	ping response
Both the connection level ping flows consist of an IS Header and a zero length message body. Values of ishh_cmd_id for ishh_msg_type=ISHH_EXPD				
1	CHARACTER	5	ISHH_PURGE	Any version of purge
2	CHARACTER	50	ISHH_TIMEOUT	timeout
2	CHARACTER	51	ISHH_PURGE_NORMAL	purge
2	CHARACTER	52	ISHH_PURGE_FORCE	forcepurge
2	CHARACTER	53	ISHH_PURGE_KILL	kill
Constants for the types of the IS message fields. All data within the request or response message is preceded by a header containing one of these types. --- TYPE 1 - 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	
TYPE 6 - SYNCPOINT COMMAND (= SNA PS Header)				
2	DECIMAL	6	ISFLD_TYPE_SPC	
TYPE 7 - CONVERSATION ERROR (= SNA FMH7)				
2	DECIMAL	7	ISFLD_TYPE_ERROR	
TYPE 8 - SECURITY				
2	DECIMAL	8	ISFLD_TYPE_SEC	
TYPE 9 - ESI				
2	DECIMAL	9	ISFLD_TYPE_ESI	
TYPE 10 - UNIT OR WORK ID RECOVERY DATA				
2	DECIMAL	10	ISFLD_TYPE_UOWID	
TYPE 11 - XID RECOVERY DATA				
2	DECIMAL	11	ISFLD_TYPE_XID	
TYPE 12 - XID RECOVERY LIST				
2	DECIMAL	12	ISFLD_TYPE_XIDRL	
TYPE 13 - RESYNC OUTCOME				
2	DECIMAL	13	ISFLD_TYPE_RSO	
TYPE 19 - ICRX = ID-propagation				
2	DECIMAL	25	ISFLD_TYPE_ICRX	
TYPE 43 - API REQUEST/RESPONSE (= SNA FMH43)				
2	DECIMAL	67	ISFLD_TYPE_API	

Table 337. (continued)

Len	Type	Value	Name	Description
TYPE 44 - CHANNEL HEADER				
2	DECIMAL	68	ISFLD_TYPE_CHANNEL	
TYPE 45 - CONTAINER				
2	DECIMAL	69	ISFLD_TYPE_CONTAINER	
TYPE 46 - FREE REQUEST				
2	DECIMAL	70	ISFLD_TYPE_FREE	
TYPE 50 - TRANSACTION ROUTING ATTACH REQUEST				
2	DECIMAL	80	ISFLD_TYPE_TR_ATTACH	
TYPE 51 - TRANSACTION ROUTING INQUIRE REQUEST/RESPONSE				
2	DECIMAL	81	ISFLD_TYPE_TR_INQUIRE	
TYPE 55 - TRANSACTION ROUTING RELAY REQUEST/RESPONSE				
2	DECIMAL	85	ISFLD_TYPE_TR_RELAY	
TYPE 60 - TRANSACTION ROUTING SCHEDULE REQUEST				
2	DECIMAL	96	ISFLD_TYPE_TR_ SCHEDULE_REQUEST	
TYPE 61 - TRANSACTION ROUTING SCHEDULE RESPONSE				
2	DECIMAL	97	ISFLD_TYPE_TR_ SCHEDULE_RESPONSE	
TYPE 62 - APPLICATION CONTEXT HEADER				
2	DECIMAL	98	ISFLD_TYPE_ACD	
Values of isce_sub_type				
1	DECIMAL	1	ISCE_SUB_LOGNAME	Local logname
1	DECIMAL	2	ISCE_SUB_IPV6_ADDR	IPv6 callback addr
Values of major_version				
1	DECIMAL	1	ISCE_MAJOR_V1	
1	DECIMAL	2	ISCE_MAJOR_V2	
1	DECIMAL	3	ISCE_MAJOR_V3	
1	DECIMAL	3	ISCE_MAJOR_CURRENT	
Values of minor_version				
1	DECIMAL	1	ISCE_MINOR_V1	
1	DECIMAL	1	ISCE_MINOR_CURRENT	
Values of isce_callback_port (1-65535 or IS_NO_PORT)				
4	DECIMAL	-1	IS_NO_PORT	
Values of isce_recovery				
1	DECIMAL	1	IS_CICS	
1	DECIMAL	2	IS_XA	
Values of iscer_sub_type				
1	DECIMAL	1	ISCER_SUB_MAX_SOCKETS	
				Number of sockets

Table 337. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	2	ISCER_SUB_MIRRORLIFE	Mirrorlife
1	DECIMAL	3	ISCER_SUB_SPECIFIC	Spec data
1	DECIMAL	4	ISCER_SUB_SPEC_IPV6	Spec ipv6
Values of iscer_response				
1	DECIMAL	1	ISCER_OK	
1	DECIMAL	2	ISCER_EXCEPTION	
1	DECIMAL	3	ISCER_DISASTER	
1	DECIMAL	4	ISCER_INVALID	
1	DECIMAL	5	ISCER_KERNERROR	
1	DECIMAL	6	ISCER_PURGED	
Values of iscer_reason				
1	DECIMAL	1	ISCER_AUTOINSTALL_ FAILED	
1	DECIMAL	2	ISCER_INVALID_IPCONN_ STATE	
1	DECIMAL	3	ISCER_INVALID_PARTNER_ STATE	
1	DECIMAL	4	ISCER_IPCONN_NOT_FOUND	
1	DECIMAL	5	ISCER_ISCE_ERROR	
1	DECIMAL	6	ISCER_ISCE_INVALID_ APPLID	
1	DECIMAL	7	ISCER_ISCE_TIMED_OUT	
1	DECIMAL	8	ISCER_ISCE_BAD_RECOV	
1	DECIMAL	9	ISCER_ISCER_BAD_ RESPONSE	
1	DECIMAL	10	ISCER_ISCER_ERROR	
1	DECIMAL	11	ISCER_ISCER_HTTP_ERROR	
1	DECIMAL	12	ISCER_ISCER_TIMED_OUT	
1	DECIMAL	13	ISCER_SESSION_OPEN_ FAILED	
1	DECIMAL	14	ISCER_SHUTDOWN	
1	DECIMAL	15	ISCER_TCPIP_CLOSED	
1	DECIMAL	16	ISCER_TCPIPSERVICE_ MISMATCH	
1	DECIMAL	17	ISCER_TCPIPSERVICE_ NOT_FOUND	
1	DECIMAL	18	ISCER_TCPIPSERVICE_ NOT_OPEN	
1	DECIMAL	19	ISCER_NO_IPCONN	
1	DECIMAL	20	ISCER_ONE_WAY_IPCONN	
1	DECIMAL	21	ISCER_CAPEX_RACE	
1	DECIMAL	22	ISCER_SECURITY_ VIOLATION	
1	DECIMAL	23	ISCER_SEC_SOCK_ERROR	
1	DECIMAL	24	ISCER_CLIENT_SOCKET_ ERROR	

Table 337. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	25	ISCER_INVALID_HA_ TCPIPSERVICE	
1	DECIMAL	26	ISCER_HA_RESOURCE_ MISMATCH	
NOTE - remember to change the logic in dfhisco_check_iscer_reason when any new reason codes are added here.				
1	DECIMAL	99	ISCER_UNKNOWN	
Values of isbis_conv_resp				
2	DECIMAL	0	ISBIS_FORGET_PENDING	
2	DECIMAL	1	ISBIS_OK_TO_FORGET	
2	DECIMAL	2	ISBIS_FORGET_RESOLVED	
2	DECIMAL	3	ISBIS_TASK_ACTIVE	
2	DECIMAL	4	ISBIS_FORGET_NOT_ PENDING	
2	DECIMAL	5	ISBIS_CONV_NOT_FOUND	
PS LL value is fixed for all messages				
2	DECIMAL	1	PS_LL_VALUE	
Header Length constants for SP messages				
1	DECIMAL	6	PS_HLEN_PREP	Prepare
1	DECIMAL	6	PS_HLEN_RCOM	Request Commit
1	DECIMAL	4	PS_HLEN_CMTD	Committed
1	DECIMAL	4	PS_HLEN_FGET	Forget
1	DECIMAL	4	PS_HLEN_HMIX	Heuristic Mix
1	DECIMAL	4	PS_HLEN_NLUW	New LUWID
Default syncpoint control type - always 0001010b				
1	DECIMAL	10	PS_TYPE_SPC	Syncpoint Control
Flag byte values				
1	DECIMAL	64	PS_FLAG_PFLD	Prep + new LU
1	DECIMAL	96	PS_FLAG_CFLD	RCom Reserved
1	DECIMAL	64	PS_FLAG_CFLB	RCom Reliable
1	DECIMAL	32	PS_FLAG_CFLV	Vote reliable
1	DECIMAL	8	PS_FLAG_FGET	Implied Forget
1	DECIMAL	0	PS_FLAG_NFGT	No Implied Forget
1	DECIMAL	0	PS_FLAG_ZERO	Cleared
Command byte values				
1	DECIMAL	5	PS_CMD_PREP	Prepare
1	DECIMAL	6	PS_CMD_RCOM	Request Commit
1	DECIMAL	7	PS_CMD_CMTD	Committed
1	DECIMAL	8	PS_CMD_FGET	Forget
1	DECIMAL	9	PS_CMD_HMIX	Heuristic Mix
SyncPoint Control Modifications				

Table 337. (continued)

Len	Type	Value	Name	Description
2	DECIMAL	0	PS_SPCM_REQR	Request Received
2	DECIMAL	1	PS_SPCM_REQL	Request Last
2	DECIMAL	2	PS_SPCM_REQS	Request Sent
1	DECIMAL	1	IS7_SUB_MESSAGE	
FMH7 Sense Codes used by IS domain in IS7 fields.				
4	DECIMAL	1	ISSNS_ROUTED_TRANS_ ABENDED	
4	DECIMAL	135203203	ISSNS_ACCESS_DENIED	
4	DECIMAL	135225425	ISSNS_SECURITY_NOT_ VALID	
4	DECIMAL	135593984	ISSNS_DUPLICATE_ PREPARE	
4	DECIMAL	136577024	ISSNS_TASK_BACKED_OUT	
4	DECIMAL	136577025	ISSNS_TASK_BACKED_OUT_ 1	
4	DECIMAL	137953280	ISSNS_IPCONN_QUIESCING	
4	DECIMAL	139198464	ISSNS_NOT_AVAIL_NO_ RETRY	
4	DECIMAL	140771329	ISSNS_DEALLOCATE_ ABEND_SVC	
4	DECIMAL	268984331	ISSNS_RESOURCE_FAILURE	
4	DECIMAL	268984353	ISSNS_TPN_NOT_ RECOGNIZED	
Values for is8_type				
1	DECIMAL	1	IS8_USERID	
1	DECIMAL	2	IS8_PASSWORD	
1	DECIMAL	3	IS8_PASSWORD_TYPE	
1	DECIMAL	4	IS8_GROUPID	
Values for is8_string_password_type				
1	DECIMAL	1	IS8_PASSWORD_MASKED	Default
1	DECIMAL	2	IS8_PASSWORD_CLEAR	
Various GDS field length constants				
1	DECIMAL	8	MAX_USERID_LENGTH	
1	DECIMAL	100	MAX_PASSWORD_LENGTH	
1	DECIMAL	221	MAX_TOTAL_SF_LENGTH	
Identifiers used for describing GDS input and output data				
2	HEX	1221	VERIFY_TP_ID	
2	HEX	FF00	VERIFY_ID	
2	HEX	FF01	CHANGE_PASSWORD_ID	
2	HEX	FF02	VERIFY_REPLY_ID	
Valid Subfield identifiers				
1	HEX	00	PROFILE_SF_ID	
1	HEX	01	USERID_SF_ID	
1	HEX	02	PASSWORD_SF_ID	

Table 337. (continued)

Len	Type	Value	Name	Description
1	HEX	03	THREE_PART_UID_SF_ID1	
1	HEX	04	THREE_PART_UID_SF_ID2	
1	HEX	05	THREE_PART_UID_SF_ID3	
1	HEX	06	NEW_PASSWORD_SF_ID	
Reasons used for Unsuccessful Reply				
1	HEX	01	USERID_NOT_KNOWN	
1	HEX	02	INCORRECT_PASSWORD	
1	HEX	03	EXPIRED_PASSWORD	
1	HEX	04	NEW_PASSWORD_NOT_ ACCEPTABLE	
1	HEX	05	SECURITY_FUNCTION_ FAILURE	
Invalid Data Format format errors				
2	HEX	0001	REQUIRED_STRUCTURE_ ABSENT	
2	HEX	0002	PRECLUDED_STRUCTURE_ PRESENT	
2	HEX	0003	MULTIPLE_NON_ REPEATABLE_STRUCT	
2	HEX	0005	UNRECOGNIZED_STRUCTURE	
2	HEX	0006	LENGTH_OUTSIDE_RANGE	
2	HEX	0007	LENGTH_EXCEPTION	
2	HEX	000F	DATA_VALUE_OUT_OF_ RANGE	
4	DECIMAL	2000	MAX_ICRX_SIZE	
1	CHARACTER	S	RSO_SUCCESS	
1	CHARACTER	F	RSO_FAILURE	
1	DECIMAL	2	IS43_SUB_PROGRAM	LINK program name
1	DECIMAL	4	IS43_SUB_CLENGTH	LINK commarea length
1	DECIMAL	6	IS43_SUB_COMMAREA	LINK commarea
1	DECIMAL	8	IS43_SUB_TRANSID	LINK mirror transid
1	DECIMAL	10	IS43_SUB_HEXTRANS	LINK mirror hex transid
Constant for chan_version				
1	DECIMAL	1	CHAN_CURRENT_VERSION	
Constant for chan_eye				
8	CHARACTER	>DFHCHAN	CHAN_EYECATCHER	
Constant for chdr_eye				
8	CHARACTER	>DFHCHDR	CHDR_EYECATCHER	
Values for chdr_datatype				
1	CHAR HEX	01	CHDR_BIT	
1	CHAR HEX	02	CHDR_CHAR	
1	CHAR HEX	03	CHDR_STRUCTURE	Reserved for release 2

ISRDS - ISC IP Connection Statistics

```
CONTROL BLOCK NAME = DFHISRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHISRPS
DESCRIPTIVE NAME = CICS TS IPCONN statistics record
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2006, 2009
FUNCTION = This data area contains the IPCONN statistics
            provided by the IS Domain.
            It is provided for use in users monitoring applications
            to map the statistics returned via the API or the
            statistics global user exit.
            There is a single instance of this data block.
LIFETIME =
       This data block is created by the IS Domain to store
       statistics to be passed to the user in response to a
       for IPCONN statistics. The storage is released when the
       user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
```

Table 338.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHISRDS	IPCONN Resid stats record
(0)	HALFWORD	2	ISRDS_LEN	IPCONN stats record length
(2)	ADDRESS	2	ISRDS_ID	IPCONN stats id
(4)	CHARACTER	1	ISRDS_VERS	IPCONN stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	ISR_IPCONN_NAME	IPCONN name
(10)	CHARACTER	8	ISR_APPLID	IPCONN applid
(18)	CHARACTER	8	ISR_NETWORK_ID	IPCONN network id
(20)	CHARACTER	116	ISR_HOST_NAME	IPCONN Host name
(94)	CHARACTER	4		Reserved
(98)	FULLWORD	4	ISR_PORT_NUMBER	IPCONN port number
(9C)	BITSTRING	1	ISR_SSL_SUPPORT	IPCONN SSL Support
(9D)	BITSTRING	1	ISR_USERAUTH	IPCONN Userauth
(9E)	BITSTRING	1	ISR_LINKAUTH	IPCONN Linkauth
(9F)	BITSTRING	1	ISR_MIRRORLIFE	IPCONN Mirrorlife
(A0)	CHARACTER	8	ISR_TCPIP_SERVICE	IPCONN Tcpip service
(A8)	CHARACTER	28		Reserved
(C4)	FULLWORD	4	ISR_FS_TS_REQUESTS	FS Temporary Storage (TS) reqs

Table 338. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C8)	BITSTRING	8	ISR_FS_TS_BYTES_SENT	FS TS reqs bytes sent
(D0)	BITSTRING	8	ISR_FS_TS_BYTES_ RECEIVED	FS TS reqs bytes received
(D8)	CHARACTER	8	ISR_IPCONN_GMT_ CREATE_TIME	AI IPCONN create time - GMT
(E0)	CHARACTER	8	ISR_IPCONN_CREATE_ TIME	AI IPCONN create time - Local
(E8)	CHARACTER	8	ISR_IPCONN_GMT_ DELETE_TIME	AI IPCONN delete time - GMT
(F0)	CHARACTER	8	ISR_IPCONN_DELETE_ TIME	AI IPCONN delete time - Local
(F8)	CHARACTER	8		Reserved
(100)	FULLWORD	4	ISR_SEND_SESSIONS	Send sessions
(104)	FULLWORD	4	ISR_CURRENT_SEND_ SESSIONS	Current send sessions
(108)	FULLWORD	4	ISR_PEAK_SEND_ SESSIONS	Peak send sessions
(10C)	FULLWORD	4		Reserved
(110)	FULLWORD	4		Reserved
(114)	FULLWORD	4	ISR_RECEIVE_SESSIONS	Receive sessions
(118)	FULLWORD	4	ISR_CURRENT_RECEIVE_ SESSIONS	Current receive sessions
(11C)	FULLWORD	4	ISR_PEAK_RECEIVE_ SESSIONS	Peak receive sessions
(120)	FULLWORD	4		Reserved
(124)	FULLWORD	4	ISR_TR_REQUESTS	Transaction Routing (TR) reqs
(128)	BITSTRING	8	ISR_TR_BYTES_SENT	TR reqs bytes sent
(130)	BITSTRING	8	ISR_TR_BYTES_RECEIVED	TR reqs bytes received
(138)	FULLWORD	4	ISR_TOTAL_ALLOCATES	IPCONN total allocates
(13C)	FULLWORD	4	ISR_CURRENT_QUEUED_ ALLOCATES	Current 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
(174)	FULLWORD	4		Reserved
(178)	FULLWORD	4		Reserved

Table 338. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(17C)	FULLWORD	4	ISR_XISQUE_ALLOC_ REJECTS	Xisque allocate rejects
(180)	FULLWORD	4	ISR_XISQUE_ALLOC_ QPURGES	Xisque allocate qpurges
(184)	FULLWORD	4	ISR_XISQUE_ALLOCS_ PURGED	Xisque allocates purged
(188)	FULLWORD	4		Reserved
(18C)	FULLWORD	4	ISR_TRANS_ATTACHED	No. transactions attached
(190)	FULLWORD	4	ISR_REMOTE_TERM_ STARTS	Remote terminal starts
(194)	FULLWORD	4	ISR_UNSUPPORTED_ REQUESTS	Unsupported requests
(198)	FULLWORD	4		Reserved
(19C)	FULLWORD	4	ISR_FS_PG_REQUESTS	Function Shipped Program reqs
(1A0)	BITSTRING	8	ISR_FS_PG_BYTES_SENT	FS Program reqs bytes sent
(1A8)	BITSTRING	8	ISR_FS_PG_BYTES_ RECEIVED	FS Program reqs bytes received
(1B0)	FULLWORD	4		Reserved
(1B4)	FULLWORD	4	ISR_FS_IC_REQUESTS	FS Interval Control (IC) reqs
(1B8)	BITSTRING	8	ISR_FS_IC_BYTES_SENT	FS IC reqs bytes sent
(1C0)	BITSTRING	8	ISR_FS_IC_BYTES_ RECEIVED	FS IC reqs bytes received
(1C8)	CHARACTER	39	ISR_IPCONN_IP_ADDRESS	IP Resolved Address
(1EF)	BITSTRING	1	ISR_IPCONN_IP_FAMILY	IP Family
(1F0)	BITSTRING	8		Reserved
(1F8)	CHARACTER	8	ISR_IPCONN_DEFINE_ SOURCE	Group installed from
(200)	BITSTRING	8	ISR_IPCONN_CHANGE_ TIME	Change/create time
(208)	CHARACTER	8	ISR_IPCONN_CHANGE_ USERID	Change userid
(210)	BITSTRING	2	ISR_IPCONN_CHANGE_ AGENT	Change agent
(212)	BITSTRING	2	ISR_IPCONN_INSTALL_ AGENT	Install agent
(214)	BITSTRING	8	ISR_IPCONN_INSTALL_ TIME	Install/Create time
(21C)	CHARACTER	8	ISR_IPCONN_INSTALL_ USERID	Install userid
(224)	FULLWORD	4	ISR_FS_FC_REQUESTS	FS File Control (FC) reqs
(228)	BITSTRING	8	ISR_FS_FC_BYTES_SENT	FS FC reqs bytes sent
(230)	BITSTRING	8	ISR_FS_FC_BYTES_ RECEIVED	FS FC reqs bytes received
(238)	CHARACTER	12		Reserved
(238)		0	ISRDS_END	"*"
(238)		0	ISRDS_LENGTH	"*-ISRDS_LEN" IPCONN record length
Constants that denote an IS IPCONN stats record				
(238)	.11. 11.1		ISRIDR	"109" IPCONN resid stats id
(238)	1		ISR_VERS	"X'01'" Record version number
(238)	1		ISR_SSL_YES	"X'01'" SSL = Yes
(238)	.... ..1.		ISR_SSL_NO	"X'02'" SSL = No

Table 338. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(238)	1		ISR_USERAUTH_ DEFAULTUSER	"X'01'" Userauth = Defaultuser
(238)	.... ..1.		ISR_USERAUTH_IDENTIFY	"X'02'" Userauth = Identify
(238)	11		ISR_USERAUTH_LOCAL	"X'03'" Userauth = Local
(238)	.... .1..		ISR_USERAUTH_VERIFY	"X'04'" Userauth = Verify
(238)	1		ISR_LINKAUTH_CERTUSER	"X'01'" Linkauth = Certuser
(238)	.... ..1.		ISR_LINKAUTH_SECUSER	"X'02'" Linkauth = Secuser
(238)	....		ISR_IP_FAMILY_UNKNOWN	"X'00'" IP family = Unknown
(238)	1		ISR_IP_FAMILY_IPV4	"X'01'" IP family = IPv4
(238)	.... ..1.		ISR_IP_FAMILY_IPV6	"X'02'" IP family = IPv6 Change Agents
(238)	1		ISR_CSDAPI_CHANGE	"0001" CSD API
(238)	.... ..1.		ISR_CSDBATCH_CHANGE	"0002" DFHCSDUP
(238)	11		ISR_DREPAPI_CHANGE	"0003" DREP API
(238)	.... .1..		ISR_CREATE_CHANGE	"0004" EXEC CREATE SPI
(238)	.... .11.		ISR_AUTOINSTALL_ CHANGE	"0006" AUTOINSTALL Install Agents
(238)	1		ISR_CSDAPI_INSTALL	"0001" CSD API
(238)	.... .1..		ISR_CREATE_INSTALL	"0004" EXEC CREATE SPI
(238)	.... .1.1		ISR_GRPLIST_INSTALL	"0005" GRPLIST
(238)	.... .11.		ISR_AUTOINSTALL_ INSTALL	"0006" AUTOINSTALL
(238)	1		ISR_MIRRORLIFE_ REQUEST	"X'01'" Mirrorlife = Request
(238)	.... ..1.		ISR_MIRRORLIFE_TASK	"X'02'" Mirrorlife = Task
(238)	11		ISR_MIRRORLIFE_UOW	"X'03'" Mirrorlife = UOW

JCA - Journal Control area

```
CONTROL BLOCK NAME = DFHJCAPS
DESCRIPTIVE NAME = CICS TS Journal Control Area
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1987, 2015
FUNCTION =
     The JCA contains the parameter lists that communicate
  between a task requiring journalling services, and other
  fields used internally by journalling.
LIFETIME =
     A JCA is normally created on the first occasion that a
  task requests a service of journalling, and persists until
  the task terminates. ( Journalling also creates some JCAs
  for internal purposes.) Creation involves DFHJCP, deletion
  is incidental to deletion of the TCA.
STORAGE CLASS =
     JCA ('9B'X)
LOCATION =
    Addressed by TCAJCAAD in the user TCA.
INNER CONTROL BLOCKS =
     None
```

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

Table 339.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	54	DFHJCZDS	JCA
(0)	HALFWORD	2	JCZLEN	Length of the JCA
(2)	CHARACTER	6	JCZEYE	JCA eyecatcher
(8)	BIT(8)	1	JCZTR3	- type of request, byte 3
(9)	BIT(8)	1	JCZTR2	- type of request, byte 2
(A)	BIT(8)	1	JCZTR1	- type of request, byte 1
(B)	BIT(8)	1	JCZJCRC	- return code
(C)	ADDRESS	4	JCZADATA	- A(user data)
(10)	ADDRESS	4	JCZAPRFX	- A(user prefix)
(14)	FULLWORD	4	JCZFTOK	force token
(18)	FULLWORD	4	JCZFLEN	- fullword L(user data)
(18)	HALFWORD	2	*	- section to allow 64K
(1A)	HALFWORD	2	JCZLDATA	- used with LENGTH
(1C)	HALFWORD	2	JCZLPRFX	- L(user prefix)
(1E)	HALFWORD	2	JCZJNUM	journal number as halfword
(20)	UNSIGNED	1	JCZJFID	- journal identifier
(21)	CHARACTER	8	JCZJNAME	journal name identifier
(29)	CHARACTER	2	JCZDOMID	calling domain identifier
(2B)	CHARACTER	1	*	Reserved
JCA user prefix: terminal control segment				
(2C)	CHARACTER	10	JCZUPTC	origin of user prefix
(2C)	CHARACTER	2	JCZJRTID	- JC rec type (DFHFMIPS)
(2C)	BIT(8)	1	JCZMODFN	- module function
(2D)	BIT(8)	1	JCZSVMID	- module id
(2E)	HALFWORD	2	JCZVSPIN	LU6.1 inbound sequence number
(30)	HALFWORD	2	JCZVSPON	LU6.1 outbound sequence number
(32)	CHARACTER	4	JCZUPTID	Terminal ID

Constants

Table 340.

Len	Type	Value	Name	Description
JCZTR3 - CICS system request symbolic settings				
1	HEX	10	JCZTRANY	Concerning addressing mode -- user data may be 'anywhere'
JCZTR2 - Request-modifying symbolic settings				

Table 340. (continued)

Len	Type	Value	Name	Description
1	HEX	01	JCZTROUT	TYPE=OUTPUT (with OPEN)
1	HEX	01	JCZTRL	LEAVE=YES (with CLOSE request)
1	HEX	01	JCZTRCR	Conditional (WRITE) request
1	HEX	02	JCZTRIN	TYPE=INPUT (with OPEN)
1	HEX	02	JCZTRSIO	STARTIO=YES (with WRITE)
1	HEX	04	JCZTRPFX	User prefix specified (WRITE)
JCZTR1 - Request-type symbolic settings				
1	HEX	01	JCZTRWR	TYPE=WRITE
1	HEX	02	JCZTRW	TYPE=WAIT
1	HEX	03	JCZTRPUT	TYPE=PUT (=WRITE, WAIT)
JCZJCRC - return code symbolic settings				
1	HEX	00	JCZRCNR	normal response
1	HEX	01	JCZRCIDE	journal id error
1	HEX	02	JCZRCIRE	invalid request
1	HEX	03	JCZRCSE	status error
1	HEX	04	@NM00003	reserved
1	HEX	05	JCZRCNOE	journal not open
1	HEX	06	JCZRCLE	length error
1	HEX	07	JCZRCIOE	I/O error
1	HEX	08	JCZRCEOF	end of file (for input req)
1	HEX	09	JCZRCCR	COND=YES, buffer full
MISCELLANEOUS VALUES				
1	HEX	63	JCZJNMAX	Max journalname = 99

KCS - Transaction manager static storage

```
CONTROL BLOCK NAME = DFHKCSPS
DESCRIPTIVE NAME = CICS TS TRANSACTION MANAGER STATIC STORAGE
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1984, 1994
FUNCTION =
     Static storage used by task control component for
     ECBs and working storage.
     There is a single instance of this control block in a CICS
     system.
LIFETIME =
     It is allocated and initialized to hex zeroes in DFHSIB1.
     It has the lifetime of the CICS system.
STORAGE CLASS =
     CICS static storage.
```

```
LOCATION =
     Addresses from static storage address list.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
  DATA AREAS = None
  CONTROL BLOCKS = PCT
  GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
```

Table 341.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	DFHKCZPS	
(0)	CHARACTER	4	KCZOBECB	open-for-business ECB
(0)	BIT(8)	1	*	
(0)	1...		*	Reserved
(0)	.1..		KCZOBPST	open-for-business post bit *
(4)	CHARACTER	4	KCZCPECB	KC restart complete ECB *
(4)	BIT(8)	1	*	
(4)	1...		*	Reserved
(4)	.1..		KCZCPPST	restart complete post bit *
(8)	BIT(8)	1	KCZFLAGS	restart flags
(8)	1...		KCZRSTIN	restart initiated
(9)	UNSIGNED	1	KCZRSTRC	restart return code
(A)	CHARACTER	2	KCZREASN	MSG DFH0302 REASON CODE *
(C)	ADDRESS	4	KCZNQPCH	DFHKC ENQ string enqueue pool
(10)	ADDRESS	4	KCZNQPAD	DFHKC ENQ address enqueue pool
(14)	CHARACTER	0	KCZTLEN	LENGTH INDICATOR

KERRD - Kernel error data

```
CONTROL BLOCK NAME = DFHKERRD
MATCHING ASSEMBLER CONTROL BLOCK = DFHKERN TYPE=ERROR_DATA
DESCRIPTIVE NAME = CICS TS Kernel Error Data
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1988, 2015
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 342.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1280	KERNEL_ERROR_DATA	
(0)	CHARACTER	8	KERNEL_ERROR_CODE	XXX/NNNN System & User Code
(8)	UNSIGNED	1	KERNEL_ERROR_TYPE	Error type, see below
(9)	BIT(8)	1	KERNEL_ERROR_FLAGS	MVS FLAGS
(9)	1...		KERNEL_ERROR_DUMP_ REQUESTED	A dump was requested
(9)	.111		KERNEL_ERROR_ EXECUTING_RB	Flags determining error RB.
(9)	.1..		KERNEL_ERROR_SRB_MODE	Error in SRB mode

Table 342. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(9)	..1.		KERNEL_ERROR_IRB	IRB on RB stack
(9)	...1		KERNEL_ERROR_CICS_ RB_NOT_ACTIVE	CICS RB not in control
(9)	.... 1...		*	Reserved
(9)	.... .1..		KERNEL_ERROR_REASON_ PRESENT	Abend reason code is present
(9)	.... ..1.		KERNEL_ERROR_BFPR_ SAVED	all fp regs
(9)	1		KERNEL_ERROR_VRR_ SAVED	vector regs
(A)	BIT(16)	2	KERNEL_ERROR_SYSTEM_ INT	XXX in binary format
(C)	BIT(16)	2	KERNEL_ERROR_USER_INT	NNNN in binary format
(E)	HALFWORD	2	*	Reserved
(10)	CHARACTER	8	KERNEL_ERROR_PROGRAM	Name of program in error
(18)	ADDRESS	8	KERNEL_ERROR_ADDRESS	Address of program in error
(20)	ADDRESS	4	*	Reserved - 64 bit
(24)	FULLWORD	4	KERNEL_ERROR_TASTRTOK	Transaction token
(28)	ADDRESS	8	KERNEL_ERROR_TAS_ ADDRESS	Address of task in error
(30)	FULLWORD	4	KERNEL_ERROR_TASRQTOK	Attach token of task
(34)	FULLWORD	4	KERNEL_ERROR_NUMBER	Error number
(38)	CHARACTER	4	KERNEL_ERROR_REASON	Abend reason code
(3C)	FULLWORD	4	KERNEL_ERROR_OFFSET_F	Offset of program in
(3C)	UNSIGNED	2	*	error
(3E)	UNSIGNED	2	KERNEL_ERROR_OFFSET	
`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	
(42)	1...		CICS_ERROR_AR_MODE	CICS AR mode flag
(43)	BIT(40)	5	*	Padding
(48)	ADDRESS	8	CICS_ERROR_ INSTRUCTION_ADDR	PSW address
(50)	CHARACTER	8	CICS_ERROR_EC_ADD	Int Code, ILC from SDWAAEC2
(58)	ADDRESS	4	*	Reserved - 64 bit
(5C)	ADDRESS	4	*	Reserved - 64 bit PSW address
(60)	UNSIGNED	1	CICS_ERROR_KEY	PSW key in form X'n0'
(61)	BIT(8)	1	CICS_ERROR_FLAG	various flags

Table 342. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(61)	1...		CICS_ERROR_BIT64_GPR	64_bit GPR
(61)	.111 1111		*	
(62)	UNSIGNED	2	*	Padding
(64)	ADDRESS	4	*	Reserved - 64 bit
(68)	CHARACTER	128	CICS_ERROR_REGST	
(68)	CHARACTER	128	CICS_ERROR_R32_ STORAGE	
(68)	ADDRESS	4	CICS_ERROR_ REGISTERS32 (16)	
(A8)	ADDRESS	4	CICS_ERROR_G64H (16)	
(68)	ADDRESS	8	CICS_ERROR_ REGISTERS64 (16)	64bit GPR
(E8)	CHARACTER	64	CICS_ERROR_ACCESS_ REGST	
(E8)	ADDRESS	4	CICS_ERROR_ACCESS_ REGISTERS (16)	CICS Access Regs
(128)	CHARACTER	232	SYSTEM_ERROR_DATA	System error data
(128)	BIT(128)	16	SYSTEM_ERROR_16_PSW	PSW EC Mode
(128)	BIT(16)	2	*	Padding
(12A)	BIT(8)	1	SYSTEM_ERROR_16_BYTE3	
(12A)	1...		SYSTEM_ERROR_AR_MODE	SYSTEM AR mode flag
(12B)	BIT(40)	5	*	Padding
(130)	ADDRESS	8	SYSTEM_ERROR_ INSTRUCTION_ADDR	PSW address
(138)	CHARACTER	8	SYSTEM_ERROR_EC_ADD	Int Code, ILC from SDWAAEC1
(140)	ADDRESS	4	*	Reserved - 64 bit
(144)	ADDRESS	4	*	Reserved - 64 bit
(148)	UNSIGNED	1	SYSTEM_ERROR_KEY	PSW key in form X'n0'
(149)	BIT(8)	1	SYSTEM_ERROR_FLAG	
(149)	1...		SYSTEM_ERROR_BIT64_ GPR	64bit gpr
(149)	.111 1111		*	
(14A)	UNSIGNED	2	*	Padding
(14C)	ADDRESS	4	*	Reserved - 64 bit
(150)	CHARACTER	128	SYSTEM_ERROR_REGST	
(150)	CHARACTER	128	SYSTEM_ERROR_R32_ STORAGE	
(150)	ADDRESS	4	SYSTEM_ERROR_ REGISTERS32 (16)	
(190)	ADDRESS	4	SYSTEM_ERROR_ G64H (16)	
(150)	ADDRESS	8	SYSTEM_ERROR_ REGISTERS64 (16)	64bit GPR
(1D0)	CHARACTER	64	SYSTEM_ERROR_ACCESS_ REGST	
(1D0)	ADDRESS	4	SYSTEM_ERROR_ACCESS_ REGISTERS (16)	System access registers
(210)	BIT(64)	8	KERNEL_ERROR_ TIMESTAMP	Timestamp of error

Table 342. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(218)	CHARACTER	132	KERNEL_ERROR_FP_REGS	FP register values:
(218)	CHARACTER	8	KERNEL_ERROR_FP_REG_0	FP register 0
(220)	CHARACTER	8	*	FP register 1
(228)	CHARACTER	8	KERNEL_ERROR_FP_REG_2	FP register 2
(230)	CHARACTER	8	*	FP register 3
(238)	CHARACTER	8	KERNEL_ERROR_FP_REG_4	FP register 4
(240)	CHARACTER	8	*	FP register 5
(248)	CHARACTER	8	KERNEL_ERROR_FP_REG_6	FP register 6
(250)	CHARACTER	8	*	FP register 7
(258)	CHARACTER	8	*	FP register 8
(260)	CHARACTER	8	*	FP register 9
(268)	CHARACTER	8	*	FP register 10
(270)	CHARACTER	8	*	FP register 11
(278)	CHARACTER	8	*	FP register 12
(280)	CHARACTER	8	*	FP register 13
(288)	CHARACTER	8	*	FP register 14
(290)	CHARACTER	8	*	FP register 15
(298)	CHARACTER	4	KERNEL_ERROR_FPC_ REGISTER	FPC register
(29C)	CHARACTER	4	*	Reserved
The following 2 fields are only valid if KERNEL_ERROR_IN_SUBSPACE is set				
(2A0)	CHARACTER	8	KERNEL_ERROR_STOKEN	Stoken for subspace
(2A8)	CHARACTER	4	KERNEL_ERROR_ALET	ALET for subspace
(2AC)	BIT(8)	1	KERNEL_ERROR_ SUBSPACE_FLAGS	
(2AC)	1...		KERNEL_ERROR_IN_ SUBSPACE	error while in ss
(2AC)	.1..		KERNEL_ACTIVE_IN_ SUBSPACE	in subspace
(2AC)	..11 1111		*	Reserved
(2AD)	CHARACTER	3	*	Reserved
(2B0)	CHARACTER	8	KERNEL_ERROR_BEAR	BEAR
(2B8)	ADDRESS	4	KERNEL_ERROR_KTCB_ POINTER	
(2BC)	CHARACTER	4	KERNEL_ERROR_TRAN_ TRANNUM	
(2C0)	CHARACTER	8	KERNEL_ERROR_TEA	Translation exception address
(2C8)	CHARACTER	8	*	
(2D0)	CHARACTER	48	*	Reserved
(300)	CHARACTER	512	KERNEL_ERROR_VR_REGS	VR register values:
(300)	CHARACTER	16	KERNEL_ERROR_VR_REG_0	VR register 0
(310)	CHARACTER	16	KERNEL_ERROR_VR_REG_1	VR register 1
(320)	CHARACTER	16	KERNEL_ERROR_VR_REG_2	VR register 2

Table 342. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(330)	CHARACTER	16	KERNEL_ERROR_VR_REG_3	VR register 3
(340)	CHARACTER	16	KERNEL_ERROR_VR_REG_4	VR register 4
(350)	CHARACTER	16	KERNEL_ERROR_VR_REG_5	VR register 5
(360)	CHARACTER	16	KERNEL_ERROR_VR_REG_6	VR register 6
(370)	CHARACTER	16	KERNEL_ERROR_VR_REG_7	VR register 7
(380)	CHARACTER	16	KERNEL_ERROR_VR_REG_8	VR register 8
(390)	CHARACTER	16	KERNEL_ERROR_VR_REG_9	VR register 9
(3A0)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 10	VR register 10
(3B0)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 11	VR register 11
(3C0)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 12	VR register 12
(3D0)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 13	VR register 13
(3E0)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 14	VR register 14
(3F0)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 15	VR register 15
(400)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 16	VR register 16
(410)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 17	VR register 17
(420)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 18	VR register 18
(430)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 19	VR register 19
(440)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 20	VR register 20
(450)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 21	VR register 21
(460)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 22	VR register 22
(470)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 23	VR register 23
(480)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 24	VR register 24
(490)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 25	VR register 25
(4A0)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 26	VR register 26
(4B0)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 27	VR register 27
(4C0)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 28	VR register 28
(4D0)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 29	VR register 29
(4E0)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 30	VR register 30
(4F0)	CHARACTER	16	KERNEL_ERROR_VR_REG_ 31	VR register 31
(500)	CHARACTER	0	*	

Constants

Table 343.

Len	Type	Value	Name	Description
`Kernel Error Type: Value Definitions.`				
1	DECIMAL	1	KERNEL_ERROR_PROGRAM_ CHECK	
1	DECIMAL	2	KERNEL_ERROR_ABEND	
1	DECIMAL	3	KERNEL_ERROR_RUNAWAY	

Table 343. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	4	KERNEL_ERROR_REQUESTED	
1	DECIMAL	5	KERNEL_ERROR_PERCOLATE	
1	DECIMAL	6	KERNEL_ERROR_KERNERROR	
1	DECIMAL	7	KERNEL_ERROR_DEFERRED_ ABEND	
1	DECIMAL	8	KERNEL_ERROR_LINKAGE	
1	DECIMAL	9	KERNEL_ERROR_ABEND_ PERCOLATE	
1	DECIMAL	10	KERNEL_ERROR_ABEND_ REQUESTED	
1	DECIMAL	11	KERNEL_ERROR_RUNNING_ CANCEL	
1	DECIMAL	12	KERNEL_ERROR_KILL	
Kernel Error Executing RB : Test value - Error occurred in CICS RB if: not in SRB mode, no IRB in RB stack, and CICS RB was in control.				
0	BIT	000	KERNEL_ERROR_CICS_RB	

KPLEC - Keypoint list element

```
CONTROL BLOCK NAME = DFHKPLEC
DESCRIPTIVE NAME = CICS TS (FILE) Keypoint List Element DSECT
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1994, 1995
FUNCTION =
     Declare a structure for the keypoint list element (KPLE).
     The keypoint list forms part of file control's
     implementation of fuzzy image copy, also known as backup
     while open. One KPLE exists for each keypoint and records
     the start and end times at which tie up records are written.
LIFETIME =
     The keypoint list elements are created, processed and
     deleted (when they become redundant) by DFHFCBWO. DFHFCBWO
     is called from the file control 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 344.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	KPLE	keypoint list element
(0)	ADDRESS	4	KPLE_NEXT	pointer to next element, or null pointer if the last
(4)	CHARACTER	8	KPLE_START_WRITE_ PACKED	when starting to write TURs
(4)	CHARACTER	4	KPLE_START_WRITE_DAY	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 public LIBRARYs

```
CONTROL BLOCK NAME = DFHLDBDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHLDBPS
DESCRIPTIVE NAME = CICS TS Loader Statistics for LIBRARYs
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2006, 2013
FUNCTION =
       This block described the statistics collected by the Loader
       Domain.
       There is an instance of this block for each public library
       for which statistics have been requested.
LIFETIME = This block exists until the statistics request has been
       satisfied.
STORAGE CLASS =
LOCATION = The user is passed a pointer to the head of the block
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = None
    GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLDBDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 345.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLDBDS	Loader Library Resid stats record
(0)	HALFWORD	2	LDBDS_LEN	Loader Library stats record length

Table 345. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	ADDRESS	2	LDBDS_ID	Loader Library stats id
(4)	CHARACTER	1	LDBDS_VERS	Loader Library stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	LDB_LIBRARY_NAME	Library name
(10)	FULLWORD	4	LDB_LIBRARY_SEARCH_ POS	Library search position
(14)	FULLWORD	4	LDB_LIBRARY_RANKING	Library ranking
(18)	BITSTRING	1	LDB_LIBRARY_CRITICAL	Library critical
(19)	BITSTRING	1	LDB_LIBRARY_ENABLE_ STATUS	Library enable status
(1A)	BITSTRING	2		Reserved
(1C)	FULLWORD	4	LDB_LIBRARY_PROG_ LOADS	Library program loads
(20)	BITSTRING	4		Reserved
(24)	BITSTRING	4		Reserved
(28)	BITSTRING	4		Reserved
(2C)	BITSTRING	4		Reserved
(30)	CHARACTER	8	LDB_LIBRARY_DEFINE_ SOURCE	Group installed from
(38)	BITSTRING	8	LDB_LIBRARY_CHANGE_ TIME	Change/create time
(40)	CHARACTER	8	LDB_LIBRARY_CHANGE_ USERID	Change userid
(48)	BITSTRING	2	LDB_LIBRARY_CHANGE_ AGENT	Change agent
(4A)	BITSTRING	2	LDB_LIBRARY_INSTALL_ AGENT	Install agent
(4C)	BITSTRING	8	LDB_LIBRARY_INSTALL_ TIME	Install/Create time
(54)	CHARACTER	8	LDB_LIBRARY_INSTALL_ USERID	Install userid
(5C)	BITSTRING	4		Reserved
(60)	BITSTRING	4		Reserved
(64)	FULLWORD	4	LDB_LIBRARY_ NUMDSNAMES	Library number dsnames
(64)	.11. 1...		LDBDS_END	"*"
(64)	.11. 1...		LDBDS_LENGTH	"*-LDBDS_LEN" Loader Library record length

Table 346.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	LDB_DSNAMES	Library Dsnames
(0)	CHARACTER	44	LDB_DSNAME	Library Dsname
Constants that denote a LD Library stats record				
(0)	...1 1111		LDBIDR	"31" Loader Public Library resid stats id
(0)	1		LDB_VERS	"X'01'" Record version number
(0)	1		LDB_CRITICAL_NO	"X'01'" Library Critical - No
(0)	.... ..1.		LDB_CRITICAL_YES	"X'02'" Library Critical - Yes
(0)	1		LDB_LIBRARY_ENABLED	"X'01'" Library Enable Status - Enabled

Table 346. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	.... ..1.		LDB_LIBRARY_DISABLED	"X'02'" Library Enable Statis - Disabled
(0)	1		LDB_LIBRARY_CSDAPI_ CHANGE	"0001" Change Agent - CSD API
(0)	.... ..1.		LDB_LIBRARY_ CSDBATCH_CHANGE	"0002" Change Agent - DFHCSDUP
(0)	11		LDB_LIBRARY_DREPAPI_ CHANGE	"0003" Change Agent - DREP API
(0)	.... .1..		LDB_LIBRARY_CREATE_ CHANGE	"0004" Change Agent - CREATE SPI
(0)	.... .111		LDB_LIBRARY_SYSTEM_ CHANGE	"0007" Change Agent - SYSTEM
(0)	1		LDB_LIBRARY_CSDAPI_ INSTALL	"0001" Install Agent - CSD API
(0)	.... .1..		LDB_LIBRARY_CREATE_ INSTALL	"0004" Install Agent - CREATE SPI
(0)	.... .1.1		LDB_LIBRARY_GRPLIST_ INSTALL	"0005" Install Agent - GRPLIST
(0)	.... .111		LDB_LIBRARY_SYSTEM_ INSTALL	"0007" Install Agent - SYSTEM
(0)	.... 1..1		LDB_LIBRARY_BUNDLE_ INSTALL	"0009" Install Agent - BUNDLE

LDGDS - Loader statistics

```
CONTROL BLOCK NAME = DFHLDGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHLDGPS
DESCRIPTIVE NAME = CICS TS Loader Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 2012
FUNCTION =
       This block described the statistics maintained by the
       Loader.
       The loader maintains a single instance of this block
       representing its global statistics
LIFETIME = This block is created by the Loader to satisfy a
       request for statistics
STORAGE CLASS =
LOCATION = The user is passed a pointer to the head of the block
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = Data from Loader domain
    GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------
```

Table 347.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLDGDS	Loader statistics (GLOBAL)
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	LDGLEN	Length of data area
(0)	...1 111.		LDGIDE	"30" Global loader stats id mask
(2)	ADDRESS	2	LDGID	Loader domain global stats id
(2)	1		LDGVERS	"X'01'" DSECT version number
(4)	CHARACTER	1	LDGDVERS	Domain data format version number
(5)	CHARACTER	3		Reserved
(5)	.... 1...		LDGHEND	"*" End of header
(5)	.... 1...		LDGHLEN	"*-LDGLEN" Length of header

Table 348.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	LDGGLOBAL	Global statistics DSECT
(0)	FULLWORD	4	LDGLLR	Number of LIBRARY load requests
(4)	FULLWORD	4	LDGLLT	Total time for all loads
(8)	FULLWORD	4	LDGPUSES	Number of program uses
(C)	FULLWORD	4	LDGWLR	Number of loader reqs waiting
(10)	FULLWORD	4	LDGWLRHW	HWM waiting loader reqs
(14)	FULLWORD	4	LDGHWMT	Times at HWM
(18)	FULLWORD	4	LDGTTW	Total time waiting
(1C)	FULLWORD	4	LDGDREBS	Number of LIBRARY DEB rebuilds
(20)	FULLWORD	4	LDGWTDLR	Number of loader reqs that waited
(24)	FULLWORD	4	LDGLLRRO	Number of LIBRARY load requests on the RO TCB
(28)	FULLWORD	4	LDGLLTRO	Total time for loads on the RO TCB
(2C)	FULLWORD	4	LDGLWSOU	Load waits due to search order update
(30)	BITSTRING	8	LDGLSORT	LIBRARY search order update time
(38)	FULLWORD	4	LDGLBSOU	LIBRARY search order updates
(38)	..11 11..		LDGGEND	"*" End of global statistics
(38)	..11 11..		LDGGLEN	"*-LDGGLOBAL" Length of global statistics

Table 349.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	LDGDSASTAT	Program stats on a DSA basis
(0)	FULLWORD	4	LDGSTGNIU	Amount of storage occupied by NIU programs
(4)	FULLWORD	4	LDGPROGNIU	Number of programs on NIU queue
(8)	FULLWORD	4	LDGRECNIU	Number of programs reclaimed from NIU queue
(C)	FULLWORD	4	LDGDPSCR	Number of programs removed by DPSC
(10)	BITSTRING	8	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)	..11		LDGDSAEND	"*" End of DSA program stats
(2C)	..11		LDGDSALEN	"*-LDGDSASTAT" Length of DSA program stats
Equates for LDGDSASTAT array				
(2C)	.... .11.		LDGMAXDSA	"6" Number of elements
(2C)	1		LDGCDSA	"1" CDSA
(2C)	.... ..1.		LDGECDSA	"2" ECDSA
(2C)	11		LDGSDSA	"3" SDSA
(2C)	.... .1..		LDGESDSA	"4" ESDSA
(2C)	.... .1.1		LDGRDSA	"5" RDSA
(2C)	.... .11.		LDGERDSA	"6" ERDSA

LDPDS - Loader statistics for private programs

```
CONTROL BLOCK NAME = DFHLDPDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHLDPPS
DESCRIPTIVE NAME = CICS TS Loader Statistics for private programs
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 2013
FUNCTION =
       This block described the statistics collected by the Loader
       Domain.
       There is an instance of this block for each program for
       which statistics have been requested.
LIFETIME = This block exists until the statistics request has been
```

```
       satisfied.
 STORAGE CLASS =
 LOCATION = The user is passed a pointer to the head of the block
 INNER CONTROL BLOCKS = none
 NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Control block definition
-------------------------------------------------------------------------
 EXTERNAL REFERENCES = none
     DATA AREAS = none
     CONTROL BLOCKS = Data from Loader Domain
     GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------------
```

Table 350.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLDPDS	Loader statistics (RESID)
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	LDPLEN	Length of data area
(0)	..1. .1..		LDPIDR	"36" Loader stats Resid mask
(2)	ADDRESS	2	LDPID	Loader domain stats id
(2)	1		LDPVERS	"X'01'" DSECT version number
(4)	CHARACTER	1	LDPDVERS	Domain data format version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	64	LDP_PLATFORM_NAME	Platform name
(48)	CHARACTER	64	LDP_APPLICATION_NAME	Application name
(88)	FULLWORD	4	LDP_APPL_MAJOR_VER	Application major version
(8C)	FULLWORD	4	LDP_APPL_MINOR_VER	Application minor version
(90)	FULLWORD	4	LDP_APPL_MICRO_VER	Application micro version
(94)	CHARACTER	8	LDPPNAME	Program name
(9C)	FULLWORD	4	LDPTU	Times used since last reset
(A0)	FULLWORD	4	LDPFC	Fetch count
(A4)	FULLWORD	4	LDPFT	Total time taken for all fetchs
(A8)	FULLWORD	4	LDPRPLO	Offset into LIBRARY DD ...
(AC)	FULLWORD	4	LDPTN	Times NEWCOPYed
(B0)	FULLWORD	4	LDPPSIZE	Program size
(B4)	FULLWORD	4	LDPRPC	Times removed by program compression
(B8)	ADDRESS	1	LDPLOCN	Location of current copy
(B8)	....		LDPNOCO	"X'00'" No current copy
(B8)	1		LDPCDCO	"X'01'" Current copy in the CDSA
(B8)	11		LDPLPACO	"X'03'" Current copy in the LPA

Table 350. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B8)	.... .1..		LDPECDCO	"X'04'" Current copy in the ECDSA
(B8)	.... .11.		LDPERDCO	"X'06'" Current copy in the ERDSA
(B8)	.... .111		LDPELPCO	"X'07'" Current copy in the ELPA
(B8)	.... 1...		LDPSDCO	"X'08'" Current copy in the SDSA
(B8)	.... 1..1		LDPESDCO	"X'09'" Current copy in the ESDSA
(B8)	.... 1.1.		LDPRDCO	"X'0A'" Current copy in the RDSA
(B9)	ADDRESS	3		Reserved
(BC)	CHARACTER	8	LDPLBNM	Program library name
(C4)	CHARACTER	44	LDPLBDNM	Program library dsname
(F0)	CHARACTER	64	LDP_OPERATION_NAME	Operation name
(130)	CHARACTER	20		Reserved
(130)		0	LDPEND	"*"
(130)		0	LDPCLEN	"*-LDPLEN" Length of DSECT

LDRDS - Loader statistics for public programs

```
CONTROL BLOCK NAME = DFHLDRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHLDRPS
DESCRIPTIVE NAME = CICS TS Loader Statistics for programs
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 2007
FUNCTION =
       This block described the statistics collected by the Loader
       Domain.
       There is an instance of this block for each program for
       which statistics have been requested.
LIFETIME = This block exists until the statistics request has been
       satisfied.
STORAGE CLASS =
LOCATION = The user is passed a pointer to the head of the block
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = Data from Loader Domain
    GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------
```

Table 351.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLDRDS	Loader statistics (RESID)
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	LDRLEN	Length of data area
(0)	...1 1..1		LDRIDR	"25" Loader stats Resid mask
(2)	ADDRESS	2	LDRID	Loader domain stats id
(2)	1		LDRVERS	"X'01'" DSECT version number
(4)	CHARACTER	1	LDRDVERS	Domain data format version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	LDRPNAME	Program name
(10)	FULLWORD	4	LDRTU	Times used since last reset
(14)	FULLWORD	4	LDRFC	Fetch count
(18)	FULLWORD	4	LDRFT	Total time taken for all fetchs
(1C)	FULLWORD	4	LDRRPLO	Offset into LIBRARY DD ...
(20)	FULLWORD	4	LDRTN	Times NEWCOPYed
(24)	FULLWORD	4	LDRPSIZE	Program size
(28)	FULLWORD	4	LDRRPC	Times removed by program compression
(2C)	ADDRESS	1	LDRLOCN	Location of current copy
(2C)	....		LDRNOCO	"X'00'" No current copy
(2C)	1		LDRCDCO	"X'01'" Current copy in the CDSA
(2C)	11		LDRLPACO	"X'03'" Current copy in the LPA
(2C)	.... .1..		LDRECDCO	"X'04'" Current copy in the ECDSA
(2C)	.... .11.		LDRERDCO	"X'06'" Current copy in the ERDSA
(2C)	.... .111		LDRELPCO	"X'07'" Current copy in the ELPA
(2C)	.... 1...		LDRSDCO	"X'08'" Current copy in the SDSA
(2C)	.... 1..1		LDRESDCO	"X'09'" Current copy in the ESDSA
(2C)	.... 1.1.		LDRRDCO	"X'0A'" Current copy in the RDSA
(2D)	ADDRESS	3		Reserved
(30)	CHARACTER	8	LDRLBNM	Program library name
(38)	CHARACTER	44	LDRLBDNM	Program library dsname
(64)	CHARACTER	20		Reserved

Table 351. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(64)	.111 1...		LDREND	"*"
(64)	.111 1...		LDRCLEN	"*-LDRLEN" Length of DSECT

LDYDS - Loader statistics for private LIBRARYs

```
CONTROL BLOCK NAME = DFHLDYDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHLDYPS
DESCRIPTIVE NAME = CICS TS Loader Statistics for LIBRARYs
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2006, 2013
FUNCTION =
       This block described the statistics collected by the Loader
       Domain.
       There is an instance of this block for each private library
       for which statistics have been requested.
LIFETIME = This block exists until the statistics request has been
       satisfied.
STORAGE CLASS =
LOCATION = The user is passed a pointer to the head of the block
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = None
    GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLDYDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 352.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLDYDS	Loader Private Library Resid stats record
(0)	HALFWORD	2	LDYDS_LEN	Loader Library stats record length
(2)	ADDRESS	2	LDYDS_ID	Loader Library stats id
(4)	CHARACTER	1	LDYDS_VERS	Loader Library stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	64	LDY_LIBRARY_ PLATFORM_NAME	Platform name
(48)	CHARACTER	64	LDY_LIBRARY_ APPLICATION_NAME	Application name
(88)	FULLWORD	4	LDY_LIBRARY_APPL_ MAJOR_VER	Application major version
(8C)	FULLWORD	4	LDY_LIBRARY_APPL_ MINOR_VER	Application minor version

Table 352. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(90)	FULLWORD	4	LDY_LIBRARY_APPL_ MICRO_VER	Application micro version
(94)	CHARACTER	8	LDY_LIBRARY_NAME	Library name
(9C)	FULLWORD	4	LDY_LIBRARY_SEARCH_ POS	Library search position
(A0)	FULLWORD	4	LDY_LIBRARY_RANKING	Library ranking
(A4)	BITSTRING	1	LDY_LIBRARY_CRITICAL	Library critical
(A5)	BITSTRING	1	LDY_LIBRARY_ENABLE_ STATUS	Library enable status
(A6)	BITSTRING	2		Reserved
(A8)	FULLWORD	4	LDY_LIBRARY_PROG_ LOADS	Library program loads
(AC)	BITSTRING	4		Reserved
(B0)	BITSTRING	4		Reserved
(B4)	BITSTRING	4		Reserved
(B8)	BITSTRING	4		Reserved
(BC)	CHARACTER	8	LDY_LIBRARY_DEFINE_ SOURCE	Group installed from
(C4)	BITSTRING	8	LDY_LIBRARY_CHANGE_ TIME	Change/create time
(CC)	CHARACTER	8	LDY_LIBRARY_CHANGE_ USERID	Change userid
(D4)	BITSTRING	2	LDY_LIBRARY_CHANGE_ AGENT	Change agent
(D6)	BITSTRING	2	LDY_LIBRARY_INSTALL_ AGENT	Install agent
(D8)	BITSTRING	8	LDY_LIBRARY_INSTALL_ TIME	Install/Create time
(E0)	CHARACTER	8	LDY_LIBRARY_INSTALL_ USERID	Install userid
(E8)	BITSTRING	4		Reserved
(EC)	BITSTRING	4		Reserved
(F0)	FULLWORD	4	LDY_LIBRARY_ NUMDSNAMES	Library number dsnames
(F0)	1111 .1..		LDYDS_END	"*"
(F0)	1111 .1..		LDYDS_LENGTH	"*-LDYDS_LEN" Loader Library record length

Table 353.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	LDY_DSNAMES	Library Dsnames
(0)	CHARACTER	44	LDY_DSNAME	Library Dsname
Constants that denote a LD Library stats record				
(0)	..1.		LDYIDR	"32" Loader Private Library resid statsid
(0)	1		LDY_VERS	"X'01'" Record version number
(0)	1		LDY_CRITICAL_NO	"X'01'" Library Critical - No
(0)	.... ..1.		LDY_CRITICAL_YES	"X'02'" Library Critical - Yes
(0)	1		LDY_LIBRARY_ENABLED	"X'01'" Library Enable Status - Enabled
(0)	.... ..1.		LDY_LIBRARY_DISABLED	"X'02'" Library Enable Statis - Disabled

Table 353. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	1		LDY_LIBRARY_CSDAPI_ CHANGE	"0001" Change Agent - CSD API
(0)	.... ..1.		LDY_LIBRARY_ CSDBATCH_CHANGE	"0002" Change Agent - DFHCSDUP
(0)	11		LDY_LIBRARY_DREPAPI_ CHANGE	"0003" Change Agent - DREP API
(0)	.... .1..		LDY_LIBRARY_CREATE_ CHANGE	"0004" Change Agent - CREATE SPI
(0)	.... .111		LDY_LIBRARY_SYSTEM_ CHANGE	"0007" Change Agent - SYSTEM
(0)	1		LDY_LIBRARY_CSDAPI_ INSTALL	"0001" Install Agent - CSD API
(0)	.... .1..		LDY_LIBRARY_CREATE_ INSTALL	"0004" Install Agent - CREATE SPI
(0)	.... .1.1		LDY_LIBRARY_GRPLIST_ INSTALL	"0005" Install Agent - GRPLIST
(0)	.... .111		LDY_LIBRARY_SYSTEM_ INSTALL	"0007" Install Agent - SYSTEM
(0)	.... 1..1		LDY_LIBRARY_BUNDLE_ INSTALL	"0009" Install Agent - BUNDLE

LESRV - Service routine vector

Vector of routines provided to Language Environment

Table 354.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	136	DFH_SERVICE_VECTOR	
(0)	FULLWORD	4	DFH_SERVICE_VECTOR_ LENGTH	vector length
(4)	BIT(32)	4	DFH_SERVICE_FLAGS	availability
(4)	BIT(8)	1	DFH_SERVICE_FLAG_ BYTE1	
(4)	1...		DFHGCAA_AVAIL	
(4)	.1..		DFHSCAA_AVAIL	
(4)	..1.		DFHLEGM_AVAIL	
(4)	...1		DFHLEFM_AVAIL	
(4)	.... 1...		DFHLEAS_AVAIL	
(4)	.... .1..		DFHLEDS_AVAIL	
(4)	.... ..1.		DFHLEGQ_AVAIL	
(4)	1		DFHLEFQ_AVAIL	
(5)	BIT(8)	1	DFH_SERVICE_FLAG_ BYTE2	
(5)	1...		DFHLETR_AVAIL	
(5)	.1..		DFHLEDT_AVAIL	
(5)	..1.		DFHLERO_AVAIL	

Table 354. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5)	...1 1111		*	reserved
(6)	BIT(8)	1	DFH_SERVICE_FLAG_ BYTE3	reserved
(7)	BIT(8)	1	DFH_SERVICE_FLAG_ BYTE4	reserved
(8)	CHARACTER	128	DFH_SERVICE_ROUTINES	
(8)	ADDRESS	4	DFHGCAA_ADDRESS	get anchor
(C)	ADDRESS	4	DFHSCAA_ADDRESS	set anchor
(10)	ADDRESS	4	DFHLEGM_ADDRESS	getmain
(14)	ADDRESS	4	DFHLEFM_ADDRESS	freemain
(18)	ADDRESS	4	DFHLEAS_ADDRESS	add subpool
(1C)	ADDRESS	4	DFHLEDS_ADDRESS	delete subpool
(20)	ADDRESS	4	DFHLEGQ_ADDRESS	get quickcell
(24)	ADDRESS	4	DFHLEFQ_ADDRESS	free quickcell
(28)	ADDRESS	4	DFHLETR_ADDRESS	trace
(2C)	ADDRESS	4	DFHLEDT_ADDRESS	transaction dump
(30)	ADDRESS	4	DFHLERO_ADDRESS	runtime options
(34)	ADDRESS	4	* (21)	reserved

LFM - LIFO parameter list and standard DSA

```
CONTROL BLOCK NAME = DFHLPLST, DFHLFS
NAME OF MATCHING PLS CONTROL BLOCK = DFHLFMDS for DFHLFS
DESCRIPTIVE NAME = CICS TS LIFO Parameter List and Standard DSA
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1980, 2015
FUNCTION =
       Maps the parameter list passed to DFHLFA.
       The values of the field DFHLPMOD are given in the module
       identifiers in DFHFMIDS.
       Maps the standard DSA.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
```

Table 355.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLPLST	DSECT FOR PLIST
(0)	DBL WORD	8	(0)	Double word alignment
(0)	....		OFF0	"00" OFFSET OF FLAGS
(0)	1		OFF1	"01" OFFSET OF STATUS FLAGS
(0)	.... ..1.		OFLN	"02" LENGTH OFFSET
(0)	1...		OFGR	"128" CHAIN BACK OFFSET (64 bit)
(0)	1... .1..		OFDR	"132" CHAIN BACK OFFSET (32 bit)

Table 355. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	.... 1...		OFGRE	"8" OFFSET OF REG 14 (64 bit)
(0)	.... 11..		OFLR	"12" OFFSET OF REG 14 (32 bit)
(0)	..1.		OFGR1	"32" OFFSET OF REG 1 (64 bit)
(0)	..1. .1..		OFR1	"36" OFFSET OF REG 1 (32 bit)
(0)	1..1		OFGRD	"144" OFFSET OF REG 13 (64 bit)
(0)	1..1 .1..		OFRD	"148" OFFSET OF REG 13 (32 bit)
(0)	11.1		OFNB	"208" NAB OFFSET (64 bit)
(0)	11.1		NAB	"208" NAB OFFSET (64 bit)
(0)	1.11		OFTASN	"176" OFFSET OF TASN (64 bit)
(0)	1.11 1...		OFPOWN	"184" Offset of POWN
(0)	1111 111.		CINTISA	"X'FE"' INITIAL SEGMENT NO *
PLIST PASSED BETWEEN MODULE AND FIRST GET LIFO MODULE				
(0)	HALFWORD	2	DFHLPLEN	LENGTH OF PLIST
(2)	HALFWORD	2	DFHLPDFG	DSA ID
(4)	HALFWORD	2	DFHLPDLN	DSA LENGTH
(6)	HALFWORD	2	DFHLPMDS	OFFSET OF MODULE START FROM PLIST START
(8)	FULLWORD	4	DFHLPTRC	TRACE FLAGS
(C)	HALFWORD	2	DFHLPMOD	MOD ID
(E)	HALFWORD	2	DFHLPMDC	MOD ID IN CHARACTER FORM
(10)	BITSTRING	1	DFHLPTRF	OPTION SETTING
(10)	.1..		LFLPTRRC	"X'40"' RECOVERY ROUTINE PRESENT
(10)	.... 1...		LFLPTRCN	"X'08"' CONDITIONAL REQUEST
(10)	.... .1..		LFLPTRRN	"X'04"' COND RETURN REQUEST
(10)	.... ..1.		LFLPTRIC	"X'02"' IC LOGIC IS REQUESTED.
(10)	1		LFLPTRTR	"X'01"' TRACE IS REQUESTED.
(11)	BITSTRING	1	DFHLPTR2	PERFORM, ACCOUNT, EXCEPT
(12)	BITSTRING	1	DFHLPRS3	RESERVED
(13)	BITSTRING	1	DFHLPRS4	RESERVED
(14)	FULLWORD	4	DFHLPSMD	Smode index

Table 355. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(14)	....		DFHLPS31	"0" Smode 31
(14)	.... 1...		DFHLPS24	"8" Smode 24
(18)	ADDRESS	8	DFHLPREC	Recovery routine address *

```
STANDARD DSA
```

Table 356.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLFS	
(0)	BITSTRING	1	LFDSOFF0	FLAG BYTE 0
(1)	BITSTRING	1	LFDSOFF1	FLAG BYTE 1
(1)	1...		LFDSTRST	"X'80'" Trusted stack
(1)	.1..		LFDSERRD	"X'40'" DFHKERRD exists, i.e. stack in error state
(1)	..1.		LFDSACR	"X'20'" CICS Recovery added
(1)	...1		LFDSSAVE	"X'10'" Save area exists and is pointed to by KERNSAVP
(1)	.... 1...		LFDSLCON	"X'08'" Loop controller
(1)	.... .1..		LFDSDFAB	"X'04'" Deferred abend scheduled
(1)	1		LFDSF4SA	"X'01'" Format 4 save area against this stack
(2)	HALFWORD	2	LFDSOFLN	LENGTH OF DSA
(4)	CHARACTER	4	LFDSOSID	Savearea Id
(8)	ADDRESS	8	LFDSOGLR (0)	Register 14 (64 bit)
(8)	ADDRESS	4		
(C)	ADDRESS	4	LFDSOFLR	Register 14 (32 bit)
(10)	ADDRESS	8	LFDSOGBR (0)	Register 15 (64 bit)
(10)	ADDRESS	4		
(14)	ADDRESS	4	LFDSOFBR	Register 15 (32 bit)
(18)	ADDRESS	8	LFDSOGR0 (0)	Register 0 (64 bit)
(18)	ADDRESS	4		
(1C)	ADDRESS	4	LFDSOFR0	Register 0 (32 bit)
(20)	ADDRESS	8	LFDSOGR1 (0)	Register 1 (64 bit)
(20)	ADDRESS	4		
(24)	ADDRESS	4	LFDSOFR1	Register 1 (32 bit)
(28)	ADDRESS	8	LFDSOGR2 (0)	Register 2 (64 bit)
(28)	ADDRESS	4		
(2C)	ADDRESS	4	LFDSOFR2	Register 2 (32 bit)
(30)	ADDRESS	8	LFDSOGAR (0)	Register 3 (64 bit)
(30)	ADDRESS	4		

Table 356. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)
(98)	ADDRESS	4		Reserved - 64 bit
(9C)	BITSTRING	1	LFDSFLG2	Flag byte 2
(9C)	1...		LFDSABTM	"X'80'" Abterm allowed switch

Table 356. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(9C)	.... ..1.		LFDSPCPY	"X'02'" Plist was copied
(9C)	...1		LFDSLOOP	"X'10'" DSA may be looping
(9D)	FULLWORD	1	LFDSSMX	Stack mode index used by kernel
(9E)	FULLWORD	1	LFDSSKEY	Stack key
(9F)	FULLWORD	1	LFDSPLLN	Plist qword length (if copied)
(A0)	ADDRESS	8		Reserved - 64 bit
(A8)	ADDRESS	8		Used by Kernel
(B0)	ADDRESS	8	LFDSTASN	Address of task entry
(B8)	ADDRESS	8	LFDSPOWN	Address of process own
(C0)	ADDRESS	8	LFDSDTAB	Callers domain entry
(C8)	FULLWORD	8	LFDSTRFL	Trace flags
(D0)	ADDRESS	8	LFDSOFNB	NAB
(D8)	ADDRESS	8	LFDSAPLT	Module PLIST pointer
(E0)	ADDRESS	8		Used by Kernel.
(E8)	FULLWORD	8	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 357.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	LFDSDTE	,
(0)	CHARACTER	8		Used by Kernel
(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 358.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLFS	Continue stack dsect

LGGDS - Log Manager Global Statistics

```
CONTROL BLOCK NAME = DFHLGGDS
NAME OF MATCHING PLX CONTROL BLOCK = DFHLGGPS
DESCRIPTIVE NAME = CICS TS Log Manager Logstream Global Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2000
FUNCTION =
       This data area contains logstream global statistics
       provided by the Log Manager Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the statistics
       exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the Log Manager
       Domain to store statistics to be passed to the user in
       response to a request for statistics. The storage is
       released when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Domain call buffer
-------------------------------------------------------------------
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = from logger domain
    GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGGDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 359.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLGGDS	Log Mgr Global stats record
(0)	HALFWORD	2	LGGLEN	Record length
(2)	ADDRESS	2	LGGID	Log Manager logstream stats id
(4)	CHARACTER	1	LGGDVERS	Log Manager stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	LGGAKPFREQ	Keypoint Frequency
(C)	FULLWORD	4	LGGLGDEFER	Logdefer Interval
(10)	FULLWORD	4	LGGAKPSTKN	Number of Keypoints Taken

Table 359. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(14)	CHARACTER	4		Reserved
(18)	CHARACTER	4		Reserved
(18)	...1 11..		LGGEND	"*"
(18)	...1 11..		LGGDSLEN	"*-LGGLEN" Record length
Constants that denote a LG logstream global stats record				
(18)	.1.1 11..		LGGIDE	"92" Log Manager global stats id
(18)	1		LGGVERS	"X'01'" Record version number

LGGF - General Log Format

```
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A General Log is any CICS log other 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.

------------------------------------------------------------------

Each block starts with a block header as defined here.

------------------------------------------------------------------
```

Table 360.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	LGBH_BLOCK_HEADER	
(0)	STRUCTURE IsA(MVSLOGBLOCKHEADER)	40	*	
(0)	CHARACTER	8	LGBH_GLOBAL_INFO	
(0)	CHARACTER	4	LGBH_BLOCK_TYPE	set to '>DFH' to
(0)	CHARACTER	1	LGBH_BT_ARROW	identify a CICS
(1)	CHARACTER	3	LGBH_BT_DFH	block
(4)	CHARACTER	4	*	
(4)	UNSIGNED	1	LGBH_LOG_TYPE	general or system log
(5)	CHARACTER	1	LGBH_FLAGS	reserved
(6)	UNSIGNED	2	LGBH_BLOCK_VER	block format version number
(8)	CHARACTER	24	LGBH_CICS_INFO	
(8)	CHARACTER	8	LGBH_GENERIC_APPLID	CICS generic applid
(10)	CHARACTER	8	LGBH_START_GMT	record time (GMT)
(18)	CHARACTER	8	LGBH_START_LOCAL	record time (LOCAL)
(20)	CHARACTER	8	LGBH_BLOCK_INFO	
(20)	CHARACTER	8	LGBH_BLOCK_NUMBER	block sequence number
(28)	CHARACTER	0	LGBH_DATA	records follow

```
--

Each record starts with a record header as defined here.

------------------------------------------------------------------
```

Table 361.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	GLRH_RECORD_HEADER	
(0)	STRUCTURE IsA(GENLOGRECORD)	56	*	
(0)	CHARACTER	12	*	
(0)	UNSIGNED	4	GLRH_RECORD_LENGTH	inclusive length of this record

Table 361. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	UNSIGNED	4	GLRH_HEADER_LENGTH	inclusive length of this header
(8)	UNSIGNED	4	GLRH_REC_DATA_LEN	length of data following this header
(C)	CHARACTER	16	GLRH_TIMESTAMPS	timestamps
(C)	CHARACTER	8	GLRH_GMT	record time (GMT)
(14)	CHARACTER	8	GLRH_LOCAL	record time (LOCAL)
(1C)	CHARACTER	12	GLRH_TASK_INFO	logging task information
(1C)	CHARACTER	4	GLRH_TRAN_ID	transaction id
(20)	CHARACTER	4	GLRH_TASK_ID	task number
(24)	CHARACTER	4	GLRH_TERM_ID	terminal id
(28)	CHARACTER	12	GLRH_RECORD_ID	record identification
(28)	UNSIGNED	2	GLRH_REC_TYPE	start_of_run (sor) or user
(2A)	CHARACTER	2	GLRH_REC_COMPID	logging component id
(2C)	CHARACTER	8	GLRH_REC_JOURNAL	logging journal name
(34)	CHARACTER	4	GLRH_LGSSI	for DFHLGSSI conversion rtn
(34)	CHARACTER	1	GLRH_LGSSI_FLAGS	not set for system log
(34)	1...		GLRH_START_OF_TASK	equivalent to JCSPSOTK
(34)	.1..		GLRH_START_OF_UOW	equivalent to JCSPLSTK
(35)	CHARACTER	3	GLRH_LGSSI_RSVD	reserved
(38)	CHARACTER	0	GLRH_REC_DATA	

```
--

When CICS connects to a MVS Logger General Log it writes a
'start-of-run' record to the log as the first record written
during this run of CICS. This record is made up of a record header
as defined above followed by the dsect "gl_sor_body".

NOTE: "gl_sor_body" is a particular case of 'caller data' referred
to above.

The following diagram shows how a 'start-of-run' record appears
within a General Log block.

general log
__ ...
__ a general log block
__ __ block header (lgbh_block_header)
__ __ __ first cics record
__ __ __ __ record header (glrh_record_header)
__ __ __ __ start of run record body (gl_sor_body)
__ __ __ next cics record
__ __ __ ...
__ __ __ last cics record
__ __ __ ...

------------------------------------------------------------------
```

Table 362.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	GL_SOR_BODY	
(0)	STRUCTURE IsA(STARTOFRUNDATA)	20	*	
(0)	CHARACTER	20	SOR_CICS_INFO	start-of-run information
(0)	CHARACTER	4	SOR_CICS_RELEASE	CICS version and release
(4)	CHARACTER	8	SOR_SPECIFIC_APPLID	CICS specific applid
(C)	CHARACTER	8	SOR_CICS_USERNAME	CICS userid

```
--

The CICS API supports writing directly to a user journal (which
may be a General Log or the System Log) using the EXEC CICS WRITE
JOURNALNAME command. This takes as input the journal type, user
data and optional user prefix data. These elements are put
together as shown in the dsect "cl_user_header".

NOTE: "cl_user_header" is a particular case of 'caller data'
referred to above.

In this case "glrh_rec_compid" will be set to 'UJ'.

The following diagram shows how a user header appears within a
General Log record.

general log
__ ...
__ general log block
__ __ block header (lgbh_block_header)
__ __ __ first cics record
__ __ __ ...
__ __ __ next cics record
__ __ __ __ record header (glrh_record_header)
__ __ __ __ user header (cl_user_header)
__ __ __ __ rest of caller data
__ __ __ last cics record
__ __ __ ...

NOTE: "cl_uh_prefix_length" shows the number of bytes of data that
is contained in the user prefix. The user prefix data, if present,
immediately follows this header, which in turn is followed by the
user data.

------------------------------------------------------------------
```

Table 363.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	CL_USER_HEADER	
(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

Table 363. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8)	UNSIGNED	4	CL_UH_PREFIX_LENGTH	user prefix length
(C)	CHARACTER	0	CL_UH_END	user prefix data (if any) followed by user data

Constants

Table 364.

Len	Type	Value	Name	Description
2	DECIMAL	1	LGBH_BLOCK_VERSION_NO	
3	CHARACTER	DFH	LGBH_BLOCK_TYPE_DFH	
1	CHARACTER	>	LGBH_BLOCK_TYPE_ARROW	
1	DECIMAL	0	LGBH_LOG_TYPE_GENERAL	
1	DECIMAL	1	LGBH_LOG_TYPE_SYSTEM	
2	DECIMAL	1	SOR_REC_TYPE	
2	DECIMAL	2	USER_REC_TYPE	

LGMS - SMF Log Format

```
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A CICS user journal (not the System Log) can be defined to reside
upon SMF (a special log that MVS SMF manages). This log comprises
a sequence of contiguous blocks, some of which are built and
written by CICS.

Each block built and written by CICS comprises a SMF block header,
CICS SMF product section, followed by a CICS data section. The
latter comprises of a variable number of CICS records. The format
of the block header is defined by the dsect "smf_block_header".

The SMF CICS data section, which only shows its start address, has
been included for completeness. In reality this section includes a
variable number of CICS records.

Each CICS record comprise a record header followed by the caller
data part. The format of the record header is defined by the dsect
"glrh_record_header". The format of the caller data part is
unknown at the Log Manager functional level. It usually comprises
one or several other CICS component record headers. The record
header fields "glrh_rec_type" and "glrh_rec_compid" indicates
which CICS component is to be used to define this part of the
record.

The following diagram shows the physical layout of an SMF log
block

MVS SMF log
```

```
__ first log block
__ __ smf block header (smf_header)
__ __ smf cics product section (smf_product_section)
__ __ smf cics data section (smf_data_section)
__ __ __ first cics record
__ __ __ __ record header (lgrh_record_header)
__ __ __ __ caller data
__ __ __ next cics record
__ __ __ ...
__ __ __ last cics record
__ __ __ ...
__ next general log block
__ ...
__ last general log block
__ ...

This copybook defines the SMF block header. It should be used in
conjunction with the General Log copybook DFHLGGFD which defines
the record header and user header.

------------------------------------------------------------------

Each block starts with a block header as defined here.

------------------------------------------------------------------
```

Table 365.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	158	SMF_BLOCK_HEADER	
(0)	STRUCTURE IsA(SMFLOGBLOCKHEADER)	158	*	
(0)	CHARACTER	44	SMF_HEADER	
(0)	UNSIGNED	2	SMFH_LEN	record length
(2)	UNSIGNED	2	SMFH_SEG	segment descriptor
(4)	CHARACTER	1	SMFH_FLG	operating system indicator (see constant prefixed smfh_flg below)
(5)	CHARACTER	1	SMFH_RTY	record type (see constant prefixed smfh_rty below)
(6)	CHARACTER	4	SMFH_TME	time record moved (HHMMSST+)
(A)	CHARACTER	4	SMFH_DTE	date record moved (0CYYDDD+)
(E)	CHARACTER	4	SMFH_SID	system identification
(12)	CHARACTER	4	SMFH_SSI	sub-system identification (see constant prefixed smfh_ssi below)
(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

Table 365. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	UNSIGNED	2	SMFH_LPS	length of CICS product section
(22)	UNSIGNED	2	SMFH_NPS	number of CICS product sections
(24)	UNSIGNED	4	SMFH_ASS	offset to CICS data section
(28)	UNSIGNED	2	SMFH_ASL	length of CICS data section
(2A)	UNSIGNED	2	SMFH_ASN	number of CICS data sections
(2C)	CHARACTER	0	*	
(2C)	CHARACTER	114	SMF_PRODUCT_SECTION	
(2C)	CHARACTER	2	SMFPS_VRM	record version format x'0vrm' v = version r = release m = modification (set to &SMF in DFHSYS)
(2E)	CHARACTER	8	SMFPS_PRN	product name (generic APPLID)
(36)	CHARACTER	8	SMFPS_SPN	specific APPLID
(3E)	CHARACTER	2	SMFPS_MFL	record maintenance indicator
(40)	CHARACTER	2	SMFPS_RSVD2	reserved
(42)	CHARACTER	52	SMFPS_RSVD3	reserved
(76)	CHARACTER	8	SMFPS_JNM	journal name
(7E)	CHARACTER	8	SMFPS_JBN	jobname
(86)	CHARACTER	4	SMFPS_RSD	job date
(8A)	CHARACTER	4	SMFPS_RST	job time
(8E)	CHARACTER	8	SMFPS_UIF	user identification
(96)	CHARACTER	8	SMFPS_PDN	operating system product level
(9E)	CHARACTER	0	*	
(9E)	CHARACTER	0	SMF_DATA_SECTION	CICS records
(9E)	CHARACTER	0	SMFDS_DATA	records follow

Constants

Table 366.

Len	Type	Value	Name	Description
4	CHARACTER	CICS	SMFH_SSI_CICS	sub-system identification
1	CHAR HEX	DE	SMFH_FLG_ESA4	MVS/ESA V4
1	CHAR HEX	6E	SMFH_RTY_110	record type 110 for CICS
2	DECIMAL	0	SMFH_STY_LG	for journaling
2	DECIMAL	1	SMFH_STY_MN	for monitoring
2	DECIMAL	2	SMFH_STY_ST	for statistics

Table 366. (continued)

Len	Type	Value	Name	Description
4	DECIMAL	2	SMFH_NUMBER_TRIPLETS	
4	DECIMAL	0	SMFH_MFL_ID	
2	DECIMAL	0	SMFPS_MFL_0	
4	DECIMAL	44	SMFH_PRD_SECT_OFFSET	
4	DECIMAL	114	SMFH_PRD_SECT_LENGTH	
4	DECIMAL	1	SMFH_PRD_SECT_NUMBER	
4	DECIMAL	158	SMFH_DATA_SECT_OFFSET	
4	DECIMAL	0	SMFH_DATA_SECT_LENGTH	
4	DECIMAL	1	SMFH_DATA_SECT_NUMBER	
4	DECIMAL	32756	SMF_MAX_BLOCK_LEN	
4	DECIMAL	32598	SMF_MAX_DATA_SECTION_ LEN	

LGRDS - Log Manager Journal Statistics

```
CONTROL BLOCK NAME = DFHLGRDS
NAME OF MATCHING PLX CONTROL BLOCK = DFHLGRPS
DESCRIPTIVE NAME = CICS TS Log Manager Journal Statistics
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       5655-Y04
       (C) Copyright IBM Corp. 1994, 1995
       CICS level at which this module was last updated
FUNCTION =
       This data area contains journal statistics provided by
       the Log Manager Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the statistics
       exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the Log Manager
       Domain to store statistics to be passed to the user in
       response to a request for statistics. The storage is
       released when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Domain call buffer
-------------------------------------------------------------------
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = from logger domain
    GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGRDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 367.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLGRDS	Log Mgr Resid stats record
(0)	HALFWORD	2	LGRLEN	Record length
(2)	ADDRESS	2	LGRID	Log Manager stats id
(4)	CHARACTER	1	LGRDVERS	Log Manager stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	LGRJNLNAME	Journal name
(10)	BITSTRING	1	LGRJTYPE	Journal type (MVS, SMF, Dummy)
(11)	CHARACTER	1		Reserved
(12)	CHARACTER	26	LGRSTREAM	Log stream name
(2C)	FULLWORD	4	LGRWRITES	No of journal writes
(30)	BITSTRING	8	LGRBYTES	Total No of bytes written
(38)	FULLWORD	4	LGRBUFLSH	No of buffer flush requests
(3C)	CHARACTER	8		Reserved
(3C)	.1.. .1..		LGREND	"*"
(3C)	.1.. .1..		LGRDSLEN	"*-LGRLEN" Record length
Constants that denote a LG stats record				
(3C)	.1.1 11.1		LGRIDR	"93" Log Manager resid stats id
(3C)	1		LGRVERS	"X'01'" Record version number
LGRJTYPE enumeration				
(3C)	1		LGRJTYPEMVS	"1" MVS log stream
(3C)	.... ..1.		LGRJTYPESMF	"2" SMF log
(3C)	11		LGRJTYPEDMY	"3" Dummy log

LGSDS - Log Manager Logstream Statistics

```
CONTROL BLOCK NAME = DFHLGSDS
NAME OF MATCHING PLX CONTROL BLOCK = DFHLGSPS
DESCRIPTIVE NAME = CICS TS Log Manager Logstream Statistics
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       (C) Copyright IBM Corp. 1994, 2001
FUNCTION =
       This data area contains logstream statistics provided by
       the Log Manager Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the statistics
       exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the Log Manager
       Domain to store statistics to be passed to the user in
       response to a request for statistics. The storage is
       released when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
```

```
       statistics exit.
 STORAGE CLASS =
 LOCATION =
       The user is passed a pointer to the head of the storage
       block.
 INNER CONTROL BLOCKS = none
 NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Domain call buffer
-------------------------------------------------------------------
 EXTERNAL REFERENCES = none
     DATA AREAS = none
     CONTROL BLOCKS = from logger domain
     GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGSDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 368.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLGSDS	Log Mgr Resid stats record
(0)	HALFWORD	2	LGSLEN	Record length
(2)	ADDRESS	2	LGSID	Log Manager logstream stats id
(4)	CHARACTER	1	LGSDVERS	Log Manager stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	26	LGSSTRNAM	Log stream name
(22)	CHARACTER	2		Reserved
(24)	FULLWORD	4	LGSWRITES	No of log writes
(28)	BITSTRING	8	LGSBYTES	Total No of bytes written
(30)	FULLWORD	4	LGSCUFWTRS	Current number of force waiters
(34)	FULLWORD	4	LGSPKFWTRS	Peak number of force waiters
(38)	FULLWORD	4	LGSTFCWAIT	Total number of force waits
(3C)	FULLWORD	4	LGSBUFWAIT	No of waits due to buffer full
(40)	FULLWORD	4	LGSBRWSTRT	No of log browse starts
(44)	FULLWORD	4	LGSBRWREAD	No of log browse reads
(48)	FULLWORD	4	LGSDELETES	No of log deletes
(4C)	FULLWORD	4	LGSRTYERRS	No of retryable errors
(50)	FULLWORD	4	LGSBUFAPP	No of buffer append reqs
(54)	CHARACTER	1	LGSSYSLG	System log flag
(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

Table 368. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(71)	CHARACTER	3		Reserved
(74)	FULLWORD	4	LGSQUERIES	No of log queries
(78)	CHARACTER	4		Reserved
(78)	.111 11..		LGSEND	"*"
(78)	.111 11..		LGSDSLEN	"*-LGSLEN" Record length
Constants that denote a LG logstream stats record				
(78)	.1.1 111.		LGSIDR	"94" Log Manager resid stats id
(78)	1		LGSVERS	"X'01'" Record version number
(78)	1		LGSSLYES	"X'01'" System log flag - yes
(78)	.... ..1.		LGSSLNO	"X'02'" System log flag - no
(78)	1		LGSDOYES	"X'01'" DASD only log stream - yes
(78)	.... ..1.		LGSDONO	"X'02'" DASD only log stream - no
(78)	1		LGSADYES	"X'01'" Auto delete log stream - yes
(78)	.... ..1.		LGSADNO	"X'02'" Auto delete log stream - no

APLI - Program Language Block

```
This copybook contains the declarations for the Program Language
Block.

-------------------------------------------------------------------
    CONTROL BLOCK Name = DFHLILBC
    DESCRIPTIVE NAME = CICS TS Program Language Block
               This Copy Book describes the Program Language Block
    Storage CLASS = CICS.
    Notes :
     Dependencies = S/370
     Restrictions =
     Module Type = Control block definition
   -------------------------------------------------------------------
```

Table 369.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	76	PLB	
(0)	CHARACTER	8	PLB_PROGRAM_NAME	
(8)	FULLWORD	4	PLB_USE_COUNT	
(C)	CHARACTER	1	PLB_SUNDRY_FLAGS	
(C)	BIT(8)	1	*	
(C)	1...		PLB_DYING	

Table 369. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C)	.1..		PLB_DATALOC_ANY	datalocation any applies
(C)	..1.		PLB_EXECKEY_CICS	execution key = cics
(C)	...1		PLB_OPENAPI	API(OPENAPI)
(C)	.... 1...		PLB_ENQ_LOCK	ENQ lock is active
(C)	.... .1..		PLB_JVM	program runs under Java Virtual Machine
(C)	.... ..1.		PLB_WLP_SERVICE	WLP JVM
(C)	1		PLB_XPLINK	xplink program
(D)	CHARACTER	1	PLB_USERS_LANGUAGE	lang as defined by user
(E)	CHARACTER	2	PLB_PROGRAM_MODE	TCB mode for program
(10)	ADDRESS	4	PLB_LOAD_POINT	
(10)	ADDRESS	4	PLB_JVM_CLASS_PTR	address of class data for JVM programs
(14)	ADDRESS	4	PLB_ENTRY_POINT	
(18)	FULLWORD	4	PLB_PROGRAM_LENGTH	
(1C)	ADDRESS	4	PLB_LOCK_TOKEN	for automatic storage tuning
(20)	CHARACTER	36	PLB_PGMINFO2	ERTLI program extension
(20)	FULLWORD	4	PLB_PRGINLEN	ERTLI extension length
(24)	CHARACTER	4	PLB_RWA31	31bit run-unit w/a length
(24)	BIT(8)	1	*	
(24)	1...		PLB_RWA31_ABOVE	ON=31-bit stg reqd (C/370)
(25)	UNSIGNED	3	PLB_RWA31_LEN	
(28)	FULLWORD	4	PLB_RWA24	24bit run-unit w/a length
(2C)	CHARACTER	4	PLB_LANGUAGE	language flags
(2C)	BIT(8)	1	PLB_LANG1	
(2C)	1...		PLB_CEE_ENABLED	
(2C)	.1..		PLB_LANGUAGE_KNOWN	
(2C)	..1.		PLB_MIXED_LANGUAGE	
(2C)	...1		PLB_COMPATIBILITY	
(2C)	.... 1...		PLB_CEE_EXECUTABLE	
(2C)	.... .1..		PLB_ASSEMBLER	
(2C)	.... ..1.		PLB_C370	
(2C)	1		PLB_COBOL2	
(2D)	BIT(8)	1	PLB_LANG2	
(2D)	1...		PLB_OSCOBOL	
(2D)	.1..		PLB_PLI	
(2D)	..11 1111		*	reserved
(2E)	BIT(8)	1	*	reserved
(2F)	BIT(8)	1	*	

Table 369. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2F)	1111 111.		*	reserved
(2F)	1		PLB_UPDATE_PGMINFO2	update tune info
(30)	FULLWORD	4	PLB_MEMID	language member id
(34)	ADDRESS	4	PLB_GLOBAL_OPTIONS	addr of CEECOPT
(38)	ADDRESS	4	PLB_USER_OPTIONS	addr of CEEUOPT
(3C)	ADDRESS	4	PLB_STG_TUNE_ADDR	stg tune area
(40)	ADDRESS	4	PLB_REAL_ENTRY_POINT	true entry point
(44)	CHARACTER	8	PLB_JVMSERVER	jvmserver name

Table 370.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	257	PLB_JVM_CLASS	
(0)	HALFWORD	2	PLB_JVM_CLASS_LENGTH	
(2)	CHARACTER	255	PLB_JVM_CLASS_DATA	

LLDC - TC local logical device code table

```
CONTROL BLOCK NAME = DFHLLDC
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (TC) Local Logical Device Code Table
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1988
FUNCTION =
                LOCAL LOGICAL DEVICE CODE
                    AVAILABILITY LIST
The Local Logical Device Code (LLDC) is an optional table that is
used to override values specified in the System Logical Device Code
(SLDC) table. The LLDC table is generated by the
DFHTCT TYPE=TERMINAL or DFHTCT TYPE=LDCLIST macro instructions.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
```

Table 371.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLLDC	
(0)	BITSTRING	1	LLDCFLGS	FLAGS
(0)	1...		LLDCEXT	"X'80'" EXTENDED LOCAL LIST
(0)	CHARACTER	2	LLDCMN	LOGICAL DEVICE CODE MNEMONIC
(2)	BITSTRING	1	LLDCCD	LOGICAL DEVICE CODE
(2)	11		LLDCEND	"*" END OF LOCAL LOGICAL DEVICE CODE ENTRY

Table 371. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	11		LLDCLEN	"*-DFHLLDC" LENGTH OF LOCAL LDC ENTRY

LUC - Parameter list

```
CONTROL BLOCK NAME = DFHLUCPS
DESCRIPTIVE NAME = CICS TS DFHLUC Parameter List
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1986, 2014
FUNCTION =
     Contains the request and response for modules called by
     the DFHLUC macro.
     When the DFHLUC macro is used to invoke a LU6.2 request
     appropriate fields in the parameter list are set, and
     module DFHZARL is invoked. All information passed to
     and from DFHZARL is passed in this parameter list.
     It is also used to pass information from DFHZARL to
     DFHZERH and DFHZARR for certain requests, and to DFHZXR3
     for LU6.2 transaction routing.
LIFETIME =
STORAGE CLASS =
LOCATION =
     The control block is located in the LIFO storage of the
     module which issues the DFHLUC macro. It may also
     be copied into the LIFO of the called module.
INNER CONTROL BLOCKS = None
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
  DATA AREAS = None
  CONTROL BLOCKS = None
  GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
```

Table 372.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	DFHLUCDS	
The first part of the parameter list is common to all requests				
(0)	CHARACTER	1	LUCOPN0	MAJOR REQUEST BYTE
(1)	CHARACTER	1	LUCOPN1	MINOR REQUEST BYTE 1
(1)	BIT(8)	1	*	ALLOCATE / ALLOCATE PRIV
(1)	1...		LUCNOQ	NOQUEUE specified
(1)	.1..		LUCASYSV	LUCASYS is valid
(1)	..1.		*	
(1)	...1		*	
(1)	.... 1...		LUCAPRFV	APROFILE specified
(1)	.... .1..		LUCNPRFV	NPROFILE specified

Table 372. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	.... ..1.		*	
(1)	1		*	
(1)	BIT(8)	1	*	INITIAL CALL, SEND, SEND-FMH
(1)	1...		LUCFROM	Initial data provided or application data provided
(1)	.1..		LUCLISTV	LLID data specified
(1)	..1.		*	
(1)	...1		*	
(1)	.... 1...		*	
(1)	.... .1..		*	
(1)	.... ..1.		*	
(1)	1		*	
(1)	BIT(8)	1	*	ISSUE ABEND / ISSUE ERROR
(1)	1...		LUCABUSE	User invocation
(1)	.1..		*	
(1)	..1.		*	
(1)	...1		*	
(1)	.... 1...		*	
(1)	.... .1..		*	
(1)	.... ..1.		*	
(1)	1		*	
(1)	BIT(8)	1	*	ISSUE ATTACH request
(1)	1...		LUCNOCHK	TPN check not required
(1)	.1..		*	
(1)	..1.		*	
(1)	...1		*	
(1)	.... 1...		*	
(1)	.... .1..		*	
(1)	.... ..1.		*	
(1)	1		*	
(1)	BIT(8)	1	*	RECEIVE / RECEIVE FMH request
(1)	1...		LUCSET	SET option specified
(1)	.1..		LUCBELOW	DATALOC option
(1)	..1.		LUCNOLA	Look Ahead option
(1)	...1		*	
(1)	.... 1...		*	

Table 372. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	.... .1..		*	
(1)	.... ..1.		*	
(1)	1		*	
(1)	BIT(8)	1	*	SYNC-COMMITTED request
(1)	1...		LUCEXPF	Explicit FORGET specified
(1)	.1..		LUCIMPF	Implicit FORGET specified
(1)	..1.		*	
(1)	...1		*	
(1)	.... 1...		*	
(1)	.... .1..		*	
(1)	.... ..1.		*	
(1)	1		*	
(1)	BIT(8)	1	*	FREE request
(1)	1...		LUCFRIMP	IMPLICIT free
(1)	.1..		*	
(1)	..1.		*	
(1)	...1		*	
(1)	.... 1...		*	
(1)	.... .1..		*	
(1)	.... ..1.		*	
(1)	1		*	
(2)	CHARACTER	1	LUCOPN2	MINOR REQUEST BYTE 2
(2)	BIT(8)	1	*	ALLOCATE / ALLOCATE-PRIV
(2)	1...		LUCMODNV	LUCMODNM is valid
(2)	.1..		LUCATI	'ATI' Allocate
(2)	..1.		LUCPRIV	ALLOCATE PRIV request
(2)	...1		LUCNETV	NETNAME= specified
(2)	.... 1...		LUCMNPRF	Modename set to use profile modename
(2)	.... .1..		*	
(2)	.... ..1.		*	
(2)	1		*	
(2)	BIT(8)	1	*	ISSUE ERROR / ISSUE ABEND
(2)	1...		LUCAMSGV	LUCAMSG, LUCLMSG valid
(2)	.1..		LUCSENSV	LUCSENSE is valid
(2)	..1.		LUCMSGNV	LUCMSGNO is valid
(2)	...1		*	

Table 372. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	.... 1...		LUCSSEND	STATE=SEND was specified
(2)	.... .1..		LUCSRECV	STATE=RECEIVE specified
(2)	.... ..1.		*	
(2)	1		*	
(2)	BIT(8)	1	*	RECEIVE request
(2)	1...		LUCLLID	receive LLID
(2)	.1..		LUCBUFR	receive BUFFER
(2)	..1.		LUCIMMED	SUBTYPE=IMMEDIATE specified
(2)	...1		*	
(2)	.... 1...		*	
(2)	.... .1..		*	
(2)	.... ..1.		*	
(2)	1		*	
(2)	BIT(8)	1	*	SEND / SEND-FMH request
(2)	1...		LUCNVIT	INVITE option
(2)	.1..		LUCLAST	LAST option (also used for SYNC- PREPARE and SYNC-REQ-COMMIT
(2)	..1.		LUCCONF	CONFIRM option
(2)	...1		LUCFLSH	WAIT (or FLUSH!) option
(2)	.... 1...		*	
(2)	.... .1..		*	
(2)	.... ..1.		*	
(2)	1		*	
(3)	CHARACTER	1	LUCOPN3	MINOR REQUEST BYTE 3
(3)	BIT(8)	1	*	
(3)	1...		LUCSYSCL	System call
(3)	.1..		LUCNOSIG	Do not return SIGNAL (Rec)
(3)	..1.		LUCNOSF	Do not return sess fails
(3)	...1		*	
(3)	.... 1...		*	
(3)	.... .1..		*	
(3)	.... ..1.		*	
(3)	1		*	
(4)	CHARACTER	6	LUCRCODE	FEEDBACK FOR REQUEST RELATED ERRORS
(4)	CHARACTER	1	LUCRCOD1	MAJOR ERROR BYTE
(5)	CHARACTER	1	LUCRCOD2	MINOR ERROR BYTE

Table 372. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6)	CHARACTER	1	LUCRCOD3	MINOR ERROR BYTE
(7)	CHARACTER	1	LUCRCOD4	Reserved
(8)	CHARACTER	1	LUCRCOD5	Reserved
(9)	CHARACTER	1	LUCRCOD6	Reserved
(A)	CHARACTER	6	LUCSDBLK	FEEDBACK FOR Conversation Related Errors
(A)	CHARACTER	1	LUCFDBK1	STORAGE DEFINITION
(A)	1...		LUCCIDCM	1 - DATA COMPLETE
(A)	.1..		LUCCISYN	1 - SYNCPOINT REQ'D
(A)	..1.		LUCCIFRE	1 - FREE REQUESTED
(A)	...1		LUCCIREC	1 - RECEIVE REQUIRED
(A)	.... 1...		LUCCISIG	1 - SIGNAL RECEIVED
(A)	.... .1..		LUCCICON	1 - CONFIRMATION REQ'D
(A)	.... ..1.		LUCCIERR	1 - ERROR RECEIVED
(A)	1		LUCCIRBK	1 - ROLLBACK REQUESTED
(B)	CHARACTER	1	LUCFDBK2	
(B)	1...		LUCCINEG	Negative response received
(B)	.1..		LUCCINSU	RECEIVE IMMEDIATE was unsuccesful
(B)	..1.		*	
(B)	...1		*	
(B)	.... 1...		*	
(B)	.... .1..		*	
(B)	.... ..1.		*	
(B)	1		*	
(C)	CHARACTER	4	LUCCDRCD	ERROR CODE RECEIVED
(10)	ADDRESS	4	LUCTTERQ	ADDRESS OF TCTTE FOR THE CURRENT REQUEST
The second part of the parameter list is used by some requests only, and in different ways by each request:				
(14)	CHARACTER	0	LUCORG	ADDITIONAL PARAMETERS ARE OVERLAID ON LUCORG

Overlay for ALLOCATE and ALLOCATE-PRIV requests

Table 373.

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	52	*	
inputs				
(14)	ADDRESS	4	LUCASYS	SYSID (TCTSE) ADDRESS
(18)	CHARACTER	4	LUCNSYS	SYSID (TCTSE) NAME

Table 373. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	CHARACTER	8	LUCMODNM	MODENAME
outputs				
(24)	ADDRESS	4	LUCTTEAL	ADDRESS OF ALLOCATED TCTTE
further inputs				
(28)	ADDRESS	4	LUCAPROF	Address of PROFILE
(2C)	CHARACTER	8	LUCNPROF	Name of PROFILE
(34)	FULLWORD	4	LUCNETNL	Netname length
(38)	CHARACTER	8	LUCNETNM	Netname
(40)	CHARACTER	8	LUCMGAL	Mode group allocated

Overlay for EXTRACT PROCESS requests

Table 374.

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	92	*	
outputs				
(14)	CHARACTER	1	LUCEPCON	CONVTYPE SPECIFIED IN LU6.2 ATTACH FMH RECEIVED
(15)	CHARACTER	1	LUCEPSYN	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 375.

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	4	*	
inputs				
(14)	ADDRESS	4	LUCASTG	ADDR STORAGE TO BE FREED

Overlay for GET-MY-LUNAME request

Table 376.

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	4	*	
outputs				
(14)	ADDRESS	4	LUCALUNM	ADDRESS OF QUALIFIED LUNAME - ONE BYTE LENGTH FOLLOWED BY QUALIFIED LUNAME

Overlay for ISSUE-ABEND and ISSUE-ERROR requests

Table 377.

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	12	*	
inputs				
(14)	ADDRESS	4	LUCAMSG	MESSAGE TEXT ADDRESS
(18)	HALFWORD	2	LUCLMSG	MESSAGE TEXT LENGTH
(1A)	CHARACTER	2	LUCMSGNO	MESSAGE NUMBER
(1C)	CHARACTER	4	LUCSENSE	SENSE CODE

Overlay for ISSUE-ATTACH request

Table 378.

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	68	*	
inputs				
(14)	CHARACTER	1	LUCRQCON	CONVTYPE REQUIRED IN LU6.2 ATTACH FMH SENT
(15)	CHARACTER	1	LUCRQSYN	SYNCLEVEL REQUIRED IN LU6.2 ATTACH FMH SENT
(16)	CHARACTER	1	LUCFTPNL	LENGTH OF TPN FOR LU6.2 ATTACH FMH SENT
(17)	CHARACTER	64	LUCFTPN	TPN FOR LU6.2 ATTACH FMH SENT
(57)	CHARACTER	1	LUCPIP	PIP DATA TO BE SENT
(57)	1...		*	
(57)	.1..		*	
(57)	..1.		*	
(57)	...1		*	
(57)	.... 1...		*	
(57)	.... .1..		*	
(57)	.... ..1.		*	
(57)	1		LUCPIPI	1 - PIP DATA PRESENT

Overlay for RECEIVE (R) and RECEIVE-FMH (RF) requests

Table 379.

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	16	*	
inputs				
(14)	ADDRESS	4	LUCTAREA	INTO AREA ADDR (R, RF)
(18)	FULLWORD	4	LUCTAREL	MAX. APPL LENG (R, RF)
outputs				
(1C)	ADDRESS	4	LUCBFPTR	SET DATA ADDR (R, RF)
(20)	FULLWORD	4	LUCTDATL	ACT. DATA LENG (R, RF)

Overlay for SEND (S), SEND-FMH (SF) and INITIAL-CALL requests

Table 380.

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	16	*	
inputs				
(14)	ADDRESS	4	LUCFDATA	DATA ADDRESS (S, SF)
(18)	FULLWORD	4	LUCFDATL	DATA LENGTH (S, SF)
(1C)	ADDRESS	4	LUCLISTA	LIST address (Send)
(20)	FULLWORD	4	LUCLISTS	LIST size

Overlay for SYNC-PREPARE request

Table 381.

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	1	*	
outputs				
(14)	CHARACTER	1	LUCSPRET	RESULT OF PREPARE
(14)	1...		LUCSPRQD	RQD2 received
(14)	.1..		LUCSPFGT	FORGET received
(14)	..1.		LUCSPHM	HM Received
(14)	...1		LUCSPVUR	Vote unreliable received
(14)	.... 1...		*	
(14)	.... .1..		*	
(14)	.... ..1.		*	
(14)	1		*	

Overlay for SYNC-REQ-COMMIT request

Table 382.

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	1	*	
outputs				
(14)	CHARACTER	1	LUCSRRET	RESULT OF REQUEST COMMIT

Table 382. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(14)	1...		LUCSRDR2	DR2 received
(14)	.1..		LUCSRNVL	Invalid response received
(14)	..1.		LUCSRHM	HM received
(14)	...1		*	
(14)	.... 1...		*	
(14)	.... .1..		*	
(14)	.... ..1.		*	
(14)	1		*	

```
Overlay for SYNC-COMMITTED request
```

Table 383.

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	1	*	
outputs				
(14)	CHARACTER	1	LUCSCRET	RESULT OF COMMITTED
(14)	1...		LUCSCFGT	FORGET received
(14)	.1..		LUCSCNVL	Invalid response received
(14)	..1.		LUCSCHM	HM Received
(14)	...1		*	
(14)	.... 1...		*	
(14)	.... .1..		*	
(14)	.... ..1.		*	
(14)	1		*	

Constants

Table 384.

Len	Type	Value	Name	Description
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

Table 384. (continued)

Len	Type	Value	Name	Description
1	HEX	09	LUCIERR	ISSUE ERROR REQUEST
1	HEX	0A	LUCISIG	ISSUE SIGNAL REQUEST
1	HEX	0B	LUCRECV	RECEIVE REQUEST
1	HEX	0C	LUCSEND	SEND REQUEST
1	HEX	0D	LUCWAIT	WAIT REQUEST
1	HEX	10	LUCFRST	FREE STORAGE REQUEST
1	HEX	11	LUCICAL	INITIAL CALL REQUEST
1	HEX	12	LUCPRVAL	ALLOCATE-PRIV REQUEST
1	HEX	13	LUCPREP	SYNC PREPARE REQUEST
1	HEX	14	LUCRQCM	SYNC REQUEST COMMIT REQ
1	HEX	15	LUCCMTD	SYNC COMMITTED REQUEST
1	HEX	16	LUCFGET	SYNC FORGET REQUEST
1	HEX	18	LUCGLUN	Get LUNAME request
1	HEX	19	LUCRBCK	SYNC ROLLBACK REQUEST
1	HEX	1A	LUCSFMH	SEND FMH request
1	HEX	1B	LUCRFMH	RECEIVE-FMH REQUEST
1	HEX	1C	LUCUNBDC	UNBIND-CLEANUP request
1	HEX	1D	LUCISPRE	ISSUE-PREPARE request
1	HEX	20	LUCRERP	ERP FMH RECEIVED
1	HEX	21	LUCRNEG	NEG RESP RECEIVED
1	HEX	22	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				

Table 384. (continued)

Len	Type	Value	Name	Description
Equates for LUCRCOD2 qualifiers documented above				
1	HEX	00	LUCERC00	
1	HEX	01	LUCERC01	
1	HEX	02	LUCERC02	
1	HEX	03	LUCERC03	
1	HEX	04	LUCERC04	
1	HEX	05	LUCERC05	
1	HEX	06	LUCERC06	
1	HEX	08	LUCERC08	
1	HEX	0C	LUCERC0C	
1	HEX	0D	LUCERC0D	Negative receive length
1	HEX	10	LUCERC10	
1	HEX	14	LUCERC14	
1	HEX	18	LUCERC18	
1	HEX	1C	LUCERC1C	
1	HEX	20	LUCERC20	
1	HEX	24	LUCERC24	
1	HEX	04	LUCENTAL	NOTALLOC error
1	HEX	05	LUCELENG	LENGERR ERROR
1	HEX	06	LUCEPROF	PROFILE not found
1	HEX	11	LUCERLLE	Invalid LL
1	HEX	12	LUCERLLI	Incomplete LL
Constant values for LUCRQCON (also used for LUCEPCON)				
1	HEX	00	LUCUNMP	CONVTYPE IS UNMAPPED (GDS)
1	HEX	01	LUCMAPD	CONVTYPE IS MAPPED (ELM)
Constant values for LUCRQSYN (also used for LUCEPSYN)				
1	HEX	00	LUCSYNC0	SYNCLEVEL 0 (NOSYNC)
1	HEX	01	LUCSYNC1	SYNCLEVEL 1 (CONFIRM)
1	HEX	02	LUCSYNC2	SYNCLEVEL 2 (SYNCPT)
Define the length of the control block				
4	DECIMAL	112	LUCLSTG	

LUM - Parameter list

```
CONTROL BLOCK NAME = DFHLUMPS
DESCRIPTIVE NAME = CICS TS DFHLUCM Parameter List
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1989, 1994
```

```
FUNCTION =
     Contains the request and response for modules called by
     the DFHLUCM macro.
     When the DFHLUCM macro is used to invoke a LU6.2 migration
     request, appropriate fields in the parameter list are set,
     and module DFHZARM is invoked.
LIFETIME =
STORAGE CLASS =
LOCATION =
     The control block is located in the LIFO storage of the
     module which issues the DFHLUCM macro.
INNER CONTROL BLOCKS = None
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
  DATA AREAS = None
  CONTROL BLOCKS = None
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 385.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	DFHLUMDS	
MAJOR AND MINOR REQUEST BYTES				
(0)	BIT(8)	1	LUMOPN0	MAJOR REQUEST BYTE
(1)	BIT(8)	1	LUMOPN1	MINOR REQUEST BYTE 1
(2)	BIT(8)	1	LUMOPN2	MINOR REQUEST BYTE 2
(3)	BIT(8)	1	LUMOPN3	MINOR REQUEST BYTE 3
OTHER DEFINITIONS				
(4)	ADDRESS	4	LUMTTERQ	ADDRESS OF TCTTE FOR THE CURRENT REQUEST
(8)	CHARACTER	4	LUMCDRCD	ERROR CODE, IF ANY, THAT HAS OCCURRED
(C)	CHARACTER	4	LUMPARMS	OVERLAY FOR ADDITIONAL PARAMETERS WHERE NEEDED
(C)	CHARACTER	2	LUMGDSID	GDS ID THAT IS EITHER UNKNOWN OR UNSUPPORTED
(E)	CHARACTER	2	*	Reserved

Constants

Table 386.

Len	Type	Value	Name	Description
The following constants define the values of byte LUMOPN0				
1	HEX	01	LUMSEND	SEND REQUEST
1	HEX	02	LUMWAIT	WAIT REQUEST
1	HEX	03	LUMRECV	RECEIVE REQUEST

Table 386. (continued)

Len	Type	Value	Name	Description
1	HEX	04	LUMSIGN	SIGNAL REQUEST
1	HEX	06	LUMFREE	FREE REQUEST
1	HEX	07	LUMBDID	INVALID ID REQUEST
1	HEX	08	LUMRSET	RESET REQUEST

LUSDS - ZCP LU sevices manager parameter

```
CONTROL BLOCK NAME = DFHLUSPS
DESCRIPTIVE NAME = CICS TS (ZCP) LU services manager parameter
                   list.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1989, 1993
FUNCTION =
     This control block is used to pass parameter information
     to the LU services manager.
     Note that the PLX version of this control block differs
     somewhat from the assembler version:
     1. The assembler version is prefixed by two halfwords
        which are used by DFHIC GET/PUT. Users of the PLX
        version are expected to manage define that extra
        storage themselves. This apparent snag is balanced by
        the fact that the PLX version is more useful for
        command level usage, where the length is logically
        separated from the data
     2. The assembler version does not define the DCE signoff
        structure, since no assembler code uses it
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS =
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 387.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHLUSPS	
(0)	CHARACTER	20	LUS_PV_PARM_LIST	2
(0)	BIT(8)	1	LUSTYPE	CALL TYPE
(1)	BIT(8)	1	*	Reserved
(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	

Table 387. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	4	LUS_IDENTIFIER	identifies the data
(4)	UNSIGNED	1	LUS_ITEM_COUNT	number of UUIDs
(5)	CHARACTER	54	UUID_ENTRIES (*)	
(5)	UNSIGNED	1	LUS_TABLE_FLAG	LOFT or LOTT table
(6)	CHARACTER	4	LUS_CONNECTION	connection id
(A)	CHARACTER	16	LUS_CURRENT_UUID	Current uuid
(1A)	CHARACTER	32	LUS_PARTNER_UUIDS	Partners uuids
(3A)	UNSIGNED	1	LUS_MECHANISM_ID	mechanism

Constants

Table 388.

Len	Type	Value	Name	Description
The following constants define the values of byte LUSTYPE				
1	HEX	05	LUSRSYNC	RESYNC
1	HEX	06	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

```
DESCRIPTIVE NAME = CICS/ESA BMS MAP OBJECT DSECT
                   DUAL LANGUAGE DSECT
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1997, 1998
FUNCTION = DUAL LANGUAGE DSECT FOR THE BMS MAP OBJECT. CONTAINS
           SEPARATE SECTIONS FOR THE MAPSET HEADER, THE TAB MAP,
           THE MAP HEADER, THE MAPNAME ALIAS EXTENSION AREA, AND
           THE FIELD SPECIFICATION.
           THE MAP OBJECT IS BUILT BY THE MAP DEFINITION MACROS
           ON ASSEMBLING A MAP SPECIFYING SYSPARM=-MAP. IT IS
           STORED IN THE PROGRAM LIBRARY WITH A PPT ENTRY. IT IS
           LOADED INTO MAIN MEMORY BY DFHMCP.
           THE MAP OBJECT IS REFERENCED BY BMS MODULES.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 MODULE TYPE = Control Block
EXTERNAL REFERENCES = NONE
 MACROS = NONE
```

Table 389.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	DFHMAPDS	DUMMY SECTION - MAP DESCRIPTION
MAP SET SPECIFICATIONS				
(0)	CHARACTER	8	BMSNAME	MAP SET NAME
(8)	UNSIGNED	1	BMSTRL	PAGE OVERFLOW TRAILER LENGTH
(9)	CHARACTER	1	*	RESERVED
(A)	CHARACTER	2	BMSDELDM	DEFAULT LDC MNEMONIC
(C)	CHARACTER	0	BMSMSHEA	MAP SET HEADER ENDING ADDRESS

TAB FORMAT MAP SPECIFICATIONS

Table 390.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	18	BMSTABM	
FIELDS ARE SEQUENCE SENSITIVE WITH NORMAL MAP				
(0)	CHARACTER	1	BMSMTI	MAP TYPE INDICATOR
(1)	CHARACTER	3	*	RESERVED
(4)	BIT(8)	1	BMSTFMI	TAB MAP INDICATOR
(4)	1...		*	
(4)	.1..		BMSTFMV	VERTICAL TAB MAP
(4)	..1.		BMSTFMH	HORIZONTAL TAB MAP
(5)	CHARACTER	3	*	RESERVED
(8)	CHARACTER	8	BMSTFN	TAB MAP NAME
(10)	HALFWORD	2	BMSTFL	TAB MAP LENGTH
(12)	CHARACTER	0	BMSTFEA	ENDING ADDRESS

MAP SPECIFICATIONS

Table 391.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	79	BMSMAPH	
FIELDS ARE SEQUENCE SENSITIVE WITH TAB FORMAT MAP				
(0)	HALFWORD	2	BMSMHLL	MAP HEADER LENGTH 0 FOR PRE1.7 MAPS X'8100' FOR TAB MAPS
(0)	CHARACTER	1	BMSMT	MAP TYPE CODE
(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

Table 391. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6)	CHARACTER	2	BMSAPR	NAME OF ACTIVE PARTITION
(8)	CHARACTER	8	BMSMNAME	MAP NAME
(10)	HALFWORD	2	BMSMS	MAP LENGTH, INCLUDING ANY MAP HEADER EXTENSION AREA
(12)	HALFWORD	2	BMSMSSL	IF BMSMODE(BMSMHEXT) IS SET ON THEN THIS IS THE OFFSET OF THE MAP HEADER EXTENSION AREA FROM THE START OF THE MAP HEADER. ON ENTRY TO DFHML1 IT HOLDS (NUMBER OF FIELDS)*10 AND DFHML1 USES THIS FIGURE OTHERWISE IT IS IGNORED
(14)	HALFWORD	2	BMSMSI	INPUT WORK AREA LENGTH
(16)	HALFWORD	2	BMSMSO	OUTPUT WORK AREA LENGTH
(18)	CHARACTER	1	BMSMODE	MAP DESCRIPTOR FLAG BYTE
(18)	1...		BMSMODO	MODE = OUT
(18)	.1..		BMSMODI	MODE = IN
(18)	..1.		BMSMHEXT	THIS MAP OR MAP COPY HAS A MAP HEADER EXTENSION AREA
(18)	...1		*	
(18)	.... 1...		BMSMODOF	THIS MAP ELIGIBLE FOR OUTBOARD FORMATING, IF ON AT ASSEMBLY TIME. IF ON IN M32 - MAP IS USED FOR OUTBOARD FORMAT
(18)	.... .1..		BMSMODOR	THIS MAP (COPY) WHICH IS USED WITH AN OUTBOARD FORMAT HAS BEEN RELOCATED BY PBP. SET BY PBP, TESTED BY M32
(18)	.... ..1.		BMSMODTC	THIS MAP (COPY) ALSO CONTAINS A TIOA COPY
(18)	1		BMSDATB	DATA = BLOCK
(19)	CHARACTER	1	BMSWCC	3270 WRITE CONTROL CHARACTER
(1A)	HALFWORD	2	BMSCURSR	3270 CURSOR POSITION
(1C)	CHARACTER	1	BMSMARG	MAP MARGIN

Table 391. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	1...		*	
(1C)	.1..		*	
(1C)	..1.		*	
(1C)	...1		*	
(1C)	.... 1...		BMSMARBG	JUSTIFY = BOTTOM
(1C)	.... .1..		BMSMARGR	JUSTIFY = RIGHT
(1C)	.... ..1.		BMSMARGL	JUSTIFY = LAST
(1C)	1		BMSMARGF	JUSTIFY = FIRST
(1D)	UNSIGNED	1	BMSML	MAP LENGTH - NUMBER OF LINES
(1E)	UNSIGNED	1	BMSMW	MAP WIDTH - NUMBER OF COLUMNS
(1F)	UNSIGNED	1	BMSMSL	MAP STARTING LINE NUMBER
(20)	UNSIGNED	1	BMSMSC	MAP STARTING COLUMN NUMBER
(21)	CHARACTER	1	BMSMI	MAP INDICATORS
(21)	1...		BMSMIXM	EXTENDED ATTRS IN MAP
(21)	.1..		BMSMIXD	EXTENDED ATTRS IN APPLICATION STRUCTURE
(21)	..1.		BMSMIAL	1 = ALIGNED MAP, 0 =UNALIGNED MAP
(21)	...1		BMSMI16	MAP ASSEMBLED AT CICS/VS 1.6 OR LATER
(21)	.... 1...		BMSMICL	CURSOR IN FIELD IND REQD *
(21)	.... .1..		BMSMIH	HEADER MAP
(21)	.... ..1.		BMSMIT	TRAILER MAP
(21)	1		BMSMIS	FIELDS ARE NOT IN SEQUENCE
(22)	CHARACTER	1	BMSMSTR2	TYPE REQUEST BYTE TWO FROM TCA
(23)	CHARACTER	1	BMSMSTR3	TYPE REQUEST BYTE THREE FROM TCA
(23)	1...		*	
(23)	.1..		*	
(23)	..1.		BMSMSHON	HONEOM REQD ON O/P MAPPING * (EXEC I/F ONLY)
(23)	...1		*	
(23)	.... 1...		BMSMSTC	CURSOR = NUMBER
(23)	.... .1..		BMSMSTCW	CTRL = ANY 3270 WCC

Table 391. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(24)	CHARACTER	1	BMSMSTR4	TYPE REQUEST BYTE FOUR FROM TCA
(24)	1...		*	
(24)	.1..		BMSMSTDN	DATA = NO
(24)	..1.		BMSMSTRS	TYPE = SAVE
(24)	...1		*	
(24)	.... 1...		*	
(24)	.... .1..		BMSMSTRM	TYPE = MAP
(24)	.... ..1.		BMSMSTRE	TYPE = ERASE
(24)	1		BMSMSTRI	TYPE = IN
(25)	CHARACTER	1	BMSMSTR5	TYPE REQUEST BYTE FIVE FROM TCA
(25)	1...		BMSMSTRB	TYPE = PAGEBLD
(25)	.1..		*	
(25)	..1.		*	
(25)	...1		*	
(25)	.... 1...		*	
(25)	.... .1..		BMSMSTRO	TYPE = OUT
(26)	HALFWORD	2	BMSMSCP	CURSOR POSITION FROM TCA
(26)	HALFWORD	2	BMSDESCO	offset of ADS descriptor in loaded mapset, if present
(28)	CHARACTER	1	BMSMSWCC	WRITE CONTROL CHARACTERS FROM TCA
(29)	UNSIGNED	1	BMSATNO	FOR EXTENDED FORMAT MAPS, THE NUMBER OF BYTES IN BMSMATTS AND BMSDATTS =12 FOR RELEASE 1.7
(29)	CHARACTER	1	BMSMI2	MAP INDICATOR EXTENSION
(29)	1...		BMSMI2RM	KANJI EXTENDED ATTRS IN MAP *
(29)	.1..		BMSMI2RD	KANJI EXTENDED ATTRS IN APPLICATION STRUCTURE
(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

Table 391. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2E)	HALFWORD	2	BMSMAL	LENGTH OF ATTRIBUTES IN FIELD IN MAP
(30)	HALFWORD	2	BMSDAL	LENGTH OF ATTRIBUTES IN FIELD IN DATA STRUCTURE *
(32)	CHARACTER	12	BMSMATTS	MASK FOR ATTRIBUTES IN MAP FIELD: 00 - ATTR NOT IN FIELD NN - INDEX OF ATTR IN FLD *
(3E)	CHARACTER	12	BMSDATTS	MASK FOR ATTRIBUTES IN DATA STRUCTURE FIELD 00 - ATTR NOT IN FIELD NN - INDEX OF ATTR IN FLD *
(4A)	UNSIGNED	1	BMSFLDSL	LENGTH OF FIELD SEPARATOR 0 IF NOT SPECIFIED
(4B)	CHARACTER	4	BMSFLDSP	FIELD SEPARATOR UP TO FOUR CHARACTERS
(4F)	CHARACTER	0	BMSXMSEA	MAP SPECIFICATION ENDING ADDRESS FOR EXTENDED FORMAT MAPS

FIELD SPECIFICATIONS

Table 392.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	BMSFLD	
(0)	CHARACTER	8	BMSFSL	FIELD SPEC NO EXTATT
(0)	HALFWORD	2	BMSFPP	FIELD PAGE POSITION
(0)	UNSIGNED	1	BMSFPP_BYTE1	FIELD PAGE BYTE1
(1)	UNSIGNED	1	BMSFPP_BYTE2	FIELD PAGE BYTE2
(2)	HALFWORD	2	BMSFL	FIELD LENGTH
(4)	CHARACTER	1	BMSFDFB	FIELD DESCRIPTOR FLAG BYTE
(4)	1...		BMSFDCM	CASE = MIXED
(4)	.1..		BMSFDGFE	GROUP FIELD ENTRY
(4)	..1.		BMSFDGFD	GROUP FIELD DESCRIPTOR
(4)	...1		BMSFDPDA	ATTRB = DET
(4)	.... 1...		BMSFDJZ	JUSTIFY = ZERO
(4)	.... .1..		BMSFDJR	JUSTIFY = RIGHT
(4)	.... ..1.		BMSFDDD	INITIAL = ANY USER INFORMATION
(4)	1		BMSFDNF	DSECT ENTRY EXISTS
(5)	CHARACTER	1	BMSFA	FIELD ATTRIBUTE

Table 392. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 393.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	19	BMSALIAS	
(0)	UNSIGNED	1	BMSALLNG	LENGTH OF ALIAS EXTENSION
(1)	CHARACTER	1	BMSALTYP	TYPE CODE FOR ALIAS EXTENSION
(1)	1...		*	
(1)	.1..		*	
(1)	..1.		*	
(1)	...1		*	
(1)	.... 1...		*	
(1)	.... .1..		*	
(1)	.... ..1.		*	
(1)	1		BMSALTEQ	ALIAS EXTENSION TYPE CODE
(2)	CHARACTER	8	BMSOGNME	OUTBOARD MAP-GROUP NAME
(A)	CHARACTER	8	BMSOFNME	OUTBOARD FORMAT NAME
(12)	CHARACTER	1	BMSOFFLG	FLAG BYTE
(12)	1...		*	

Table 393. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(12)	.1..		*	
(12)	..1.		*	
(12)	...1		*	
(12)	.... 1...		*	
(12)	.... .1..		*	
(12)	.... ..1.		*	
(12)	1		BMSOFMGS	MAP-GROUP NAME SUFFIXED
(13)	CHARACTER	0	BMSALEND	END OF ALIAS EXTENSION AREA

Constants

Table 394.

Len	Type	Value	Name	Description
1	HEX	81	BMSMTF	INDICATING TAB MAP
1	HEX	C0	BMSMODIO	MODE = INOUT
1	HEX	FF	BMSMSLN	LINE = NEXT
1	HEX	FE	BMSMSLS	LINE = SAME
1	HEX	FF	BMSMSCN	COLUMN = NEXT
1	HEX	FE	BMSMSCS	COLUMN = SAME
1	HEX	C0	BMSMSTDY	DATA = YES

MBCA - Transient data buffer control

```
 DESCRIPTIVE NAME = Transient Data Buffer Control
                    CICS/ESA AP Domain
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1982, 1994
FUNCTION =
     Copybook DFHMBCPS provides structures, DFHMBCA and
     DFHMBCB and DFHMQCB.
     DFHMBCA describes the Buffer Common Area (MBCA),
     only one MBCA is allocated.
     DFHMBCB describes the Buffer Control Block (MBCB),
     one MBCB is allocated for each I/O buffer.
     DFHMQCB describes the Queue Control Block (MQCB),
     one MQCB is allocated for each I/O buffer. MQCBs
     are used to optimize the search for I/O buffers
     containing records for a given queue.
LIFETIME =
     The lifetime of the control blocks and I/O buffers
     is essentially that of CICS.
STORAGE CLASS =
     The control blocks are located in storage allocated
     from the DFHTDG31 subpool.
     The I/O buffers, if required, are located in storage
     allocated from the DFHTDIOB subpool.
     Note that the number of I/O buffers is defined as
```

```
     a SIT parameter / override.
     Note also that the number of I/O buffers allocated
     may exceed the number requests where this does not
     cause further pages to be allocated.
LOCATION =
     The MBCA is located from the TDST.
     MBCBs are located on one of three bi-directional
     chains whose anchors are located in the MBCA
       1. unallocated, I/O buffer is (logically) empty
       2. unallocated, I/O buffer contains valid data
       3. allocated, I/O buffer is (logically) modified
     MQCBs are located on one of many bi-directional
     chains
       1. anchor located in the MBCA when the associated
          MBCB is on chain 1
       2. anchor located in the relevant DCTE when the
          associated MBCB is on chain 2 or chain 3.
     Each MQCB may be located from its associated MBCB
     and vice versa.
INNER CONTROL BLOCKS =
     There are no inner control blocks.
NOTES :
 DEPENDENCIES =
     S/370
 RESTRICTIONS =
     There are no restrictions.
 MODULE TYPE =
     Control block definition.
           MULTIPLE BUFFERS - BUFFER COMMON AREA (MBCA)
```

Table 395.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	112	DFHMBCA	
(0)	CHARACTER	16	MBCA_PREFIX	prefix
(0)	HALFWORD	2	MBCA_LENGTH	- length
(2)	CHARACTER	1	MBCA_ARROW	- value - '>'
(3)	CHARACTER	3	MBCA_DFH	- value - 'DFH'
(6)	CHARACTER	2	MBCA_DOMID	- value - 'TD'
(8)	CHARACTER	8	MBCA_BLOCK	- value - 'MBCA '
(10)	CHARACTER	4	*	MBCA STATUS
(10)	CHARACTER	1	MBCAFLG0	- I/O BUFFERS
(10)	1...		MBCABFAL	- ALLOCATED
(10)	.1..		MBCABFRQ	- REQUIRED
(10)	..11 1111		*	- Reserved
(11)	CHARACTER	1	MBCAFLG1	- Reserved
(11)	BIT(8)	1	*	- Reserved
(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)

Table 395. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	FULLWORD	4	MBCABFSZ	- L(EACH BUFFER)
(20)	CHARACTER	32	*	MBCB CHAIN ANCHORS
(20)	CHARACTER	8	MBCACHN1	- UNALLOC/EMPTY CHAIN
(20)	ADDRESS	4	MBCAFCN1	- A(FIRST MBCB)
(24)	ADDRESS	4	MBCABCN1	- A(LAST MBCB)
(28)	CHARACTER	8	MBCACHN2	- UNALLOC/VALID CHAIN
(28)	ADDRESS	4	MBCAFCN2	- A(FIRST MBCB)
(2C)	ADDRESS	4	MBCABCN2	- A(LAST MBCB)
(30)	CHARACTER	8	MBCACHN3	- ALLOCATED CHAIN
(30)	ADDRESS	4	MBCAFCN3	- A(FIRST MBCB)
(34)	ADDRESS	4	MBCABCN3	- A(LAST MBCB)
(38)	CHARACTER	8	MBCACHNS	- STATIC CHAIN
(38)	ADDRESS	4	MBCAFCNS	- A(FIRST MBCB)
(3C)	ADDRESS	4	*	- Reserved
(40)	CHARACTER	8	*	MQCB CHAIN ANCHORS
(40)	CHARACTER	8	MBCACHNQ	- QUEUE INDEPENDENT CHAIN
(40)	ADDRESS	4	MBCAFCNQ	- A(FIRST MQCB)
(44)	ADDRESS	4	MBCABCNQ	- A(LAST MQCB)
(48)	CHARACTER	8	MBCA_SRC	MBCB allocation chain
(48)	ADDRESS	4	MBCA_TCA_P	- A(owning TCA) or 0
(4C)	ADDRESS	4	MBCA_MWCB_P	- A(first MWCB) or 0
(50)	CHARACTER	32	*	MBCB STATISTICS
(50)	CHARACTER	12	*	- ALLOCATION REQUESTS
(50)	FULLWORD	4	MBCATNAL	- TOTAL
(54)	FULLWORD	4	MBCACNAL	- CURRENT CONCURRENT
(58)	FULLWORD	4	MBCAMXAL	- MAXIMUM CONCURRENT
(5C)	CHARACTER	12	*	- QUEUED REQUESTS
(5C)	FULLWORD	4	MBCATNWT	- TOTAL
(60)	FULLWORD	4	MBCACNWT	- CURRENT CONCURRENT
(64)	FULLWORD	4	MBCAMXWT	- MAXIMUM CONCURRENT
(68)	CHARACTER	8	*	- # CONTAINING VALID DATA
(68)	FULLWORD	4	MBCACNIU	- CURRENT
(6C)	FULLWORD	4	MBCAMXIU	- MAXIMUM
(70)	CHARACTER	0	*	

MULTIPLE BUFFERS - BUFFER CONTROL BLOCK (MBCB)

Table 396.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	DFHMBCB	
(0)	CHARACTER	12	*	MBCB CHAINS
(0)	CHARACTER	8	*	- STATUS SPECIFIC CHAIN
(0)	ADDRESS	4	MBCBFCHN	- A(NEXT MBCB)
(4)	ADDRESS	4	MBCBBCHN	- A(PREVIOUS MBCB)
(8)	CHARACTER	4	*	- STATIC CHAIN
(8)	ADDRESS	4	MBCBSCHN	- A(NEXT MBCB) OR 0
(C)	CHARACTER	4	*	I/O BUFFER STATUS
(C)	CHARACTER	1	MBCBFLG0	- ALLOCATION
(C)	1...		MBCBLCKD	- PREEMPTED
(C)	.111 1111		*	- Reserved
(D)	CHARACTER	1	MBCBFLG1	- CONTENTS
(D)	1...		MBCBVALD	- VALID
(D)	.111 1111		*	- Reserved
(E)	CHARACTER	1	MBCBFLG2	- ACTIONS
(E)	1...		MBCBPTRQ	- WRITE
(E)	.1..		MBCBGTRQ	- READ
(E)	..11 1111		*	- Reserved
(F)	CHARACTER	1	MBCBFLG3	- Reserved
(F)	BIT(8)	1	*	- Reserved
(10)	CHARACTER	24	*	I/O BUFFER PARAMETERS
(10)	CHARACTER	12	*	- LOCATION, DEFINED BY
(10)	ADDRESS	4	MBCBABFR	- A(I/O BUFFER)
(14)	FULLWORD	4	MBCBLBFR	- L(I/O BUFFER)
(18)	ADDRESS	4	MBCBACDF	- A(CIDF)
(1C)	CHARACTER	8	*	- CONTENTS, DEFINED BY
(1C)	FULLWORD	4	MBCBCRBA	- RBA(CI)
(20)	ADDRESS	4	MBCBMRCA	- A(MRCA)
(24)	ADDRESS	4	MBCB_DCTE_P	- A(DCTE) or 0
(28)	CHARACTER	8	*	associated control blocks
(28)	ADDRESS	4	MBCB_MQCB_P	- A(MQCB)
(2C)	ADDRESS	4	MBCB_MRCB_P	- A(MRCB) or 0
(30)	CHARACTER	8	MBCB_SRC	MBCB preemption chain
(30)	ADDRESS	4	MBCB_TCA_P	- A(owning TCA) or 0
(34)	ADDRESS	4	MBCB_MWCB_P	- A(first MWCB) or 0
(38)	CHARACTER	0	*	

MULTIPLE BUFFERS - QUEUE CONTROL BLOCK (MQCB)

Table 397.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	DFHMQCB	
(0)	CHARACTER	8	*	QUEUE SPECIFIC CHAIN
(0)	ADDRESS	4	MQCBFCHN	- A(NEXT MQCB)
(4)	ADDRESS	4	MQCBBCHN	- A(PREVIOUS MQCB)
(8)	CHARACTER	8	*	associated control blocks
(8)	ADDRESS	4	MQCB_MBCB_P	- A(MBCB)
(C)	CHARACTER	4	*	- Reserved
(10)	CHARACTER	0	*	

MCA - Map control area description

```
DESCRIPTIVE NAME = CICS TS MAP CONTROL AREA DESCRIPTION
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1984
FUNCTION = DESCRIBE MAP CONTROL AREA FOR SETTING UP BMS OUTPUT
           DATA STREAM FOR 3270 OR LU1 SCS PRINTER DEVICE
       This area contains information pertinent to one of the
       maps being used in a page build process for a 3270
       or LU1 SCS printer device.
       The Map Control Areas for one page of data are maintained
       on a chain which is anchored in field TTPMMFCP contained
       in the current TTP. The chain is maintained in order
       by the field position of the next field to be processed
       in each map. The last Map Control Area in the chain is
       always a dummy MCA containing only a zero chain address
       and a maximum possible field position. Each MCA contains
       copies of those fields of the map header which are
       required to build the data stream. All the Map Control
       Areas for one page of data are contained in one area of
       storage with the first one being the dummy MCA.
EXTERNAL REFERENCES :
   NONE
TABLES :
   NONE
MACROS :
   NONE
METHOD :
   USED BY DFHM32 AND DFHML1 TO HOLD INFORMATION
   ABOUT A SINGLE MAP AND ITS FIELDS.
```

Table 398.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHMCADS	
(0)	CHARACTER	4	MCACBID	MCA SELF IDENTIFICATION. SET TO 'MCAD' WHEN AN MCA IS CREATED
(4)	ADDRESS	4	MCACHAIN	ADDRESS OF NEXT MCA IN CHAIN
(8)	HALFWORD	2		RESERVED

Table 398. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A)	HALFWORD	2	MCAFPP	PAGE ADDRESS OF CURRENT FIELD (COPY OF BMSFPP)
(A)	.... 11..		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				
(18)	ADDRESS	4	MCADATA	CURRENT DATA ADDRESS IN TIOA
(1C)	ADDRESS	4	MCAFIELD	CURRENT FIELD ADDRESS IN MAP
(20)	CHARACTER	1	MCAMODE	MAP DESCRIPTOR FLAG BYTE (COPY OF BMSMODE)
(21)	CHARACTER	1	MCAMSTR4	TYPE REQUEST BYTE FOUR FROM TCA (COPY OF BMSMSTR4)
(21)	1...		MCAMSTDT	"X'80'" DATA CAN BE TAKEN FROM THE TIOA
(21)	.1..		MCAMSTDM	"X'40'" DATA CAN BE TAKEN FROM THE MAP
(22)	CHARACTER	1	MCAMI	MAP INDICATORS (COPY OF BMSMI)
(23)	CHARACTER	1	MCAMI2	MAP INDICATORS (COPY OF BMSMI2)
(24)	CHARACTER	1		RESERVED
(25)	CHARACTER	1	MCAFLAG	FLAGS FOR INTERNAL USE
(25)	1...		MCAGMF	"X'80'" MF (MODIFY FIELD) TO BE GENERATED RATHER THAN SFE(START FIELD EXTENDED)
(25)	.1..		MCANOSC	"X'40'" NO SHIFT OUT / SHIFT IN CHARACTERS ALLOWED IN DATA
(25)	..1.		MCAMHSA	"X'20'" MAP CONTAINS SOSI FIELD ATTRIBUTE
(26)	HALFWORD	2	MCAMHLL	OFFSET TO FIRST MAP FIELD
(28)	HALFWORD	2	MCAMAL	NUMBER OF MAT ATTRIBUTES
(2A)	HALFWORD	2	MCADAL	NUMBER OF ADS ATTRIBUTES
(2C)	CHARACTER	12	MCATERMM	MAP/TERMINAL MASK

Table 398. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(31)	CHARACTER	1	MCATERSO	SOSI MASK BYTE
(38)	CHARACTER	12	MCATERMD	DSECT/TERMINAL MASK
(44)	CHARACTER	13	MCAMXAT0 (0)	MAP FIELD ATTRIBUTE WORK AREA
(44)	CHARACTER	1		THIS BYTE MUST BE ZERO
(45)	CHARACTER	12	MCAMXAT	COPY OF MAP FIELD ATTRIBUTES
(51)	CHARACTER	13	MCADXAT0 (0)	ADS FIELD ATTRIBUTE WORK AREA
(51)	CHARACTER	1		THIS BYTE MUST BE ZERO
(52)	CHARACTER	12	MCADXAT	COPY OF ADS FIELD ATTRIBUTES
(5E)	HALFWORD	2		RESERVED
INFORMATION ABOUT MCA EXTENSION, FILLED IN IF THE MAP CONTAINS FIELDS NOT IN ORDER OF PAGE POSITION				
(60)	FULLWORD	4	MCANXF	NEXT FIELD TO BE PROCESSED IN EXT
(64)	HALFWORD	2	MCAEXF	NUMBER OF FIELDS IN EXTENSION
(66)	HALFWORD	2	MCAEXL	EXTENSION LENGTH
(68)	HALFWORD	2	MCAEXT (0)	EXTENSION START
(68)	.11. 1...		MCAEL	"*-DFHMCADS" MCA ENTRY LENGTH
MCA EXTENSION: FORMAT OF FIELD INFORMATION				
(68)	HALFWORD	2	MCAPP	FIELD POSITION ON PAGE
(6A)	ADDRESS	4	MCADP	-> FIELD DATA IN TIOA USE ICM
(6E)	ADDRESS	4	MCAMP	-> FIELD DATA IN MAP DSECT USE ICM

MCB - BMS message control block

```
DESCRIPTIVE NAME = CICS TS BMS MESSAGE CONTROL BLOCK
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1980, 2016
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
 MODULE TYPE = DSECT
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE
ENTRY POINT = NOT APPLICABLE
 PURPOSE = SEE FUNCTION
 LINKAGE = NOT APPLICABLE
INPUT = NOT APPLICABLE
OUTPUT = NOT APPLICABLE
EXIT-NORMAL = NOT APPLICABLE
EXIT-ERROR = NOT APPLICABLE
EXTERNAL REFERENCES = NONE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NOT APPLICABLE
 MACROS = NONE
```

Table 399.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHMCB	
(0)	FULLWORD	4	MCBSAA	SHARED STORAGE ACCOUNTING
(4)	FULLWORD	4	MCBCOMN (0)	START MCB COMMON CONTROL AREA
MCB COMMON CONTROL AREA				
(4)	ADDRESS	4	MCBNEXT	POINTER TO CHAINED MCB
FIELDS ABOVE OVERLAP THE BMS TCTTE EXTENSION FOR FINDING THE MCB CHAIN HEADER				
(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)
(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

Table 399. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	1...		MCBTITLE	"X'80'" ...MESSAGE HAS A TITLE
(29)	.1..		MCBWBCUR	"X'40'" ...WTBRK=CURRENT (2741 ONLY)
(29)	..1.		MCBWBALL	"X'20'" ...WTBRK=ALL (2741 ONLY)
(29)	...1		MCBEODOP	"X'10'" ...EODPURG=OPER FOR THIS MESSAGE
(29)	.... 1...		MCBOPCHK	"X'08'" ...OPERATOR CHECKING WITH MESSAGE
(29)	.... .1..		MCBMCRCK	"X'04'" ...MCR HAS BEEN CHECKED
(29)	.... ..1.		MCBCURR	"X'02'" ...THIS IS CURRENT CHAIN LEVEL
(29)	1		MCBACT	"X'01'" ...THIS MCB IS ACTIVE
THESE FIELDS POSITIONALLY DEPENDENT ON 'MCBMSGID' & 'MCBLDCL				
(2A)	HALFWORD	2	(0)	
(2A)	CHARACTER	18	MCBCLDCI (0)	DESTINATION INFORMATION
(2A)	HALFWORD	2	MCBPAG	PAGE NUMBER CURRENTLY BEING DISPLAYED
(2C)	CHARACTER	2	MCBCLDCM	CURRENTLY ACTIVE LDC MNEMONIC
(2E)	BITSTRING	1	MCBCLDCD	CURRENTLY ACTIVE LDC DEVICE CODE

Table 399. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2F)	BITSTRING	1	MCBLDCF	CURRENTLY ACTIVE DESTINATION CODE
REFER TO 'MCBRLDCF' FOR VALUES				
(30)	HALFWORD	2	MCBPGCNT	TOTAL NUMBER OF PAGES PER DESTINATION
(32)	CHARACTER	8	MCBCDSN	CURRENTLY ACTIVE DESTINATION NAME
(3A)	BITSTRING	1	MCBCDSP	DATA STREAM PROFILE
(3C)	HALFWORD	2	MCBCHCNT	NUMBER OF CHAIN LEVELS 01 CONNECTED TO TERMINAL 01 (FIRST MCB ONLY)
(40)	FULLWORD	4	(0)	ALIGNMENT
(40)	CHARACTER	2	MCBCPRTN	NAME OF CURRENT PARTITION
(42)	CHARACTER	1	MCBCPID	PID OF CURRENT PARTITION
(43)	BITSTRING	3		RESERVED
(46)	BITSTRING	1	MCBIND02	MCB INDICATOR TWO
(46)	1...		MCBAPDUN	"X'80'" ALL AUTOMATIC PAGING COMPLETE
(46)	.1..		MCBPNDUN	"X'40'" PAGING NOT COMPLETE
(46)	..1.		MCBFSDUN	"X'20'" FINAL SCAN COMPLETE
(46)	...1		MCBQKPRG	"X'10'" MESSAGE ELIGIBLE FOR QUICK PURGE
(46)	.... 1...		MCBSCSZ	"X'08'" USE ALTERNATE SCREENSIZE
(46)	.... .1..		MCBTRAN	"X'04'" PAGES INCLUDE EXTRA BYTE FOR TRANSPARENT MODE
(46)	.... ..1.		MCBRDSPL	"X'02'" REDISPLAY CURRENT PAGE IN EACH PARTITION
(46)	1		MCBSCHED	"X'01'" AID for this MCB has been rescheduled by DFHACP
(48)	FULLWORD	4	MCBCEND (0)	END COMMON MCB
(48)	.1.. 1...		MCBLEN	"MCBCEND-DFHMCB" LENGTH OF COMMON MCB AREA
MCB/LDC REPEATED ENTRY				
(48)	.... .1..		MCBDRLDC	"4" DEFAULT REPEATED ENTRY COUNT
THESE FIELDS POSITIONALLY DEPENDENT ON 'MCBCLDCI'				

Table 399. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(48)	.1.. 1...		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)	1...		MCBPSTAT	"X'80'" (= TCTTEPGP) PAGING STATUS
(4D)	.1..		MCBTREV	"X'40'" (= TCTTEPGR) PAGING STATUS TEMPORARILY REVERSED. LAST 6 BITS RESERVED
(4E)	HALFWORD	2	MCBRTPC	TOTAL PAGE COUNT FOR THIS LDC
(50)	CHARACTER	8	MCBRDSN	DESTINATION NAME
(58)	CHARACTER	1	MCBRDSP	DATA STREAM PROFILE
(5A)	HALFWORD	2	(0)	ENSURE ALIGNMENT
(5A)	.1.1 1.1.		MCBRLDCE	"*" END REPEATED ENTRY
(5A)	...1 ..1.		MCBRLEN	"MCBRLDCE-MCBLDCL" LDC REPEATED ENTRY LENGTH
(48)	CHARACTER	0	MCBLDCLL (0)	DEFINE MCB/LDC LIST
MCB'S PG/LDC TABLE				
(48)	.... 1...		MCBDLDCP	"8" PAGE/LDC TABLE SIZE (NUMBER OF ENTRIES)
DEFINE SPACE FOR THE PAGE/LDC TABLE				
(90)	CHARACTER	1		
(90)	1.1.		MCBEXEND	"*" END OF TABLE
(90)	1.1.		MCBEXLEN	"MCBEXEND-DFHMCB" LENGTH OF TABLE

MCR - BMS message control record dsect

```
DESCRIPTIVE NAME = CICS TS BMS MESSAGE CONTROL RECORD DSECT
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1993, 2014
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
```

```
 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 400.

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)	.... 1...		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

```
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
```

Table 400. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(28)	1...		MCRTITLE	"X'80'" ...TITLE RECORD IN THIS MCR
(28)	.1..		MCRWBCUR	"X'40'" ...WTBRK=CURRENT (2741 ONLY)
(28)	..1.		MCRWBALL	"X'20'" ...WTBRK=ALL (2741 ONLY)
(28)	...1		MCREODOP	"X'10'" ...EODPURG=OPER
(28)	.... 1...		MCRPAGE	"X'08'" ...MAKE TEMPORARILY PAGING
(28)	.... .1..		MCRAUTOP	"X'04'" ...MAKE TEMPORARILY AUTOPAGE
(28)	.... ..1.		MCRBMSSM	"X'02'" ...BMS - SYSTEM MESSAGE
(28)	1		MCRRTAIN	"X'01'" ...CTRL=RETAIN
(29)	BITSTRING	1	MCRSTAT	STATUS FLAG
(29)	1...		MCRQKPRG	"X'80'" MESSAGE ELIGIBLE FOR QUICK PURGE
(29)	.1..		MCRMLDC	"X'40'" MCR CONTAINS MULTIPLE LDC'S
(29)	.... 1...		MCRSCSZ	"X'08'" USE ALTERNATE SCREENSIZE
(29)	.... .1..		MCRTRAN	"X'04'" PAGES CONTAIN EXTRA BYTE FOR TRANSPARENT MODE
(29)	..1. 11..		MCRIDLST	"*" START OF TERMINAL LIST TERMINAL ENTRY FOR ONE TERMINAL -
(2C)	CHARACTER	4	MCRTRMID	TERMINAL IDENTIFICATION
(30)	CHARACTER	2	MCRLDCMN	LDC MNEMONIC
(32)	HALFWORD	2	MCRLDCPG	PAGE COUNT PER LDC
(34)	BITSTRING	1	MCRLDCCD	LDC CODE
(35)	CHARACTER	3	MCROPID	OPERATOR ID
(38)	BITSTRING	1	MCRSF	STATUS FLAG
(38)	1...		MCRSFPG	"TCTTEPGP" PAGING STATUS
(38)	.1..		MCRLFAIL	"X'40'" LOCATE FAILED - ENTRY IS SKIPPED ONLY IF MCRMLDC IS ON
(39)	BITSTRING	1	MCRTETYP	TYPE OF TERMINAL ENTRY
(39)	1...		MCRTEREM	"X'80'" REMOTE TERMINAL

Table 400. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(3A)	CHARACTER	8	MCRDSN (0)	DESTINATION NAME IF LOCALLY OWNED TERMINAL
(3A)	CHARACTER	4	MCRSYSID	ID OF TERMINAL OWNING SYSTEM (OR FIRST IN CHAIN) IF REMOTELY OWNED TERMINAL
(3E)	CHARACTER	4		RESERVED
(42)	BITSTRING	1	MCRDSP	DATA STREAM PROFILE
(43)	BITSTRING	1		RESERVED
(43)	.1.. .1..		MCRIDNXT	"*" LOCATION OF NEXT ID ENTRY
(43)	...1 1...		MCRLNTRY	"MCRIDNXT-MCRIDLST" MCR TERMINAL LIST ENTRY LENGTH

MGM - MGM format of prototype messages

```
CONTROL BLOCK NAME = DFHMGM TYPE=DSECT
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS MGM Format of Prototype Messages
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1981, 2008
FUNCTION =
       The MGT entry describes the message to be issued.
       This DSECT maps the MGT entry.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
```

Table 401.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	ETMGDSCT	
(0)	BITSTRING	1	ETMGCTYP	TYPE 0 NO TCTTE PASSED 1 TCTTE PASSED 2 IST TCTTE = SENT MSG TCTTE, 2ND TCTTE = TERM IN INSERTS
THE OPTIONS SPECIFIED WITH THE MSG ARE ADDED TO THOSE PASSED BY THE CALLER NORMALLY NOTHING SHOULD BE SET				
(1)	ADDRESS	1	ETMGDEST	DESTINATION
FIELD SAME AS MGMGDEST				
(1)	..1.		ETMDTERM	"X'20'" DEST TERM
(1)	.... 1...		ETMDRETN	"X'08'" DEST RETURN TO CALLER

Table 401. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	.... .1..		ETMDNNUM	"X'04"' PRODUCE NO NUMBER
(1)	.... ..1.		ETMDTIOA	"X'02"' OBTAIN A TIOA
(2)	HALFWORD	2	ETMGMGNO	MSG NO
(4)	BITSTRING	1	ETMGMCOD	I/A/ TYPE ETC
FIELD SAME AS MGMOPTN1				
(4)	1...		ETMGMCDI	"X'80"' I TYPE MESSAGE
(4)	.1..		ETMGMCDA	"X'40"' A TYPE MESSAGE
(4)	..1.		ETMGMNLS	"X'20"' NLS MESSAGE
(4)	...1		ETMGRESP	"X'10"' response required
(4)	.... 1...		ETMG1CID	"X'08"' Component id specified
(4)	.... .1..		ETMGMCNX	"X'04"' ERRATT=NEXT
(4)	.... ..1.		ETMGMCNL	"X'02"' ERRATT=LASTLINE
(4)	1		ETMGMCNE	"X'01"' ERRATT=NO
(5)	ADDRESS	1	ETMGINS2	INSERT INFO - MGMOPTN2
FIELD SAME AS MGMOPTN2				
(5)	...1		ETMDDUMP	"X'10"' DUMP ON THIS MESSAGE
(6)	ADDRESS	1	ETMGPTN3	SWITCHES - MGMOPTN3
FIELD SAME AS MGMOPTN3				
(6)	1...		ETMG3PID	"X'80"' Product id specified
(7)	BITSTRING	1	ETMOFFV	OFFS OF MSG IN STG AREA
(8)	ADDRESS	1	ETMGDESX	DESTINATION EXTENTION BYTE
(9)	CHARACTER	2	ETMGCOMP	Component id
(B)	CHARACTER	3	ETMGPROD	Product id
(E)	HALFWORD	2	ETMGTLEN	TOTAL L OF MSG TEXTS.
(10)	CHARACTER	1	ETMGTSRT (0)	START OF TEXT
(10)	...1		TEXTOFF	"*-ETMGDSCT" MSG TXT OFFSET

THIS DSECT DESCRIBES PARTIAL MESSAGES IN PROTOTYPE MSGS

Table 402.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	ETMGTEXT	MSG TEXT.
(0)	HALFWORD	2	ETMGTYPL (0)	TYPE/LENGTH OF MSG TEXT
(0)	CHARACTER	1	ETMGTYPE	TYPE OF MSG TEXT.
(1)	CHARACTER	1	ETMGLEN	LENGTH OF MSG TEXT.
(2)	CHARACTER	1	ETMGMGDA	ACTUAL MSG

```
THIS DSECT DESCRIBES THE INPUT PLIST
```

Table 403.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MGMAMAP	*** MAP THE FW ADCONS IN DFHINS ***
(0)	ADDRESS	4	MGMAMSG	A(MGMMDEST)
(4)	ADDRESS	4	MGMAPARM	A(INSERT/MSG TABLE)
(4)	1...		MGMAMLST	"X'80'" LAST FLAG

```
THIS DSECT DESCRIBES THE FIRST PARAMETER,WHICH IS ALWAYS PRESENT
```

Table 404.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MGMMDEST	*** MESSAGE NO AND DESTINATION CODE ***
(0)	BITSTRING	1	MGMGTYPE	TYPE OF MESSAGE
(0)	1		MGMGTCTE	"X'01'" MGMAPARM = A(TCTTE)
(1)	CHARACTER	1	MGMGDEST	DESTINATION/ACTION.
(1)	..1.		MGMDTERM	"X'20'" DEST TERM
(1)	.... 1...		MGMDRETN	"X'08'" DEST RETURN TO CALLER
(1)	.... .1..		MGMDNNUM	"X'04'" NO MSG NO. TO BE PRODUCED
(1)	.... ..1.		MGMDTIOA	"X'02'" OBTAIN A TIOA
(1)	1		MGMDIPIC	"X'01'" PLACE IN IPIC BUFFER
(2)	ADDRESS	2	MGMGNO	MSG NO
(4)	BITSTRING	1	MGMOPTN1	TYPE /I/A RESERVED
(4)	1...		MGMD1CDI	"X'80'" I TYPE MESSAGE
(4)	.1..		MGMD1CDA	"X'40'" A TYPE MESSAGE
(4)	..1.		MGMD1NLS	"X'20'" NLS MESSAGE
(4)	...1		MGMDRESP	"X'10'" MGP Response code required
(4)	.... 1...		MGMD1CID	"X'08'" COMP ID PRESENT
(4)	.... .1..		MGMD1CNX	"X'04'" ERRATT=NEXT
(4)	.... ..1.		MGMD1CNL	"X'02'" ERRATT=LASTLINE
(4)	1		MGMD1CNE	"X'01'" ERRATT=NO
(5)	BITSTRING	1	MGMOPTN2	OPTION TWO
(5)	1...		MGMTERAS	"X'80'" ERASE REQUIRED *
(5)	.1..		MGMTFMHP	"X'40'" FMH PRESENT
(5)	..1.		MGMTCONV	"X'20'" CONVERSE REQUIRED
(5)	...1		MGMDDUMP	"X'10'" DUMP REQUIRED

Table 404. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5)	.... 1...		MGMDOFFS	"X'08"' PUT MESSAGE AT AN OFFSET (GIVEN BY VALUE OF MGMOFFV) WITHIN STORAGE AREA *
(5)	.... .1..		MGMTUNLK	"X'04"' UNLOCK OPTION REQUIRED
(5)	.... ..1.		MGMTLAST	"X'02"' LAST OPTION REQUIRED
(5)	1		MGMTWAIT	"X'01"' WAIT OPTION REQUIRED *
(6)	BITSTRING	1	MGMOPTN3	OPTION THREE
(6)	1...		MGMO3PID	"X'80"' PRODUCT ID SPECIFIED
(7)	BITSTRING	1	MGMOFFV	VALUE OF OFFSET WITHIN STG AREA FOR START OF MSG
(8)	CHARACTER	1	MGMGDESX	DESTINATION EXTENTION BYTE
(9)	BITSTRING	1	MGMRESP	MGP Response code
(A)	CHARACTER	2	MGMGCOMP	COMPONENT ID
(C)	CHARACTER	3	MGMGPROD	PRODUCT ID
(C)	 1111		MGMMDLN	"*-MGMMDEST" LENGTH OF MGMMDEST PARM

Table 405.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MGINSERT	*** LENGTH AND 'TEXT' OF INSERT ***
(0)	ADDRESS	2	MGINSRL	LENGTH OF INSERT IF ANY
(2)	CHARACTER	1	MGINSRD	INSERT IF ANY

MLRDS - XMLTRANSFORM Resource Statistics

```
CONTROL BLOCK NAME = DFHMLRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHMLRPS
DESCRIPTIVE NAME = CICS TS ML Domain (Xmltransform) Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2008, 2009
FUNCTION =
       This block described the statistics collected by the ML
       Domain.
       There is an instance of this block for each xmltransform
       which statistics have been requested.
LIFETIME = This block exists until the statistics request has been
       satisfied.
STORAGE CLASS =
LOCATION = The user is passed a pointer to the head of the block
INNER CONTROL BLOCKS = None
```

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

Table 406.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHMLRDS	Xmltransform Resid stats record
(0)	HALFWORD	2	MLRDS_LEN	Xmltransform stats record length
(2)	ADDRESS	2	MLRDS_ID	Xmltransform stats id
(4)	CHARACTER	1	MLRDS_VERS	Xmltransform stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	32	MLR_XMLTRANSFORM_NAME	Xmltransform name
(28)	BITSTRING	8		Reserved
(30)	BITSTRING	1	MLR_MSG_VALIDATION	Xmltransform msg validation
(31)	BITSTRING	3		Reserved
(34)	BITSTRING	4		Reserved
(38)	CHARACTER	255	MLR_XSDBIND_FILE	XML binding file
(137)	BITSTRING	1		Reserved
(138)	CHARACTER	255	MLR_XMLSCHEMA_FILE	XML schema file
(237)	BITSTRING	1		
(238)	FULLWORD	4	MLR_XMLTRNFM_USE_ COUNT	Xmltransform use count
(23C)	BITSTRING	4		Reserved
(240)	BITSTRING	8		Reserved
(248)	CHARACTER	8	MLR_XMLTRNFM_DEFINE_ SOURCE	Group installed from
(250)	BITSTRING	8	MLR_XMLTRNFM_CHANGE_ TIME	Change/create time
(258)	CHARACTER	8	MLR_XMLTRNFM_CHANGE_ USERID	Change userid
(260)	BITSTRING	2	MLR_XMLTRNFM_CHANGE_ AGENT	Change agent
(262)	BITSTRING	2	MLR_XMLTRNFM_ INSTALL_AGENT	Install agent
(264)	BITSTRING	8	MLR_XMLTRNFM_ INSTALL_TIME	Install/Create time
(26C)	CHARACTER	8	MLR_XMLTRNFM_ INSTALL_USERID	Install userid
(26C)		0	MLRDS_END	"*"

Table 406. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(26C)		0	MLRDS_LENGTH	"*-MLRDS_LEN" Xmltransform record length
Constants that denote a Xmltransform resource stats record				
(26C)	.111 ...1		MLRIDR	"113" ML Xmltransform resid stats id
(26C)	1		MLR_VERS	"X'01'" Record version number
(26C)	1		MLR_VALIDATION_NO	"X'01'" Xmltransform msg validation - No
(26C)	.... ..1.		MLR_VALIDATION_YES	"X'02'" Xmltransform msg validation - Yes Change Agents
(26C)	1		MLR_CSDAPI_CHANGE	"0001" CSD API
(26C)	.... ..1.		MLR_CSDBATCH_CHANGE	"0002" DFHCSDUP
(26C)	11		MLR_DREPAPI_CHANGE	"0003" DREP API
(26C)	.... .1..		MLR_CREATE_CHANGE	"0004" EXEC CREATE SPI
(26C)	.... 1...		MLR_DYNAMIC_CHANGE	"0008" Dynamic Install Agents
(26C)	.... 1...		MLR_DYNAMIC_INSTALL	"0008" Dynamic
(26C)	.... 1..1		MLR_BUNDLE_INSTALL	"0009" BUNDLE

MLVIC - Xmltransform vendor interface

```
-------------------------------------------------------------------
 Content of the CNTR container on input to the converter program
-------------------------------------------------------------------
```

Table 407.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1384	MLVI_INPUT_DATA	
(0)	CHARACTER	32	MLVI_XMLTRANSFORM	
(20)	CHARACTER	16	MLVI_XMLCONTNR	
(30)	CHARACTER	16	MLVI_DATACONTNR	
(40)	CHARACTER	16	MLVI_NSCONTNR	
(50)	CHARACTER	8	MLVI_RUNLVL	
(58)	UNSIGNED	4	MLVI_APP_CCSID	
(5C)	CHARACTER	1	MLVI_DIRECTION	
(5D)	CHARACTER	1	*	
(5E)	UNSIGNED	2	MLVI_ELEMNAME_LEN	
(60)	CHARACTER	256	MLVI_ELEMNAME	
(160)	UNSIGNED	2	MLVI_ELEMNS_LEN	
(162)	CHARACTER	256	MLVI_ELEMNS	
(262)	UNSIGNED	2	MLVI_TYPENAME_LEN	

Table 407. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(264)	CHARACTER	256	MLVI_TYPENAME	
(364)	UNSIGNED	2	MLVI_TYPENS_LEN	
(366)	CHARACTER	256	MLVI_TYPENS	
(466)	UNSIGNED	2	MLVI_SCHEMA_LEN	
(468)	CHARACTER	256	MLVI_SCHEMA	

```
------------------------------------------------------------------
 Content of the CNTR container on output from the
 converter program.
------------------------------------------------------------------
```

Table 408.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	MLVI_OUTPUT_DATA	
(0)	UNSIGNED	1	MLVI_RESPONSE	

Constants

Table 409.

Len	Type	Value	Name	Description
`------------------------------------------------------------------ container names for the XMLTRANSFORM Vendor interface ------------------------------------------------------------------`				
16	CHARACTER	DFHML-VNDOR-CNTR	MLVI_VDR_CN_CONT	
16	CHARACTER	DFHML-VNDOR-META	MLVI_VDR_MD_CONT	
`------------------------------------------------------------------ Constants for the mlvi_direction field ------------------------------------------------------------------`				
1	CHARACTER	T	MLVI_DIR_TO_XML	
1	CHARACTER	F	MLVI_DIR_FROM_XML	
`------------------------------------------------------------------ Constants for the mlvi_response field ------------------------------------------------------------------`				
1	DECIMAL	0	MLVI_OK	
1	DECIMAL	1	MLVI_XML_INVALID	
1	DECIMAL	2	MLVI_XML_CONV_ERROR	
1	DECIMAL	3	MLVI_DATA_INVALID	
1	DECIMAL	4	MLVI_DATA_CONV_ERROR	
1	DECIMAL	5	MLVI_UNSUPPORTED_EL	
1	DECIMAL	6	MLVI_UNSUPPORTED_TY	
1	DECIMAL	7	MLVI_OTHER	

MNADS - Monitoring Association Data Block

```
CONTROL BLOCK NAME = DFHMNADS
DESCRIPTIVE NAME = CICS Monitoring (MN) Domain
                   Association Data Control Block
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 2006, 2011
FUNCTION = TASK ORIGIN AND INITIATION INFORMATION.
     Owned and managed by Monitor Domain.
     MNADCB
      Contains information pertaining to the origin of the
      current task. This information is provided to the
      user exit XAPADMGR. This exit is called on the
      original task where the work entered the CICS
      environment. The exit may return user correlation
      data that is added to the MNODR.
      Also sometimes referred to as MNADCCB.
LIFETIME = Created by the Monitor Domain for the life of each
           non-system task.
STORAGE CLASS = Task
LOCATION =
INNER CONTROL BLOCKS = NONE
NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = NONE
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = NONE
  DATA AREAS = NONE
  CONTROL BLOCKS = NONE
  GLOBAL VARIABLES (Macro pass) = NONE
-------------------------------------------------------------------
Monitor Association Data Control Block -- MN AD CB --
THE MONITOR ASSOCIATION DATA CONTROL BLOCK CONTAINS:
    THE CURRENT TASK ORIGIN DESCRIPTOR FIELDS
    THE CURRENT TASK ADDITIONAL DATA FIELDS
```

Table 410.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	300	MNADCB	
ASSOCIATED DATA CURRENT TASK				
(0)	CHARACTER	300	MNAD_CURRENT_TASK	
PASSED IN ORIGIN DESCRIPTOR				
(0)	CHARACTER	164	MNAD_DESCRIPTOR	
(0)	CHARACTER	8	MNAD_APPLID	
(8)	CHARACTER	21	MNAD_START_CLOCK	
(8)	CHARACTER	8	MNAD_START_DATE	
(8)	CHARACTER	4	MNAD_START_YEAR	
(C)	CHARACTER	2	MNAD_START_MONTH	
(E)	CHARACTER	2	MNAD_START_DAY	
(10)	CHARACTER	13	MNAD_START_TIME	
(10)	CHARACTER	2	MNAD_START_HOUR	
(12)	CHARACTER	2	MNAD_START_MIN	
(14)	CHARACTER	2	MNAD_START_SEC	

Table 410. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(16)	CHARACTER	1	MNAD_START_DECIMAL	'.'
(17)	CHARACTER	6	MNAD_START_USEC	
(1D)	CHARACTER	7	MNAD_TASK_NUMBER	
(24)	CHARACTER	4	MNAD_1ST_TRANSID	
(28)	CHARACTER	8	MNAD_USERID2	
(30)	CHARACTER	8	MNAD_FACILITYTYPE	
(38)	CHARACTER	8	MNAD_FACILITYNAME	
(40)	CHARACTER	28	MNAD_TRANS_GRPID	
FOLLOWING ARE CONDITIONAL ON FACILITY TYPE				
(5C)	CHARACTER	16	MNAD_NQ_LUNAME	
(5C)	CHARACTER	8	MNAD_NETID	
(64)	CHARACTER	8	MNAD_NETNAME	
(6C)	CHARACTER	8	MNAD_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 TS Monitoring Domain User EMP structure
     definitions for EMP Qualifiers, EMP chaining, and EMP
     options.
     Monitoring Control Table (if any).
     It contains the following structures...
       a) User EMP address list defined in an MCT.
       b) User EMP Qualifier and EMP chaining.
       c) User EMP Option definitions.
```

```
The MN Domain User Event Monitoring Point (EMP)
  The User Event Monitoring Point contains:
           The address of the next EMP with the same id
           The address of the EMP qualifier
           A sequence of EMP options
INNER CONTROL BLOCKS = None
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Structure definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
  DATA AREAS = None
  CONTROL BLOCKS = None
  GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
```

Table 411.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	DFHMNEMP	
(0)	ADDRESS	4	MNEMP_NEXT_EMP_FOR_ID	
(4)	ADDRESS	4	MNEMP_QUALIFIER_PTR	

```
  EMP Options
```

Table 412.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	DFHMNOPT	
(0)	UNSIGNED	2	MNEMP_OPTION_TYPE	
(2)	UNSIGNED	2	MNEMP_OPTION_SOURCE	
(4)	ADDRESS	4	MNEMP_OPTION_OFFSET	
(8)	UNSIGNED	4	MNEMP_OPTION_CNSTANT	*

Constants

Table 413.

Len	Type	Value	Name	Description
EMP constants				
2	DECIMAL	1	MNEMP_SCLOCK	
2	DECIMAL	2	MNEMP_PCLOCK	
2	DECIMAL	3	MNEMP_SCPUCLK	
2	DECIMAL	4	MNEMP_PCPUCLK	
2	DECIMAL	5	MNEMP_ADDCNT	
2	DECIMAL	6	MNEMP_SUBCNT	
2	DECIMAL	7	MNEMP_NACNT	
2	DECIMAL	8	MNEMP_ORCNT	
2	DECIMAL	9	MNEMP_EXCNT	
2	DECIMAL	10	MNEMP_MLTCNT	
2	DECIMAL	11	MNEMP_MOVE	

Table 413. (continued)

Len	Type	Value	Name	Description
2	DECIMAL	12	MNEMP_DELIVER	
2	DECIMAL	65535	MNEMP_END	
2	DECIMAL	1	MNEMP_CONSTANT	
2	DECIMAL	2	MNEMP_DATA1	
2	DECIMAL	3	MNEMP_DATA2	

MNEXC - Monitoring exception record

```
MACRO NAME = DFHMNEXC
DESCRIPTIVE NAME = CICS TS Monitoring Exception Record
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1987, 2013
FUNCTION =
      To generate the dsect for the Monitoring Exception Record
NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS = None
  REGISTER CONVENTIONS = None
  MODULE TYPE = Object definition macro
  ATTRIBUTES = N/A
--------------------------------------------------------------------
PURPOSE = To generate the dsect for the Monitoring Exception
       Record.
   CALLERS = DFH$MOLS
   SYNTAX = <name> DFHMNEXC <PREFIX=xxx>
   INPUTS = None
   OUTPUTS = Definition of the Monitoring Exception Record.
   RETURN CODES = None
   PROGRAMMING NOTES = None
MACRO MESSAGES =
       DFHMNEXC - INVALID OVERRIDING PREFIX
--------------------------------------------------------------------
EXTERNAL REFERENCES =
   MACROS (Macro pass) = None
   ROUTINES (Generated code) = None
   DATA AREAS (Generated code) = None
   CONTROL BLOCKS (Generated code) = None
   GLOBAL VARIABLES (Macro pass) = None
--------------------------------------------------------------------
```

Table 414.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MNEXCDS	
(0)	CHARACTER	4	EXCMNTRN	TRANSACTION IDENTIFICATION
(4)	BITSTRING	4	EXCMNTER	TERMINAL IDENTIFICATION
(8)	CHARACTER	8	EXCMNUSR	USER IDENTIFICATION
(10)	CHARACTER	4	EXCMNTST	TRANSACTION START TYPE
(14)	BITSTRING	8	EXCMNSTA	EXCEPTION START TIME

Table 414. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	BITSTRING	8	EXCMNSTO	EXCEPTION STOP TIME
(24)		4	EXCMNTNO	TRANSACTION NUMBER
(28)	BITSTRING	4	EXCMNTPR	TRANSACTION PRIORITY
(2C)	CHARACTER	4		RESERVED
(30)	CHARACTER	8	EXCMNLUN	LUNAME
(38)	CHARACTER	4		RESERVED
(3C)	BITSTRING	4	EXCMNEXN	EXCEPTION NUMBER
(40)	CHARACTER	8	EXCMNRTY	EXCEPTION RESOURCE TYPE
(48)	CHARACTER	8	EXCMNRID	EXCEPTION RESOURCE ID
(50)	BITSTRING	2	EXCMNTYP	EXCEPTION TYPE
(50)	1		EXCMNWT	"X'0001'" WAIT
(50)	.... ..1.		EXCMNBWT	"X'0002'" BUFFER WAIT
(50)	11		EXCMNSWT	"X'0003'" STRING WAIT
(50)	.... .1..		EXCMNPOL	"X'0004'" POLICY
(52)	CHARACTER	2		RESERVED
(54)	CHARACTER	8	EXCMNTCN	TRANSACTION CLASS NAME
(5C)	CHARACTER	8	EXCMNSRV	SERVICE CLASS NAME
(64)	CHARACTER	8	EXCMNRPT	REPORT CLASS NAME
(6C)	CHARACTER	20	EXCMNNPX	NETWORK UNIT-OF-WORK PREFIX
(80)	BITSTRING	8	EXCMNNSX	NETWORK UNIT-OF-WORK SUFFIX
(88)	BITSTRING	8	EXCMNTRF	TRANSACTION FLAGS
(90)	CHARACTER	4	EXCMNFCN	TRANSACTION FACILITY NAME
(94)	CHARACTER	8	EXCMNCPN	CURRENT PROGRAM NAME
(9C)	CHARACTER	4	EXCMNBTR	BRIDGE TRANSACTION ID
(A0)	BITSTRING	16	EXCMNURI	RRMS/MVS UNIT OF RECOVERY ID
(B0)	FULLWORD	4	EXCMNRIL	EXCEPTION RESOURCE ID LENGTH
(B4)	BITSTRING	256	EXCMNRIX	EXCEPTION RESOURCE ID (EXTENDED)
(1B4)	CHARACTER	8	EXCMNNID	NETWORK ID
(1BC)	CHARACTER	8	EXCMNRLU	REAL LUNAME
END OF EXCEPTION RECORD ...				

MNG - Monitoring domain statistics

```
CONTROL BLOCK NAME = DFHMNGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHMNGPS
DESCRIPTIVE NAME = CICS TS Monitoring domain statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 2014
FUNCTION =
       This data area contains global statistics provided by the
       Monitoring Domain
       It is provided for use in users monitoring applications to
       map the statistics written to SMF by the statistics domain.
       There is a single instance of this data block.
LIFETIME =
       This data block is created when the Monitoring Domain is
       initialised and remains until the domain is shut down.
LOCATION =
       User is passed a pointer to the head of the storage block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS =
   MODULE TYPE = Domain call buffer
-------------------------------------------------------------------
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = none
    GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
```

Table 415.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHMNGDS	Monitoring Domain Stats
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	MNGLEN	Length of data
(0)	.1.1 ...1		MNGIDE	"81" Monitoring domain id mask
(2)	ADDRESS	2	MNGID	Monitoring domain id
(2)	1		MNGVERS	"X'01'" DSECT version mask
(4)	CHARACTER	1	MNGDVERS	DSECT version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	MNGER	No. Exception records
(C)	FULLWORD	4	MNGERS	No. Exception records supp. by exit
(10)	FULLWORD	4	MNGPR	No. Performance records
(14)	FULLWORD	4	MNGPRS	No. Performance records supp. by exit
(18)	FULLWORD	4	MNGSMFR	No. SMF records
(1C)	FULLWORD	4	MNGSMFE	No. SMF Errors
(20)	FULLWORD	4	MNGSMFNC	No. SMF records not compressed
(24)	FULLWORD	4	MNGSMFCM	No. SMF records compressed

Table 415. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(28)	FULLWORD	4	MNGRR	No. Resource records
(2C)	FULLWORD	4	MNGRRS	No. Resource records supp. by exit
(30)	FULLWORD	4	MNGIR	No. Identity records
(34)	FULLWORD	4	MNGIRS	No. Identity records supp. by exit
(38)	HALFWORD	2	MNGFRL	File Resource Limit
(3A)	HALFWORD	2	MNGTRL	Tsqueue Resource Limit
(3C)	HALFWORD	2	MNGDPLRL	DPL Resource Limit
(3E)	BITSTRING	6		Reserved
(44)	BITSTRING	1	MNGMRCMP	Data Compression Option
(44)	....		MNGRCMPN	"X'00'" 0 = Data Compression is Not Active
(44)	1		MNGRCMPY	"X'01'" 1 = Data Compression is Active
(45)	BITSTRING	3		Reserved
(48)	FULLWORD	4	MNGAVURL	Avg Uncompressed record length
(4C)	FULLWORD	4	MNGAVCRL	Avg Compressed record length
(50)	BITSTRING	1	MNGWLMMD	Workload Management Mode
(50)	....		MNGCOMP	"X'00'" 0 = Compatibility Mode
(50)	1		MNGGOAL	"X'01'" 1 = Goal Mode
(51)	BITSTRING	1	MNGWLMST	WLM Address Space Server status
(51)	....		MNGNSRV	"X'00'" 0 = Address Space is Not a Server
(51)	1		MNGSRV	"X'01'" 1 = Address Space is a Server
(52)	BITSTRING	2		Reserved
(54)	CHARACTER	8	MNGWLMSC	WLM Service Class name - if any
(5C)	CHARACTER	8	MNGWLMWN	WLM Owning Workload Name
(64)	CHARACTER	8	MNGWLMRG	WLM Resource Group name - if any
(6C)	CHARACTER	8	MNGWLMRC	WLM Report Class name - if any
(74)	BITSTRING	1	MNGWLMGT	WLM Goal type
(74)	....		MNGGTNA	"X'00'" 0 = Not applicable
(74)	1		MNGGTVEL	"X'01'" 1 = Velocity
(74)	.... ..1.		MNGGTDIS	"X'02'" 2 = Discretionary

Table 415. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(74)	11		MNGGTSYS	"X'03'" 3 = System
(75)	BITSTRING	1	MNGWLMCC	WLM CPU Critical
(75)	....		MNGCCNCR	"X'00'" 0 = Not critical
(75)	1		MNGCCCRT	"X'01'" 1 = Critical
(76)	BITSTRING	1	MNGWLMSK	WLM Storage Critical
(76)	....		MNGSCNCR	"X'00'" 0 = Not critical
(76)	1		MNGSCCRT	"X'01'" 1 = Critical
(77)	BITSTRING	1	MNGWLMGM	WLM Address Space Goal Mgmt
(77)	....		MNGASGTR	"X'00'" 0 = Transaction Goals
(77)	1		MNGASGRG	"X'01'" 1 = Region Goals
(77)	.... ..1.		MNGASGBH	"X'02'" 2 = Both Goals
(78)	FULLWORD	4	MNGWLMGV	WLM goal value Value of velocity goal 0 if type not velocity
(7C)	HALFWORD	2	MNGWLMGI	WLM goal importance
(7E)	HALFWORD	2		Reserved
(80)	CHARACTER	4	MNGCECTP	CEC Machine Type
(84)	CHARACTER	16	MNGCECID	CEC Model Number
(94)	BITSTRING	12		Reserved
(A0)	FULLWORD	4	MNGUTNUM	User transactions ended
(A4)	FULLWORD	4	MNGSTNUM	System transactions ended
(A8)	BITSTRING	8	MNGGUTCL	Time last trans ended (GMT)
(B0)	BITSTRING	8	MNGLUTCL	Time last trans ended (Local)
(B8)	BITSTRING	8	MNGGUTAT	Time last trans attach (GMT)
(C0)	BITSTRING	8	MNGLUTAT	Time last trans attch (Local)
(C8)	FULLWORD	4	MNGMXUTA	MXT at last trans attach
(CC)	FULLWORD	4	MNGCAUTA	Current tasks at last attach
(D0)	FULLWORD	4		Reserved
(D4)	FULLWORD	4		Reserved
(D8)	BITSTRING	8	MNGAUTRT	Avg user trans resp time
(E0)	BITSTRING	8	MNGPUTRT	Peak user trans resp time
(E8)	BITSTRING	8	MNGGUTRT	Time peak resp time (GMT)
(F0)	BITSTRING	8	MNGLUTRT	Time peak resp time (Local)
(F8)	BITSTRING	16		Reserved
(108)	BITSTRING	8	MNGCPUT	Total CPU time
(110)	BITSTRING	8	MNGTONCP	Total CPU time on CP
(118)	BITSTRING	8	MNGOFLCP	Total CPU time offload on CP
(120)	BITSTRING	8		Reserved

Table 415. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(128)	BITSTRING	16		Reserved
(128)		0	MNGEND	"*"
(128)		0	MNGCLEN	"*-MNGLEN" Length

MNI - Transaction identity monitoring data

```
CONTROL BLOCK NAME = DFHMNIDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHMNIPS
DESCRIPTIVE NAME = CICS TS Monitoring Identity Record Descriptions
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2008, 2016
FUNCTION =
       Monitoring Identity record descriptions.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
--------------------------------------------------------------------
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = None
    GLOBAL VARIABLES (Macro pass) = None
--------------------------------------------------------------------
```

Table 416.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHMNIDS	, Monitoring Identity Record
(0)	FULLWORD	4	(0)	Fullword allignment
(0)	HALFWORD	2	MNI_LENGTH	Length of identity data
(0)	..11 ..11		MNI_ID_EQUATE	"51" Monitoring domain id mask
(2)	ADDRESS	2	MNI_ID	Monitoring domain id
(2)	1		MNI_VERSION	"X'01'" DSECT version mask
(4)	CHARACTER	1	MNI_DSECT_VERS	DSECT version number
(5)	CHARACTER	3		Reserved
(8)	BITSTRING	32	MNI_HEADER (0)	Header Data
(8)	HALFWORD	2	MNI_HDRLEN	Length of header data
(A)	BITSTRING	2		Reserved
(C)	BITSTRING	8		Reserved
(14)	HALFWORD	2	MNI_TRN	Number of record triplets
(16)	BITSTRING	2		Reserved
(18)	BITSTRING	4	MNI_ISO	Offset to ID data
(1C)	BITSTRING	2	MNI_ISL	Length of ID entry
(1E)	BITSTRING	2	MNI_ISN	Number of ID entries

Table 416. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	BITSTRING	4	MNI_DSO	Offset to Data entry
(24)	BITSTRING	2	MNI_DSL	Length of Data entry
(26)	BITSTRING	2	MNI_DSN	Number of Data entries
(26)	..1.		MNI_HDR_LENGTH	"*-MNI_HEADER" Header data length

Table 417.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MNI_ID_DATA	Identification Data Entry
(0)	CHARACTER	4	MNI_ID_TRANID	Transaction id
(4)	CHARACTER	4	MNI_ID_TERMID	Terminal id
(8)	CHARACTER	8	MNI_ID_USERID	User id
(10)	CHARACTER	4	MNI_ID_STYPE	Transaction Start type
(14)	BITSTRING	8	MNI_ID_START	Transaction Start time
(1C)	BITSTRING	8	MNI_ID_STOP	Transaction Stop time
(24)	BITSTRING	4	MNI_ID_TASKNO	Transaction Sequence Number
(28)	CHARACTER	8	MNI_ID_LUNAME	VTAM Luname
(30)	CHARACTER	8	MNI_ID_PGMNAME	First program name
(38)	BITSTRING	20	MNI_ID_UOW_PX	Network Unit-of-Work Prefix
(4C)	BITSTRING	8	MNI_ID_UOW_SX	Network Unit-of-Work Suffix
(54)	CHARACTER	4	MNI_ID_RSYSID	Remote sysid routed to
(58)	BITSTRING	8	MNI_ID_TRN_FLAGS	Transaction flags
(60)	CHARACTER	4	MNI_ID_FCTYNAME	Transaction Facility name
(64)	CHARACTER	4	MNI_ID_RTYPE	Resource Record Type
(68)	BITSTRING	4	MNI_ID_TERMINFO (0)	Terminal Information
(68)	BITSTRING	1	MNI_ID_NATURE	Nature
(68)	....		MNI_ID_NATURE_ NOTAPPLIC	"X'00'" Not applic
(68)	1		MNI_ID_NATURE_ TERMINAL	"X'01'" Terminal
(68)	.... ..1.		MNI_ID_NATURE_SESSION	"X'02'" Session
(69)	BITSTRING	1	MNI_ID_SESSTYPE	Session Type
(69)	....		MNI_ID_SESSTYPE_ NOTAPPLIC	"X'00'" Not applic
(69)	1		MNI_ID_SESSTYPE_IRC	"X'01'" IRC
(69)	.... ..1.		MNI_ID_SESSTYPE_IRC_ XM	"X'02'" IRC XM
(69)	11		MNI_ID_SESSTYPE_IRC_ XCF	"X'03'" IRC XCF
(69)	.... .1..		MNI_ID_SESSTYPE_LU61	"X'04'" LU61
(69)	.... .1.1		MNI_ID_SESSTYPE_ LU62_SING	"X'05'" LU62 SINGLE
(69)	.... .11.		MNI_ID_SESSTYPE_ LU62_PARA	"X'06'" LU62 PARALLEL
(6A)	BITSTRING	1	MNI_ID_ACMETH	Access method

Table 417. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6A)	....		MNI_ID_ACMETH_ NOTAPPLIC	"X'00'" Not applic
(6A)	1		MNI_ID_ACMETH_VTAM	"X'01'" VTAM
(6A)	11		MNI_ID_ACMETH_BSAM	"X'03'" BSAM
(6A)	.... .1..		MNI_ID_ACMETH_TCAM	"X'04'" TCAM
(6A)	.... .11.		MNI_ID_ACMETH_BGAM	"X'06'" BGAM
(6A)	.... .111		MNI_ID_ACMETH_CONSOLE	"X'07'" CONSOLE
(6B)	BITSTRING	1	MNI_ID_DEVCODE	Device type code See TYPETERM RDO attribute
(6C)	CHARACTER	4	MNI_ID_TERMCNNM	Terminal Connection name
(70)	BITSTRING	4		Reserved
(74)	BITSTRING	8	MNI_ID_ISIPICNM	IPCONN name
(7C)	BITSTRING	8		Reserved
(84)	BITSTRING	8		Reserved
(8C)	CHARACTER	40	MNI_ID_CLIPADDR	Client IP Address
(B4)	CHARACTER	8	MNI_ID_ORIGIN_NETWKID	Originating networkid
(BC)	CHARACTER	8	MNI_ID_ORIGIN_APPLID	Originating applid
(C4)	CHARACTER	8	MNI_ID_ORIGIN_ATT_ TIME	Originating task start time
(CC)	CHARACTER	4	MNI_ID_ORIGIN_TRANNUM	Originating tran seq no
(D0)	CHARACTER	4	MNI_ID_ORIGIN_TRANID	Originating tran id
(D4)	CHARACTER	8	MNI_ID_ORIGIN_USERID	Originating userid
(DC)	CHARACTER	64	MNI_ID_ORIGIN_USER_ CORR	Originating user data
(11C)	CHARACTER	8	MNI_ID_ORIGIN_ TCPIPSERV	Originating TCPIPSERVICE
(124)	BITSTRING	4	MNI_ID_ORIGIN_PORTNUM	Originating portnumber
(128)	CHARACTER	40	MNI_ID_ORIGIN_ CLIPADDR	Originating Client IPaddress
(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
(194)	CHARACTER	8		Reserved
(19C)	CHARACTER	8	MNI_PTD_ATTACH_TIME	Previous Tran task start
(1A4)	CHARACTER	4	MNI_PTD_TRANNUM	Previous Tran tran seqno
(1A8)	CHARACTER	4	MNI_PTD_TRANID	Previous Tran tranid

Table 417. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1AC)	BITSTRING	4	MNI_PTD_COUNT	Previous Tran count
(1B0)	CHARACTER	4		Reserved
(1B4)	CHARACTER	8		Reserved
(1B4)		0	MNI_ID_LENGTH	"*-MNI_ID_DATA" Identification entry data length

Table 418.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MNI_DATA_ENTRY	Data Entry
(0)	BITSTRING	2	MNI_ENTRY_IDENT	Data entry ident
(2)	BITSTRING	2	MNI_ENTRY_LENGTH	Data entry length
(4)	CHARACTER	1	MNI_ENTRY_FIELD (0)	Data entry field

PDA - Monitoring Performance Data Record

```
CONTROL BLOCK NAME = DFHMNPDA
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS CICS/ESA Monitoring Facility (CMF)
       Performance Class record written by the DFH$MOLS program.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1994, 2017
FUNCTION =
       This DSECT describes the format of the CICS/ESA Monitoring
       Facility (CMF) Performance class record created by the
       UNLOAD function of the DFH$MOLS monitoring sample program.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
INNER CONTROL BLOCKS = N/A
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
--------------------------------------------------------------------
EXTERNAL REFERENCES = None
    DATA AREAS = N/A
    CONTROL BLOCKS = N/A
    GLOBAL VARIABLES (Macro pass) = N/A
--------------------------------------------------------------------
```

Table 419.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	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

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	BITSTRING	2	PDRRVN	Record version - x'0vrm'
(1E)	BITSTRING	2	PDRMFL	Record maintenance indicator
(20)	BITSTRING	4		Reserved - spare
(24)	BITSTRING	2	PDRCLASS	Performance record class
(26)	BITSTRING	10	PDRSRTKY (0)	Cross system report sort key
(26)	BITSTRING	2	PDRSEQNO	Syncpoint sequence number
(28)	BITSTRING	8	PDRDETT2	Transaction stop time
(30)		4	PDRDATE	Stop Date (unsigned packed)
(34)	BITSTRING	4	PDRTIME	Stop Time (binary)
(38)	BITSTRING	4	PDRRESP	RESPonse Time (stop - start)
(3C)	BITSTRING	4	PDRIRESP	IRESPonse Time (resp - tciowtt)
(40)	BITSTRING	4		Spare - reserved
(44)	BITSTRING	22	PDRDB2TK	DB2 Accounting Correlation Token
(5A)	BITSTRING	2		Spare - reserved
The following fields are positionally sensitive.				
(5C)	FULLWORD	4	PDRBEGIN (0)	
(5C)	CHARACTER	4	PDRTRID	Transaction identification
(60)	CHARACTER	4	PDRTEID	Terminal identification
(64)	CHARACTER	8	PDRUSID	User identification
(6C)	CHARACTER	2	PDRTRTY	Transaction start type
(6E)	BITSTRING	2		Reserved
(70)	BITSTRING	8	PDRATTT	Task start time
(78)	BITSTRING	8	PDRDETT	Task stop time
(80)	BITSTRING	4	PDRTRSN	Transaction sequence number
(84)	BITSTRING	3		Reserved
(87)	BITSTRING	1	PDRTPRI	Transaction priority
(88)	CHARACTER	8	PDRTCLSN	Transaction class name
(90)	CHARACTER	8	PDRLUNM	VTAM logical unit name
(98)	CHARACTER	8	PDRPGNM	First program name Originating Network Unit-of-Work Id
(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

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C4)	BITSTRING	8	PDRRMUOW	Recovery Manager Unit-of-Work id
(CC)	CHARACTER	8	PDRSRVCL	Workload Manager service class name
(D4)	CHARACTER	8	PDRRPTCL	Workload Manager report class name
(DC)	BITSTRING	4	PDRFCTY	FCTYNAME - Transaction Facility name
(E0)	BITSTRING	8	PDRTRFLG (0)	TRANFLAG - Transaction Flags
(E0)	BITSTRING	1	PDRTRFL1	Transaction Flag 1
(E0)	1...		PDRTRFL1_NONE	"X'80'" None
(E0)	.1..		PDRTRFL1_TERM	"X'40'" Terminal Facility
(E0)	..1.		PDRTRFL1_SURR	"X'20'" Surrogate Terminal Facility
(E0)	...1		PDRTRFL1_DEST	"X'10'" Destination Facility
(E0)	.... 1...		PDRTRFL1_BRDG	"X'08'" Bridge Facility EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
(E1)	BITSTRING	1	PDRTRFL2	Transaction Flag 2
(E1)	1...		PDRTRFL2_SYSTEM	"X'80'" System Transaction
(E1)	.1..		PDRTRFL2_MIRROR	"X'40'" Mirror Transaction
(E1)	..1.		PDRTRFL2_DPL	"X'20'" Mirror Transaction - DPL
(E1)	...1		PDRTRFL2_ONC_RPC	"X'10'" Alias Transaction - ONC/RPC
(E1)	.... 1...		PDRTRFL2_WEB	"X'08'" Alias Transaction - WEB
(E1)	.... .1..		PDRTRFL2_BRIDGE	"X'04'" Bridge Transaction EQU X'02' Reserved
(E1)	1		PDRTRFL2_RUN_TRAN	"X'01'" BTS Run Transaction
(E2)	BITSTRING	1	PDRTRFL3	Transaction Flag 3
(E2)	1...		PDRTRFL3_RPT	"X'80'" WLM Report
(E2)	.1..		PDRTRFL3_NTFY_COMP	"X'40'" WLM Notify - Completion
(E2)	..1.		PDRTRFL3_NTFY	"X'20'" WLM Notify
(E3)	BITSTRING	1	PDRTRFL4	Transaction Flag 4
(E3)	1...		PDRTRFL4_LOC_BELOW	"X'80'" Taskdataloc=below
(E3)	.1..		PDRTRFL4_CICS_KEY	"X'40'" Taskdatakey=cics
(E3)	..1.		PDRTRFL4_ISOLATE_NO	"X'20'" Isolate=no

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(E3)	...1		PDRTRFL4_DYNAMIC	"X'10'" Dynamic=yes EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
(E4)	BITSTRING	1	PDRTRFL5	Transaction Flag 5 Transaction origin type
(E5)	BITSTRING	1	PDRTRFL6	Transaction Flag 6 Transaction
(E6)	BITSTRING	1	PDRTRFL7	Transaction Flag 7 - Reserved
(E7)	BITSTRING	1	PDRTRFL8	Transaction Flag 8
(E7)	1...		PDRTRFL8_WAIT_NO	"X'80'" Indoubt wait = no
(E7)	.1..		PDRTRFL8_COMMIT	"X'40'" Indoubt action = commit
(E7)	..1.		PDRTRFL8_INDOUBT_ACT	"X'20'" UOW Indoubt action
(E7)	...1		PDRTRFL8_UOW_SHUNT	"X'10'" UOW Shunt
(E7)	.... 1...		PDRTRFL8_UOW_UNSHUNT	"X'08'" UOW Unshunt
(E7)	.... .1..		PDRTRFL8_INDBT_FAIL	"X'04'" Indoubt failure
(E7)	.... ..1.		PDRTRFL8_RO_FAILURE	"X'02'" Resource Owner failure EQU X'01' Reserved
(E8)	BITSTRING	4	PDRTEINF (0)	TERMINFO - Terminal Information
(E8)	BITSTRING	1	PDRNATUR	Nature
(E8)	....		PDRNATUR_NOTAPPLIC	"X'00'" Not applic
(E8)	1		PDRNATUR_TERMINAL	"X'01'" Terminal
(E8)	.... ..1.		PDRNATUR_SESSION	"X'02'" Session
(E9)	BITSTRING	1	PDRSESST	Session Type
(E9)	....		PDRSESST_NOTAPPLIC	"X'00'" Not applic
(E9)	1		PDRSESST_IRC	"X'01'" IRC
(E9)	.... ..1.		PDRSESST_IRC_XM	"X'02'" IRC XM
(E9)	11		PDRSESST_IRC_XCF	"X'03'" IRC XCF
(E9)	.... .1..		PDRSESST_LU61	"X'04'" LU61
(E9)	.... .1.1		PDRSESST_LU62_SING	"X'05'" LU62 SINGLE
(E9)	.... .11.		PDRSESST_LU62_PARA	"X'06'" LU62 PARALLEL
(EA)	BITSTRING	1	PDRACMTH	Access method
(EA)	....		PDRACMTH_NOTAPPLIC	"X'00'" Not applic
(EA)	1		PDRACMTH_VTAM	"X'01'" VTAM
(EA)	11		PDRACMTH_BSAM	"X'03'" BSAM
(EA)	.... .1..		PDRACMTH_TCAM	"X'04'" TCAM
(EA)	.... .11.		PDRACMTH_BGAM	"X'06'" BGAM
(EA)	.... .111		PDRACMTH_CONSOLE	"X'07'" CONSOLE

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	BITSTRING	4	PDRCIPOR	CLIPPORT - Client IP Port
(28C)	CHARACTER	8	PDRISCNM	ISIPICNM - IPCONN name
(294)	CHARACTER	8	PDRONWID	Originating netwrkid
(29C)	CHARACTER	8	PDROAPID	Originating applid
(2A4)	BITSTRING	8	PDROATTT	Originating task start time
(2AC)	CHARACTER	4	PDROTRSN	Originating transaction seq no
(2B0)	CHARACTER	4	PDROTRID	Originating transaction ID
(2B4)	CHARACTER	8	PDROUSID	Originating userid
(2BC)	CHARACTER	64	PDROUSRC	Originating user specific data
(2FC)	CHARACTER	8	PDROTCPS	Originating TCPIPSERVICE
(304)	BITSTRING	4	PDROPRTN	Originating portnumber
(308)	CHARACTER	40	PDROCIPA	Originating client IP address
(330)	BITSTRING	4	PDROCPNO	Originating client portnumber
(334)	BITSTRING	8	PDROTRFG	Originating transaction flags
(33C)	CHARACTER	8	PDROFCTY	Originating facility name

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(344)	CHARACTER	8	PDRURIMN	Urimap name
(34C)	CHARACTER	8	PDRPIPLN	Pipeline name
(354)	CHARACTER	8	PDRATMSN	Atomservice name
(35C)	CHARACTER	32	PDRWSVCN	Webservice name
(37C)	CHARACTER	64	PDRWSOPN	Webservice operation name
(3BC)	CHARACTER	8	PDRWPGMN	Program name
(3C4)	CHARACTER	8	PDRPHNWD	Previous Hop data networkid
(3CC)	CHARACTER	8	PDRPHAPL	Previous Hop data applid
(3D4)	CHARACTER	8	PDRPHATT	Previous Hop data task start tim
(3DC)	CHARACTER	4	PDRPHTSN	Previous Hop data trans seq no
(3E0)	CHARACTER	4	PDRPHTID	Previous Hop data transaction id
(3E4)	BITSTRING	4	PDRPHCNT	Previous Hop data count
(3E8)	CHARACTER	64	PDRADPID	Originating adapter id
(428)	CHARACTER	64	PDRADPD1	Originating adapter data 1
(468)	CHARACTER	64	PDRADPD2	Originating adapter data 2
(4A8)	CHARACTER	64	PDRADPD3	Originating adapter data 3
(4E8)	BITSTRING	4	PDRSOCPH	Inbound cipher selected
(4EC)	CHARACTER	4	PDRCECTP	CEC Machine Type
(4F0)	CHARACTER	16	PDRCECID	CEC Model Type
(500)	CHARACTER	8	PDRLPARN	LPAR name
(508)	BITSTRING	4	PDRMTSKS	MXT at transaction attach
(50C)	BITSTRING	4	PDRCTSKS	Current tasks at tran attach
(510)	CHARACTER	64	PDRAPPLN	Current Application Name
(550)	CHARACTER	64	PDRPLATN	Current Platform Name
(590)	BITSTRING	4	PDRMAJVR	Application Major Version
(594)	BITSTRING	4	PDRMINVR	Application Minor Version
(598)	BITSTRING	4	PDRMICVR	Application Micro Version
(59C)	CHARACTER	64	PDROPERN	Current Operation Name
(5DC)	CHARACTER	8	PDRPTATT	Previous Tran start time
(5E4)	CHARACTER	4	PDRPTTSN	Previous Tran trans seq no
(5E8)	CHARACTER	4	PDRPTTID	Previous Tran trans id
(5EC)	BITSTRING	4	PDRPTCNT	Previous Tran count
(5F0)	BITSTRING	4	PDRERROR	TASKFLAG - Transaction error flags
(5F4)	CHARACTER	4	PDRABCDO	Original Transaction abend codes
(5F8)	CHARACTER	4	PDRABCDC	Current Transaction abend code

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5FC)	BITSTRING	3		Reserved
(5FF)	CHARACTER	1	PDRRTYPE	Performance record type
(5FF)	11.. ..11		PDRRTYPE_CONVERSE	"C'C'" Converse
(5FF)	11.. .1..		PDRRTYPE_DELIVER	"C'D'" Deliver
(5FF)	11.. .11.		PDRRTYPE_FREQUENCY	"C'F'" Frequency
(5FF)	111. ..1.		PDRRTYPE_SYNCPOINT	"C'S'" Syncpoint
(5FF)	111. ..11		PDRRTYPE_TERMINATE	"C'T'" Terminate
(600)	BITSTRING	4	PDRPINMC	Primary TC messages - in
(604)	BITSTRING	4	PDRTCI1C	Primary TC characters - in
(608)	BITSTRING	4	PDRPOUMC	Primary TC messages - out
(60C)	BITSTRING	4	PDRTCO1C	Primary TC characters - out
(610)	BITSTRING	4	PDRSINMC	Secondary TC messages - in
(614)	BITSTRING	4	PDRTCI2C	Secondary TC characters - in
(618)	BITSTRING	4	PDRSOUMC	Secondary TC messages - out
(61C)	BITSTRING	4	PDRTCO2C	Secondary TC characters - out
(620)	BITSTRING	4	PDR62IMC	Secondary TC msgs for LU6.2. - in
(624)	BITSTRING	4	PDR62ICH	Secondary TC chars for LU6.2. - in
(628)	BITSTRING	4	PDR62OMC	Secondary TC msgs for LU6.2. - out
(62C)	BITSTRING	4	PDR62OCH	Secondary TC chars for LU6.2. - out
(630)	BITSTRING	4	PDRTAC	No. TCTTE allocate requests
(634)	BITSTRING	4	PDRSCUGB	User stg getmain count below 16M
(638)	BITSTRING	4	PDRSCUGA	User stg getmain count above 16M
(63C)	BITSTRING	4	PDRSCCGB	CDSA stg getmain count below 16M
(640)	BITSTRING	4	PDRSCCGA	ECDSA stg getmain count above 16M
(644)	BITSTRING	4	PDRUSHWB	User task storage HWM below 16M
(648)	BITSTRING	4	PDRUSHWA	User task storage HWM above 16M
(64C)	BITSTRING	4	PDRCHWMB	CDSA storage HWM below the 16M
(650)	BITSTRING	4	PDRCHWMA	ECDSA storage HWM above the 16M
(654)	BITSTRING	8	PDRUTSOB	User task stg "occupancy" below 16M

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(65C)	BITSTRING	8	PDRUTSOA	User task stg "occupancy" above 16M
(664)	BITSTRING	8	PDRCOCCB	CDSA storage "occupancy" below 16M
(66C)	BITSTRING	8	PDRCOCCA	ECDSA storage "occupancy" above 16M
(674)	BITSTRING	4	PDRSC24S	Shared stg getmain count below 16M
(678)	BITSTRING	4	PDRSC24G	Shared stg bytes getmain'd
(67C)	BITSTRING	4	PDRSC24F	Shared stg bytes freemain'd
(680)	BITSTRING	4	PDRSC31S	Shared stg getmain count above 16M
(684)	BITSTRING	4	PDRSC31G	Shared stg bytes getmain'd
(688)	BITSTRING	4	PDRSC31F	Shared stg bytes freemain'd
(68C)	BITSTRING	4	PDRSCCGG	No. GCDSA storage getmains
(690)	BITSTRING	4	PDRCHWMG	GCDSA storage hwm above 2G
(694)	BITSTRING	4	PDRSCUGG	No. GUDSA storage getmains
(698)	BITSTRING	4	PDRUHWMG	GUDSA storage hwm above 2G
(69C)	BITSTRING	4	PDRSC64S	Shared stg getmains
(6A0)	BITSTRING	4	PDRSC64G	Shared stg bytes getmain
(6A4)	BITSTRING	4	PDRSC64F	Shared stg bytes freemain
(6A8)	BITSTRING	4	PDRPCUSE	Program storage HWM
(6AC)	BITSTRING	4	PDRPC31A	Program storage HWM above 16M
(6B0)	BITSTRING	4	PDRPCUSB	Program storage HWM below 16M
(6B4)	BITSTRING	4	PDRPCCAH	ECDSA CICS program storage HWM
(6B8)	BITSTRING	4	PDRPCCBH	CDSA CICS program storage HWM
(6BC)	BITSTRING	4	PDRPCRAH	ERDSA R/O program storage HWM
(6C0)	BITSTRING	4	PDRPCRBH	RDSA R/O program storage HWM
(6C4)	BITSTRING	4	PDRPCSAH	ESDSA Shared program storage HWM
(6C8)	BITSTRING	4	PDRPCSBH	SDSA Shared program storage HWM
(6CC)	BITSTRING	4	PDRFCGC	No. file gets
(6D0)	BITSTRING	4	PDRFCPC	No. file puts
(6D4)	BITSTRING	4	PDRFCBC	No. file browses

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6D8)	BITSTRING	4	PDRFCAC	No. file adds
(6DC)	BITSTRING	4	PDRFCDC	No. file deletes
(6E0)	BITSTRING	4	PDRFCTC	Total FC requests
(6E4)	BITSTRING	4	PDRFCAMC	No. access method requests
(6E8)	BITSTRING	4	PDRTDGC	No. transient data gets
(6EC)	BITSTRING	4	PDRTDPC	No. transient data puts
(6F0)	BITSTRING	4	PDRTDRC	No. transient data purges
(6F4)	BITSTRING	4	PDRTDTC	Total TD requests
(6F8)	BITSTRING	4	PDRTSGC	No. temp storage gets
(6FC)	BITSTRING	4	PDRTSPAC	No. temp storage puts - aux
(700)	BITSTRING	4	PDRTSPMC	No. temp storage puts - main
(704)	BITSTRING	4	PDRTSGSC	No. temp storage gets - shr
(708)	BITSTRING	4	PDRTSPSC	No. temp storage puts - shr
(70C)	BITSTRING	4	PDRTSTC	Total TS requests
(710)	BITSTRING	4	PDRBMMC	No. BMS map requests
(714)	BITSTRING	4	PDRBMIC	No. BMS in requests
(718)	BITSTRING	4	PDRBMOC	No. BMS out requests
(71C)	BITSTRING	4	PDRBMTC	Total BMS requests
(720)	BITSTRING	4	PDRPCLIC	No. program links
(724)	BITSTRING	4	PDRPCXC	No. program xctls
(728)	BITSTRING	4	PDRPCLOC	No. program loads
(72C)	BITSTRING	4	PDRPCLUC	No. program links to URMs
(730)	BITSTRING	4	PDRPCDPL	No. DPL program links
(734)	BITSTRING	4	PDRPCDLL	DPL program links with channel option data length
(738)	BITSTRING	4	PDRPCDRL	DPL program returns with channel option data length
(73C)	BITSTRING	4	PDRPCLCC	No. program links with channel option
(740)	BITSTRING	4	PDRPCXCC	No. program xctls with channel option
(744)	BITSTRING	4	PDRPCDCC	DPL program links with channel option
(748)	BITSTRING	4	PDRPCRCC	No. program returns with channel option
(74C)	BITSTRING	4	PDRPCRCL	No. program returns with channel option data length
(750)	BITSTRING	4	PDRJNLCT	No. journal write requests
(754)	BITSTRING	4	PDRLGWCT	No. CICS logger write requests
(758)	BITSTRING	4	PDRICC	No. interval control starts

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(75C)	BITSTRING	4	PDRICTC	Total interval control requests
(760)	BITSTRING	4	PDRICSCC	No. interval control start reqs with channel option
(764)	BITSTRING	4	PDRICSCD	Interval control start reqs with channel option data length
(768)	BITSTRING	4	PDRICSRC	No. interval control start reqs with channel option - remote
(76C)	BITSTRING	4	PDRICSRD	Interval control start reqs with channel option data length - remote
(770)	BITSTRING	4	PDRSPPC	No. syncpoint requests
(774)	BITSTRING	4	PDRCFACT	No. OO Class Libary API requests
(778)	BITSTRING	4	PDRSZACT	No. FEPI allocates
(77C)	BITSTRING	4	PDRSZRCT	No. FEPI receives
(780)	BITSTRING	4	PDRSZSCT	No. FEPI sends
(784)	BITSTRING	4	PDRSZTCT	No. FEPI starts
(788)	BITSTRING	4	PDRSZCOT	No. chars sent via FEPI
(78C)	BITSTRING	4	PDRSZCIN	No. chars received via FEPI
(790)	BITSTRING	4	PDRSZATO	No. FEPI allocate timeouts
(794)	BITSTRING	4	PDRSZRTO	No. FEPI receive timeouts
(798)	BITSTRING	4	PDRSZTOT	Total no. FEPI requests
(79C)	BITSTRING	4	PDRBARSC	No. Run Process/Activity Sync
(7A0)	BITSTRING	4	PDRBARAC	No. Run Process/Activity Async
(7A4)	BITSTRING	4	PDRBALKC	No. Link Process/Activity reqs
(7A8)	BITSTRING	4	PDRBADPC	No. Define Process requests
(7AC)	BITSTRING	4	PDRBADAC	No. Define Activity requests
(7B0)	BITSTRING	4	PDRBTPAC	No. Reset Process/Activity reqs
(7B4)	BITSTRING	4	PDRBSPAC	No. Suspend Process/Activity reqs
(7B8)	BITSTRING	4	PDRBRPAC	No. Resume Process/Activity reqs
(7BC)	BITSTRING	4	PDRBDCPC	No. Delete/Cancel requests
(7C0)	BITSTRING	4	PDRBAAPC	No. Acquire Process requests
(7C4)	BITSTRING	4	PDRBATPC	Total No. Process/Activity reqs

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7C8)	BITSTRING	4	PDRBAPDC	No. Process Container requests
(7CC)	BITSTRING	4	PDRBAADC	No. Activity Container requests
(7D0)	BITSTRING	4	PDRBATCC	Total No. Container requests
(7D4)	BITSTRING	4	PDRBAREC	No. Reattach Event requests
(7D8)	BITSTRING	4	PDRBADIC	No. Define Input Event requests
(7DC)	BITSTRING	4	PDRBATAC	No. Timer Associated Event requests
(7E0)	BITSTRING	4	PDRBATEC	Total no. Event requests
(7E4)	BITSTRING	4	PDRWBRCT	No. WEB Receive requests
(7E8)	BITSTRING	4	PDRWBCIN	No. Characters received via WEB reqs
(7EC)	BITSTRING	4	PDRWBSCT	No. WEB Send requests
(7F0)	BITSTRING	4	PDRWBCOT	No. Characters sent via WEB requests
(7F4)	BITSTRING	4	PDRWBTC	Total No. WEB requests
(7F8)	BITSTRING	4	PDRWBRPR	No. Repository Reads
(7FC)	BITSTRING	4	PDRWBRPW	No. Repository Writes
(800)	BITSTRING	4	PDRWBERC	No. WEB Extract requests
(804)	BITSTRING	4	PDRWBBRC	No. WEB Browse requests
(808)	BITSTRING	4	PDRWBRRC	No. WEB Read requests
(80C)	BITSTRING	4	PDRWBWRC	No. WEB Write requests
(810)	BITSTRING	4	PDRDHCRC	No. Document Create requests
(814)	BITSTRING	4	PDRDHINC	No. Document Insert requests
(818)	BITSTRING	4	PDRDHSTC	No. Document Set requests
(81C)	BITSTRING	4	PDRDHRTC	No. Document Retrieve requests
(820)	BITSTRING	4	PDRDHDLC	No. Document Delete requests
(824)	BITSTRING	4	PDRDHTC	Total No. Document requests
(828)	BITSTRING	4	PDRDHTDL	Total Document Created length
(82C)	BITSTRING	4	PDRSOBEN	No. Bytes Encrypted
(830)	BITSTRING	4	PDRSOBDE	No. Bytes Decrypted
(834)	BITSTRING	4	PDRSOERC	No. Extract TCP/IP and Extract Certificate requests
(838)	BITSTRING	4	PDRSOCNS	No. Create Non-Persistent Socket req

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(83C)	BITSTRING	4	PDRSOCPS	No. Create Persistent Socket req
(840)	BITSTRING	4	PDRSONHW	Non-Persistent Socket HWM
(844)	BITSTRING	4	PDRSOPHW	Persistent Socket HWM
(848)	BITSTRING	4	PDRSORCT	No. Socket Receive requests
(84C)	BITSTRING	4	PDRSOCIN	No. Characters received
(850)	BITSTRING	4	PDRSOSCT	No. Socket Send requests
(854)	BITSTRING	4	PDRSOCOT	No. Characters sent
(858)	BITSTRING	4	PDRSOTC	Total No. Socket requests
(85C)	BITSTRING	4	PDRSOIMC	No. Inbound Socket Receive reqs
(860)	BITSTRING	4	PDRSOI1C	No. Inbound Socket Characters rcv'd
(864)	BITSTRING	4	PDRSOOMC	No. Inbound Socket Send reqs
(868)	BITSTRING	4	PDRSOO1C	No. Inbound Socket Characters sent
(86C)	BITSTRING	4	PDRIMSRC	Total No. IMS requests
(870)	BITSTRING	4	PDRDB2RC	Total No. DB2 requests
(874)	BITSTRING	4	PDRWMQRC	Total No. WebSphere MQ requests
(878)	BITSTRING	4	PDRTCBAC	No. CICS Dispatcher TCB Attach's
(87C)	BITSTRING	4	PDRDSTHW	CICS Dispatcher TCB HWM
(880)	BITSTRING	4	PDRWBROC	No. Web Read requests
(884)	BITSTRING	4	PDRWBWOC	No. Web Write requests
(888)	BITSTRING	4	PDRWBIRC	No. Web Receive requests
(88C)	BITSTRING	4	PDRWBI1C	No. Bytes received by Web reqs
(890)	BITSTRING	4	PDRWBOSC	No. Web Send requests
(894)	BITSTRING	4	PDRWBO1C	No. Bytes sent by Web send reqs
(898)	BITSTRING	4	PDRWBPRC	No. Web Parse requests
(89C)	BITSTRING	4	PDRWBBOC	No. Web Browse requests
(8A0)	BITSTRING	4	PDRWBIWC	No. Invoke Webservice requests
(8A4)	BITSTRING	4	PDRWBRDL	Repository Read data length
(8A8)	BITSTRING	4	PDRWBWDL	Repository Write data length
(8AC)	BITSTRING	4	PDRPGCTC	Total No. channel data container requests
(8B0)	BITSTRING	4	PDRPGBCC	No. Browse container channel requests

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8B4)	BITSTRING	4	PDRPGGCC	No. Get container channel requests
(8B8)	BITSTRING	4	PDRPGPCC	No. Put container channel requests
(8BC)	BITSTRING	4	PDRPGMCC	No. Move container channel requests
(8C0)	BITSTRING	4	PDRPGGCL	Get container channel data length
(8C4)	BITSTRING	4	PDRPGPCL	Put container channel data length
(8C8)	BITSTRING	4	PDRPGCCC	No. Containers created
(8CC)	BITSTRING	4	PDRPGCSH	Container Storage HWM
(8D0)	BITSTRING	4	PDRISACT	No. IPCONN allocate requests
(8D4)	BITSTRING	4	PDREICTC	Total No. EXEC CICS requests
(8D8)	BITSTRING	4	PDRECSGE	No. SIGNAL EVENT requests
(8DC)	BITSTRING	4	PDRECFOC	No. Event Filter operations
(8E0)	BITSTRING	4	PDRECEVC	No. EVENTs captured
(8E4)	BITSTRING	4	PDRECSEC	No. synchronous emission EVENTs
(8E8)	BITSTRING	4	PDRTIATC	No. EXEC CICS ASKTIME requests
(8EC)	BITSTRING	4	PDRTITC	Total No. EXEC xxxxxxTIME reqs
(8F0)	BITSTRING	4	PDRBFDGC	No. BIF DIGEST requests
(8F4)	BITSTRING	4	PDRBFTC	Total No. BIF requests
(8F8)	BITSTRING	4	PDRMLTDL	Total document length
(8FC)	BITSTRING	4	PDRMLXTC	No. EXEC CICS TRANSFORM requests
(900)	BITSTRING	4	PDRWSCBC	No. WSACONTEXT BUILD requests
(904)	BITSTRING	4	PDRWSCGC	No. WSACONTEXT GET requests
(908)	BITSTRING	4	PDRWSEPC	No. WSAEPR CREATE requets
(90C)	BITSTRING	4	PDRWSATC	Total No. WS-Addressing requests
(910)	BITSTRING	4	PDRWSFCC	No. SOAPFAULT CREATE requests
(914)	BITSTRING	4	PDRWSFTC	Total No. SOAPFAULT requests
(918)	BITSTRING	4	PDRWSSFC	No. INVOKE xxxSERVICE SOAP flts
(91C)	BITSTRING	4	PDRWSQBL	SOAP request body length

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(920)	BITSTRING	4	PDRWSRBL	SOAP response body length
(924)	BITSTRING	4	PDRJSRQL	JSON request body length
(928)	BITSTRING	4	PDRJSRPL	JSON response body length
(92C)	BITSTRING	4	PDRMPPTX	Managed Platform - Policy rule thresholds exceeded
(930)	BITSTRING	4	PDRNCGET	NCGETCT- No. EXEC CICS GET COUNTER and DCOUNTER reqs
(934)	BITSTRING	4	PDRASTC	Async API commands total
(938)	BITSTRING	4	PDRASRNC	EXEC CICS RUN TRANSID cnt
(93C)	BITSTRING	4	PDRASFTC	EXEC CICS FETCH count
(940)	BITSTRING	4	PDRASFRC	EXEC CICS FREE CHILD count
(944)	BITSTRING	4	PDRMPSRE	No. system rule evaluations
(948)	BITSTRING	4	PDRMPSRA	No. system rule actions
(94C)	BITSTRING	12	PDRDIST	User task dispatch time
(958)	BITSTRING	12	PDRCPUT	User task cpu time
(964)	BITSTRING	12	PDRONCPT	Cpu time on standard cp
(970)	BITSTRING	12	PDROFCPT	Offload on standard cp
(97C)	BITSTRING	12	PDRSUST	Task suspend time
(988)	BITSTRING	12	PDRDWT	Dispatch wait time
(994)	BITSTRING	12	PDRQRDSP	User task QR Mode dispatch time
(9A0)	BITSTRING	12	PDRQRCPU	User task QR Mode cpu time
(9AC)	BITSTRING	12	PDRMSDSP	User task Other Mode dispatch time
(9B8)	BITSTRING	12	PDRMSCPU	User task Other Mode cpu time
(9C4)	BITSTRING	12	PDRRODSP	User task RO Mode dispatch time
(9D0)	BITSTRING	12	PDRROCPU	User task RO Mode cpu time
(9DC)	BITSTRING	12	PDRKY8DS	User task Key 8 Mode Dispatch time
(9E8)	BITSTRING	12	PDRKY8CP	User task Key 8 Mode Cpu time
(9F4)	BITSTRING	12	PDRKY9DS	User task Key 9 Mode Dispatch time
(A00)	BITSTRING	12	PDRKY9CP	User task Key 9 Mode Cpu time
(A0C)	BITSTRING	12	PDRL8CPU	User task L8 Mode cpu time
(A18)	BITSTRING	12	PDRL9CPU	User task L9 Mode cpu time

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A24)	BITSTRING	12	PDRS8CPU	User task S8 Mode cpu time
(A30)	BITSTRING	12	PDRX8CPU	User task X8 Mode cpu time
(A3C)	BITSTRING	12	PDRX9CPU	User task X9 Mode cpu time
(A48)	BITSTRING	12	PDRT8CPU	User task T8 Mode cpu time
(A54)	BITSTRING	12	PDRQRDLY	QR Mode delay time
(A60)	BITSTRING	12	PDROTDLY	Max Open TCB delay time
(A6C)	BITSTRING	12	PDRXTDLY	Max XPLink TCB delay time
(A78)	BITSTRING	12	PDRSTDLY	Max SSL TCB delay time
(A84)	BITSTRING	12	PDRTTDLY	Max Thrd TCB delay time
(A90)	BITSTRING	12	PDRDSMWT	Dispatcher TCB Mismatch wait time
(A9C)	BITSTRING	12	PDRCMDLY	CICS TCB Change Mode delay time
(AA8)	BITSTRING	12	PDREXWT	Exception wait time
(AB4)	BITSTRING	12	PDRTCWT	TC i/o wait time
(AC0)	BITSTRING	12	PDRFCWT	FC i/o wait time
(ACC)	BITSTRING	12	PDRFCXWT	FC exclusive ctrl wait time
(AD8)	BITSTRING	12	PDRFCSWT	FC VSAM string wait time
(AE4)	BITSTRING	12	PDRJCWT	JC i/o wait time
(AF0)	BITSTRING	12	PDRTSWT	TS i/o wait time
(AFC)	BITSTRING	12	PDRIRWT	IR i/o wait time
(B08)	BITSTRING	12	PDRTDWT	TD i/o wait time
(B14)	BITSTRING	12	PDRPCLT	Program load time
(B20)	BITSTRING	12	PDRFDDLY	1st Dispatch delay - TCLASS, MXT, etc
(B2C)	BITSTRING	12	PDRFDTCL	1st Dispatch delay due to TCLASS
(B38)	BITSTRING	12	PDRFDMXT	1st Dispatch delay due to MXT
(B44)	BITSTRING	12	PDRNQDLY	Local ENQ delay time
(B50)	BITSTRING	12	PDRGQDLY	Global ENQ delay time
(B5C)	BITSTRING	12	PDR61WT	LU61 i/o wait time
(B68)	BITSTRING	12	PDR62WT	LU62 i/o wait time
(B74)	BITSTRING	12	PDRSZWT	FEPI suspend time
(B80)	BITSTRING	12	PDRRMIT	Total RMI elapsed time
(B8C)	BITSTRING	12	PDRRMIS	Total RMI suspend time
(B98)	BITSTRING	12	PDRSYNCT	Syncpoint elapsed time
(BA4)	BITSTRING	12	PDRRLSWT	RLS wait time
(BB0)	BITSTRING	12	PDRRLSCP	RLS SRB CPU time
(BBC)	BITSTRING	12	PDRLMDLY	Lock Mgr delay time
(BC8)	BITSTRING	12	PDRWTXWT	External wait time

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(BD4)	BITSTRING	12	PDRWCEWT	Cics/Event wait time
(BE0)	BITSTRING	12	PDRICDLY	Interval control delay time
(BEC)	BITSTRING	12	PDRGVPWT	Give up control wait time
(BF8)	BITSTRING	12	PDRTSHWT	Shared TS wait time
(C04)	BITSTRING	12	PDRCDTWT	CF Data Table wait time
(C10)	BITSTRING	12	PDRSYWTT	Server Syncpoint wait time
(C1C)	BITSTRING	12	PDRRRSWT	RRMS/MVS wait time
(C28)	BITSTRING	12	PDRRTRWT	Run Transaction wait time
(C34)	BITSTRING	12	PDRSYDLY	Syncpoint delay time
(C40)	BITSTRING	12	PDRSOWT	Socket I/O wait time
(C4C)	BITSTRING	12	PDRIMSWT	IMS wait time
(C58)	BITSTRING	12	PDRRDQWT	DB2 Readyq wait time
(C64)	BITSTRING	12	PDRCONWT	DB2 Connection wait time
(C70)	BITSTRING	12	PDRMQGWT	WebSphere MQ Getwait wait time
(C7C)	BITSTRING	12	PDRJVMT	Total JVM elapsed time
(C88)	BITSTRING	12	PDRJVMS	Total JVM suspend time
(C94)	BITSTRING	12	PDRSOOWT	Outbound Socket I/O wait time
(CA0)	BITSTRING	12	PDRRQRWT	Request Receiver wait time
(CAC)	BITSTRING	12	PDRRQPWT	Request Processor wait time
(CB8)	BITSTRING	12	PDROIDWT	OTS Indoubt wait time
(CC4)	BITSTRING	12	PDRJVMIT	JVM elapsed time - initialise
(CD0)	BITSTRING	12	PDRJVMRT	JVM elapsed time - resetting
(CDC)	BITSTRING	12	PDRPTPWT	Partner wait time
(CE8)	BITSTRING	12	PDRDSCWT	DS storage constraint wait time
(CF4)	BITSTRING	12	PDRISWT	IS IPCONN I/O wait time
(D00)	BITSTRING	12	PDRJSTWT	JVMSERVER thread wait time
(D0C)	BITSTRING	12	PDRMQAST	WebSphere MQ API SRB time
(D18)	BITSTRING	12	PDRTDILW	TD intra lock wait time
(D24)	BITSTRING	12	PDRTDELW	TD extra lock wait time
(D30)	BITSTRING	12	PDRRODLY	RO TCB delay time
(D3C)	BITSTRING	12	PDRSODLY	SO TCB delay time
(D48)	BITSTRING	12	PDRISAWT	IS allocate wait time
(D54)	BITSTRING	12	PDRTCAWT	TC allocate wait time
(D60)	BITSTRING	12	PDRDSAWT	DS allocate pthread wait
(D6C)	BITSTRING	12	PDRASFWT	AS FETCH wait time
(D78)	BITSTRING	12	PDRASRWT	AS RUN delayed time

Table 419. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(D84)	FULLWORD	4	PDRUEND (0)	
(D84)		0	MNPDRLEN	"*-DFHMNPDA" Performance Data Record length

MNR - Transaction resource monitoring data

```
CONTROL BLOCK NAME = DFHMNRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHMNRPS
DESCRIPTIVE NAME = CICS TS Monitoring Resource Record Descriptions
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2002, 2016
FUNCTION =
       Monitoring Resource record descriptions.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
--------------------------------------------------------------------
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = one
    GLOBAL VARIABLES (Macro pass) = None
--------------------------------------------------------------------
```

Table 420.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHMNRDS	, Monitoring Resource Record
(0)	FULLWORD	4	(0)	Fullword allignment
(0)	HALFWORD	2	MNR_LENGTH	Length of resource data
(0)	.1.. 1111		MNR_ID_EQUATE	"79" Monitoring domain id mask
(2)	ADDRESS	2	MNR_ID	Monitoring domain id
(2)	1		MNR_VERSION	"X'01'" DSECT version mask
(4)	CHARACTER	1	MNR_DSECT_VERS	DSECT version number
(5)	CHARACTER	3		Reserved
(8)	BITSTRING	48	MNR_HEADER (0)	Header Data
(8)	HALFWORD	2	MNR_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

Table 420. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	BITSTRING	2	MNR_ISL	Length of ID entry
(1E)	BITSTRING	2	MNR_ISN	Number of ID entries
(20)	BITSTRING	4	MNR_FSO	Offset to File data
(24)	BITSTRING	2	MNR_FSL	Length of File entry
(26)	BITSTRING	2	MNR_FSN	Number of File entries
(28)	BITSTRING	4	MNR_TSO	Offset to TSQueue data
(2C)	BITSTRING	2	MNR_TSL	Length of TSQueue entry
(2E)	BITSTRING	2	MNR_TSN	Number of TSQueue entries
(30)	BITSTRING	4	MNR_DSO	Offset to DPL data
(34)	BITSTRING	2	MNR_DSL	Length of DPL entry
(36)	BITSTRING	2	MNR_DSN	Number of DPL entries
(36)	..11		MNR_HDR_LENGTH	"*-MNR_HEADER" Header data length

Table 421.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MNR_ID_DATA	Identification Data Entry
(0)	CHARACTER	4	MNR_ID_TRANID	Transaction id
(4)	CHARACTER	4	MNR_ID_TERMID	Terminal id
(8)	CHARACTER	8	MNR_ID_USERID	User id
(10)	CHARACTER	4	MNR_ID_STYPE	Transaction Start type
(14)	BITSTRING	8	MNR_ID_START	Transaction Start time
(1C)	BITSTRING	8	MNR_ID_STOP	Transaction Stop time
(24)	BITSTRING	4	MNR_ID_TASKNO	Transaction Sequence Number
(28)	CHARACTER	8	MNR_ID_LUNAME	VTAM Luname
(30)	CHARACTER	8	MNR_ID_PGMNAME	First program name
(38)	BITSTRING	20	MNR_ID_UOW_PX	Network Unit-of-Work Prefix
(4C)	BITSTRING	8	MNR_ID_UOW_SX	Network Unit-of-Work Suffix
(54)	CHARACTER	4	MNR_ID_RSYSID	Remote sysid routed to
(58)	BITSTRING	8	MNR_ID_TRN_FLAGS	Transaction flags
(60)	CHARACTER	4	MNR_ID_FCTYNAME	Transaction Facility name
(64)	CHARACTER	4	MNR_ID_RTYPE	Resource Record Type
(68)	BITSTRING	4	MNR_ID_TERMINFO (0)	Terminal Information
(68)	BITSTRING	1	MNR_ID_NATURE	Nature
(68)	....		MNR_ID_NATURE_ NOTAPPLIC	"X'00"' Not applic
(68)	1		MNR_ID_NATURE_ TERMINAL	"X'01"' Terminal
(68)	.... ..1.		MNR_ID_NATURE_SESSION	"X'02"' Session
(69)	BITSTRING	1	MNR_ID_SESSTYPE	Session Type

Table 421. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(69)	....		MNR_ID_SESSTYPE_ NOTAPPLIC	"X'00'" Not applic
(69)	1		MNR_ID_SESSTYPE_IRC	"X'01'" IRC
(69)	.... ..1.		MNR_ID_SESSTYPE_IRC_ XM	"X'02'" IRC XM
(69)	11		MNR_ID_SESSTYPE_IRC_ XCF	"X'03'" IRC XCF
(69)	.... .1..		MNR_ID_SESSTYPE_LU61	"X'04'" LU61
(69)	.... .1.1		MNR_ID_SESSTYPE_ LU62_SING	"X'05'" LU62 SINGLE
(69)	.... .11.		MNR_ID_SESSTYPE_ LU62_PARA	"X'06'" LU62 PARALLEL
(6A)	BITSTRING	1	MNR_ID_ACMETH	Access method
(6A)	....		MNR_ID_ACMETH_ NOTAPPLIC	"X'00'" Not applic
(6A)	1		MNR_ID_ACMETH_VTAM	"X'01'" VTAM
(6A)	11		MNR_ID_ACMETH_BSAM	"X'03'" BSAM
(6A)	.... .1..		MNR_ID_ACMETH_TCAM	"X'04'" TCAM
(6A)	.... .11.		MNR_ID_ACMETH_BGAM	"X'06'" BGAM
(6A)	.... .111		MNR_ID_ACMETH_CONSOLE	"X'07'" CONSOLE
(6B)	BITSTRING	1	MNR_ID_DEVCODE	Device type code See TYPETERM RDO attribute
(6C)	CHARACTER	4	MNR_ID_TERMCNNM	Terminal Connection name
(70)	BITSTRING	4	MNR_ID_RES_FLAGS (0)	Resource flags
(70)	BITSTRING	1	MNR_ID_RES_FLAG1	Resource flag 1
(70)	1...		MNR_FILE_LIMIT_ EXCEEDED	"X'80'" Resource File limit exceeded
(70)	.1..		MNR_TSQUEUE_LIMIT_ EXCEEDED	"X'40'" Resource TSQueue limit exceeded
(70)	..1.		MNR_DPL_LIMIT_ EXCEEDED	"X'20'" Resource DPL limit exceeded
(71)	BITSTRING	3		Reserved
(74)	BITSTRING	8	MNR_ID_ISIPICNM	IPCONN name
(7C)	BITSTRING	8		Reserved
(84)	BITSTRING	8		Reserved
(8C)	CHARACTER	40	MNR_ID_CLIPADDR	Client IP Address
(B4)	CHARACTER	8	MNR_ID_ORIGIN_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	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

Table 421. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(1B4)	CHARACTER	8		Reserved
(1BC)	CHARACTER	8	MNR_PTD_ATTACH_TIME	Previous Tran task start
(1C4)	CHARACTER	4	MNR_PTD_TRANNUM	Previous Tran tran seqno
(1C8)	CHARACTER	4	MNR_PTD_TRANID	Previous Tran tranid
(1CC)	BITSTRING	4	MNR_PTD_COUNT	Previous Tran count
(1D0)	CHARACTER	4		Reserved
(1D4)	CHARACTER	8		Reserved
(1D4)		0	MNR_ID_LENGTH	"*-MNR_ID_DATA" Identification entry data length

Table 422.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MNR_FILE_ENTRY	File Entry
(0)	CHARACTER	8	MNR_FILE_NAME	File name
(8)	BITSTRING	8	MNR_FILE_GET	File Get time/count
(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

Table 422. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(58)	BITSTRING	8	MNR_FILE_XC_WT	File exclusive wait
(60)	BITSTRING	8	MNR_FILE_VS_WT	File VSAM string wait
(68)	BITSTRING	8		Reserved
(68)	.111		MNR_FILE_LEN	"*-MNR_FILE_ENTRY" File entry data length

Table 423.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MNR_TSQUEUE_ENTRY	TSQueue Entry
(0)	CHARACTER	16	MNR_TSQUEUE_NAME	TSQueue Name
(10)	BITSTRING	8	MNR_TSQUEUE_GET	TSQueue Get time/count
(18)	BITSTRING	8	MNR_TSQUEUE_PUT_AUX	TSQueue Put Aux time/count
(20)	BITSTRING	8	MNR_TSQUEUE_PUT_MAIN	TSQueue Put Main time/count
(28)	BITSTRING	8	MNR_TSQUEUE_TOTAL	TSQueue Total time/count
(30)	BITSTRING	4		Reserved
(34)	BITSTRING	4	MNR_TSQUEUE_GET_ITEML	TSQueue Get Item length
(38)	BITSTRING	4	MNR_TSQUEUE_PUT_AUX_ ITEML	TSQueue Put Aux Item length
(3C)	BITSTRING	4	MNR_TSQUEUE_PUT_ MAIN_ITEML	TSQueue Put Main Item length
(40)	BITSTRING	8		Reserved
(48)	BITSTRING	8	MNR_TSQUEUE_IO_WT	TSQueue I/O wait time
(50)	BITSTRING	8	MNR_SHR_TSQUEUE_IO_WT	Shared TSQueue I/O wait time
(58)	BITSTRING	8		Reserved
(60)	BITSTRING	8	MNR_TSQUEUE_GET_SHR	TSQueue Get Shr time/ct
(68)	BITSTRING	8	MNR_TSQUEUE_PUT_SHR	TSQueue Put Shr time/ct
(70)	BITSTRING	4	MNR_TSQUEUE_GET_SHR_ ITEML	TSQueue Get Shr Item len
(74)	BITSTRING	4	MNR_TSQUEUE_PUT_SHR_ ITEML	TSQueue Put Shr Item len
(74)	.111 1...		MNR_TSQUEUE_LEN	"*-MNR_TSQUEUE_ENTRY" TSQueue entry data length

Table 424.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MNR_DPL_ENTRY	DPL Entry
(0)	CHARACTER	8	MNR_DPL_PROGRAM_NAME	DPL Program Name
(8)	CHARACTER	4	MNR_DPL_SYSID	DPL Sysid
(C)	CHARACTER	4		Reserved
(10)	BITSTRING	8		Reserved
(18)	BITSTRING	4	MNR_DPL_LINK_REQS	DPL LINK requests

Table 424. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	BITSTRING	4		Reserved
(1C)	..1.		MNR_DPL_LEN	"*-MNR_DPL_ENTRY" DPL entry data length

MNSMF - SMF header and SMF product section

```
MACRO NAME = DFHMNSMF
DESCRIPTIVE NAME = CICS TS SMF Header and SMF Product Section
                              for Monitoring
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1986, 2005
FUNCTION =
      TO GENERATE THE SMF HEADER AND SMF PRODUCT SECTION DSECT
      FOR THE MONITORING SMF RECORDS.
NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS = None
  REGISTER CONVENTIONS = None
  MODULE TYPE = DSECT DEFINITION MACRO
  ATTRIBUTES = N/A
--------------------------------------------------------------------
PURPOSE = GENERATE THE DSECT FOR THE MONITORING RECORD SMF HEADER
       AND SMF PRODUCT SECTION.
   CALLERS = DFH$MOLS
   SYNTAX = <name> DFHMNSMF <TYPE=xxx>
   INPUTS = NONE
   OUTPUTS = DEFINITION FOR SMF HEADER AND SMF PRODUCT SECTION
   RETURN CODES = NONE
   PROGRAMMING NOTES = NONE
--------------------------------------------------------------------
OPERAND = TYPE=xxx
   FUNCTION = To provide an 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 425.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MNSMFDS	
(0)	BITSTRING	2	SMFMNLEN	RECORD LENGTH
(2)	BITSTRING	2	SMFMNSEG	SEGMENT DESCRIPTOR

Table 425. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	BITSTRING	1	SMFMNFLG	OPERATING SYSTEM INDICATOR
(4)	11..		SMFMNESA	"X'C0'" SMF SYSTEM INDICATOR
(5)	BITSTRING	1	SMFMNRTY	RECORD TYPE 110 FOR CICS
(6)	BITSTRING	4	SMFMNTME	TIME RECORD MOVED
(A)	BITSTRING	4	SMFMNDTE	DATE RECORD MOVED
(E)	BITSTRING	4	SMFMNSID	SYSTEM IDENTIFICATION
(12)	CHARACTER	4	SMFMNSSI	SUB-SYSTEM IDENTIFICATION
(16)	BITSTRING	2	SMFMNSTY	RECORD SUBTYPE - X'0000' FOR JOURNALING - X'0001' FOR MONITORING - X'0002' FOR STATISTICS
(18)	BITSTRING	2	SMFMNTRN	NUMBER OF TRIPLETS IN RECORD
(1A)	BITSTRING	2		RESERVED
(1C)	BITSTRING	4	SMFMNAPS	OFFSET TO CICS PRODUCT SECTION
(20)	BITSTRING	2	SMFMNLPS	LENGTH OF CICS PRODUCT SECTION
(22)	BITSTRING	2	SMFMNNPS	NUMBER OF CICS PRODUCT SECTIONS
(24)	BITSTRING	4	SMFMNASS	OFFSET TO CICS DATA SECTION
(28)	BITSTRING	2	SMFMNASL	LENGTH OF CICS DATA SECTION
(2A)	BITSTRING	2	SMFMNASN	NUMBER OF CICS DATA SECTIONS
END OF SMF-HEADER ... ... START OF SMF PRODUCT-SECTION ...				
(2C)	BITSTRING	2	SMFMNRVN	RECORD VERSION, FORMAT X'0VRM' V = VERSION R = RELEASE M = MODIFICATION
(2E)	CHARACTER	8	SMFMNPRN	PRODUCT NAME (APPLID)
(36)	CHARACTER	8	SMFMNSPN	SPECIFIC APPLID
(3E)	BITSTRING	2	SMFMNMFL	RECORD MAINTENANCE INDICATOR
(40)	BITSTRING	2		RESERVED
(42)	BITSTRING	2	SMFMNCL	CLASS OF DATA
(44)	BITSTRING	4	SMFMNDCA	OFFSET TO CICS FIELD CONNECTORS

Table 425. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
NAME OF MATCHING PL/AS CONTROL BLOCK = DFHMNTPS
DESCRIPTIVE NAME = CICS TS Transaction Monitoring data
                   copybook
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1987, 2017
FUNCTION = This copybook describes a transaction monitoring
data record. The record is built by the monitoring domain.
There is one record for each transaction.
LIFETIME = The storage for a record is obtained when a
request is made for transaction monitoring data. It is
released when the request has been satisfied.
LOCATION = The caller is passed a pointer to the head of
the record.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
```

```
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = In monitoring domain
    GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
```

Table 426.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHMNTDS	,
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	MNTLEN	Length of data
(0)	.1.1 .1..		MNTIDE	"84" Monitoring domain id mask
(2)	ADDRESS	2	MNTID	Monitoring domain id
(2)	1		MNTVERS	"X'01'" DSECT version mask
(4)	CHARACTER	1	MNTDVERS	DSECT version number
(5)	CHARACTER	3		Reserved
(8)	HALFWORD	2	TMRBEGIN (0)	
(8)	CHARACTER	4	TMRTRID	TRAN - Transaction identification
(C)	CHARACTER	4	TMRTEID	TERM - Terminal identification
(10)	CHARACTER	8	TMRUSID	USERID - User identification
(18)	CHARACTER	4	TMRTRTY	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
(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

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	1...		TMRTRFL1_NONE	"X'80'" None
(8C)	.1..		TMRTRFL1_TERM	"X'40'" Terminal Facility
(8C)	..1.		TMRTRFL1_SURR	"X'20'" Surrogate Terminal Facility
(8C)	...1		TMRTRFL1_DEST	"X'10'" Destination Facility
(8C)	.... 1...		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)	1...		TMRTRFL2_SYSTEM	"X'80'" System Transaction
(8D)	.1..		TMRTRFL2_MIRROR	"X'40'" Mirror Transaction
(8D)	..1.		TMRTRFL2_DPL	"X'20'" Mirror Transaction - DPL
(8D)	...1		TMRTRFL2_ONC_RPC	"X'10'" Alias Transaction - ONC/RPC
(8D)	.... 1...		TMRTRFL2_WEB	"X'08'" Alias Transaction - WEB
(8D)	.... .1..		TMRTRFL2_BRIDGE	"X'04'" Bridge Transaction EQU X'02' Reserved
(8D)	1		TMRTFFL2_RUN_TRAN	"X'01'" BTS Run Transaction
(8E)	BITSTRING	1	TMRTRFL3	Transaction Flag 3
(8E)	1...		TMRTRFL3_RPT	"X'80'" WLM Report
(8E)	.1..		TMRTRFL3_NTFY_COMP	"X'40'" WLM Notify - Completion
(8E)	..1.		TMRTRFL3_NTFY	"X'20'" WLM Notify
(8F)	BITSTRING	1	TMRTRFL4	Transaction Flag 4
(8F)	1...		TMRTRFL4_LOC_BELOW	"X'80'" Taskdataloc=below
(8F)	.1..		TMRTRFL4_CICS_KEY	"X'40'" Taskdatakey=cics
(8F)	..1.		TMRTRFL4_ISOLATE_NO	"X'20'" Isolate=no
(8F)	...1		TMRTRFL4_DYNAMIC	"X'10'" Dynamic=yes EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(90)	BITSTRING	1	TMRTRFL5	Transaction Flag 5 Transaction origin type
(91)	BITSTRING	1	TMRTRFL6	Transaction Flag 6 Transaction
(92)	BITSTRING	1	TMRTRFL7	Transaction Flag 7 - Reserved
(93)	BITSTRING	1	TMRTRFL8	Transaction Flag 8
(93)	1...		TMRTRFL8_WAIT_NO	"X'80'" Indoubt wait = no
(93)	.1..		TMRTRFL8_COMMIT	"X'40'" Indoubt action = commit
(93)	..1.		TMRTRFL8_INDOUBT_ACT	"X'20'" UOW Indoubt action
(93)	...1		TMRTRFL8_UOW_SHUNT	"X'10'" UOW Shunt
(93)	.... 1...		TMRTRFL8_UOW_UNSHUNT	"X'08'" UOW Unshunt
(93)	.... .1..		TMRTRFL8_INDBT_FAIL	"X'04'" Indoubt failure
(93)	.... ..1.		TMRTRFL8_RO_FAILURE	"X'02'" Resource Owner failure EQU X'01' Reserved
(94)	BITSTRING	4	TMRTEINF (0)	TERMINFO - Terminal Information
(94)	BITSTRING	1	TMRNATUR	Nature
(94)	....		TMRNATUR_NOTAPPLIC	"X'00'" Not applic
(94)	1		TMRNATUR_TERMINAL	"X'01'" Terminal
(94)	.... ..1.		TMRNATUR_SESSION	"X'02'" Session
(95)	BITSTRING	1	TMRSESST	Session Type
(95)	....		TMRSESST_NOTAPPLIC	"X'00'" Not applic
(95)	1		TMRSESST_IRC	"X'01'" IRC
(95)	.... ..1.		TMRSESST_IRC_XM	"X'02'" IRC XM
(95)	11		TMRSESST_IRC_XCF	"X'03'" IRC XCF
(95)	.... .1..		TMRSESST_LU61	"X'04'" LU61
(95)	.... .1.1		TMRSESST_LU62_SING	"X'05'" LU62 SINGLE
(95)	.... .11.		TMRSESST_LU62_PARA	"X'06'" LU62 PARALLEL
(96)	BITSTRING	1	TMRACMTH	Access method
(96)	....		TMRACMTH_NOTAPPLIC	"X'00'" Not applic
(96)	1		TMRACMTH_VTAM	"X'01'" VTAM
(96)	11		TMRACMTH_BSAM	"X'03'" BSAM
(96)	.... .1..		TMRACMTH_TCAM	"X'04'" TCAM
(96)	.... .11.		TMRACMTH_BGAM	"X'06'" BGAM
(96)	.... .111		TMRACMTH_CONSOLE	"X'07'" CONSOLE
(97)	BITSTRING	1	TMRDVTCD	Device type code See TYPETERM RDO attribute
(98)	CHARACTER	4	TMRTECNM	TERMCONM - Terminal Connection name
(9C)	CHARACTER	4	TMRBTRID	BRDGTRAN - Bridge Transaction id

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	BITSTRING	4	TMRCIPOR	CLIPPORT - Client IP Port
(238)	CHARACTER	8	TMRISCNM	ISIPICNM - IPCONN name
(240)	CHARACTER	8	TMRONWID	ONETWKID - Originating networkid
(248)	CHARACTER	8	TMROAPID	OAPPLID - Originating applid
(250)	CHARACTER	8	TMROATTT	OSTART - Originating task start time
(258)	CHARACTER	4	TMROTRSN	OTRANNUM - Originating transaction seq no
(25C)	CHARACTER	4	TMROTRID	OTRAN - Originating transaction id
(260)	CHARACTER	8	TMROUSID	OUSERID - Originating userid
(268)	CHARACTER	64	TMROUSRC	OUSERCOR - Originating user specific data
(2A8)	CHARACTER	8	TMROTCPS	OTCPSVCE - Originating TCPIPSERVICE
(2B0)	BITSTRING	4	TMROPRTN	OPORTNUM - Originating portnumber
(2B4)	CHARACTER	40	TMROCIPA	OCLIPADR - Originating client IP address
(2DC)	BITSTRING	4	TMROCPNO	OCLIPORT - Originating client portnumber
(2E0)	BITSTRING	8	TMROTRFG	OTRANFLG - Originating transaction flags

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2E8)	CHARACTER	8	TMROFCTY	OFCTYNME - Originating facility name
(2F0)	CHARACTER	8	TMRURIMN	WBURIMNM - Urimap name
(2F8)	CHARACTER	8	TMRPIPLN	WBPIPLNM - Pipeline name
(300)	CHARACTER	8	TMRATMSN	WBATMSNM - Atomservice name
(308)	CHARACTER	32	TMRWSVCN	WBSVCENM - Webservice name
(328)	CHARACTER	64	TMRWSOPN	WBSVOPNM - Webservice operation name
(368)	CHARACTER	8	TMRWPBMN	WBPROGNM - Program name
(370)	CHARACTER	8	TMRPHNWD	PHNTWKID - Previous Hop data networkid
(378)	CHARACTER	8	TMRPHAPL	PHAPPLID - Previous Hop data applid
(380)	CHARACTER	8	TMRPHATT	PHSTART - Previous Hop data task start time
(388)	CHARACTER	4	TMRPHTSN	PHTRANNO - Previous Hop data trans seq no
(38C)	CHARACTER	4	TMRPHTID	PHTRAN - Previous Hop data transaction id
(390)	BITSTRING	4	TMRPHCNT	PHCOUNT - Previous Hop data count
(394)	CHARACTER	64	TMRADPID	OADID - Originating adapter id
(3D4)	CHARACTER	64	TMRADPD1	OADATA1 - Originating adapter data 1
(414)	CHARACTER	64	TMRADPD2	OADATA2 - Originating adapter data 2
(454)	CHARACTER	64	TMRADPD3	OADATA3 - Originating adapter data 3
(494)	BITSTRING	4	TMRSOCPH	SOCIPHER - Inbound cipher selected
(498)	CHARACTER	4	TMRCECTP	CECMCHTP - CEC Machine Type
(49C)	CHARACTER	16	TMRCECID	CECMDLID - CEC Model ID
(4AC)	CHARACTER	8	TMRLPARN	LPARNAME - LPAR name
(4B4)	BITSTRING	4	TMRMTSKS	MAXTASKS - MXT at transaction attach
(4B8)	BITSTRING	4	TMRCTSKS	CURTASKS - Current tasks at tran attach
(4BC)	CHARACTER	64	TMRAPPLN	ACAPPLNM - Current Application Name

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4FC)	CHARACTER	64	TMRPLATN	ACPLATNM - Current Platform Name
(53C)	BITSTRING	4	TMRMAJVR	ACMAJVER - Application Major Version #
(540)	BITSTRING	4	TMRMINVR	ACMINVER - Application Minor Version #
(544)	BITSTRING	4	TMRMICVR	ACMICVER - Application Micro Version #
(548)	CHARACTER	64	TMROPERN	ACOPERNM - Current Operation Name
(588)	CHARACTER	8	TMRPTATT	PTSTART - Previous Tran start time
(590)	CHARACTER	4	TMRPTTSN	PTTRANNO - Previous Tran trans seq no
(594)	CHARACTER	4	TMRPTTID	PTTRAN - Previous Tran tran id
(598)	BITSTRING	4	TMRPTCNT	PTCOUNT - Previous tran count
(59C)	CHARACTER	4	TMRERROR	TASKFLAG - Transaction error flags
(5A0)	CHARACTER	4	TMRABCDO	ABCODEO - Original Transaction abend codes
(5A4)	CHARACTER	4	TMRABCDC	ABCODEC - Current Transaction abend code
(5A8)	CHARACTER	4	TMRTYPE	RTYPE - Record type
(5A8)	11.. ..11		TMRRTYPE_CONVERSE	"C'C'" Converse
(5A8)	11.. .1..		TMRRTYPE_DELIVER	"C'D'" Deliver
(5A8)	11.. .11.		TMRRTYPE_FREQUENCY	"C'F'" Frequency
(5A8)	111. ..1.		TMRRTYPE_SYNCPOINT	"C'S'" Syncpoint
(5A8)	111. ..11		TMRRTYPE_TERMINATE	"C'T'" Terminate
(5AC)	BITSTRING	4	TMRPINMC	TCMSGIN1 - Primary TC messages - in
(5B0)	BITSTRING	4	TMRTCI1C	TCCHRIN1 - Primary TC characters - in
(5B4)	BITSTRING	4	TMRPOUMC	TCMSGOU1 - Primary TC messages - out
(5B8)	BITSTRING	4	TMRTCO1C	TCCHROU1 - Primary TC characters - out
(5BC)	BITSTRING	4	TMRSINMC	TCMSGIN2 - Secondary TC messages - in
(5C0)	BITSTRING	4	TMRTCI2C	TCCHRIN2 - Secondary TC characters - in
(5C4)	BITSTRING	4	TMRSOUMC	TCMSGOU2 - Secondary TC messages - out
(5C8)	BITSTRING	4	TMRTCO2C	TCCHROU2 - Secondary TC characters - out

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5CC)	BITSTRING	4	TMR62IMC	TCM62IN2 - Secondary TC msgs for LU6.2. - in
(5D0)	BITSTRING	4	TMR62ICH	TCC62IN2 - Secondary TC chars for LU6.2. - in
(5D4)	BITSTRING	4	TMR62OMC	TCM62OU2 - Secondary TC msgs for LU6.2. - out
(5D8)	BITSTRING	4	TMR62OCH	TCC62OU2 - Secondary TC chars for LU6.2. - out
(5DC)	BITSTRING	4	TMRTAC	TCALLOCT - No. TCTTE allocate requests
(5E0)	BITSTRING	4	TMRSCUGB	SCUGETCT - No. user storage getmains below line
(5E4)	BITSTRING	4	TMRSCUGA	- No. user storage getmains above line
(5E8)	BITSTRING	4	TMRSCCGB	SCCGETCT - No. CDSA storage getmains below line
(5EC)	BITSTRING	4	TMRSCCGA	- No. ECDSA storage getmains above line
(5F0)	BITSTRING	4	TMRUSHWB	SCUSRHWM - User task storage hwm below line
(5F4)	BITSTRING	4	TMRUSHWA	- User task storage hwm above line
(5F8)	BITSTRING	4	TMRCHWMB	SC24CHWM - CDSA storage hwm below the line
(5FC)	BITSTRING	4	TMRCHWMA	SC31CHWM - ECDSA storage hwm above the line
(600)	BITSTRING	8	TMRUTSOB	SCUSRSTG - User task stge "occupancy" below line
(608)	BITSTRING	8	TMRUTSOA	- User task stge "occupancy" above line
(610)	BITSTRING	8	TMRCOCCB	SC24COCC - CDSA storage "occupancy" below line
(618)	BITSTRING	8	TMRCOCCA	SC31COCC - ECDSA storage "occupancy" above line
(620)	BITSTRING	4	TMRSC24S	SC24SGCT - Shared stg getmain count below 16M
(624)	BITSTRING	4	TMRSC24G	SC24GSHR - Shared stg bytes getmain'd
(628)	BITSTRING	4	TMRSC24F	SC24FSHR - Shared stg bytes freemain'd
(62C)	BITSTRING	4	TMRSC31S	SC31SGCT - Shared stg getmain count above 16M
(630)	BITSTRING	4	TMRSC31G	SC31GSHR - Shared stg bytes getmain'd
(634)	BITSTRING	4	TMRSC31F	SC31FSHR - Shared stg bytes freemain'd

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(638)	BITSTRING	4	TMRSCCGG	SC64CGCT - No. GCDSA storage getmains
(63C)	BITSTRING	4	TMRCHWMG	SC64CHWM - GCDSA storage hwm above 2G
(640)	BITSTRING	4	TMRSCUGG	SC64UGCT - No. GUDSA storage getmains
(644)	BITSTRING	4	TMRUHWMG	SC64UHWM - GUDSA storage hwm above 2G
(648)	BITSTRING	4	TMRSC64S	SC64SGCT - Shared stg getmains above 2G
(64C)	BITSTRING	4	TMRSC64G	SC64GSHR - Shared stg bytes getmain
(650)	BITSTRING	4	TMRSC64F	SC64FSHR - Shared stg bytes freemain
(654)	BITSTRING	4	TMRPCUSE	PCSTGHWM - Program storage hwm
(658)	BITSTRING	4	TMRPC31A	PC31AHWM - Program storage hwm above the line
(65C)	BITSTRING	4	TMRPCUSB	PC24BHWM - Program storage hwm below the line
(660)	BITSTRING	4	TMRPCCAH	PC31CHWM - ECDSA prog storage hwm above
(664)	BITSTRING	4	TMRPCCBH	PC24CHWM - CDSA prog storage hwm below
(668)	BITSTRING	4	TMRPCRAH	PC31RHWM - R/O prog storage hwm above
(66C)	BITSTRING	4	TMRPCRBH	PC24RHWM - R/O prog storage hwm below
(670)	BITSTRING	4	TMRPCSAH	PC31SHWM - Shared prog storage hwm above
(674)	BITSTRING	4	TMRPCSBH	PC24SHWM - Shared prog storage hwm below
(678)	BITSTRING	4	TMRFCGC	FCGETCT - No. file gets
(67C)	BITSTRING	4	TMRFCPC	FCPUTCT - No. file puts
(680)	BITSTRING	4	TMRFCBC	FCBRWCT - No. file browses
(684)	BITSTRING	4	TMRFCAC	FCADDCT - No. file adds
(688)	BITSTRING	4	TMRFCDC	FCDELCT - No. file deletes
(68C)	BITSTRING	4	TMRFCTC	FCTOTCT - Total FC requests
(690)	BITSTRING	4	TMRFCAMC	FCAMCT - No. access method requests
(694)	BITSTRING	4	TMRTDGC	TDGETCT - No. transient data gets
(698)	BITSTRING	4	TMRTDPC	TDPUTCT - No. transient data puts

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(69C)	BITSTRING	4	TMRTDRC	TDPURCT - No. transient data purges
(6A0)	BITSTRING	4	TMRTDTC	TDTOTCT - Total TD requests
(6A4)	BITSTRING	4	TMRTSGC	TSGETCT - No. temp storage gets
(6A8)	BITSTRING	4	TMRTSPAC	TSPUTACT - No. temp storage puts - aux
(6AC)	BITSTRING	4	TMRTSPMC	TSPUTMCT - No. temp storage puts - main
(6B0)	BITSTRING	4	TMRTSGSC	TSGETSCT - No. temp storage gets - shr
(6B4)	BITSTRING	4	TMRTSPSC	TSPUTSCT - No. temp storage puts - shr
(6B8)	BITSTRING	4	TMRTSTC	TSTOTCT - Total TS requests
(6BC)	BITSTRING	4	TMRBMMC	BMSMAPCT - No. BMS map requests
(6C0)	BITSTRING	4	TMRBMIC	BMSINCT - No. BMS in requests
(6C4)	BITSTRING	4	TMRBMOC	BMSOUTCT - No. BMS out requests
(6C8)	BITSTRING	4	TMRBMTC	BMSTOTCT - Total BMS requests
(6CC)	BITSTRING	4	TMRPCLIC	PCLINKCT - No. program links
(6D0)	BITSTRING	4	TMRPCXC	PCXCTLCT - No. program xctls
(6D4)	BITSTRING	4	TMRPCLOC	PCLOADCT - No. program loads
(6D8)	BITSTRING	4	TMRPCLUC	PCLURMCT - No. program links to URMs
(6DC)	BITSTRING	4	TMRPCDPL	PCDPLCT - No. DPL program links
(6E0)	BITSTRING	4	TMRPCDLL	PCDLCSDL - DPL program links with channel option data length
(6E4)	BITSTRING	4	TMRPCDRL	PCDLCRDL - DPL program returns with channel option data length
(6E8)	BITSTRING	4	TMRPCLCC	PCLNKCCT - No. program links with channel option
(6EC)	BITSTRING	4	TMRPCXCC	PCXCLCCT - No. program xctls with channel option
(6F0)	BITSTRING	4	TMRPCDCC	PCDPLCCT - DPL program links with channel option
(6F4)	BITSTRING	4	TMRPCRCC	PCRTNCCT - No. program returns with channel option

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6F8)	BITSTRING	4	TMRPCRCL	PCRTNCDL - No. program returns with channel option data length
(6FC)	BITSTRING	4	TMRJNLCT	JNLWRTCT - No. journal write requests
(700)	BITSTRING	4	TMRLGWCT	LOGWRTCT - No. CICS logger write requests
(704)	BITSTRING	4	TMRICC	ICPUINCT - No. interval control starts
(708)	BITSTRING	4	TMRICTC	ICTOTCT - Total interval control requests
(70C)	BITSTRING	4	TMRICSCC	ICSTACCT - No. interval control start reqs with channel option
(710)	BITSTRING	4	TMRICSCD	ICSTACDL - Interval control start reqs with channel option data length
(714)	BITSTRING	4	TMRICSRC	ICSTRCCT - No. interval control start reqs with channel option - remote
(718)	BITSTRING	4	TMRICSRD	ICSTRCDL - Interval control start reqs with channel option data length - remote
(71C)	BITSTRING	4	TMRSPPC	SPSYNCCT - No. syncpoint requests
(720)	BITSTRING	4	TMRCFACT	CFCAPICT - No. OO Class Library API requests
(724)	BITSTRING	4	TMRSZACT	SZALLOCT - No. FEPI allocates
(728)	BITSTRING	4	TMRSZRCT	SZRCVCT - No. FEPI receives
(72C)	BITSTRING	4	TMRSZSCT	SZSENDCT - No. FEPI sends
(730)	BITSTRING	4	TMRSZTCT	SZSTRTCT - No. FEPI starts
(734)	BITSTRING	4	TMRSZCOT	SZCHROUT - No. chars sent vai FEPI
(738)	BITSTRING	4	TMRSZCIN	SZCHRIN - No. chars received via FEPI
(73C)	BITSTRING	4	TMRSZATO	SZALLCTO - No. FEPI allocate timeouts
(740)	BITSTRING	4	TMRSZRTO	SZRCVTO - No. FEPI receive timeouts
(744)	BITSTRING	4	TMRSZTOT	SZTOTCT - Total no. FEPI requests
(748)	BITSTRING	4	TMRBARSC	BARSYNCT - No. Run Process/Activity Sync
(74C)	BITSTRING	4	TMRBARAC	BARASYCT - No. Run Process/Activity Async

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(750)	BITSTRING	4	TMRBALKC	BALKPACT - No. Link Process/Activity reqs
(754)	BITSTRING	4	TMRBADPC	BADPROCT - No. Define Process requests
(758)	BITSTRING	4	TMRBADAC	BADACTCT - No. Define Activity requests
(75C)	BITSTRING	4	TMRBTPAC	BARSPACT - No. Reset Process/Activity requests
(760)	BITSTRING	4	TMRBSPAC	BASUPACT - No. Suspend Process/Activity requests
(764)	BITSTRING	4	TMRBRPAC	BARMPACT - No. Resume Process/Activity requests
(768)	BITSTRING	4	TMRBDCPC	BADCPACT - No. Delete Activity and Cancel Process or Activity requests
(76C)	BITSTRING	4	TMRBAAPC	BAACQPCT - No. Acquire Process requests
(770)	BITSTRING	4	TMRBATPC	BATOTPCT - Total No. Process/Activity requests
(774)	BITSTRING	4	TMRBAPDC	BAPRDCCT - No. Process Data Container requests
(778)	BITSTRING	4	TMRBAADC	BAACDCCT - No. Activity Data Container requests
(77C)	BITSTRING	4	TMRBATCC	BATOTCCT - Total No. Data Container requests
(780)	BITSTRING	4	TMRBAREC	BARATECT - No. Retrieve Reattach Event requests
(784)	BITSTRING	4	TMRBADIC	BADFIECT - No. Define Input Event requests
(788)	BITSTRING	4	TMRBATAC	BATIAECT - No. Timer Associated Event requests
(78C)	BITSTRING	4	TMRBATEC	BATOTECT - Total No. Event requests
(790)	BITSTRING	4	TMRWBRCT	WBRCVCT - No. WEB Receive requests
(794)	BITSTRING	4	TMRWBCIN	WBCHRIN - No. Characters received via WEB reqs
(798)	BITSTRING	4	TMRWBSCT	WBSENDCT - No. WEB Send requests
(79C)	BITSTRING	4	TMRWBCOT	WBCHROUT - No. Characters sent via WEB requests
(7A0)	BITSTRING	4	TMRWBTC	WBTOTCT - Total No. WEB requests
(7A4)	BITSTRING	4	TMRWBRPR	WBREPRCT - No. Repository Reads
(7A8)	BITSTRING	4	TMRWBRPW	WBREPWCT - No. Repository Writes

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7AC)	BITSTRING	4	TMRWBERC	WBEXTRCT - No. WEB Extract requests
(7B0)	BITSTRING	4	TMRWBBRC	WBBRWCT - No. WEB Browse requests
(7B4)	BITSTRING	4	TMRWBRRC	WBREADCT - No. WEB Read requests
(7B8)	BITSTRING	4	TMRWBWRC	WBWRITET - No. WEB Write requests
(7BC)	BITSTRING	4	TMRDHCRC	DHCRECT - No. Document Create requests
(7C0)	BITSTRING	4	TMRDHINC	DHINSCT - No. Document Insert requests
(7C4)	BITSTRING	4	TMRDHSTC	DHSETCT - No. Document Set requests
(7C8)	BITSTRING	4	TMRDHRTC	DHRETCT - No. Document Retrieve requests
(7CC)	BITSTRING	4	TMRDHDLC	DHDELCT - No. Document Delete requests
(7D0)	BITSTRING	4	TMRDHTC	DHTOTCT - Total No. Document requests
(7D4)	BITSTRING	4	TMRDHTDL	DHTOTDCL - Total Document Created length
(7D8)	BITSTRING	4	TMRSOBEN	SOBYENCT - No. Bytes Encrypted
(7DC)	BITSTRING	4	TMRSOBDE	SOBYDECT - No. Bytes Decrypted
(7E0)	BITSTRING	4	TMRSOERC	SOEXTRCT - No. Extract TCP/IP and Extract Certificate requests
(7E4)	BITSTRING	4	TMRSOCNS	SOCNPSCT - No. Create Non-Persistent Socket reqs
(7E8)	BITSTRING	4	TMRSOCPS	SOCPSCT - No. Create Persistent Socket reqs
(7EC)	BITSTRING	4	TMRSONHW	SONPSHWM - Non-Persistent Socket HWM
(7F0)	BITSTRING	4	TMRSOPHW	SOPSHWM - Persistent Socket HWM
(7F4)	BITSTRING	4	TMRSORCT	SORCVCT - No. Socket Receive requests
(7F8)	BITSTRING	4	TMRSOCIN	SOCHRIN - No. Characters received
(7FC)	BITSTRING	4	TMRSOSCT	SOSENDCT - No. Socket Send requests
(800)	BITSTRING	4	TMRSOCOT	SOCHROUT - No. Characters sent
(804)	BITSTRING	4	TMRSOTC	SOTOTCT - Total No. Socket requests

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(808)	BITSTRING	4	TMRSOIMC	SOMSGIN1 - No. Inbound Socket Receive reqs
(80C)	BITSTRING	4	TMRSOI1C	SOCHRIN1 - No. Inbound Socket Characters rec'vd
(810)	BITSTRING	4	TMRSOOMC	SOMSGOU1 - No. Inbound Socket Send reqs
(814)	BITSTRING	4	TMRSOO1C	SOCHROU1 - No. Inbound Socket Characters sent
(818)	BITSTRING	4	TMRIMSRC	IMSREQCT - Total No. IMS requests
(81C)	BITSTRING	4	TMRDB2RC	DB2REQCT - Total No. DB2 requests
(820)	BITSTRING	4	TMRWMQRC	WMQREQCT - Total No. WebSphere MQ requests
(824)	BITSTRING	4	TMRTCBAC	TCBATTCT - No. CICS Dispatcher TCB Attach's
(828)	BITSTRING	4	TMRDSTHW	DSTCBHWM - CICS Dispatcher TCB HWM
(82C)	BITSTRING	4	TMRWBROC	WBREDOCT - No. Web Read requests
(830)	BITSTRING	4	TMRWBWOC	WBWRTOCT - No. Web Write requests
(834)	BITSTRING	4	TMRWBIRC	WBRCVIN1 - No. Web Receive requests
(838)	BITSTRING	4	TMRWBI1C	WBCHRIN1 - No. Bytes received by Web reqs
(83C)	BITSTRING	4	TMRWBOSC	WBSNDOU1 - No. Web Send requests
(840)	BITSTRING	4	TMRWBO1C	WBCHROU1 - No. Bytes sent by Web send reqs
(844)	BITSTRING	4	TMRWBPRC	WBPARSCT - No. Web Parse requests
(848)	BITSTRING	4	TMRWBBOC	WBBRWOCT - No. Web Browse requests
(84C)	BITSTRING	4	TMRWBIWC	WBIWBSCT - No. Invoke Webservice requests
(850)	BITSTRING	4	TMRWBRDL	WBREPRDL - Repository Read data length
(854)	BITSTRING	4	TMRWBWDL	WBREPWDL - Repository Write data length
(858)	BITSTRING	4	TMRPGCTC	PGTOTCCT - Total No. channel data container reqs
(85C)	BITSTRING	4	TMRPGBCC	PGBRWCCT - No. Browse container channel requests
(860)	BITSTRING	4	TMRPGGCC	PGGETCCT - No. Get container channel requests

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(864)	BITSTRING	4	TMRPGPCC	PGPUTCCT - No. Put container channel requests
(868)	BITSTRING	4	TMRPGMCC	PGMOVCCT - No. Move container channel requests
(86C)	BITSTRING	4	TMRPGGCL	PGGETCDL - Get container channel data length
(870)	BITSTRING	4	TMRPGPCL	PGPUTCDL - Put container channel data length
(874)	BITSTRING	4	TMRPGCCC	PGCRECCT - No. Containers created
(878)	BITSTRING	4	TMRPGCSH	PGCSTHWM - Container Storage HWM
(87C)	BITSTRING	4	TMRISACT	ISALLOCT - No. IPCONN allocate requests
(880)	BITSTRING	4	TMREICTC	EICTOTCT - Total No. EXEC CICS requests
(884)	BITSTRING	4	TMRECSGE	ECSIGECT - No. SIGNAL EVENT requests
(888)	BITSTRING	4	TMRECFOC	ECEFOPCT - No. Event Filter operations
(88C)	BITSTRING	4	TMRECEVC	ECEVNTCT - No. EVENTs captured
(890)	BITSTRING	4	TMRECSEC	ECSEVCCT - No. synchronous emission EVENTs
(894)	BITSTRING	4	TMRTIATC	TIASKTCT - No. EXEC CICS ASKTIME requests
(898)	BITSTRING	4	TMRTITC	TITOTCT - Total No. EXEC xxxxxxTIME reqs
(89C)	BITSTRING	4	TMRBFDGC	BFDGSTCT - No. BIF DIGEST requests
(8A0)	BITSTRING	4	TMRBFTC	BFTOTCT - Total No. BIF requests
(8A4)	BITSTRING	4	TMRMLTDL	MLXSSTDL - Total document length
(8A8)	BITSTRING	4	TMRMLXTC	MLXMLTCT - No. EXEC CICS TRANSFORM requests
(8AC)	BITSTRING	4	TMRWSCBC	WSACBLCT - No. WSACONTEXT BUILD requests
(8B0)	BITSTRING	4	TMRWSCGC	WSACGTCT - No. WSACONTEXT GET requests
(8B4)	BITSTRING	4	TMRWSEPC	WSAEPCCT - No. WSAEPR CREATE requests
(8B8)	BITSTRING	4	TMRWSATC	WSATOTCT - Total No. WS-Addressing requests

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8BC)	BITSTRING	4	TMRWSFCC	WBSFCRCT - No. SOAPFAULT CREATE requests
(8C0)	BITSTRING	4	TMRWSFTC	WBSFTOCT - Total No. SOAPFAULT requests
(8C4)	BITSTRING	4	TMRWSSFC	WBISSFCT - No. INVOKE xxxSERVICE SOAP faults
(8C8)	BITSTRING	4	TMRWSQBL	WBSREQBL - SOAP request body length
(8CC)	BITSTRING	4	TMRWSRBL	WBSRSPBL - SOAP response body length
(8D0)	BITSTRING	4	TMRJSRQL	WBJSNRQL - JSON request body length
(8D4)	BITSTRING	4	TMRJSRPL	WBJSNRPL - JSON response body length
(8D8)	BITSTRING	4	TMRMPPTX	MPPRTXCD - Managed Platform - Policy rule thresholds exceeded
(8DC)	BITSTRING	4	TMRNCGET	NCGETCT - No. EXEC CICS GET COUNTER and DCOUNTER requests
(8E0)	BITSTRING	4	TMRASTC	ASTOTCT - Total number of asynchronous API commands
(8E4)	BITSTRING	4	TMRASRNC	ASRUNCT - No. EXEC CICS RUN TRANSID
(8E8)	BITSTRING	4	TMRASFTC	ASFTCHCT - No. EXEC CICS FETCH command
(8EC)	BITSTRING	4	TMRASFRC	ASFREECT - No. EXEC CICS FREE CHILD
(8F0)	BITSTRING	4	TMRMPSRE	MPSRECT - No. system rule evaluations
(8F4)	BITSTRING	4	TMRMPSRA	MPSRACT - No. system rule actions
(8F8)	BITSTRING	12	TMRDIST	USRDISPT - User task Dispatch time
(904)	BITSTRING	12	TMRCPUT	USRCPUT - User task Cpu time
(910)	BITSTRING	12	TMRONCPT	CPUTONCP - Cpu time on standard cp
(91C)	BITSTRING	12	TMROFCPT	OFFLCPUT - Offload on standard cp
(928)	BITSTRING	12	TMRSUST	SUSPTIME - Task Suspend time
(934)	BITSTRING	12	TMRDWT	DISPWTT - Dispatch Wait time
(940)	BITSTRING	12	TMRQRDSP	QRDISPT - User task QR Mode Dispatch time

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(94C)	BITSTRING	12	TMRQRCPU	QRCPUT - User task QR Mode Cpu time
(958)	BITSTRING	12	TMRMSDSP	MSDISPT - User task Other Mode Dispatch time
(964)	BITSTRING	12	TMRMSCPU	MSCPUT - User task Other Mode Cpu time
(970)	BITSTRING	12	TMRRODSP	RODISPT - User task RO Mode Dispatch time
(97C)	BITSTRING	12	TMRROCPU	ROCPUT - User task RO Mode Cpu time
(988)	BITSTRING	12	TMRKY8DS	KY8DISPT - User task Key 8 Mode Dispatch time
(994)	BITSTRING	12	TMRKY8CP	KY8CPUT - User task Key 8 Mode Cpu time
(9A0)	BITSTRING	12	TMRKY9DS	KY9DISPT - User task Key 9 Mode Dispatch time
(9AC)	BITSTRING	12	TMRKY9CP	KY9CPUT - User task Key 9 Mode Cpu time
(9B8)	BITSTRING	12	TMRL8CPU	L8CPUT - User task L8 Mode Cpu time
(9C4)	BITSTRING	12	TMRL9CPU	L9CPUT - User task L9 Mode Cpu time
(9D0)	BITSTRING	12	TMRS8CPU	S8CPUT - User task S8 Mode Cpu time
(9DC)	BITSTRING	12	TMRX8CPU	X8CPUT - User task X8 Mode Cpu time
(9E8)	BITSTRING	12	TMRX9CPU	X9CPUT - User task X9 Mode Cpu time
(9F4)	BITSTRING	12	TMRT8CPU	T8CPUT - User task T8 Mode Cpu time
(A00)	BITSTRING	12	TMRQRDLY	QRMODDLY - QR Mode delay time
(A0C)	BITSTRING	12	TMROTDLY	MAXOTDLY - Max Open TCB delay time
(A18)	BITSTRING	12	TMRXTDLY	MAXXTDLY - Max XPLink TCB delay time
(A24)	BITSTRING	12	TMRSTDLY	MAXSTDLY - Max SSL TCB delay time
(A30)	BITSTRING	12	TMRTTDLY	MAXTTDLY - Max Thrd TCB delay time
(A3C)	BITSTRING	12	TMRDSMWT	DSTCBMWT - Dispatcher TCB Mismatch wait time
(A48)	BITSTRING	12	TMRCMDLY	DSCHMDLY - CICS TCB Change Mode delay time
(A54)	BITSTRING	12	TMREXWT	EXWTTIME - Exception wait time

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A60)	BITSTRING	12	TMRTCWT	TCIOWTT - TC i/o wait time
(A6C)	BITSTRING	12	TMRFCWT	FCIOWTT - FC i/o wait time
(A78)	BITSTRING	12	TMRFCXWT	FCXCWTT - FC exclusive ctrl wait time
(A84)	BITSTRING	12	TMRFCSWT	FCVSWTT - FC VSAM string wait time
(A90)	BITSTRING	12	TMRJCWT	JCIOWTT - JC i/o wait time
(A9C)	BITSTRING	12	TMRTSWT	TSIOWTT - TS i/o wait time
(AA8)	BITSTRING	12	TMRIRWT	IRIOWTT - IR i/o wait time
(AB4)	BITSTRING	12	TMRTDWT	TDIOWTT - TD i/o wait time
(AC0)	BITSTRING	12	TMRPCLT	PCLOADTM - Program load time
(ACC)	BITSTRING	12	TMRFDDLY	DSPDELAY - 1st Dispatch delay - TCLASS, MXT, etc
(AD8)	BITSTRING	12	TMRFDTCL	TCLDELAY - 1st Dispatch delay due to TCLASS
(AE4)	BITSTRING	12	TMRFDMXT	MXTDELAY - 1st Dispatch delay due to MXT
(AF0)	BITSTRING	12	TMRNQDLY	ENQDELAY - Local ENQ delay time
(AFC)	BITSTRING	12	TMRGQDLY	GNQDELAY - Global ENQ delay time
(B08)	BITSTRING	12	TMR61WT	LU61WTT - LU61 i/o wait time
(B14)	BITSTRING	12	TMR62WT	LU62WTT - LU62 i/o wait time
(B20)	BITSTRING	12	TMRSZWT	SZWAIT - FEPI suspend time
(B2C)	BITSTRING	12	TMRRMIT	RMITIME - Total RMI elapsed time
(B38)	BITSTRING	12	TMRRMIS	RMISUSP - Total RMI suspend time
(B44)	BITSTRING	12	TMRSYNCT	SYNCTIME - Syncpoint elapsed time
(B50)	BITSTRING	12	TMRRLSWT	RLSWAIT - RLS wait time
(B5C)	BITSTRING	12	TMRRLSCP	RLSCPUT - RLS SRB CPU time
(B68)	BITSTRING	12	TMRLMDLY	LMDELAY - Lock Mgr delay time
(B74)	BITSTRING	12	TMRWTXWT	WTEXWAIT - Wait External wait time
(B80)	BITSTRING	12	TMRWCEWT	WTCEWAIT - Wait CICS/Event wait time

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B8C)	BITSTRING	12	TMRICDLY	ICDELAY - Interval control delay time
(B98)	BITSTRING	12	TMRGVPWT	GVUPWAIT - Give up control wait time
(BA4)	BITSTRING	12	TMRTSHWT	TSSHWAIT - Shared TS wait time
(BB0)	BITSTRING	12	TMRCDTWT	CFDTWAIT - CF Data Table wait time
(BBC)	BITSTRING	12	TMRSYWTT	SRVSYWTT - Server Syncpoint wait time
(BC8)	BITSTRING	12	TMRRRSWT	RRMSWAIT - RRMS/MVS wait time
(BD4)	BITSTRING	12	TMRRTRWT	RUNTRWTT - Run Transaction wait time
(BE0)	BITSTRING	12	TMRSYDLY	SYNCDLY - Syncpoint delay time
(BEC)	BITSTRING	12	TMRSOWT	SOIOWTT - Socket I/O wait time
(BF8)	BITSTRING	12	TMRIMSWT	IMSWAIT - IMS wait time
(C04)	BITSTRING	12	TMRRDQWT	DB2RDYQW - DB2 Readyq wait time
(C10)	BITSTRING	12	TMRCONWT	DB2CONWT - DB2 Connection wait time
(C1C)	BITSTRING	12	TMRMQGWT	WMQGETWT - WebSphere MQ Getwait wait time
(C28)	BITSTRING	12	TMRJVMT	JVMTIME - Total JVM elapsed time
(C34)	BITSTRING	12	TMRJVMS	JVMSUSP - Total JVM suspend time
(C40)	BITSTRING	12	TMRSOOWT	SOOIOWTT - Outbound Socket I/O wait time
(C4C)	BITSTRING	12	TMRRQRWT	RQRWAIT - Request Receiver wait time
(C58)	BITSTRING	12	TMRRQPWT	RQPWAIT - Request Processor wait time
(C64)	BITSTRING	12	TMROIDWT	OTSINDWT - OTS Indoubt wait time
(C70)	BITSTRING	12	TMRJVMIT	JVMITIME - JVM elapsed time - initialise
(C7C)	BITSTRING	12	TMRJVMRT	JVMRTIME - JVM elapsed time - resetting
(C88)	BITSTRING	12	TMRPTPWT	PTPWAIT - Partner wait time
(C94)	BITSTRING	12	TMRDSCWT	DSMMSCWT - DS storage constraint wait time
(CA0)	BITSTRING	12	TMRISWT	ISIOWTT - IS IPCONN I/O wait time

Table 426. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(CAC)	BITSTRING	12	TMRJSTWT	JVMTHDWT - JVMSERVER thread wait time
(CB8)	BITSTRING	12	TMRMQAST	WMQASRBT - WebSphere MQ API SRB time
(CC4)	BITSTRING	12	TMRTDILW	TDILWTT - TD intra lock wait time
(CD0)	BITSTRING	12	TMRTDELW	TDELWTT - TD extra lock wait time
(CDC)	BITSTRING	12	TMRRODLY	ROMODDLY - RO TCB Delay time
(CE8)	BITSTRING	12	TMRSODLY	SOMODDLY - SO TCB Delay time
(CF4)	BITSTRING	12	TMRISAWT	ISALWTT - IS alloc wait time
(D00)	BITSTRING	12	TMRTCAWT	TCALWTT - TC alloc wait time
(D0C)	BITSTRING	12	TMRDSAWT	DSAPTHWT - DS allocate pthread wait
(D18)	BITSTRING	12	TMRASFWT	ASFTCHWT - AS FETCH wait time
(D24)	BITSTRING	12	TMRASRWT	ASRNATWT - AS RUN delayed time
(D24)		0	MNTCLEN	"*-MNTLEN" length of DSECT

MPFEC - Policy Flattened Event

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

Table 427.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	228	EPFE	EPFE
(0)	CHARACTER	228	EPFE_CONTEXTDATA	Event context
(0)	CHARACTER	4	EPFE_STRUCID	Structure identifier EPFE
(4)	CHARACTER	4	EPFE_VERSION	Version
(8)	CHARACTER	32	EPFE_EVENTBINDING	Event Binding Name
(28)	CHARACTER	8	EPFE_EBUSERTAG	Event Binding user tag
(30)	CHARACTER	32	EPFE_BUSINESSEVENT	Business event name

Table 427. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(50)	CHARACTER	54	EPFE_NETWORKUOWID	Network UOW ID
(86)	CHARACTER	17	EPFE_NETQUALAPPLID	Network qualified applid
(97)	CHARACTER	29	EPFE_DATETIME	Capture date and time
(B4)	CHARACTER	32	EPFE_CSNAME	Capture specification name
(D4)	CHARACTER	16	*	Reserved
(E4)	CHARACTER	0	EPFE_EVENTDATA	Start of event data

Table 428.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	9282	MPFE	MP Event
(0)	CHARACTER	228	MPFE_CONTEXT_DATA	Event context
(0)	CHARACTER	228	EPFE_CONTEXTDATA	
(0)	CHARACTER	4	EPFE_STRUCID	
(4)	CHARACTER	4	EPFE_VERSION	
(8)	CHARACTER	32	EPFE_EVENTBINDING	
(28)	CHARACTER	8	EPFE_EBUSERTAG	
(30)	CHARACTER	32	EPFE_BUSINESSEVENT	
(50)	CHARACTER	54	EPFE_NETWORKUOWID	
(86)	CHARACTER	17	EPFE_NETQUALAPPLID	
(97)	CHARACTER	29	EPFE_DATETIME	
(B4)	CHARACTER	32	EPFE_CSNAME	
(D4)	CHARACTER	16	*	
(E4)	CHARACTER	0	EPFE_EVENTDATA	
(E4)	CHARACTER	371	MPFE_COMMON_DATA	Common event data
(E4)	CHARACTER	10	MPFE_VERSION	mpfe version
(EE)	CHARACTER	7	MPFE_TASK_ID	Id of task
(F5)	CHARACTER	4	MPFE_TRAN_ID	Transaction id
(F9)	CHARACTER	8	MPFE_USER_ID	User id
(101)	CHARACTER	8	MPFE_PROGRAM_NAME	Program name
(109)	CHARACTER	64	MPFE_POLICY_NAME	Policy name
(149)	CHARACTER	64	MPFE_RULE_NAME	Rule name
(189)	CHARACTER	16	MPFE_RULE_GROUP	Rule group
(199)	CHARACTER	16	MPFE_RULE_TYPE	Rule type
(1A9)	CHARACTER	8	MPFE_BUNDLE_NAME	Bundle name of policy
(1B1)	CHARACTER	10	MPFE_BUNDL_VER_MAJOR	Bundle major version
(1BB)	CHARACTER	10	MPFE_BUNDL_VER_MINOR	Bundle minor version
(1C5)	CHARACTER	10	MPFE_BUNDL_VER_MICRO	Bundle micro version
(1CF)	CHARACTER	64	MPFE_BUNDLE_ID	Id of bundle
(20F)	CHARACTER	8	MPFE_POLICY_USER_TAG	Policy user tag

Table 428. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(217)	CHARACTER	64	MPFE_PLATFORM_NAME	Platform name
(257)	CHARACTER	8683	MPFE_RULE_SPECIFIC_ DATA	
(257)	CHARACTER	208	MPFE_TASK	
(257)	CHARACTER	64	MPFE_APPL_NAME	Application name
(297)	CHARACTER	10	MPFE_APPL_VER_MAJOR	Appl. major ver
(2A1)	CHARACTER	10	MPFE_APPL_VER_MINOR	Appl. minor ver
(2AB)	CHARACTER	10	MPFE_APPL_VER_MICRO	Appl. micro ver
(2B5)	CHARACTER	64	MPFE_OPERATION	Operation
(2F5)	CHARACTER	16	MPFE_RULE_CATEGORY	Rule category
(305)	CHARACTER	2	MPFE_RULE_OPERATOR	Rule operator
(307)	CHARACTER	16	MPFE_RULE_THRESHOLD	Rule threshold
(317)	CHARACTER	16	MPFE_CURRENT_COUNT	Current count
(257)	CHARACTER	36	MPFE_DB2_CONNECTION	
(257)	CHARACTER	4	MPFE_DC_DB2_ID	DB2 Id
(25B)	CHARACTER	4	MPFE_DC_DB2_GROUP_ID	DB2 Group Id
(25F)	CHARACTER	4	MPFE_DC_DB2_RELEASE	DB2 Release
(263)	CHARACTER	12	MPFE_DC_FROM_ CONNECTST	From_connectst
(26F)	CHARACTER	12	MPFE_DC_TO_CONNECTST	To_connectst
(257)	CHARACTER	88	MPFE_FILE_ENABLE	
(257)	CHARACTER	8	MPFE_FE_FILE_NAME	file name
(25F)	CHARACTER	44	MPFE_FE_DSNAME	dsname
(28B)	CHARACTER	12	MPFE_FE_FROM_ ENABLESTATUS	from_enablestatus
(297)	CHARACTER	12	MPFE_FE_TO_ ENABLESTATUS	to_enablestatus
(2A3)	CHARACTER	12	MPFE_FE_OPENSTATUS	openstatus
(257)	CHARACTER	88	MPFE_FILE_OPEN	
(257)	CHARACTER	8	MPFE_FO_FILE_NAME	file name
(25F)	CHARACTER	44	MPFE_FO_DSNAME	dsname
(28B)	CHARACTER	12	MPFE_FO_FROM_ OPENSTATUS	from_openstatus
(297)	CHARACTER	12	MPFE_FO_TO_OPENSTATUS	to_openstatus
(2A3)	CHARACTER	12	MPFE_FO_ENABLESTATUS	enablestatus
(257)	CHARACTER	8683	MPFE_MESSAGE	
(257)	CHARACTER	9	MPFE_ME_MESSAGE_ID	Message id
(260)	CHARACTER	1024	MPFE_ME_MESSAGE_TEXT	Message text
(660)	CHARACTER	255	MPFE_ME_INSERT1	Message insert 1
(75F)	CHARACTER	255	MPFE_ME_INSERT2	Message insert 2
(85E)	CHARACTER	255	MPFE_ME_INSERT3	Message insert 3
(95D)	CHARACTER	255	MPFE_ME_INSERT4	Message insert 4
(A5C)	CHARACTER	255	MPFE_ME_INSERT5	Message insert 5
(B5B)	CHARACTER	255	MPFE_ME_INSERT6	Message insert 6

Table 428. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C5A)	CHARACTER	255	MPFE_ME_INSERT7	Message insert 7
(D59)	CHARACTER	255	MPFE_ME_INSERT8	Message insert 8
(E58)	CHARACTER	255	MPFE_ME_INSERT9	Message insert 9
(F57)	CHARACTER	255	MPFE_ME_INSERT10	Message insert 10
(1056)	CHARACTER	255	MPFE_ME_INSERT11	Message insert 11
(1155)	CHARACTER	255	MPFE_ME_INSERT12	Message insert 12
(1254)	CHARACTER	255	MPFE_ME_INSERT13	Message insert 13
(1353)	CHARACTER	255	MPFE_ME_INSERT14	Message insert 14
(1452)	CHARACTER	255	MPFE_ME_INSERT15	Message insert 15
(1551)	CHARACTER	255	MPFE_ME_INSERT16	Message insert 16
(1650)	CHARACTER	255	MPFE_ME_INSERT17	Message insert 17
(174F)	CHARACTER	255	MPFE_ME_INSERT18	Message insert 18
(184E)	CHARACTER	255	MPFE_ME_INSERT19	Message insert 19
(194D)	CHARACTER	255	MPFE_ME_INSERT20	Message insert 20
(1A4C)	CHARACTER	255	MPFE_ME_INSERT21	Message insert 21
(1B4B)	CHARACTER	255	MPFE_ME_INSERT22	Message insert 22
(1C4A)	CHARACTER	255	MPFE_ME_INSERT23	Message insert 23
(1D49)	CHARACTER	255	MPFE_ME_INSERT24	Message insert 24
(1E48)	CHARACTER	255	MPFE_ME_INSERT25	Message insert 25
(1F47)	CHARACTER	255	MPFE_ME_INSERT26	Message insert 26
(2046)	CHARACTER	255	MPFE_ME_INSERT27	Message insert 27
(2145)	CHARACTER	255	MPFE_ME_INSERT28	Message insert 28
(2244)	CHARACTER	255	MPFE_ME_INSERT29	Message insert 29
(2343)	CHARACTER	255	MPFE_ME_INSERT30	Message insert 30
(257)	CHARACTER	8	MPFE_TRAN_ABEND	
(257)	CHARACTER	4	MPFE_TA_TRANSACTION	Transaction id
(25B)	CHARACTER	4	MPFE_TA_ABCODE	Abend code
(257)	CHARACTER	48	MPFE_TRANCLASS_TASK	
(257)	CHARACTER	8	MPFE_TC_TRANCLASS	Tranclass
(25F)	CHARACTER	10	MPFE_TC_FROM_ACTIVE	From active
(269)	CHARACTER	10	MPFE_TC_TO_ACTIVE	To active
(273)	CHARACTER	10	MPFE_TC_MAXACTIVE	Maxactive
(27D)	CHARACTER	10	MPFE_TC_PERCENT_ MAXACTIVE	% maxactive
(257)	CHARACTER	40	MPFE_USER_TASK	
(257)	CHARACTER	10	MPFE_UT_FROM_TASKS	From tasks
(261)	CHARACTER	10	MPFE_UT_TO_TASKS	To tasks
(26B)	CHARACTER	10	MPFE_UT_MAXTASKS	Maxtasks
(275)	CHARACTER	10	MPFE_UT_PERCENT_ MAXTASKS	% maxtasks

Constants

Table 429.

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

MQG - WebSphere MQ Connection Statistics

```
CONTROL BLOCK NAME = DFHMQGDS
NAME OF MATCHING PLX CONTROL BLOCK = DFHMQGPS
DESCRIPTIVE NAME = CICS TS MQCONN Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2006, 2009
FUNCTION =
       This data area contains global statistics provided by
       AP Domain on the CICS/MQ connection.
       It is provided for use in users monitoring application
       to map the statistics returned via the API or the statistics
       exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by AP to store
       statistics to be passed to the user in response to a request
       for statistics. The storage is released when the user
       is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = none
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Statistics record dsect
-------------------------------------------------------------------------
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = none
    GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY, DFHMQGDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 430.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHMQGDS	MQCONN statistics
(0)	HALFWORD	2	MQGLEN	Length of record
(2)	ADDRESS	2	MQGID	Record id field
(2)	.1.. 1.1.		MQGIDR	"74" Record id value

Table 430. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	CHARACTER	1	MQGDVERS	Version number
(4)	1		MQGVERS	"X'01'" Current version number
(5)	CHARACTER	3		Filler
MQCONN stats fields begin here				
(8)	CHARACTER	4	MQG_QMGR_NAME	Queue manager name
(C)	CHARACTER	4	MQG_MQ_RELEASE	Release of MQ vvrr
(10)	CHARACTER	1	MQG_CONNECTION_STATUS	Connection status
(10)	1		MQG_CONNECTED	"X'01'" Connection status connected
(10)	.... ..1.		MQG_NOT_CONNECTED	"X'02'" Connection status not-conn
(11)	CHARACTER	1	MQG_RESYNCMEMBER	Resyncmember setting
(11)	....		MQG_RESYNCMEMBER_ RESYNC	"X'00'" Resync uow's
(11)	1		MQG_RESYNCMEMBER_ NORESYNC	"X'01'" Noresync uow's
(11)	.... ..1.		MQG_RESYNCMEMBER_ GROUPRESYNC	"X'02'" group resync
(12)	CHARACTER	2		Filler
(14)	CHARACTER	48	MQG_INITIATION_QUEUE	Initiation queue name
(44)	FULLWORD	4	MQG_TTASKS	Number of current tasks
(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

Table 430. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(88)	FULLWORD	4	MQG_INDOUBTUOW	Count of indoubt units of work
(8C)	FULLWORD	4	MQG_UNRESOLVEDUOW	Count of unresolved units of work
(90)	FULLWORD	4	MQG_RESOLVECOMM	Count of resolved committed UOWs
(94)	FULLWORD	4	MQG_RESOLVEBACK	Count of resolved backout UOWs
(98)	FULLWORD	4	MQG_TBACKUOW	Total number of Backout UOWs
(9C)	FULLWORD	4	MQG_TCOMMUOW	Total number of Committed UOWs
(A0)	FULLWORD	4	MQG_TTASKEND	Total number of tasks
(A4)	FULLWORD	4	MQG_TSPCOMM	Total number of Single Phase Comms
(A8)	FULLWORD	4	MQG_T2PCOMM	Total number of 2 Phase Comms
(AC)	FULLWORD	4	MQG_TCB	Total number of CB
(B0)	FULLWORD	4	MQG_TCONSUME	Total number of msgs consumed
(B4)	FULLWORD	4	MQG_TCTL	Total number of CTL
(B8)	FULLWORD	4	MQG_TSUB	Total number of SUB
(BC)	FULLWORD	4	MQG_TSUBRQ	Total number of SUBRQ
(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 430. (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)	1		MQG_MQCONN_CSDAPI_ CHANGE	"X'01'" Change Agent - CSD API
(154)	.... ..1.		MQG_MQCONN_CSDBATCH_ CHANGE	"X'02'" Change Agent - DFHCSDUP
(154)	11		MQG_MQCONN_DREPAPI_ CHANGE	"X'03'" Change Agent - DREP API
(154)	.... .1..		MQG_MQCONN_CREATE_ CHANGE	"X'04'" Change Agent - CREATE SPI
Equates to test MQG_Mqconn_install_agent				
(154)	1		MQG_MQCONN_CSDAPI_ INSTALL	"X'01'" Install Agent - CSD API
(154)	.... .1..		MQG_MQCONN_CREATE_ INSTALL	"X'04'" Install Agent - CREATE SPI
(154)	.... .1.1		MQG_MQCONN_GRPLIST_ INSTALL	"X'05'" Install Agent - GRPLIST

MQR - WebSphere MQ Monitor Statistics

```
CONTROL BLOCK NAME = DFHMQRDS
NAME OF MATCHING PLX CONTROL BLOCK = DFHMQRPS
DESCRIPTIVE NAME = CICS TS MQMONITOR Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2016, 2016
FUNCTION =
       This data area contains resource statistics provided by
       AP Domain for a CICS/MQ monitor.
       It is provided for use in users monitoring application
       to map the statistics returned via the API or the statistics
       exit.
       There can be multiple instances 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, DFHMQRDS IS
 NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
 PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 431.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHMQRDS	MQMONITOR statistics
(0)	HALFWORD	2	MQRLEN	Length of record
(2)	ADDRESS	2	MQRID	Record id field
(2)	1..1 .1..		MQRIDR	"148" Record id value
(4)	CHARACTER	1	MQRDVERS	Version number
(4)	1		MQRVERS	"X'01'" Current version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	8	MQR_NAME	Resource name
(10)	CHARACTER	48	MQR_QNAME	MQ Queue name
(40)	CHARACTER	4	MQR_TRANID	Monitor tranid
(44)		4	MQR_TASKNUM	Monitor task number
(48)	CHARACTER	8	MQR_MONUSERID	Monitor userid
(50)	CHARACTER	8	MQR_USERID	Userid
(58)	CHARACTER	1	MQR_MONSTATUS	Monitor status
(59)	CHARACTER	3		Filler
(5C)	FULLWORD	4	MQR_TOPEN	Total number of OPEN
(60)	FULLWORD	4	MQR_TCLOSE	Total number of CLOSE
(64)	FULLWORD	4	MQR_TGET	Total number of GET
(68)	FULLWORD	4	MQR_TGETWAIT	Total number of GETWAIT
(6C)	FULLWORD	4	MQR_TPUT	Total number of PUT
(70)	FULLWORD	4	MQR_TPUT1	Total number of PUT1
(74)	FULLWORD	4	MQR_TINQ	Total number of INQ
(78)	FULLWORD	4	MQR_TINQL	Total number of INQL
(7C)	FULLWORD	4	MQR_TSET	Total number of SET
(80)	FULLWORD	4	MQR_TCOMMUOW	Total number of Committed UOWs

Table 431. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(84)	FULLWORD	4	MQR_TBACKUOW	Total number of Backout UOWs
(88)	FULLWORD	4	MQR_TOTHER	Total number of other calls
(8C)	FULLWORD	4	(4)	Reserved
(9C)	BITSTRING	8	MQR_START_TIME_GMT	start time (GMT)
(A4)	BITSTRING	8	MQR_START_TIME_LOCAL	start time (local)
(AC)	BITSTRING	8	MQR_STOP_TIME_GMT	stop time (GMT)
(B4)	BITSTRING	8	MQR_STOP_TIME_LOCAL	stop time (local)
(BC)	CHARACTER	8	MQR_MQMON_DEFINE_ SOURCE	Group installed from
(C4)	BITSTRING	8	MQR_MQMON_CHANGE_TIME	Change/create time
(CC)	CHARACTER	8	MQR_MQMON_CHANGE_ USERID	Change userid
(D4)	BITSTRING	2	MQR_MQMON_CHANGE_ AGENT	Change agent
(D6)	BITSTRING	2	MQR_MQMON_INSTALL_ AGENT	Install agent
(D8)	BITSTRING	8	MQR_MQMON_INSTALL_ TIME	Install/Create time
(E0)	CHARACTER	8	MQR_MQMON_INSTALL_ USERID	Install userid
(E8)	BITSTRING	4		Reserved
(E8)	111. 11..		MQRDS_END	"*"
(E8)	111. 11..		MQRDS_LENGTH	"*-MQRlen" MQMONITOR stats record length
Equates to test MQR_Mqmonstatus				
(E8)	1		MQR_MQMON_STARTED	"X'01'" Started
(E8)	.... ..1.		MQR_MQMON_STARTING	"X'02'" Starting
(E8)	11		MQR_MQMON_STOPPED	"X'03'" Stopped
(E8)	.... .1..		MQR_MQMON_STOPPING	"X'04'" Stopping
Equates to test MQR_Mqmon_change_agent				
(E8)	1		MQR_MQMON_CSDAPI_ CHANGE	"X'01'" Change Agent - CSD API
(E8)	.... ..1.		MQR_MQMON_CSDBATCH_ CHANGE	"X'02'" Change Agent - DFHCSDUP
(E8)	11		MQR_MQMON_DREPAPI_ CHANGE	"X'03'" Change Agent - DREP API
(E8)	.... .1..		MQR_MQMON_CREATE_ CHANGE	"X'04'" Change Agent - CREATE SPI
(E8)	.... 1...		MQR_MQMON_DYNAMIC_ CHANGE	"X'08'" Change Agent - DYNAMIC
Equates to test MQR_Mqmon_install_agent				
(E8)	1		MQR_MQMON_CSDAPI_ INSTALL	"X'01'" Install Agent - CSD API
(E8)	.... .1..		MQR_MQMON_CREATE_ INSTALL	"X'04'" Install Agent - CREATE SPI
(E8)	.... .1.1		MQR_MQMON_GRPLIST_ INSTALL	"X'05'" Install Agent - GRPLIST

Table 431. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(E8)	.... 1...		MQR_MQMON_DYNAMIC_ INSTALL	"X'08'" Install Agent - DYNAMIC

MRC - Transient data VSAM control

```
 DESCRIPTIVE NAME = Transient Data VSAM Control
                    CICS/ESA AP Domain
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1982, 1994
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 432.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	212	DFHMRCA	
(0)	CHARACTER	16	MRCA_PREFIX	prefix
(0)	HALFWORD	2	MRCA_LENGTH	- length
(2)	CHARACTER	1	MRCA_ARROW	- value - '>'
(3)	CHARACTER	3	MRCA_DFH	- value - 'DFH'

Table 432. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6)	CHARACTER	2	MRCA_DOMID	- value - 'TD'
(8)	CHARACTER	8	MRCA_BLOCK	- value - 'MRCA '
(10)	CHARACTER	4	MRCA_DFP	DFP release level
(10)	BIT(8)	1	MRCA_DFP_VR	- version, release
(11)	BIT(8)	1	MRCA_DFP_M0	- modification, 0
(12)	BIT(16)	2	*	- reserved
(14)	CHARACTER	64	MRCA_ACB	ACB
(14)	CHARACTER	8	MRCA_DDNAME	- DDNAME
(1C)	CHARACTER	44	MRCA_DSNAME	- DSNAME
(48)	FULLWORD	4	MRCA_STR_N	- #(strings)
(4C)	ADDRESS	4	MRCA_UACB_P	- A(update ACB)
(50)	ADDRESS	4	MRCA_OACB_P	- A(output ACB)
(54)	CHARACTER	24	MRCA_DS	data set
(54)	FULLWORD	4	MRCA_CI_L	- L(control interval)
(58)	FULLWORD	4	MRCA_MIN_L	- L(user data) - minimum
(5C)	FULLWORD	4	MRCA_MAX_L	- L(user data) - maximum
(60)	FULLWORD	4	MRCA_I_RBA	- initial RBA
(64)	FULLWORD	4	MRCA_N_RBA	- next RBA
(68)	FULLWORD	4	MRCA_H_RBA	- high RBA
(6C)	CHARACTER	8	MRCA_CSM	CI status map
(6C)	ADDRESS	4	MRCA_MRSD_P	- A(first MRSD) or 0
(70)	FULLWORD	4	MRCA_MRSD_N	- #(MRSDs allocated)
(74)	CHARACTER	8	MRCA_SRC_1	MRCB allocation chain
(74)	ADDRESS	4	MRCA_TCA_P	- A(owning TCA) or 0
(78)	ADDRESS	4	MRCA_MWCB_P	- A(first MWCB) or 0
(7C)	CHARACTER	8	MRCA_SRC_2	CI formatting chain
(7C)	ADDRESS	4	*	- A(owning TCA) or 0
(80)	ADDRESS	4	*	- A(first MWCB) or 0
(84)	CHARACTER	4	MRCAECB	ECB WORD
(84)	1...		*	- ECB BYTE
(84)	.1..		MRCACSMI	- CSM BUILD COMPLETE
(84)	BIT(22) POS(3)	3	*	RESERVED
(87)	UNSIGNED	1	MRCAERC1	- RETURN CODE
(88)	CHARACTER	4	*	MRCA STATUS
(88)	CHARACTER	1	MRCAFLG0	- DATASET
(88)	1...		MRCAOPEN	- OPENED
(88)	.1..		MRCAESDS	- VSAM ESDS
(88)	..1.		MRCADDST	- DD STATEMENT
(88)	...1 1111		*	- RESERVED
(89)	CHARACTER	1	MRCAFLG1	- CONTENTS

Table 432. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(89)	1...		MRCAMPTY	- EMPTY (INITIALLY)
(89)	.1..		MRCAFULL	- FULL
(89)	..11 1111		*	- RESERVED
(8A)	CHARACTER	1	MRCAFLG2	- CSM INITALIZATION
(8A)	1...		MRCACSMR	- REQUIRED
(8A)	.1..		MRCACSMP	- IN PROGRESS
(8A)	..1.		MRCACSMC	- COMPLETE
(8A)	...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
(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

Table 432. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(D4)	CHARACTER	0	*	

MULTIPLE STRINGS - STRING CONTROL BLOCK (MRCB)

Table 433.

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 434.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	576	DFHMRSD	
(0)	CHARACTER	16	MRSD_PREFIX	prefix
(0)	HALFWORD	2	MRSD_LENGTH	- length
(2)	CHARACTER	1	MRSD_ARROW	- value - '>'
(3)	CHARACTER	3	MRSD_DFH	- value - 'DFH'
(6)	CHARACTER	2	MRSD_DOMID	- value - 'TD'
(8)	CHARACTER	8	MRSD_BLOCK	- value - 'MRSD '
(10)	CHARACTER	8	MRSD_STATS	
(10)	FULLWORD	4	MRSD_CIS_ALLOCATED	CIs allocated
(14)	FULLWORD	4	*	Reserved
(18)	CHARACTER	20	MRSDPFIX	SEGMENT PREFIX
(18)	CHARACTER	4	MRSDPFID	- EYE CATCHER
(1C)	FULLWORD	4	MRSDPFLN	- LENGTH
(20)	FULLWORD	4	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

Table 434. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2C)	CHARACTER	256	MRSDSEGM	- MASTER AS SCALAR
(2C)	CHARACTER	1	MRSDSARM (0:255)	- MASTER AS ARRAY
(12C)	CHARACTER	256	MRSDSEGB	- BACK-UP AS SCALAR
(12C)	CHARACTER	1	MRSDSARB (0:255)	- 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 435.

Len	Type	Value	Name	Description
1	HEX	21	MRCA_DFP_21	- V2 R1
1	HEX	22	MRCA_DFP_22	- V2 R2
1	HEX	23	MRCA_DFP_23	- V2 R3

MWCB - Transient data wait control

```
 DESCRIPTIVE NAME = Transient Data Wait Control
                    CICS/ESA AP Domain
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1982, 2005
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 436.

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
(14)	FULLWORD	4	MWCB_TASK_TOKEN	- task token
(18)	ADDRESS	4	MWCB_SR_TOK	- SUSPEND/RESUME token
(1C)	CHARACTER	4	MWCB_TXN_NUMBER	- Owning txn number
(20)	BIT(8)	1	MWCB_TDQ_FLAG	
(20)	1111 111.		*	
(20)	1		MWCB_TDQ_DISCARDED	- assoc tdq gone
(21)	CHARACTER	3	*	- reserved
(24)	CHARACTER	4	*	- reserved
(28)	CHARACTER	0	*	

NCS4D - Named counter server CF statistics

```
CONTROL BLOCK NAME = DFHNCS4D
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Named Counter Server List Str Stats
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1998, 2006
FUNCTION = NC server list structure usage and access statistics.
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
-------------------------------------------------------------------------
```

Table 437.

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)	.111 11..		S4IDE	"0124" List structure stats mask

Table 437. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	ADDRESS	2	S4ID	List structure stats id
(2)	1		S4VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	S4DVERS	List structure stats version number
(5)	CHARACTER	3		Reserved
Coupling facility list structure status information.				
(8)	CHARACTER	16	S4NAME (0)	Full name of list structure
(8)	CHARACTER	8	S4PREF	First part of structure name
(10)	CHARACTER	8	S4POOL	Pool name part of structure name
(18)	CHARACTER	16	S4CNNAME (0)	Name for connection to structure
(18)	CHARACTER	8	S4CNPREF	Prefix for connection name
(20)	CHARACTER	8	S4CNSYSN	Own MVS system name from CVTSNAME
(28)	ADDRESS	4	S4SIZE	Structure size in 4K pages
(2C)	ADDRESS	4	S4SIZEMX	Maximum size in 4K pages
Usage statistics. Entry usage statistics. Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER.				
(30)	FULLWORD	4	S4ENTRCT	Current number of entries in use
(34)	FULLWORD	4	S4ENTRHI	Highest number of entries in use
(38)	FULLWORD	4	S4ENTRLO	Lowest number of free entries
(3C)	FULLWORD	4	S4ENTRMX	Max entries returned by IXLCONN
Coupling facility I/O statistics. Statistics for each main type of CF request.				
(40)	FULLWORD	4	S4CRECT	Create counter
(44)	FULLWORD	4	S4GETCT	Get and increment counter
(48)	FULLWORD	4	S4SETCT	Set counter
(4C)	FULLWORD	4	S4DELCT	Delete counter
(50)	FULLWORD	4	S4KEQCT	Inquire KEQ
(54)	FULLWORD	4	S4KGECT	Inquire KGE
Statistics for internal CF requests.				
(58)	FULLWORD	4	S4ASYCT	Number of asynchronous requests
IXLLIST completion statistics indexed by internal response value.				
(5C)	FULLWORD	4	S4RSP1CT	Normal response, everything OK

Table 437. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(60)	FULLWORD	4	S4RSP2CT	No matching entry was found
(64)	FULLWORD	4	S4RSP3CT	Entry version did not match
(68)	FULLWORD	4	S4RSP4CT	List authority comparison mismatch
(6C)	FULLWORD	4	S4RSP5CT	The list structure is out of space
(70)	FULLWORD	4	S4RSP6CT	An IXLLIST return code occurred other than those described above
(74)	FULLWORD	4	S4RSP7CT	Structure temporarily unavailable, during system-managed rebuild
(74)	.111 1...		S4END	"*"
(74)	.111 1...		S4CLEN	"*-S4LEN" Length of this DSECT

NCS5D - Named counter server storage statistics

```
CONTROL BLOCK NAME = DFHNCS5D
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Named Counter Server Storage Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1998, 2002
FUNCTION = Statistics for named counter server main storage usage.
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
-------------------------------------------------------------------------
```

Table 438.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHNCS5D	, NC server main storage statistics
(0)	FULLWORD	4	S5 (0)	Start of record
(0)	ADDRESS	2	S5LEN	Length of data area
(0)	.111 11.1		S5IDE	"0125" NC server main storage stats mask
(2)	ADDRESS	2	S5ID	NC server main storage stats id
(2)	1		S5VERS	"X'01'" DSECT version number mask
(4)	ADDRESS	1	S5DVERS	NC server main storage stats version
(5)	BITSTRING	3		Reserved

Table 438. (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
(54)	FULLWORD	4	S5LOWLO	Lowest free pages (since reset)
(58)	FULLWORD	4	S5LOWRQG	Storage GET requests
(5C)	FULLWORD	4	S5LOWRQF	Storage FREE requests
(60)	FULLWORD	4	S5LOWRQS	GETs which failed to get storage

Table 438. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(64)	FULLWORD	4	S5LOWRQC	Compress (defragmentation) attempts
(64)	.11. 1...		S5END	"*"
(64)	.11. 1...		S5CLEN	"*-S5LEN" Length of this DSECT

NEPCA - Node error program commarea

```
MACRO NAME = DFHNEPCA
DESCRIPTIVE NAME = CICS TS DFHZNEP - Node Error Program
                   Commarea Mapper and Descriptor
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1989, 2002
FUNCTION =
      This macro provides a DSECT description and a storage
      mapper for the NEP COMMAREA
NOTES
  DEPENDENCIES = S/370
  RESTRICTIONS =
        See OPERANDS sections
  MODULE TYPE = Executable macro
-------------------------------------------------------------------
   . $01 Reserved for APAR fix DELETED BY APAR
   . $02 Reserved for APAR fix DELETED BY APAR
   . $03 Reserved for APAR fix DELETED BY APAR
```

Table 439.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHNEPCA	
Invocation descriptor. - COMMAREA for the NEP user replaceable module These fields are READ ONLY				
(0)	BITSTRING	158	NEPCABEG (0)	
(0)	BITSTRING	4	NEPCAHDR (0)	Invocation descriptor
(0)	BITSTRING	1	NEPCAFNC	Local descriptor
(1)	BITSTRING	2	NEPCACMP	Global descriptor
(3)	BITSTRING	1		Reserved
Identity of terminal and the error code associated with it These fields are READ ONLY				
(4)	BITSTRING	1	TWAEC	Error Code
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	4	TWANID	Terminal identity
(C)	CHARACTER	8	TWANETN	Netname
Action bytes. Initially set to the default actions. User can change these default actions.				
(14)	BITSTRING	4	TWAROPTL (0)	Reserved
(14)	BITSTRING	3	TWAOPTL (0)	User option bytes
(14)	BITSTRING	1	TWAROPT1 (0)	User option byte 1

Table 439. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(14)	BITSTRING	1	TWAOPT1	User option byte 1
(14)	1...		TWAOAF	"X'80'" Print action flags
(14)	.1..		TWAORPL	"X'40'" Print VTAM RPL
(14)	..1.		TWAOTCTE	"X'20'" Print TCTTE
(14)	...1		TWAOTIOA	"X'10'" Print TIOA
(14)	.... 1...		TWAOBIND	"X'08'" Print BIND area
(14)	.... .1..		TWAODNTA	"X'04'" System dump if no task attached
(14)	.... ..1.		TWAONQN	"X'02'" Print NQNAME
(14)	1		TWAOTNA	"X'01'" Print TNADDR
(15)	BITSTRING	1	TWAROPT2 (0)	User option byte 2
(15)	BITSTRING	1	TWAOPT2	User option byte 2
(15)	1...		TWAOAS	"X'80'" Abort any send for this terminal
(15)	.1..		TWAOAR	"X'40'" Abort any receive for " "
(15)	..1.		TWAOAT	"X'20'" Abend any task attached to TCTTE
(15)	...1		TWAOCT	"X'10'" Cancel any task att to TCTTE
(15)	.... 1...		TWAOGMM	"X'08'" Good Morning message to be sent
(15)	.... .1..		TWAOPBP	"X'04'" Purge any BMS pages for this TCTTE
(15)	.... ..1.		TWAOASM	"X'02'" SIMLOGON required
(16)	BITSTRING	1	TWAROPT3 (0)	User option byte 3
(16)	BITSTRING	1	TWAOPT3	User option byte 3
(16)	1...		TWAOINT	"X'80'" Set INTLOG now allowed
(16)	.1..		TWAONINT	"X'40'" Set no internal gen logons
(16)	...1		TWAONCN	"X'10'" Normal CLSDST (no reset allowed)
(16)	.... 1...		TWAOSCN	"X'08'" Normal CLSDST (reset allowed)
(16)	.... .1..		TWAONEGR	"X'04'" Send negative response
(16)	.... ..1.		TWAOOS	"X'02'" Keep node out of service
(16)	1		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

Table 439. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(18)	HALFWORD	2	TWARPLCD	VTAM RPL feedback codes
(1A)	HALFWORD	2		Reserved
(1C)	FULLWORD	4	TWASENSS (0)	Sense codes to be sent
(1C)	BITSTRING	1	TWASS1	System sense byte No 1
(1D)	BITSTRING	1	TWASS2	System sense byte No 2
(1E)	BITSTRING	1	TWAUS1	User sense byte No 1
(1F)	BITSTRING	1	TWAUS2	User sense byte No 2
(20)	FULLWORD	4	TWASENSR (0)	Sense codes received
(20)	BITSTRING	1	TWASR1	System sense byte No 1
(21)	BITSTRING	1	TWASR2	System sense byte No 2
(22)	BITSTRING	1	TWAUR1	User sense byte No 1
(23)	BITSTRING	1	TWAUR2	User sense byte No 2
Other useful information for NEP With the exception of TWANLD,TWANLDL & TWANPFW these fields are READ ONLY				
(24)	BITSTRING	22	TWAADINF (0)	
(24)	FULLWORD	4		Reserved
(28)	BITSTRING	1	TWACTLB	General use control byte
(28)	..1.		TWACSC	"X'20'" Clear sense code indicator
(28)	...1		TWAPSC	"X'10'" Print VTAM sense codes
(28)	.... 1...		TWATIOA	"X'08'" Print portion of I/O area
(28)	.... ..1.		TWAVTRTC	"X'02'" VTAM return code available
(29)	BITSTRING	1	TWANEPR	NEP return code byte
(29)	1...		TWANPFW	"X'80'" Retry write with FORCE=YES
(2A)	BITSTRING	1	TWAREASN	VTAM reason code
(2B)	BITSTRING	1	TWASTAT	VTAM status code
(2A)	BITSTRING	1	TWATRSN	CICS Terminal Control terminal error reason code
(2C)	HALFWORD	2	TWAXRSN	Exception response seq number recd
(2C)	..1. 111.		TWAR	"*"
(2E)	BITSTRING	1	TWAPFLG	CLSDST Pass flag
(2E)	1...		TWAPIP	"X'80'" CLSDST Pass in progress
(2F)	BITSTRING	1	TWANEPC	NEP Class Flag
(30)	BITSTRING	1	TWAEISAB	Stand alone begin bracket indicator
(30)	.... .1..		TWAESAB	"X'04'" Stand alone begin bracket

Table 439. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(31)	BITSTRING	3		Reserved
(34)	ADDRESS	4	TWANLD	NEP data pointers
(38)	HALFWORD	2	TWANLDL	Length of NEP data
Additional system parameters With the exception of TWAPNETN, TWAPNTID & 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
(54)	HALFWORD	2	TWATECIL	Length of TCTTE USER AREA
(56)	CHARACTER	8	TWAPPNTN	primary 3270 printer netname
(5E)	CHARACTER	4	TWAPPTID	primary 3270 printer termid
(62)	BITSTRING	1	TWAPPELG	primary printer eligible indicator
(62)	1		TWAPPELY	"X'01'" primary printer is eligible flag
(63)	CHARACTER	8	TWASPNTN	secondary 3270 printer netname
(6B)	CHARACTER	4	TWASPTID	secondary 3270 printer termid
(6F)	BITSTRING	1	TWASPELG	secondary printer eligible indicator
(6F)	1		TWASPELY	"X'01'" secondary printer is eligible flag
(70)	CHARACTER	8	TWAPNETN	selected 3270 printer netname
(78)	CHARACTER	4	TWAPNTID	selected 3270 printer termid
(7C)	BITSTRING	1	TWAUPRRC	Unavailable Printer rtn return code
(7C)	....		TWAUPRNP	"X'00'" No printer selected
(7C)	1		TWAUPRPS	"X'01'" printer selected

Table 439. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7C)	1111 1111		TWAUPRDD	"X'FF'" data disposal complete
(7C)	1111 111.		TWAUPRPE	"X'FE'" Error on Put request
(7D)	BITSTRING	1	TWAERRF1	Error flag byte 1
(7D)	1...		TWALXS	"X'80'" Logon crossed simlogon
(7E)	BITSTRING	2		reserved
XRF recovery notification data User can change these default actions				
(80)	BITSTRING	1	TWAXRNOT	Recovery Notification Options
(80)	1...		TWAXRNON	"X'80'" Recov Notification = None
(80)	.1..		TWAXRMSG	"X'40'" Recov Notification = Message
(80)	..1.		TWAXRTRN	"X'20'" Recov Notification = Transact.
(81)	BITSTRING	3		Reserved
(84)	CHARACTER	8	TWAXMSTN	Recovery Mapset Name
(8C)	CHARACTER	8	TWAXMAPN	Recovery Map Name
(94)	CHARACTER	4	TWAXTRAN	Recovery Transaction ID
Additional system parameters				
(98)	ADDRESS	4	TWACINIT	CINIT RU Address
(9C)	BITSTRING	2	TWACINIL	CINIT RU Length
(9C)	1..1 111.		NEPCALEN	"*-NEPCABEG" Length of this DSECT

NQG - Enqueue Manager Global statistics

```
CONTROL BLOCK NAME = DFHNQGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHNQGPS
DESCRIPTIVE NAME = CICS TS Enqueue Manager Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1994, 2002
       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 440.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHNQGDS	Enqueue Manager Global statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	NQGLEN	Length of data area
(0)	.11. ...1		NQGIDE	"0097" Enqueue Manager statistics id mask
(2)	ADDRESS	2	NQGID	Enqueue Manager statistics id
(2)	1		NQGVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	NQGDVERS	Stats version number
(5)	CHARACTER	3		Filler
(5)	.... 1...		NQGHEND	"*" End of header
(5)	.... 1...		NQGHLEN	"*-NQGLEN" Length of header
(8)	FULLWORD	4	NQGNPOOL	Number of ENQ pools following
(8)	.... 11..		NQGGEND	"*" End of global portion
(8)	.... 11..		NQGGLEN	"*-DFHNQGDS" Length of header and global part

```
The following dsect is repeated for each ENQ pool. The number of
repetitions of the NQGBODY dsect is in NQGNPOOL.
```

Table 441.

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

Table 441. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	CHARACTER	8	NQGCNQWT	Current enqueues waiting time (STCK)
(24)	FULLWORD	4	NQGGNQSW	Total sysplex ENQs waited
(28)	CHARACTER	8	NQGGNQWT	Time sysplex ENQs had waited (STCK)
(30)	FULLWORD	4	NQGSNQSW	Current sysplex ENQs waiting
(34)	CHARACTER	8	NQGSNQWT	Current sysplex ENQs wait time (STCK)
The following fields show the enqueue retention activity.				
(3C)	FULLWORD	4	NQGTNQSR	Total enqueues that were retained
(40)	CHARACTER	8	NQGTNQRT	Time enqueues were retained (STCK)
(48)	FULLWORD	4	NQGCNQSR	Current enqueues retained
(4C)	CHARACTER	8	NQGCNQRT	Current enqueues retained time (STCK)
The following fields show a breakdown of the possible reasons of why requests for ENQs may not have been successful.				
(54)	FULLWORD	4	NQGTIRJB	Total immed. rejected ENQBUSY
(58)	FULLWORD	4	NQGTIRJR	Total immed. rejected ENQ retained
(5C)	FULLWORD	4	NQGTWRJR	Total waiting ENQs rejected retained
(60)	FULLWORD	4	NQGTWPOP	Total waiting ENQs purged by operator
(64)	FULLWORD	4	NQGTWPTO	Total waiting ENQs purged by timeout
(64)	.11. 1...		NQGBEND	"*" End of individual ENQ pool stats
(64)	.11. 1...		NQGBLEN	"*-NQGBODY" Length of body

NQUE - Enq/Deq EXEC Parameter List

```
CONTROL BLOCK NAME = DFHNQUEC
DESCRIPTIVE NAME = CICS TS EXEC argument list for ENQ/DEQ
                                    user exits.
    Licensed Materials - Property of IBM
     Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1997
  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 442.

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 443.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	NQ_EID	
(0)	CHARACTER	1	NQ_GROUP	'12'X for ENQ/DEQ
(1)	CHARACTER	1	NQ_FUNCT	'04'X for ENQ
'06'X for DEQ --- The existence bits (NQ_BITS1) specify the parameters that are valid for this command. For example, NQ_EXIST2 set on indicates that NQ_ADDR2 is valid, meaning that it addresses a LENGTH value. NQ_ADDR0 is always valid and has no existence bit. ---				
(2)	BIT(8)	1	NQ_BITS1	
(2)	1...		NQ_EXIST1	
(2)	1...		NQ_RESOURCE_V	
(2)	.1..		NQ_EXIST2	
(2)	.1..		NQ_LENGTH_V	
(2)	..1.		NQ_EXIST3	
(2)	..1.		NQ_MAXLIFETIME_V	
(2)	...1 1111		*	Reserved
(3)	BIT(16)	2	*	Reserved
--- The next 3 bytes (NQ_EIDOPT5 - NQ_EIDOPT7) are the flagword bits. A user exit program at XNQEREQ can set the NQ_NOSUSPEND_X bit for an ENQ command. ---				
(5)	BIT(8)	1	NQ_EIDOPT5	
(5)	BIT(8)	1	*	Reserved
(6)	BIT(8)	1	NQ_EIDOPT6	

Table 443. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6)	BIT(8)	1	*	Reserved
(7)	BIT(8)	1	NQ_EIDOPT7	
(7)	1111 1...		*	Reserved
(7)	.... .1..		NQ_NOSUSPEND_X	NOSUSPEND specified.
(7)	11		*	Reserved

```
The following definitions are for the rest of the arguments in
the EXEC parameter list, addressed by NQ_ADDR1 - NQ_ADDR3 in
NQ_ADDR_LIST.
```

Table 444.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	NQ_DATA1	
(0)	CHARACTER	*	NQ_RESOURCE	the RESOURCE

Table 445.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	NQ_DATA2	
(0)	HALFWORD	2	NQ_LENGTH	the LENGTH

Table 446.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	NQ_DATA3	
(0)	FULLWORD	4	NQ_MAXLIFETIME	the MAXLIFETIME

Constants

Table 447.

Len	Type	Value	Name	Description
Equate for NQ_GROUP. All ENQ/DEQ requests have group code '12'				
1	HEX	12	NQ_ENQDEQ_GROUP	
Equates for NQ_FUNCT values.				
1	HEX	04	NQ_ENQ	Enq
1	HEX	06	NQ_DEQ	Deq
Start of General Use Programming Interface. Equates for EIBRCODE values used by Enq/Deq.				
1	HEX	00	NQ_OK_EIBRCODE	
1	HEX	E0	NQ_INVREQ_EIBRCODE	
1	HEX	E1	NQ_LENGERR_EIBRCODE	
1	HEX	32	NQ_ENQBUSY_EIBRCODE	
Equates for EIBRESP values used by Enq/Deq.				
1	DECIMAL	0	NQ_OK_EIBRESP	

Table 447. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	16	NQ_INVREQ_EIBRESP	
1	DECIMAL	22	NQ_LENGERR_EIBRESP	
1	DECIMAL	55	NQ_ENQBUSY_EIBRESP	
Equates for EIBRESP2 values used by Enq/Deq				
1	DECIMAL	0	NQ_OK_EIBRESP2	OK
1	DECIMAL	1	NQ_LENGERR_EIBRESP2	LENGERR
1	DECIMAL	2	NQ_INVREQ_EIBRESP2	INVREQ *-*-**-**-**-**-**-**-**-* *-*-**-**-**-**-**-**-**-* *-*-* End of General Use **-* *-* Programming Interface *-* *-*-*-**-**-**-**-**-*-*-*

OSPWA - BMS work area

```
DESCRIPTIVE NAME = CICS TS BMS WORK AREA
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1980, 2016
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
 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 448.

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

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	.... 1...		OSPSTART	"*" OSPWA START
(8)	CHARACTER	8	OSPCBID	OSPWA SELF IDENTIFICATION. SET TO 'DFHOSPWA' WHEN OSPWA CREATED
(8)	...1		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)	...1 1...		OSPIIPSA	"OSPMAPSA" INPUT MAPPING SAVE AREA
(20)	FULLWORD	4	OSPPFSA (2)	PAGE FORMATTING SAVE AREA
(28)	FULLWORD	4	OSPDSBSA (2)	DATA STREAM BUILD SAVE AREA
(30)	FULLWORD	4	OSPTPPSA (2)	TERMINAL PAGE PROCESSOR SAVE AREA
(38)	FULLWORD	4	OSPTPRS1 (2)	DFHTPR REGISTER SAVE AREA
(40)	FULLWORD	4	OSPTPRS2 (2)	DFHTPR REGISTER SAVE AREA
(20)	FULLWORD	4	OSPTPRS3	DFHTPR REGISTER SAVE AREA
(24)	FULLWORD	4	OSPTPRS4	DFHTPR REGISTER SAVE AREA
(28)	FULLWORD	4	OSPTPRS5	DFHTPR REGISTER SAVE AREA
(2C)	FULLWORD	4	OSPTPRS6	DFHTPR REGISTER SAVE AREA
SAVE AREAS FOR R14 TO GIVE RLR CALLING PROCEDURE CONSISTENCY				
(28)	FULLWORD	4	OSPLIS14	SAVE AREA FOR RETURN REGISTER FOR RLRLOCID
(2C)	FULLWORD	4	OSPINS14	SAVE AREA FOR RETURN REGISTER FOR RLRINIT
(30)	FULLWORD	4	OSPBLS14	SAVE AREA FOR RETURN REGISTER FOR RLRRLBLD
(48)	FULLWORD	4	(2)	RESERVED
DATA SAVED FROM TCA REQUEST AREA				
(48)	.1.1		OSPSVDTA	"*" BMS REQUEST DATA FROM TCA
(50)	BITSTRING	1	OSPTR1	TYPE OF REQUEST BYTE 1
(50)	1...		OSPTRR	"X'80'" TYPE = ROUTE
(50)	.1..		OSPREO	"X'40'" ERRTERM = ORIG
(50)	..1.		OSPRETI	"X'20'" ERRTERM = TERMINAL ID

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(50)	...1		OSPRI	"X'10'" INTRVAL = NUMERIC VALUE
(50)	.... 1...		OSPRT	"X'08'" TIME = NUMERIC VALUE
(50)	.... .1..		OSPRA	"X'04'" LIST = ALL
(50)	.... ..1.		OSPRLSA	"X'02'" LIST = SYMBOLIC ADDRESS
(50)	1		OSPROC	"X'01'" OPCLASS = OPERATOR CLASS
(51)	BITSTRING	1	OSPTR2	TYPE OF REQUEST BYTE 2
(51)	1...		OSPRTL	"X'80'" TITLE = SYMBOLIC ADDRESS
(51)	.1..		OSPTOPT	"X'40'" PROPT = NLEOM
(51)	..1.		OSPRQI	"X'20'" REQID = ALPHANUMERIC VALUE
(51)	...1		OSPTLD	"X'10'" LDC = MNEMONIC OR YES
(51)	.... 1...		OSPIOT	"X'08'" IOTYPE = IMMED
(51)	.... .1..		OSPLPS	"X'04'" SEND PARTNSET
(51)	.... ..1.		OSPRIN	"X'02'" RECV INTO EXEC COMMAND
(51)	1		OSPTRG	"X'01'" TYPE = PURGE
(52)	BITSTRING	1	OSPTR3	TYPE OF REQUEST BYTE 3
(52)	1...		OSPTLST	"X'80'" TYPE = LAST
(52)	.1..		OSPRPR	"X'40'" RECEIVE PARTITION
(52)	..1.		OSPTRT	"X'20'" TYPE=TEXT ON INPUT MAPPING
(52)	..1.		OSPHON	"X'20'" HONEOM REQUESTED ON OUTPUT MAPPING (EXEC INTERFACE ONLY)
(52)	...1		OSPTC	"X'10'" CURSOR = NUMBER
(52)	.... 1...		OSPTCWCC	"X'08'" CTRL = ANY 3270 WRITE CONTROL CHARACTER
(52)	.... .1..		OSPTMN	"X'04'" MAP = MAP NAME
(52)	.... ..1.		OSPTSA	"X'02'" MSETADR = SYMBOLIC ADDRESS OR PSETADR = ADDRESS
(52)	1		OSPTSN	"X'01'" MAPSET = MAP SET NAME
(53)	BITSTRING	1	OSPTR4	TYPE OF REQUEST BYTE 4
(53)	11..		OSPTDY	"X'C0'" DATA = YES
(53)	.1..		OSPTDN	"X'40'" DATA = NO

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(53)	..1.		OSPTRS	"X'20'" TYPE = SAVE
(53)	...1		OSPTMA	"X'10'" MAPADR = SYMBOLIC ADDRESS
(53)	.... 1...		OSPTRW	"X'08'" TYPE = WAIT
(53)	.... .1..		OSPTRM	"X'04'" TYPE = MAP
(53)	.... ..1.		OSPTRE	"X'02'" TYPE = ERASE
(53)	1		OSPTRI	"X'01'" TYPE = IN
(54)	BITSTRING	1	OSPTR5	TYPE REQUEST BYTE 5
(54)	1...		OSPTRB	"X'80'" TYPE = PAGEBLD
(54)	.1..		OSPTOF	"X'40'" OFLOW = SYMBOLIC ADDRESS
(54)	..1.		OSPTEU	"X'20'" TYPE = ERASEAUP
(54)	...1		OSPTFF	"X'10'" TYPE = FORMFEED
(54)	.... 1...		OSPTRLOC	"X'08'" TYPE = LOCATE_MAP
(54)	.... .1..		OSPTRO	"X'04'" TYPE = OUT
(54)	.... ..1.		OSPTRF	"X'02'" TYPE = STORE
(54)	1		OSPTRU	"X'01'" TYPE = RETURN
(55)	BITSTRING	1	OSPTR6	TYPE REQUEST BYTE 6
(55)	1...		OSPTRP	"X'80'" TYPE = PAGEOUT
(55)	.1..		OSPTCAPG	"X'40'" CTRL = AUTOPAGE
(55)	..1.		OSPTCPG	"X'20'" CTRL = PAGE
(55)	...1		OSPTCRET	"X'10'" CTRL = RETAIN
(55)	.... 1...		OSPTCREL	"X'08'" CTRL = RELEASE
(55)	.... .1..		OSPTWBC	"X'04'" WTBRK = CURRENT
(55)	.... ..1.		OSPTWBA	"X'02'" WTBRK = ALL
(55)	1		OSPEODOP	"X'01'" EODPURG=OPER
(56)	BITSTRING	1	OSPTR7	TYPE REQUEST BYTE 7
(56)	1...		OSPTRX	"X'80'" TYPE = TEXTBLD
(56)	.1..		OSPTHDR	"X'40'" HEADER = SYMBOLIC ADDRESS
(56)	..1.		OSPTTRL	"X'20'" TRAILER = SYMBOLIC ADDRESS
(56)	...1		OSPJUST	"X'10'" JUSTIFY = FIRST, LAST, OR VALUE
(56)	.... 1...		OSPOPRT	"X'08'" API SPECIFIES OUTPARTN
(56)	.... .1..		OSPAPRT	"X'04'" API SPECIFIES ACTPARTN

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(56)	.... ..1.		OSPPGAS	"X'02"' PGA SUPPLIED AT END OF DATA. NOTE: TIOATDL MUST INCLUDE THE LENGTH OF THE PGA IF THIS IS SET
(56)	1		OSPTRN	"X'01"' TYPE = NOEDIT
(57)	BITSTRING	1	OSPTR8	TYPE REQUEST BYTE 8
(57)	1...		OSPIPRT	"X'80"' API SPECIFIES INPARTN
(57)	.1..		OSPMGM	"X'40"' MSR SPECIFIED ON API
(57)	..1.		OSPEIC	"X'20"' EXEC INTERFACE COMMAND
(57)	...1		OSPTFP	"X'10"' FMHPARM = YES OR PARM
(57)	.... 1...		OSPRDA	"X'08"' RDATT = SYMBOLIC ADDRESS
(57)	.... .1..		OSPWRB	"X'04"' WRBRK = SYMBOLIC ADDRESS
(57)	.... ..1.		OSPSIG	"X'02"' SIGNAL = SYMBOLIC ADDRESS
(57)	1		OSPMGC	"X'01"' SEND CONTROL SPECIFIED
(57)	.1.1 1...		OSPTREND	"*" END REQUEST BYTE INFORMATION
(57)	.... 1...		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
(5D)	BITSTRING	1	OSPJFLV	JUSTIFY = FIRST, LAST, OR VALUE
(5D)	1111 1111		OSPJF	"X'FF"' JUSTIFY = FIRST
(5D)	1111 111.		OSPJL	"X'FE"' JUSTIFY = LAST
(5E)	HALFWORD	2	OSPRPL (0)	RECEIVE PARTN LENGTH VALUE
(5E)	HALFWORD	2	OSPCP	CURSOR POSITION
(60)	ADDRESS	4	OSPMA (0)	MAP ADDRESS
(60)	CHARACTER	8	OSPMN (0)	MAP NAME
(60)	CHARACTER	8	OSPPSN (0)	PARTITION SET NAME

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(60)	CHARACTER	8	OSPMCRID (0)	MCR TS DATA ID FOR PURGE
(60)	ADDRESS	4	OSPHDRA (0)	HEADER ADDRESS
(60)	ADDRESS	4	OSPRLA	ROUTE OR RETURNED PAGE LIST ADDRESS
(64)	ADDRESS	4	OSPTRLA (0)	TRAILER ADDRESS
(64)		4	OSPRTI	TIME OR INTERVAL FOR TYPE=ROUTE
(68)	ADDRESS	4	OSPMSA (0)	MAP SET OR PARTNSET ADDRESS
(68)	CHARACTER	8	OSPMSN (0)	MAP SET NAME
(68)	CHARACTER	4	OSPRETID	ROUTE ERROR TERMINAL ID
(6C)	BITSTRING	1	OSPFLAG	PROGRAM SWITCH TPP/TPR
(6D)	CHARACTER	3	OSPOC	OPERATOR CLASS
(70)	CHARACTER	2	OSPLDM	LDC OR OUTPARTN LDC MNEMONIC IF LDC ON API, OR OUTPARTN NAME IF LDC NOT ON API AND SEND REQUEST, OR INPARTN IF RECEIVE MAP, OR PARTN IF RECEIVE PARTN
(72)	BITSTRING	1	OSPLDC	LDC CODE
(73)	CHARACTER	2	OSPREQID	TEMPORARY STORAGE RECOVERY PREFIX
(75)	CHARACTER	2	OSPAPNM	ACTPARTN NAME
(77)	CHARACTER	1	OSPAPID	ACTPARTN PID
(78)	CHARACTER	8	OSPFMP	FMHPARM FROM DFHBMS
(80)	CHARACTER	4	OSPMSR	MSR OPTION BYTES
(84)	FULLWORD	4	OSPR14SV	SAVE R14 TPP/TPR
(88)	CHARACTER	4		RESERVED
(88)	1... 11..		OSPSVEND	"*" END BMS DATA FROM TCA
(88)	..11 11..		OSPSVLEN	"OSPSVEND-OSPSVDTA" MACRO REQUEST INFORMATION LENGTH
BUILD AREA FOR TEMP STORAGE KEYS				
(8C)	CHARACTER	12	OSPTSKEY (0)	TEMP STG KEY OF PAGE OR MCR + CHAIN LEVEL + PAGE NO
(8C)	CHARACTER	8	OSPTSID (0)	TEMPORARY STORAGE KEY OF PAGE OR MACRO
(8C)	CHARACTER	2	OSPTSPFX	T. S. RECOVERY PREFIX

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8E)	BITSTRING	1	OSPTSPID	TEMPORARY STORAGE IDENTIFICATION FOR PAGES
(8E)	1111 11.1		OSPBMTSI	"X'FD'" BMS TEMPORARY STORAGE GENERIC ID
(8F)	BITSTRING	3	OSPLMID	LOGICAL MESSAGE ID
(92)	CHARACTER	1	OSPLMTTS	TERMINAL TYPE SUFFIX OF PAGE
(93)	BITSTRING	1	OSPTSQUL	TEMP STORAGE QUALIFICATION EVEN NO. FOR MCR ODD NO. FOR PAGE QUEUE
(93)	1		OSPX01	"X'01'" TO CHANGE MCR'S ID TO ONE FOR CORRESPONDING PAGE QUEUE
(94)	BITSTRING	1	OSPPGCN	PAGE CHAIN NUMBER FOR OUTPUT CHAINING
(96)	HALFWORD	2	OSPPGNO	PAGE NUMBER
BMS WORK AREAS				
(98)	DBL WORD	8	OSPWADW	DOUBLE-WORD WORK AREA
(A0)	FULLWORD	4	OSPWAF1	FULLWORD WORK AREA
(A4)	FULLWORD	4	OSPWAF2	FULLWORD WORK AREA
(A8)	ADDRESS	4	OSPCTTP	ADDRESS OF CURRENTLY ACTIVE TTP
(AC)	ADDRESS	4	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

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(D8)	ADDRESS	4	OSPRETPG	RETURNED PAGE LIST ADDRESS
(DC)	ADDRESS	4	OSPSFWSV	->ATTR.STRIP 3270E O/B.
(E0)	ADDRESS	4	OSPPLT1	A(1ST SEGMENT OF PAGE/LDC TABLE)
(E4)	ADDRESS	4	OSPPLTL	A(LAST SEGMENT OF PAGE/LDC TABLE)
(E4)	.... ..1.		OSPPLTES	"2" EXTENDED PAGE/LDC TABLE ENTRY SIZE
(E4)	1...		OSPPLTNE	"128" NUMBER OF ENTRIES IN PAGE/LDC TABLE
OSPPLTES OSPPLTNE MUST NOT EXCEED 256				
(E8)	ADDRESS	4	OSP_BRIDGE_FACILITY	ADDRESS OF BFB
SHORT TERM WORKAREAS, USED ONLY IN RLRLDCTT SUBROUTINE				
(EC)	CHARACTER	1	OSPWKB1	RLRLDCTT WORK AREA 1
(ED)	CHARACTER	1	OSPWKB2	RLRLDCTT WORK AREA 2
(EE)	CHARACTER	2	OSPDELDM	DEFAULT LDC MNEMONIC FROM MAP SET
(F0)	CHARACTER	2	OSPETLDC	ERROR TERMINAL'S LDC MNEMONIC
(F2)	HALFWORD	2	OSPTTCNT	TERMINAL TYPE PARAMETER COUNT
(F4)	HALFWORD	2	OSPTOTPG	TOTAL PAGE COUNT (3601)
(F6)		4	OSPTDEL	INTERVAL OR TIME OF DELIVERY
(FA)	CHARACTER	4	OSPDDEL	DATE OF DELIVERY
(FE)	CHARACTER	4	OSPTERID	ID OF TERMINAL TO GET ERROR NOTICE
(102)	CHARACTER	3	OSPOPRCL	OPERATOR CLASS
(105)	BITSTRING	1	OSPIND01	OUTPUT SERVICE PROCESSOR (OSP)
(105)	1...		OSPOPPND	"X'80'" OUTPUT PENDING IN PAGE BUFFERS
(105)	.1..		OSPRTE	"X'40'" LOGICAL MESSAGE UNDER ROUTE REQUEST
(105)	..1.		OSPDELI	"X'20'" DELIVERY TIME IS INTERVAL
(105)	...1		OSPIRPGL	"X'10'" INITIATE RETURN PAGE LIST, IF NECESSARY
(105)	.... 1...		OSPLMPB	"X'08'" LOGICAL MESSAGE IN PAGEBLD MODE
(105)	.... .1..		OSPLMTB	"X'04'" LOGICAL MESSAGE IN TEXTBLD MODE

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(105)	.... ..1.		OSPWAPGO	"X'02'" PAGE OVERFLOW IN PROCESS
(105)	1		OSPDWEP	"X'01'" DWE PROCESSING IN PROGRESS
(106)	BITSTRING	1	OSPIND02	OSPWA INDICATOR BYTE 02
(106)	1...		OSPBMSSM	"X'80'" BMS - SYSTEM MESSAGE
(106)	.1..		OSPPL1	"X'40'" REQUESTING PROGRAM IS PL/I
(106)	..1.		OSPLTA	"X'20'" LEAVE TCTTEDA - BECAUSE TPP ISSUED WRITE WITHOUT A WAIT
(106)	...1		OSPRUWA	"X'10'" RESET UWA STRFIELD HAS BEEN USED IN THIS TRANSACTION
(106)	.... 1...		OSPSRTA	"X'08'" SUCCESSFUL 'RESET TO AUTOMATIC PAGING
(106)	.... .1..		OSPLDCOB	"X'04'" LDC MNEMONIC ORIGINLY BLANK
(106)	.... ..1.		OSPNOMDL	"X'02'" DO NOT USE MAPSET DEF LDC
(106)	1		OSPASCSZ	"X'01'" USE ALTERNATE SCREEN/PAGE SIZE
(107)	BITSTRING	1	OSPIND03	OSPWA INDICATOR BYTE 03
(107)	1...		OSPLMLDC	"X'80'" LOGICAL MESSAGE USES LDCS
(107)	.1..		OSPLMPRT	"X'40'" LOGICAL MESSAGE USES PARTITIONS
(107)	..1.		OSP3270E	"X'20'" 3270E INBOUND, SET BY MCP TESTED BY MIN
(107)	...1		OSPNDDS	"X'10'" DEVICE DEPENDENT SUFFIXING NOT REQD
(107)	.... 1...		OSPTRAN	"X'08'" TIOA ALLOWS FOR TRANS- PARENCY. PASSED BY DFHTOM TO DFHPHP
(107)	.... .1..		OSPDFMAL	"X'04'" PRE 1.6 MAPS ALIGNED
(107)	.... ..1.		OSPCUMAL	"X'02'" CURRENT MAP IS ALIGNED
(107)	1		OSPNOMAP	"X'01'" BYPASS INPUT MAPPING - SET

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(108)	BITSTRING	1	OSPIND04	OSPWA INDICATOR BYTE 04
(108)	1...		OSPDFHE	"X'80'" PRE R1.7 EDF MAP
(108)	.1..		OSPNOSC	"X'40'" REMOVE SO/SI CHARS IN DATA BY MCP RECEIVE ROUTINE
(108)	..1.		OSPSOSIM	"X'20'" SO/SI ATTRIBUTE EXISTENCE
(108)	...1		OSPFOLD	"X'10'" UPPER CASE TRANSLATION NEEDED
(108)	.... 1...		OSPUEDIT	"X'08'" GLUE can be called
(109)	BITSTRING	1	OSPADISP	CURRENTLY ACTIVE DISPOSITION
(10A)	BITSTRING	1	OSPDDISP	DIRECT (ORIGINATING TERMINAL) DISPOSITION
(10B)	BITSTRING	1	OSPRDISP	ROUTING DISPOSITION
(10C)	HALFWORD	2	OSPMAL	MAP ATTRIBUTE LENGTH
(10E)	HALFWORD	2	OSPDAL	DATA STRUCTURE ATTRIBUTE LENGTH
(110)	HALFWORD	2	OSPMHLL	OFFSET TO FIRST MAP FIELD
(112)	BITSTRING	4	OSPPFWRK (0)	PAGE FORMATTING WORK AREA
OSPPFWRK'S FIELDS ARE SEQUENCE SENSITIVE TO THE FIELDS IN TTPPFWRK				
(112)	BITSTRING	1	OSPPFCL	CURRENT LINE POINTER
(113)	BITSTRING	1	OSPPFNFL	NEXT AVAILABLE FULL LINE POINTER
(114)	BITSTRING	1	OSPPFNCL	NEXT AVAILABLE COLUMN FROM LEFT
(115)	BITSTRING	1	OSPPFNCR	NEXT AVAILABLE COLUMN FROM RIGHT
TERMINAL PAGE RETRIEVAL PROGRAM COMMAND BUILD AREA				
(115)		0	OSPTPCBA	"*"
(116)	BITSTRING	1	OSPTPCO1	COMMAND BYTE 1
(117)	BITSTRING	1	OSPTPCO2 (0)	COMMAND BYTE 2
(117)	BITSTRING	1	OSPTPPOS	POSITION BYTE (RETRIEVE, PURGE)
(118)	BITSTRING	1	OSPTPCHN	CHAIN NUMBER
(11A)	HALFWORD	2	OSPTPPAG	PAGE NUMBER
(11A)	.... .11.		OSPTPLEN	"*-OSPTPCBA" COMMAND BUILD AREA LENGTH
BMS RETURN INFORMATION				
(11A)		0	OSPRISTR	"*"
(11C)	BITSTRING	1	OSPRC1	RETURN CODE BYTE ONE

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(11C)	1...		OSPRF	"X'80'" ROUTE FAILED - NO RESOLUTIONS
(11C)	.1..		OSPRW	"X'40'" ROUTE WORKED - SOME RESOLUTIONS
(11C)	..1.		OSPIET	"X'20'" INVALID ERROR TERMINAL
(11C)	.... 1...		OSPMTL	"X'08'" MAP TOO LARGE
(11C)	.... .1..		OSPCBM	"X'04'" I/O AREA CANNOT BE MAPPED
(11C)	.... ..1.		OSPRPI	"X'02'" PAGE RETURNED INDICATOR
(11C)	1		OSPIR	"X'01'" INVALID REQUEST
(11C)	....		OSPNR1	"X'00'" NORMAL RESPONSE
(11D)	BITSTRING	1	OSPRC2	RETURN CODE BYTE TWO
(11D)	1...		OSPTSIOE	"X'80'" TEMPORARY STORAGE I/O ERROR
(11D)	.1..		OSPREQCD	"X'40'" REQUEST CHANGE DIRECTION ERROR
(11D)	..1.		OSPUXI	"X'20'" UNEXPECTED INPUT
(11D)	...1		OSPIMN	"X'10'" INVALID LDC MNEMONIC
(11D)	.... 1...		OSPIPS	"X'08'" INVALID PARTITION SET NAME
(11D)	.... .1..		OSPIPN	"X'04'" INVALID PARTITION NAME
(11D)	.... ..1.		OSPIPF	"X'02'" PARTITION FAIL
(11D)	1		OSPDSS	"X'01'" DATASET STATUS CHANGE
(11E)	BITSTRING	1	OSPRC3	RETURN CODE BYTE THREE
(11E)	..1.		OSPTSITM	"X'20'" TS ITEMERR CODE
(11E)	...1		OSPIGRQI	"X'10'" SPECIFIED 'REQID' IGNORED
(11E)	.... 1...		OSPEOC	"X'08'" END-OF-CHAIN IN LAST INPUT
(11E)	.... .1..		OSPEODS	"X'04'" END-OF-DATA-SET LAST INPUT
(11E)	.... ..1.		OSPIFH	"X'02'" INBOUND FMH IN LAST INPUT
(11E)	1		OSPOI	"X'01'" PAGEBLD OVERFLOW INDICATOR
(11F)	BITSTRING	1	OSPRI1	RETURN INFORMATION BYTE ONE CONTAINS TERMINAL CODE (TC)

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(120)	BITSTRING	4	OSPPOF (0)	PAGEBLD OVERFLOW INFORMATION
(120)	BITSTRING	2	OSPPGN	CURRENT PAGE NUMBER
(122)	BITSTRING	2	OSPOCN	OVERFLOW CONTROL NUMBER
(122)		0	OSPCRIE	"*" END TCA CONTIG RETURN INFO
(122)	.... 1...		OSPCRIL	"OSPCRIE-OSPRISTR" CONTIG RETURN INFO LENGTH
(124)	CHARACTER	2	OSPMSLDM	PARTNPAGE/LDC MNEMONIC
(126)	BITSTRING	1		RESERVED
(126)		0	OSPRIEND	"*"
(126)	.... 1.11		OSPRILEN	"OSPRIEND-OSPRISTR" BMS RETURN INFORMATION LENGTH
REGISTER SAVE AREAS - PART TWO				
(128)	FULLWORD	4	OSPRSA (14)	APPLICATION PROGRAM REGISTER SAVE AREA
(160)	FULLWORD	4	OSPCPSA (14)	BMS CONTROL PROGRAM REGISTER SAVE AREA
(198)	CHARACTER	256	OSPTRTWA	TRT TABLE & WORK AREA
WORK AREAS AND STATUS DATA WHICH IS NOT CLEARED ON SEND PAGE OR PURGE MESSAGE				
(298)	FULLWORD	4	OSPLBR6	R6 VALUE AT LAST BLANK
(29C)	FULLWORD	4	OSPLBR8	R8 VALUE AT LAST BLANK
(2A0)	FULLWORD	4	OSPLBR9	R9 VALUE AT LAST BLANK
(2A4)	BITSTRING	1	OSPLBNCL	NEXT AVAILABLE COL FROM LEFT AT LAST BLANK
(2A5)	BITSTRING	3		RESERVED
(2A8)	ADDRESS	4	OSPCPSTP	ADDRESS OF INCORE PARTITION SET
(2AC)	CHARACTER	2	OSPINPNM	NAME OF ACTUAL INPUT PARTITION
(2AE)	CHARACTER	1	OSPINPID	PID OF ACTUAL INPUT PARTITION
(2AF)	CHARACTER	1	OSPRCODE	DFHPH RETURN CODE VALUE
(2B0)	HALFWORD	2	OSPRCVCT	RECEIVE MAP COUNT FOR EXPECTED INPUT PARTITION TRAP

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	1...		OSPMLVB	"X'80"' VERTICAL TABS USED
(2E6)	.1..		OSPMLHB	"X'40"' HORIZONTAL TABS USED
(2E7)	BITSTRING	1	OSPMLFR	ML1 SAVE OUTLINE ATTRIBUTE
(2E8)	ADDRESS	4	OSPMCBSV	MCB SAVE ADDRESS
(2EC)	HALFWORD	2	OSPMCAAP	OFFSET IN MCB OF APPLICATION PSET
(2EE)	CHARACTER	2	OSPTPPID	INPUT PID FOR TPR
(2F0)	HALFWORD	2	OSPTPTDL	INPUT DATA LENGTH (LESS 3270E INBOUND CONTROLS) FOR TPR
(2F4)	ADDRESS	4	OSPTPUDA	ADDRESS OF TPR INPUT DATA
(2F8)	CHARACTER	1	OSPTPAID	TPR INPUT AID
(2F9)	CHARACTER	1	OSPETBSV	SAVED IN TOM ATTR.STRIP
(2FA)	CHARACTER	2	OSPCPRTN	LAST PARTN= SLOT_VALUE
(2FC)	ADDRESS	4	OSPTOPTR	PTR-> INPUT MAPPING TIOA IN M32
(300)	ADDRESS	4	OSPCROSP	A(SAVED OSPWA), IF TPR USES BMS WHILE CTRL=RETAIN
(304)	ADDRESS	4	OSPOVTTP	OVERFLOW TTP
(308)	ADDRESS	4	OSPSVTTP	REQUEST TTP WHILE OFTTP IS CURRENT.
(30C)	CHARACTER	12	OSPLBXA (0)	

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	1...		OSPCUACL	"X'80'" INDICATES CURSOR LOCATED
(332)	.1..		OSPCUAEP	"X'40'" INDICATES END OF CUA PROCESSING
(332)	..1.		OSPCUASR	"X'20'" INDICATES SHORT READ
(332)	...1		OSPCUAIF	"X'10'" INDICATES CUR IN THIS FLD
The following area accumulates 3270 data field information for the BMS global user exits. Changes to this area must be reflected in DFHMCPE & 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
(353)	BITSTRING	1	BMXFDFB	field data flag byte
(354)	HALFWORD	2	BMXMAPLN	length of field in map
(356)	HALFWORD	2	BMXACTLN	length of data recvd/sent
(358)	ADDRESS	4	BMXDATA	address of field in TIOA
(35C)	ADDRESS	4	BMXATTR	address of attrs in TIOA
(360)	HALFWORD	2	BMXMAPOF	offset of field in MAP
(362)	HALFWORD	2	BMXBUF	offset of field in buffer
(362)	..1.		BMXLEN	"*-BMXELEM" length of element
(362)	...1 ...1		BMXVAR	"*-BMXFDFB" length of variable info
(364)	CHARACTER	256	BMXINTAB (8)	internal array
(464)	HALFWORD	2	MAXCOUNT	Max size of BMXCOUNT
(466)	HALFWORD	2		Reserved
(466)		0	OSPEND	"*" OSPWA END

Table 448. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(466)		0	OSPLEN	"OSPEND-OSPSTART" LENGTH OF OSPWA

PCE - Program control EXEC argument list

```
CONTROL BLOCK NAME = DFHPCEDS
DESCRIPTIVE NAME = CICS TS Program Control EXEC argument list
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1990, 2004
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 449.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	PC_ADDR_LIST	EXEC Parameter List
(0)	ADDRESS	4	PC_ADDR0	Address 0
(4)	ADDRESS	4	PC_ADDR1	Address 1
(8)	ADDRESS	4	PC_ADDR2	Address 2
(C)	ADDRESS	4	PC_ADDR3	Address 3
(10)	ADDRESS	4	PC_ADDR4	Address 4
(14)	ADDRESS	4	PC_ADDR5	Address 5
(18)	ADDRESS	4	PC_ADDR6	Address 6
(1C)	ADDRESS	4	PC_ADDR7	Address 7
(20)	ADDRESS	4	PC_ADDR8	Address 8
(24)	ADDRESS	4	PC_ADDR9	Address 9
(28)	ADDRESS	4	PC_ADDRA	Address 10
(28)	..1. 11..		PC_ADDR_LIST_LEN	"*-PC_ADDR_LIST"

```
PC_EID defines:
  (1) The type of request
  (2) Existence bits indicating which addresses in the EXEC
      Parameter List are valid.
  (3) Bits to indicate the keywords specified.
PC_ADDR0 contains the address of PC_EID.
The following bits may be modified in a Program Control user exit.
  (1) Existence bits PC_EXIST2,
                     PC_EXIST3,
                     PC_EXIST4,
                     PC_EXIST5,
                     PC_EXIST6,
                     PC_EXIST7,
                     PC_EXIST8 and
```

```
                                                PC_EXISTA
                                  (2) The keyword descriptor PC_SYNCONRET_X.
                                Any attempt to modify any other part of PC_EID will be ignored.
```

Table 450.

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)	.... 111.		PC_PROGRAM_GRP	"X'0E'" All Program Control Requests ...
(1)	CHARACTER	1	PC_FUNCT	Function Code
(1)	.... ..1.		PC_LINK	"X'02'" LINK Request
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)	1...		PC_EXIST1	"X'80'" PC_ADDR1 is valid if the command specifies PROGRAM.
(2)	.1..		PC_EXIST2	"X'40'" PC_ADDR2 is valid if the command specifies COMMAREA. This bit may be modified by a user exit.
(2)	..1.		PC_EXIST3	"X'20'" PC_ADDR3 is valid if the command specifies LENGTH. This bit may be modified by a user exit.
(2)	...1		PC_EXIST4	"X'10'" PC_ADDR4 is valid if the command specifies INPUTMSG. This bit may be modified by a user exit.
(2)	.... 1...		PC_EXIST5	"X'08'" PC_ADDR5 is valid if the command specifies INPUTMSGLEN. This bit may be modified by a user exit.
(2)	.... .1..		PC_EXIST6	"X'04'" PC_ADDR6 is valid if the command specifies DATALENGTH. This bit may be modified by a user exit.
(2)	.... ..1.		PC_EXIST7	"X'02'" PC_ADDR7 is valid if the command specifies SYSID. This bit may be modified by a user exit.
(2)	1		PC_EXIST8	"X'01'" PC_ADDR8 is valid if the command specifies TRANSID. This bit may be modified by a user exit.
(3)	BITSTRING	1	PC_BITS2	Second eight existence bits

Table 450. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(3)	1...		PC_EXIST9	"X'80'" This bit is not used
(3)	.1..		PC_EXISTA	"X'40'" PC_ADDRA is valid if the command specifies CHANNEL. This bit may be modified by a user exit.
	The next byte is reserved.			
(4)	BITSTRING	1	PC_EIDOPT4	Reserved
	The next 2 bytes describe the keywords on the command For example, if PC_SYNCONRET_X is set on, the command included the SYNCONRETURN keyword. If PC_SYNCONRET_X is set off, the command did not include the SYNCONRETURN keyword.			
(5)	BITSTRING	1	PC_EIDOPT5	Options Byte 1
(6)	BITSTRING	1	PC_EIDOPT6	Options byte 2
(6)	1...		PC_SYNCONRET_X	"X'80'" SYNCONRETURN specified

```
The following definitions define the variables addressed by the
remainder of the EXEC parameter list
   PC_ADDR1 addresses program name
```

Table 451.

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 452.

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 453.

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 454.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	PC_DATA6	Addressed by PC_ADDR6

Table 454. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	HALFWORD	2	PC_DATALENGTH	Area For DATALENGTH

```
PC_ADDR7 addresses SYSID
```

Table 455.

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 456.

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 457.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	PC_DATAA	Addressed by PC_ADDRA
(0)	CHARACTER	16	PC_CHANNEL	Area For CHANNEL name
Start of general use programming interface. EIBRCODE, EIBRESP and EIBRESP2 Equates for EIBRCODE values used by Program Control				
(10)	BITSTRING	6	PC_OK_EIBRCODE	OK
(10)	1		PC_PGMIDERR_EIBRCODE	"X'01'"
(10)	.111 1.1.		PC_CHANNELERR_ EIBRCODE	"X'7A'"
(10)	11.1		PC_SYSIDERR_EIBRCODE	"X'D0'"
(10)	111.		PC_INVREQ_EIBRCODE	"X'E0'"
(10)	111. ...1		PC_LENGERR_EIBRCODE	"X'E1'"
(10)	1111 ...1		PC_TERMERR_EIBRCODE	"X'F1'"
(10)	11.1 1..1		PC_RESUNAVAIL_ EIBRCODE	"X'D9'"
Equates for EIBRESP values used by Program Control				
(10)	....		PC_OK_EIBRESP	"0" OK
(10)	...1		PC_INVREQ_EIBRESP	"16" invalid request
(10)	...1 .11.		PC_LENGERR_EIBRESP	"22" length error
(10)	...1 1.11		PC_PGMIDERR_EIBRESP	"27" program id error
(10)	..11 .1.1		PC_SYSIDERR_EIBRESP	"53" system id error
(10)	.1.. .11.		PC_NOTAUTH_EIBRESP	"70" not authorised
(10)	.1.1 ...1		PC_TERMERR_EIBRESP	"81" terminal error
(10)	.111 1..1		PC_RESUNAVAIL_EIBRESP	"121" Resource unavailable
(10)	.111 1.1.		PC_CHANNELERR_EIBRESP	"122" Channel error
Equates for EIBRESP2 values used by Program Control				

Table 457. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10)	....		PC_OK_EIBRESP2	"0" OK
(10)	1		PC_CHANNELERR_ EIBRESP2	"1" Invalid CHANNEL name
(10)	1		PC_PGMIDERR_1_ EIBRESP2	"1" PPT entry not located
(10)	.... ..1.		PC_PGMIDERR_2_ EIBRESP2	"2" program disabled
(10)	11		PC_PGMIDERR_3_ EIBRESP2	"3" program not found in load library
(10)	.... 1...		PC_INVREQ_1_EIBRESP2	"8" INPUTMSG without terminal
(10)	.... 1.11		PC_LENGERR_1_EIBRESP2	"11" LENGTH < 0
(10)	.... 11..		PC_LENGERR_2_EIBRESP2	"12" DATALENGTH < 0
(10)	.... 11.1		PC_LENGERR_3_EIBRESP2	"13" DATALENGTH > LENGTH
(10)	.... 111.		PC_INVREQ_2_EIBRESP2	"14" SYNCONRETURN invalid
(10)	 1111		PC_INVREQ_3_EIBRESP2	"15" TRANSID invalid
(10)	...1		PC_INVREQ_4_EIBRESP2	"16" TRANSID blank
(10)	...1 ...1		PC_TERMERR_1_EIBRESP2	"17" TERMERR raised
(10)	...1 ..1.		PC_SYSIDERR_1_ EIBRESP2	"18" SYSIDERR raised
(10)	...1 ..11		PC_INVREQ_5_EIBRESP2	"19" INPUTMSG specified on DPL request
(10)	...1 .1..		PC_SYSIDERR_2_ EIBRESP2	"20" DPL not supported over LU6.1
(10)	...1 .1.1		PC_SYSIDERR_3_ EIBRESP2	"21" Type of request not supported by receiver e.g. LINK CHANNEL to be executed a CICS that does not support CHANNEL
(10)	.11. .1.1		PC_NOTAUTH_1_EIBRESP2	"101" resource security check failed
End of general use programming interface.				

PEP - Program error program commarea

```
Descriptive Name = Commarea for User Program Error Program
    Licensed Materials - Property of IBM
     Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1989, 2015
Function =
     Commarea for PEP; created by DFHACP, passed to User PEP
Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = 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 458.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1072	DFHPEP_COMMAREA	
Standard header section				
(0)	CHARACTER	4	PEP_COM_STANDARD	
(0)	CHARACTER	1	PEP_COM_FUNCTION	always '1'
(1)	CHARACTER	2	PEP_COM_COMPONENT	always 'PC'
(3)	CHARACTER	1	PEP_COM_RESERVED	Reserved
Abend codes and EIB				
(4)	CHARACTER	4	PEP_COM_CURRENT_ ABEND_CODE	current abcode
(8)	CHARACTER	4	PEP_COM_ORIGINAL_ ABEND_CODE	original abcode
(C)	CHARACTER	85	PEP_COM_USERS_EIB	EIB at abend
Debugging information				
(64)	CHARACTER	84	PEP_COM_DEBUG	
(64)	CHARACTER	8	PEP_COM_ABPROGRAM	ABENDing program
(6C)	CHARACTER	8	PEP_COM_PSW	PSW at abend
(74)	UNSIGNED	4	PEP_COM_ REGISTERS (16)	regs at abend
(B4)	UNSIGNED	1	PEP_COM_KEY	execution key in form x'0n' (ASRA and ASRB)
(B5)	UNSIGNED	1	PEP_COM_STORAGE_HIT	storage hit by 0C4 (ASRA only)
(B6)	UNSIGNED	1	PEP_COM_SPACE	sub/basespce
(B7)	CHARACTER	1	PEP_COM_PADDING	Reserved
Return code - return ok or disable transaction				
(B8)	UNSIGNED	4	PEP_COM_RETURN_CODE	
Additional PSW EC mode information				
(BC)	CHARACTER	8	PEP_COM_INT	PSW interrupt codes
(C4)	ADDRESS	4	*	Reserved
Breaking Event Address				
(C8)	ADDRESS	8	PEP_COM_BEAR	Breaking Event Address

Table 458. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
Additional Register Information				
(D0)	BIT(8)	1	PEP_COM_FLAG1	Existence bits
(D0)	1...		PEP_COM_GP64_REGS_ AVAIL	64-bit GPR
(D0)	.1..		PEP_COM_ACCESS_REGS_ AVAIL	Access regs
(D0)	..1.		PEP_COM_ORIGINAL_ FPR_AVAIL	Original FPR
(D0)	...1		PEP_COM_ADDITIONAL_ FPR_AVAIL	Additional FPR
(D0)	 1111		*	
(D1)	CHARACTER	7	*	
(D8)	ADDRESS	8	PEP_COM_GP64_ REGISTERS (16)	64-bit GPR
(158)	CHARACTER	132	PEP_COM_FP_REGISTERS	FPR values
(158)	ADDRESS	8	PEP_COM_FP_REGISTER0	FP Register 0
(160)	ADDRESS	8	PEP_COM_FP_REGISTER1	FP Register 1
(168)	ADDRESS	8	PEP_COM_FP_REGISTER2	FP Register 2
(170)	ADDRESS	8	PEP_COM_FP_REGISTER3	FP Register 3
(178)	ADDRESS	8	PEP_COM_FP_REGISTER4	FP Register 4
(180)	ADDRESS	8	PEP_COM_FP_REGISTER5	FP Register 5
(188)	ADDRESS	8	PEP_COM_FP_REGISTER6	FP Register 6
(190)	ADDRESS	8	PEP_COM_FP_REGISTER7	FP Register 7
(198)	ADDRESS	8	PEP_COM_FP_REGISTER8	FP Register 8
(1A0)	ADDRESS	8	PEP_COM_FP_REGISTER9	FP Register 9
(1A8)	ADDRESS	8	PEP_COM_FP_REGISTER10	FP Register 10
(1B0)	ADDRESS	8	PEP_COM_FP_REGISTER11	FP Register 11
(1B8)	ADDRESS	8	PEP_COM_FP_REGISTER12	FP Register 12
(1C0)	ADDRESS	8	PEP_COM_FP_REGISTER13	FP Register 13
(1C8)	ADDRESS	8	PEP_COM_FP_REGISTER14	FP Register 14
(1D0)	ADDRESS	8	PEP_COM_FP_REGISTER15	FP Register 15
(1D8)	ADDRESS	4	PEP_COM_FPC_REGISTER	FPC register
(1DC)	ADDRESS	4	PEP_COM_ACCESS_ REGISTERS (16)	Access Registers
(21C)	ADDRESS	4	*	Spare
16 byte PSW at time of abend				
(220)	CHARACTER	16	PEP_COM_PSW16	16 byte PSW
Vector Register Information @R106414A				
(230)	CHARACTER	512	PEP_COM_VR_REGISTERS	VRR values
(230)	CHARACTER	16	PEP_COM_VR_REGISTER0	VR Register 0
(240)	CHARACTER	16	PEP_COM_VR_REGISTER1	VR Register 1
(250)	CHARACTER	16	PEP_COM_VR_REGISTER2	VR Register 2
(260)	CHARACTER	16	PEP_COM_VR_REGISTER3	VR Register 3
(270)	CHARACTER	16	PEP_COM_VR_REGISTER4	VR Register 4

Table 458. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(280)	CHARACTER	16	PEP_COM_VR_REGISTER5	VR Register 5
(290)	CHARACTER	16	PEP_COM_VR_REGISTER6	VR Register 6
(2A0)	CHARACTER	16	PEP_COM_VR_REGISTER7	VR Register 7
(2B0)	CHARACTER	16	PEP_COM_VR_REGISTER8	VR Register 8
(2C0)	CHARACTER	16	PEP_COM_VR_REGISTER9	VR Register 9
(2D0)	CHARACTER	16	PEP_COM_VR_REGISTER10	VR Register 10
(2E0)	CHARACTER	16	PEP_COM_VR_REGISTER11	VR Register 11
(2F0)	CHARACTER	16	PEP_COM_VR_REGISTER12	VR Register 12
(300)	CHARACTER	16	PEP_COM_VR_REGISTER13	VR Register 13
(310)	CHARACTER	16	PEP_COM_VR_REGISTER14	VR Register 14
(320)	CHARACTER	16	PEP_COM_VR_REGISTER15	VR Register 15
(330)	CHARACTER	16	PEP_COM_VR_REGISTER16	VR Register 16
(340)	CHARACTER	16	PEP_COM_VR_REGISTER17	VR Register 17
(350)	CHARACTER	16	PEP_COM_VR_REGISTER18	VR Register 18
(360)	CHARACTER	16	PEP_COM_VR_REGISTER19	VR Register 19
(370)	CHARACTER	16	PEP_COM_VR_REGISTER20	VR Register 20
(380)	CHARACTER	16	PEP_COM_VR_REGISTER21	VR Register 21
(390)	CHARACTER	16	PEP_COM_VR_REGISTER22	VR Register 22
(3A0)	CHARACTER	16	PEP_COM_VR_REGISTER23	VR Register 23
(3B0)	CHARACTER	16	PEP_COM_VR_REGISTER24	VR Register 24
(3C0)	CHARACTER	16	PEP_COM_VR_REGISTER25	VR Register 25
(3D0)	CHARACTER	16	PEP_COM_VR_REGISTER26	VR Register 26
(3E0)	CHARACTER	16	PEP_COM_VR_REGISTER27	VR Register 27
(3F0)	CHARACTER	16	PEP_COM_VR_REGISTER28	VR Register 28
(400)	CHARACTER	16	PEP_COM_VR_REGISTER29	VR Register 29
(410)	CHARACTER	16	PEP_COM_VR_REGISTER30	VR Register 30
(420)	CHARACTER	16	PEP_COM_VR_REGISTER31	VR Register 31

Constants

Table 459.

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
1	DECIMAL	2	PEP_COM_ECDSA_HIT	ECDSA hit

Table 459. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	3	PEP_COM_ERDSA_HIT	ERDSA hit
1	DECIMAL	4	PEP_COM_RDSA_HIT	RDSA hit
1	DECIMAL	5	PEP_COM_EUDSA_HIT	EUDSA hit
1	DECIMAL	6	PEP_COM_UDSA_HIT	UDSA hit
1	DECIMAL	7	PEP_COM_ETDSA_HIT	ETDSA hit
1	DECIMAL	8	PEP_COM_GCDSA_HIT	GCDSA hit
1	DECIMAL	9	PEP_COM_GUDSA_HIT	GUDSA hit
PEP_COM_KEY values				
1	DECIMAL	9	PEP_COM_USER_KEY	USER key
1	DECIMAL	8	PEP_COM_CICS_KEY	CICS key
PEP_COM_SPACE_ACTIVE values				
1	DECIMAL	10	PEP_COM_SUBSPACE	Error in s/space
1	DECIMAL	11	PEP_COM_BASESPACE	Error in b/space

PCUES - Program control user exits DSECT

```
CONTROL BLOCK NAME = DFHPCUES
DESCRIPTIVE NAME = CICS TS Program control user exits DSECT
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1990, 2012
      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 460.

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	
(2)	1...		PCUECBTE	task has a terminal id
(2)	.1..		PCUENOTX	program is not EXEC level

Table 460. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	..1.		PCUE_REAL	real entry point exists
(2)	...1		PCUE_NO_RESUME	Resume addr not supported
(2)	.... 1...		PCUE_NO_MODIFY	Modified entry addr not supported
(2)	.... .1..		PCUE_NO_RESUME_ AMODE64	AMODE 64 resume address not supported
(2)	11		*	reserved
(3)	BIT(8)	1	*	reserved
(4)	CHARACTER	3	PCUE_TASK_NUMBER	task identification number
(7)	CHARACTER	1	*	reserved
(8)	CHARACTER	4	PCUE_TRANSACTION_ID	Transaction ID
(C)	CHARACTER	4	PCUE_TERMINAL_ID	Terminal ID
(10)	CHARACTER	8	PCUE_PROGRAM_NAME	Program name
(18)	CHARACTER	3	PCUE_PROGRAM_LANGUAGE	Program language
(1B)	CHARACTER	1	*	reserved
(1C)	ADDRESS	4	PCUE_LOAD_POINT	Program load address
(20)	ADDRESS	4	PCUE_ENTRY_POINT	Program entry point addr
(20)	1...		PCUEAMOD	AMODE (31)
(20)	1...		PCAEAMOD_31	AMODE (31)
(20)	BIT(30) POS(2)	4	*	
(23)	1		PCUEAMOD_64	AMODE (64)
(24)	FULLWORD	4	PCUE_PROGRAM_SIZE	Program size
(28)	ADDRESS	4	PCUE_COMMAREA_ADDRESS	Commarea address, if any
(2C)	FULLWORD	4	PCUE_COMMAREA_SIZE	Commarea size
(30)	FULLWORD	4	PCUE_LOGICAL_LEVEL	chained DFHRSADS
(34)	ADDRESS	4	PCUE_BRANCH_ADDRESS	Alternate branch address
(34)	1...		PCUE_BRANCH_AMODE	AMODE of program at branch
(34)	BIT(31) POS(2)	4	*	
(38)	BIT(8)	1	PCUE_BRANCH_EXECKEY	Execution key to be used at modified address
(39)	CHARACTER	3	*	Reserved
(3C)	ADDRESS	4	PCUE_REAL_ENTRY	Real entry point for LE program
(40)	CHARACTER	16	PCUE_CHANNEL_NAME	Channel name

Constants

Table 461.

Len	Type	Value	Name	Description
Constants used by XPCFTCH, XPCHAIR and XPCTA				
1	HEX	80	PCUE_BRANCH_USER	User Key, for XPCTA

Table 461. (continued)

Len	Type	Value	Name	Description
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
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1993, 2012
FUNCTION = Defines the commarea passed by the Program Manager
     autoinstall function to the autoinstall exit program.
     The PGAC control block belongs to the Program Manager (PG)
     domain. The control block is used to pass the name of the
     program and the module type to the exit program and enables
     the user to return information for the program to be
     autoinstalled. Storage for the control block is obtained
     by the autoinstall function (DFHPGAI).
LIFETIME =
     The control block is created when the autoinstall function
     (DFHPGAI) is called. The storage is released on return
     from the autoinstall function.
STORAGE CLASS =
     The control block uses the automatic storage for DFHPGAI.
     This storage is above the line.
LOCATION =
     In the automatic storage for DFHPGAI at the label PGAC.
     The address and length of the control block are passed
     to the program autoinstall exit program via the commarea.
NOTES :
     This control block is provided as a sample and is not to be
     used as a general programming interface. Refer to the
     CICS/ESA Customisation Guide to determine its intended
     usage.
     Matching assembler control block is DFHPGACD
     Matching PL/I control block is DFHPGACL
     Matching COBOL control block is DFHPGACO
     Matching C control block is DFHPGACH
     The control block includes the following fields:
   Input fields:
   PGAC_PROGRAM - name of program to be autoinstalled
   PGAC_MODULE_TYPE - program, mapset or partitionset
   Output fields:
   PGAC_MODEL_NAME - autoinstall model program name
   PGAC_LANGUAGE - assembler, cobol, C370, LE370, PL/I
   PGAC_CEDF_STATUS - cedf status, yes or no
   PGAC_DATA_LOCATION - data location, below or any
   PGAC_EXECUTION_KEY - execution key, CICS or user
   PGAC_LOAD_ATTRIBUTE - reload, transient, resident, reusable
   PGAC_USE_LPA_COPY - use LPA copy, yes or no
   PGAC_EXECUTION_SET - use DPL subset or full API
   PGAC_REMOTE_SYSID - remote system ID
   PGAC_REMOTE_PROGID - remote program name
   PGAC_REMOTE_TRANSID - remote transaction ID
   PGAC_DYNAMIC_STATUS - DPL dynamic or not dynamic
   PGAC_CONCURRENCY - QUASIRENT or THREADSAFE or REQUIRED
   PGAC_API - CICSAPI or OPENAPI
   PGAC_JVM - the program is to be run under the JVM
   PGAC_JVM_CLASS_LENGTH - length of JVM class name data
   PGAC_JVM_CLASS_DATA - allows you to specify, as a 256-byte
                           field, the name of the OSGi service
```

```
                                or Java class to be invoked @R36025C
    PGAC_JVM_JVMSERV - the JVMSERVER resource @R36025C
    PGAC_RETURN_CODE - OK, or don't define the program
    The return fields are initialized to blank on entry to the
    autoinstall exit program.
  DEPENDENCIES = S/390
  RESTRICTIONS = None
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES = None
   DATA AREAS = No fields in the operating system data areas
       are referenced.
   CONTROL BLOCKS = No reference to other control blocks.
-------------------------------------------------------------------
```

Table 462.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	312	PGAC	
(0)	CHARACTER	8	PGAC_PROGRAM	
(8)	CHARACTER	1	PGAC_MODULE_TYPE	
(9)	CHARACTER	34	PGAC_RETURN_ INFORMATION	
(9)	CHARACTER	8	PGAC_MODEL_NAME	
(11)	CHARACTER	1	PGAC_LANGUAGE	
(12)	CHARACTER	1	PGAC_CEDF_STATUS	
(13)	CHARACTER	1	PGAC_DATA_LOCATION	
(14)	CHARACTER	1	PGAC_EXECUTION_KEY	
(15)	CHARACTER	1	PGAC_LOAD_ATTRIBUTE	
(16)	CHARACTER	1	PGAC_USE_LPA_COPY	
(17)	CHARACTER	1	PGAC_EXECUTION_SET	
(18)	CHARACTER	4	PGAC_REMOTE_SYSID	
(1C)	CHARACTER	8	PGAC_REMOTE_PROGID	
(24)	CHARACTER	4	PGAC_REMOTE_TRANSID	
(28)	CHARACTER	1	PGAC_RETURN_CODE	
(29)	CHARACTER	1	PGAC_DYNAMIC_STATUS	
(2A)	CHARACTER	1	PGAC_CONCURRENCY	
Java return information				
(2B)	CHARACTER	1	PGAC_JVM	
(2C)	HALFWORD	2	PGAC_JVM_CLASS_LEN	
(2E)	CHARACTER	256	PGAC_JVM_CLASS_DATA	
(12E)	CHARACTER	1	*	reserved
(12F)	CHARACTER	8	PGAC_JVM_JVMSERV	
(137)	CHARACTER	1	PGAC_RETURN_ INFORMATION2	
(137)	CHARACTER	1	PGAC_API	

Constants

Table 463.

Len	Type	Value	Name	Description
Constants for module type.				
1	CHARACTER	1	PGAC_TYPE_PROGRAM	
1	CHARACTER	2	PGAC_TYPE_MAPSET	
1	CHARACTER	3	PGAC_TYPE_PARTITIONSET	
Constants for language.				
1	CHARACTER	1	PGAC_ASSEMBLER	
1	CHARACTER	2	PGAC_COBOL	
1	CHARACTER	3	PGAC_PLI	
1	CHARACTER	4	PGAC_C370	
1	CHARACTER	5	PGAC_LE370	
Constants for CEDF status.				
1	CHARACTER	1	PGAC_CEDF_YES	
1	CHARACTER	2	PGAC_CEDF_NO	
Constants for data location.				
1	CHARACTER	1	PGAC_LOCATION_BELOW	
1	CHARACTER	2	PGAC_LOCATION_ANY	
Constants for execution key.				
1	CHARACTER	1	PGAC_CICS_KEY	
1	CHARACTER	2	PGAC_USER_KEY	
Constants for load attribute.				
1	CHARACTER	1	PGAC_RELOAD	
1	CHARACTER	2	PGAC_RESIDENT	
1	CHARACTER	3	PGAC_TRANSIENT	
1	CHARACTER	4	PGAC_REUSABLE	
Constants for LPA status.				
1	CHARACTER	1	PGAC_LPA_YES	
1	CHARACTER	2	PGAC_LPA_NO	
Constants for execution set.				
1	CHARACTER	1	PGAC_DPLSUBSET	
1	CHARACTER	2	PGAC_FULLAPI	
Constants for DYNAMIC status.				
1	CHARACTER	1	PGAC_DYNAMIC_YES	
1	CHARACTER	2	PGAC_DYNAMIC_NO	
Constants for CONCURRENCY				
1	CHARACTER	1	PGAC_QUASIRENT	
1	CHARACTER	2	PGAC_THREADSAFE	
1	CHARACTER	3	PGAC_REQUIRED	
Constants for API				

Table 463. (continued)

Len	Type	Value	Name	Description
1	CHARACTER	1	PGAC_CICSAPI	
1	CHARACTER	2	PGAC_OPENAPI	
Constants for JVM				
1	CHARACTER	1	PGAC_JVM_YES	
1	CHARACTER	2	PGAC_JVM_NO	
Constants for the return code.				
1	CHARACTER	1	PGAC_RETURN_OK	
1	CHARACTER	2	PGAC_RETURN_DONT_ DEFINE_PROGRAM	

PGA - BMS page control area DSECT

```
DESCRIPTIVE NAME = CICS TS BMS PAGE CONTROL AREA DSECT
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1981, 2014
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
 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 464.

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

Table 464. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	BITSTRING	1	PGAFLAG	PAGE CONTROL FLAG
(2)	1...		PGAERASE	"X'80'" ...ERASE WITH WRITE
(2)	.1..		PGAOBFYS	"X'40'" ...OBF USED IN THIS PAGE
(2)	.1..		PGAFF	"X'40'" ...FORM FEED ON THIS PAGE
(2)	..1.		PGAML1	"X'20'" ...ML1 FORMATTED THIS PAGE
(2)	.... .1..		PGA16BIT	"X'04'" ...14- OR 16-BIT SBAS
(2)	.... ..1.		PGAWSFYS	"X'02'" ...WSF NEEDED FOR THIS PAGE
(2)	1		PGAFMHYS	"X'01'" ...FMH PRESENT IN THIS PAGE
(3)	BITSTRING	1	PGAWCC	3270 WRITE CONTROL CHARACTER
(3)	.... .1..		PGAEND	"*" END OF PAGE CONTROL AREA
(3)	.... .1..		PGALEN	"PGAEND-DFHPGADS" LENGTH OF DSECT

PGDDS - Public Program Definition Resource Statistics

```
CONTROL BLOCK NAME = DFHPGDDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHPGDPS
DESCRIPTIVE NAME = CICS TS Public Programdef (PG Domain) Stats
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2007, 2016
FUNCTION =
        This data area contains the Public Programdef
        statistics provided by the PG Domain.
        It is provided for use in users monitoring applications
        to map the statistics returned via the API or the
        statistics global user exit.
        There is a single instance of this data block.
LIFETIME =
       This data block is created by the PG Domain to store
       statistics to be passed to the user in response to a
       request for PROGRAMDEF statistics. The storage is released
       when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
```

```
RESTRICTIONS = None
MODULE TYPE = Control block definition
-------------------------------------------------------------------
```

Table 465.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHPGDDS	Programdef Resid stats record
(0)	HALFWORD	2	PGDDS_LEN	Programdef stats record length
(2)	ADDRESS	2	PGDDS_ID	Programdef stats id
(4)	CHARACTER	1	PGDDS_VERS	Programdef stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	PGD_PROGRAM_NAME	Program Name
(10)	BITSTRING	1	PGD_PROGRAM_TYPE	Program Type
(11)	BITSTRING	1	PGD_PROGRAM_EXEC_KEY	Program CICS/USER key
(12)	BITSTRING	1	PGD_PROGRAM_DATA_LOC	Program Data Location
(13)	BITSTRING	1	PGD_PROGRAM_ EXECUTION_SET	Program Execution Set
(14)	CHARACTER	4		Reserved
(18)	BITSTRING	1	PGD_PROGRAM_LANG_ DEDUCED	Program Language Deduced
(19)	BITSTRING	1	PGD_PROGRAM_LANGUAGE	Program Language
(1A)	BITSTRING	1	PGD_PROGRAM_RUNTIME_ ENV	Program Runtime Environment
(1B)	CHARACTER	5		Reserved
(20)	BITSTRING	1	PGD_PROGRAM_ CONCURRENCY	Program Concurrency
(21)	BITSTRING	1	PGD_PROGRAM_API	Program API
(22)	CHARACTER	3		Reserved
(25)	BITSTRING	1	PGD_PROGRAM_REMOTE	Program Remote
(26)	BITSTRING	1	PGD_PROGRAM_DYNAMIC	Program Dynamic
(27)	BITSTRING	1	PGD_PROGRAM_JVM	Program JVM
(28)	BITSTRING	1	PGD_PROGRAM_ ENTRYPOINT	Application Entry Point
(29)	CHARACTER	3		Reserved
(2C)	CHARACTER	8	PGD_PROGRAM_REMOTE_ NAME	Remote Program name
(34)	CHARACTER	4	PGD_PROGRAM_TRAN_ID	Remote Transaction ID
(38)	CHARACTER	4	PGD_PROGRAM_REMOTE_ SYSID	Remote System name
(3C)	CHARACTER	4		Reserved
(40)	CHARACTER	8		Reserved
(48)	CHARACTER	8	PGD_PROGRAM_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

Table 465. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(70)	BITSTRING	2	PGD_PROGRAM_CHANGE_ AGENT	Change agent
(72)	BITSTRING	2	PGD_PROGRAM_INSTALL_ AGENT	Install agent
(74)	BITSTRING	8	PGD_PROGRAM_INSTALL_ TIME	Install/Create time
(7C)	CHARACTER	8	PGD_PROGRAM_INSTALL_ USERID	Install userid
(84)	BITSTRING	4		Reserved
(84)	1... 1...		PGDDS_END	"*"
(84)	1... 1...		PGDDS_LENGTH	"*-PGDDS_LEN" Programdef record length
Constants that denote a Public PG Programdef stats record				
(84)	.111 1...		PGD_IDR	"120" Programdef resid stats id
(84)	1		PGD_VERS	"X'01'" Record version number
Equates for testing PGD_PROGRAM_TYPE				
(84)	1		PGD_TYPE_PROGRAM	"1" Program
(84)	.... ..1.		PGD_TYPE_MAPSET	"2" Mapset
(84)	11		PGD_TYPE_PARTITIONSET	"3" Partitionset
Equates for testing PGD_PROGRAM_EXEC_KEY				
(84)	....		PGD_EXEC_KEY_ NOTAPPLIC	"0" Exec key Notapplic
(84)	1		PGD_EXEC_KEY_CICS	"1" CICS exec key
(84)	.... ..1.		PGD_EXEC_KEY_USER	"2" USER exec key
Equates for testing PGD_PROGRAM_DATA_LOC				
(84)	....		PGD_DATA_LOC_ NOTAPPLIC	"0" Dataloc Notapplic
(84)	1		PGD_DATA_LOC_BELOW	"1" Dataloc Below
(84)	.... ..1.		PGD_DATA_LOC_ANY	"2" Dataloc Any
Equates for testing PGD_PROGRAM_EXECUTION_SET				
(84)	....		PGD_EXEC_SET_ NOTAPPLIC	"0" Execution set Notapplic
(84)	1		PGD_EXEC_SET_ DPLSUBSET	"1" Execution set DPL subset
(84)	.... ..1.		PGD_EXEC_SET_FULLAPI	"2" Execution set Full API
Equates for testing PGD_PROGRAM_LANG_DEDUCED				
(84)	....		PGD_LANG_NOTAPPLIC	"0" Language deduced Notapplic
(84)	1		PGD_LANG_NOT_DEDUCED	"1" Language not deduced
(84)	.... ..1.		PGD_LANG_NOT_DEFINED	"2" Language not defined
(84)	11		PGD_LANG_ASSEMBLER	"3" Language Assembler
(84)	.... .1..		PGD_LANG_C	"4" Language C
(84)	.... .1.1		PGD_LANG_COBOL	"5" Language COBOL
(84)	.... .11.		PGD_LANG_LE	"6" Language LE
(84)	.... .111		PGD_LANG_PLI	"7" Language PL1

Table 465. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(84)	.... 1...		PGD_LANG_JAVA	"8" Language JAVA
Equates for testing PGD_PROGRAM_LANGUAGE				
(84)	....		PGD_LANGUAGE_ NOTAPPLIC	"0" Language Notapplic
(84)	1		PGD_LANGUAGE_NOT_ DEFINED	"1" Language not defined
(84)	.... ..1.		PGD_LANGUAGE_ ASSEMBLER	"2" Language Assembler
(84)	11		PGD_LANGUAGE_C	"3" Language C
(84)	.... .1..		PGD_LANGUAGE_COBOL	"4" Language COBOL
(84)	.... .1.1		PGD_LANGUAGE_LE	"5" Language LE
(84)	.... .11.		PGD_LANGUAGE_PLI	"6" Language PL1
Equates for testing PGD_PROGRAM_RUNTIME_ENV				
(84)	....		PGD_RUNTIME_NOTAPPLIC	"0" Runtime Notapplic
(84)	1		PGD_RUNTIME_ENV_JVM	"1" Runtime JVM
(84)	.... ..1.		PGD_RUNTIME_ENV_LE	"2" Runtime LE
(84)	11		PGD_RUNTIME_ENV_NONLE	"3" Runtime Non LE
(84)	.... .1..		PGD_RUNTIME_ENV_ XPLINK	"4" Runtime XPLink
Equates for testing PGD_PROGRAM_CONCURRENCY				
(84)	....		PGD_CONC_NOTAPPLIC	"0" Concurrency Notapplic
(84)	1		PGD_CONC_ QUASIREENTRANT	"1" Concurrency Quasi-Reentrnt
(84)	.... ..1.		PGD_CONC_THREADSAFE	"2" Concurrency Threadsafe
(84)	11		PGD_CONC_REQUIRED	"3" Concurrency Required
Equates for testing PGD_PROGRAM_API				
(84)	1		PGD_API_OPENAPI	"1" OPENAPI
(84)	.... ..1.		PGD_API_CICSAPI	"2" CICSAPI
Equates for testing PGD_PROGRAM_REMOTE				
(84)	1		PGD_REMOTE_NO	"1" Remote No
(84)	.... ..1.		PGD_REMOTE_YES	"2" Remote Yes
Equates for testing PGD_PROGRAM_DYNAMIC				
(84)	1		PGD_DYNAMIC_NO	"1" Dynamic No
(84)	.... ..1.		PGD_DYNAMIC_YES	"2" Dynamic Yes
Equates for testing PGD_PROGRAM_JVM				
(84)	1		PGD_JVM_NO	"1" JVM No
(84)	.... ..1.		PGD_JVM_YES	"2" JVM Yes
Equates for testing PGD_PROGRAM_ENTRYPOINT				
(84)	1		PGD_ENTRYPOINT_NO	"1" Entry point No
(84)	.... ..1.		PGD_ENTRYPOINT_YES	"2" Entry point Yes
Equates for testing PGD_PROGRAM_CHANGE_AGENT and INSTALL_AGENT Change Agents				
(84)	1		PGD_CSDAPI_CHANGE	"0001" CSD API
(84)	.... ..1.		PGD_CSDBATCH_CHANGE	"0002" DFHCSDUP

Table 465. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(84)	11		PGD_DREPAPI_CHANGE	"0003" DREP API
(84)	.... .1..		PGD_CREATE_CHANGE	"0004" EXEC CREATE SPI
(84)	.... .11.		PGD_AUTOINSTALL_ CHANGE	"0006" AUTOINSTALL
(84)	.... .111		PGD_SYSTEM_CHANGE	"0007" SYSTEM
(84)	.... 1...		PGD_DYNAMIC_CHANGE	"0008" DYNAMIC Install Agents
(84)	1		PGD_CSDAPI_INSTALL	"0001" CSD API
(84)	.... .1..		PGD_CREATE_INSTALL	"0004" EXEC CREATE SPI
(84)	.... .1.1		PGD_GRPLIST_INSTALL	"0005" GRPLIST
(84)	.... .11.		PGD_AUTOINSTALL_ INSTALL	"0006" AUTOINSTALL
(84)	.... .111		PGD_SYSTEM_INSTALL	"0007" SYSTEM
(84)	.... 1...		PGD_DYNAMIC_INSTALL	"0008" DYNAMIC
(84)	.... 1..1		PGD_BUNDLE_INSTALL	"0009" BUNDLE

PGEDS - Private Program Definition Resource Statistics

```
CONTROL BLOCK NAME = DFHPGEDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHPGEPS
DESCRIPTIVE NAME = CICS TS Private Programdef (PG Domain) Stats
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2007, 2013
FUNCTION =
        This data area contains the Private Programdef
        statistics provided by the PG Domain.
        It is provided for use in users monitoring applications
        to map the statistics returned via the API or the
        statistics global user exit.
        There is a single instance of this data block.
LIFETIME =
       This data block is created by the PG Domain to store
       statistics to be passed to the user in response to a
       request for PROGRAMDEF statistics. The storage is released
       when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------------
```

Table 466.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHPGEDS	Programdef Resid stats record

Table 466. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	HALFWORD	2	PGEDS_LEN	Programdef stats record length
(2)	ADDRESS	2	PGEDS_ID	Programdef stats id
(4)	CHARACTER	1	PGEDS_VERS	Programdef stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	64	PGE_PROGRAM_ PLATFORM_NAME	Platform name
(48)	CHARACTER	64	PGE_PROGRAM_ APPLICATION_NAME	Application name
(88)	FULLWORD	4	PGE_PROGRAM_APPL_ MAJOR_VER	Application major version
(8C)	FULLWORD	4	PGE_PROGRAM_APPL_ MINOR_VER	Application minor version
(90)	FULLWORD	4	PGE_PROGRAM_APPL_ MICRO_VER	Application micro version
(94)	CHARACTER	8	PGE_PROGRAM_NAME	Program Name
(9C)	BITSTRING	1	PGE_PROGRAM_TYPE	Program Type
(9D)	BITSTRING	1	PGE_PROGRAM_EXEC_KEY	Program CICS/USER key
(9E)	BITSTRING	1	PGE_PROGRAM_DATA_LOC	Program Data Location
(9F)	BITSTRING	1	PGE_PROGRAM_ EXECUTION_SET	Program Execution Set
(A0)	CHARACTER	4		Reserved
(A4)	BITSTRING	1	PGE_PROGRAM_LANG_ DEDUCED	Program Language Deduced
(A5)	BITSTRING	1	PGE_PROGRAM_LANGUAGE	Program Language
(A6)	BITSTRING	1	PGE_PROGRAM_RUNTIME_ ENV	Program Runtime Environment
(A7)	CHARACTER	5		Reserved
(AC)	BITSTRING	1	PGE_PROGRAM_ CONCURRENCY	Program Concurrency
(AD)	BITSTRING	1	PGE_PROGRAM_API	Program API
(AE)	CHARACTER	3		Reserved
(B1)	BITSTRING	1	PGE_PROGRAM_REMOTE	Program Remote
(B2)	BITSTRING	1	PGE_PROGRAM_DYNAMIC	Program Dynamic
(B3)	BITSTRING	1	PGE_PROGRAM_JVM	Program JVM
(B4)	BITSTRING	1	PGE_PROGRAM_ ENTRYPOINT	Application Entry Point
(B5)	CHARACTER	3		Reserved
(B8)	CHARACTER	8	PGE_PROGRAM_REMOTE_ NAME	Remote Program name
(C0)	CHARACTER	4	PGE_PROGRAM_TRAN_ID	Remote Transaction ID
(C4)	CHARACTER	4	PGE_PROGRAM_REMOTE_ SYSID	Remote System name
(C8)	CHARACTER	4		Reserved
(CC)	CHARACTER	8		Reserved
(D4)	CHARACTER	8	PGE_PROGRAM_JVMSERVER	Program JVM server Name
(DC)	CHARACTER	8		Reserved

Table 466. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(E4)	CHARACTER	8	PGE_PROGRAM_DEFINE_ SOURCE	Group installed from
(EC)	BITSTRING	8	PGE_PROGRAM_CHANGE_ TIME	Change/create time
(F4)	CHARACTER	8	PGE_PROGRAM_CHANGE_ USERID	Change userid
(FC)	BITSTRING	2	PGE_PROGRAM_CHANGE_ AGENT	Change agent
(FE)	BITSTRING	2	PGE_PROGRAM_INSTALL_ AGENT	Install agent
(100)	BITSTRING	8	PGE_PROGRAM_INSTALL_ TIME	Install/Create time
(108)	CHARACTER	8	PGE_PROGRAM_INSTALL_ USERID	Install userid
(110)	CHARACTER	64	PGE_PROGRAM_ OPERATION_NAME	Operation name
(150)	BITSTRING	4		Reserved
(150)		0	PGEDS_END	"*"
(150)		0	PGEDS_LENGTH	"*-PGEDS_LEN" Programdef record length
Constants that denote a Private PG Programdef stats record				
(150)	1..1 ..11		PGE_IDR	"147" Private Programdef resid stats id
(150)	1		PGE_VERS	"X'01'" Record version number
Equates for testing PGE_PROGRAM_TYPE				
(150)	1		PGE_TYPE_PROGRAM	"1" Program
(150)	.... ..1.		PGE_TYPE_MAPSET	"2" Mapset
(150)	11		PGE_TYPE_PARTITIONSET	"3" Partitionset
Equates for testing PGE_PROGRAM_EXEC_KEY				
(150)	....		PGE_EXEC_KEY_ NOTAPPLIC	"0" Exec key Notapplic
(150)	1		PGE_EXEC_KEY_CICS	"1" CICS exec key
(150)	.... ..1.		PGE_EXEC_KEY_USER	"2" USER exec key
Equates for testing PGE_PROGRAM_DATA_LOC				
(150)	....		PGE_DATA_LOC_ NOTAPPLIC	"0" Dataloc Notapplic
(150)	1		PGE_DATA_LOC_BELOW	"1" Dataloc Below
(150)	.... ..1.		PGE_DATA_LOC_ANY	"2" Dataloc Any
Equates for testing PGE_PROGRAM_EXECUTION_SET				
(150)	....		PGE_EXEC_SET_ NOTAPPLIC	"0" Execution set Notapplic
(150)	1		PGE_EXEC_SET_ DPLSUBSET	"1" Execution set DPL subset
(150)	.... ..1.		PGE_EXEC_SET_FULLAPI	"2" Execution set Full API
Equates for testing PGE_PROGRAM_LANG_DEDUCED				
(150)	....		PGE_LANG_NOTAPPLIC	"0" Language deduced Notapplic
(150)	1		PGE_LANG_NOT_DEDUCED	"1" Language not deduced

Table 466. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(150)	.... ..1.		PGE_LANG_NOT_DEFINED	"2" Language not defined
(150)	11		PGE_LANG_ASSEMBLER	"3" Language Assembler
(150)	.... .1..		PGE_LANG_C	"4" Language C
(150)	.... .1.1		PGE_LANG_COBOL	"5" Language COBOL
(150)	.... .11.		PGE_LANG_LE	"6" Language LE
(150)	.... .111		PGE_LANG_PLI	"7" Language PL1
(150)	.... 1...		PGE_LANG_JAVA	"8" Language JAVA
Equates for testing PGE_PROGRAM_LANGUAGE				
(150)	....		PGE_LANGUAGE_ NOTAPPLIC	"0" Language Notapplic
(150)	1		PGE_LANGUAGE_NOT_ DEFINED	"1" Language not defined
(150)	.... ..1.		PGE_LANGUAGE_ ASSEMBLER	"2" Language Assembler
(150)	11		PGE_LANGUAGE_C	"3" Language C
(150)	.... .1..		PGE_LANGUAGE_COBOL	"4" Language COBOL
(150)	.... .1.1		PGE_LANGUAGE_LE	"5" Language LE
(150)	.... .11.		PGE_LANGUAGE_PLI	"6" Language PL1
Equates for testing PGE_PROGRAM_RUNTIME_ENV				
(150)	....		PGE_RUNTIME_NOTAPPLIC	"0" Runtime Notapplic
(150)	1		PGE_RUNTIME_ENV_JVM	"1" Runtime JVM
(150)	.... ..1.		PGE_RUNTIME_ENV_LE	"2" Runtime LE
(150)	11		PGE_RUNTIME_ENV_NONLE	"3" Runtime Non LE
(150)	.... .1..		PGE_RUNTIME_ENV_ XPLINK	"4" Runtime XPLink
Equates for testing PGE_PROGRAM_CONCURRENCY				
(150)	....		PGE_CONC_NOTAPPLIC	"0" Concurrency Notapplic
(150)	1		PGE_CONC_ QUASIREENTRANT	"1" Concurrency Quasi-Reentrnt
(150)	.... ..1.		PGE_CONC_THREADSAFE	"2" Concurrency Threadsafe
(150)	11		PGE_CONC_REQUIRED	"3" Concurrency Required
Equates for testing PGE_PROGRAM_API				
(150)	1		PGE_API_OPENAPI	"1" OPENAPI
(150)	.... ..1.		PGE_API_CICSAPI	"2" CICSAPI
Equates for testing PGE_PROGRAM_REMOTE				
(150)	1		PGE_REMOTE_NO	"1" Remote No
(150)	.... ..1.		PGE_REMOTE_YES	"2" Remote Yes
Equates for testing PGE_PROGRAM_DYNAMIC				
(150)	1		PGE_DYNAMIC_NO	"1" Dynamic No
(150)	.... ..1.		PGE_DYNAMIC_YES	"2" Dynamic Yes
Equates for testing PGE_PROGRAM_JVM				
(150)	1		PGE_JVM_NO	"1" JVM No
(150)	.... ..1.		PGE_JVM_YES	"2" JVM Yes

Table 466. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
Equates for testing PGE_PROGRAM_CHANGE_AGENT and INSTALL_AGENT Change Agents				
(150)	1		PGE_CSDAPI_CHANGE	"0001" CSD API
(150)	.... ..1.		PGE_CSDBATCH_CHANGE	"0002" DFHCSDUP
(150)	11		PGE_DREPAPI_CHANGE	"0003" DREP API
(150)	.... .1..		PGE_CREATE_CHANGE	"0004" EXEC CREATE SPI
(150)	.... .11.		PGE_AUTOINSTALL_ CHANGE	"0006" AUTOINSTALL
(150)	.... .111		PGE_SYSTEM_CHANGE	"0007" SYSTEM Install Agents
(150)	1		PGE_CSDAPI_INSTALL	"0001" CSD API
(150)	.... .1..		PGE_CREATE_INSTALL	"0004" EXEC CREATE SPI
(150)	.... .1.1		PGE_GRPLIST_INSTALL	"0005" GRPLIST
(150)	.... .11.		PGE_AUTOINSTALL_ INSTALL	"0006" AUTOINSTALL
(150)	.... .111		PGE_SYSTEM_INSTALL	"0007" SYSTEM
(150)	.... 1..1		PGE_BUNDLE_INSTALL	"0009" BUNDLE

PGGPC - Program Manager Statistics

Table 467.

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 468.

Len	Type	Value	Name	Description
The following fields define the record				
1	HEX	01	PGG_DCL_VERSION	version number
2	DECIMAL	23	PGG_DCL_ID	PG global id statistics id

PGPDS - Private JVM Program Resource Statistics

```
CONTROL BLOCK NAME = DFHPGPDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHPGPPS
DESCRIPTIVE NAME = CICS TS Private Jvmprogram (PG) Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2002, 2013
FUNCTION =
        This data area contains the Private Jvmprogram statistics
        provided by the PG Domain.
        It is provided for use in users monitoring applications
        to map the statistics returned via the API or the
        statistics global user exit.
        There is a single instance of this data block.
LIFETIME =
       This data block is created by the PG Domain to store
       statistics to be passed to the user in response to a
       for JVMPROGRAM statistics. The storage is released when
       the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS =
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
-----------00----------------------------------------------------
```

Table 469.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHPGPDS	Jvmprogram Resid stats record
(0)	HALFWORD	2	PGPDS_LEN	Jvmprogram stats record length
(2)	ADDRESS	2	PGPDS_ID	Jvmprogram stats id
(4)	CHARACTER	1	PGPDS_VERS	Jvmprogram stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	64	PGP_JVMPROGRAM_ PLATFORM_NAME	Platform name
(48)	CHARACTER	64	PGP_JVMPROGRAM_ APPLICATION_NAME	Application name
(88)	FULLWORD	4	PGP_JVMPROGRAM_APPL_ MAJOR_VER	Application major version
(8C)	FULLWORD	4	PGP_JVMPROGRAM_APPL_ MINOR_VER	Application minor version
(90)	FULLWORD	4	PGP_JVMPROGRAM_APPL_ MICRO_VER	Application micro version
(94)	CHARACTER	8	PGP_JVMPROGRAM_NAME	Jvmprogram Name
(9C)	CHARACTER	7		Reserved

Table 469. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A3)	BITSTRING	1	PGP_JVMPROGRAM_ ENTRYPOINT	Application Entry Point
(A4)	FULLWORD	4	PGP_JVMPROGRAM_ USECOUNT	Jvmprogram Use count
(A8)	BITSTRING	1	PGP_JVMPROGRAM_EXEC_ KEY	Jvmprogram CICS/USER key
(A9)	CHARACTER	3		Reserved
(AC)	CHARACTER	255	PGP_JVMPROGRAM_ JVMCLASS	Jvmprogram Jvmclass name
(1AB)	CHARACTER	1		Reserved
(1AC)	CHARACTER	8	PGP_JVMPROGRAM_SERVER	Jvmserver Name
(1B4)	CHARACTER	64	PGP_JVMPROGRAM_ OPERATION_NAME	Operation name
(1F4)	CHARACTER	16		Reserved
(1F4)		0	PGPDS_END	"*"
(1F4)		0	PGPDS_LENGTH	"*-PGPDS_LEN" Jvmprogram record length
Constants that denote a PG Private Jvmprogram stats record				
(1F4)	1..1 ..1.		PGP_IDR	"146" Private Jvmprogram resid stats id
(1F4)	1		PGP_VERS	"X'01'" Record version number
Equates for testing PGP_JVMPROGRAM_EXEC_KEY				
(1F4)	1		PGP_CICS_KEY	"1" CICS exec key
(1F4)	.... ..1.		PGP_USER_KEY	"2" USER exec key
Equates for testing PGP_JVMPROGRAM_ENTRYPOINT				
(1F4)	1		PGP_ENTRYPOINT_NO	"1" Entry point No
(1F4)	.... ..1.		PGP_ENTRYPOINT_YES	"2" Entry point Yes

PGRDS - Public JVM Program Resource Statistics

```
CONTROL BLOCK NAME = DFHPGRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHPGRPS
DESCRIPTIVE NAME = CICS TS Public Jvmprogram (PG) Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2002, 2013
FUNCTION =
        This data area contains the Public Jvmprogram statistics
        provided by the PG Domain.
        It is provided for use in users monitoring applications
        to map the statistics returned via the API or the
        statistics global user exit.
        There is a single instance of this data block.
LIFETIME =
       This data block is created by the PG Domain to store
       statistics to be passed to the user in response to a
       for JVMPROGRAM statistics. The storage is released when
       the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
```

```
       statistics exit.
 STORAGE CLASS =
 LOCATION =
       The user is passed a pointer to the head of the storage
       block.
 INNER CONTROL BLOCKS =
 NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
-------------------------------------------------------------------
-----------00----------------------------------------------------
```

Table 470.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHPGRDS	Jvmprogram Resid stats record
(0)	HALFWORD	2	PGRDS_LEN	Jvmprogram stats record length
(2)	ADDRESS	2	PGRDS_ID	Jvmprogram stats id
(4)	CHARACTER	1	PGRDS_VERS	Jvmprogram stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	PGR_JVMPROGRAM_NAME	Jvmprogram Name
(10)	CHARACTER	7		Reserved
(17)	BITSTRING	1	PGR_JVMPROGRAM_ ENTRYPOINT	Application Entry Point
(18)	FULLWORD	4	PGR_JVMPROGRAM_ USECOUNT	Jvmprogram Use count
(1C)	BITSTRING	1	PGR_JVMPROGRAM_EXEC_ KEY	Jvmprogram CICS/USER key
(1D)	CHARACTER	3		Reserved
(20)	CHARACTER	255	PGR_JVMPROGRAM_ JVMCLASS	Jvmprogram Jvmclass name
(11F)	CHARACTER	1		Reserved
(120)	CHARACTER	8	PGR_JVMPROGRAM_SERVER	Jvmserver Name
(128)	CHARACTER	16		Reserved
(128)		0	PGRDS_END	"*"
(128)		0	PGRDS_LENGTH	"*-PGRDS_LEN" Jvmprogram record length
Constants that denote a PG Public Jvmprogram stats record				
(128)	.111 .111		PGR_IDR	"119" Public Jvmprogram resid stats id
(128)	1		PGR_VERS	"X'01'" Record version number
Equates for testing PGR_JVMPROGRAM_EXEC_KEY				
(128)	1		PGR_CICS_KEY	"1" CICS exec key
(128)	.... ..1.		PGR_USER_KEY	"2" USER exec key
Equates for testing PGR_JVMPROGRAM_ENTRYPOINT				
(128)	1		PGR_ENTRYPOINT_NO	"1" Entry point No
(128)	.... ..1.		PGR_ENTRYPOINT_YES	"2" Entry point Yes

PIRDS - Pipeline Resource Statistics

```
CONTROL BLOCK NAME = DFHPIRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHPIRPS
DESCRIPTIVE NAME = CICS TS Pipeline Domain (Pipeline) Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2004, 2015
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 471.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHPIRDS	Pipeline Resid stats record
(0)	HALFWORD	2	PIRDS_LEN	Pipeline stats record length
(2)	ADDRESS	2	PIRDS_ID	Pipeline stats id
(4)	CHARACTER	1	PIRDS_VERS	Pipeline stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	PIR_PIPELINE_NAME	Pipeline name
(10)	BITSTRING	1	PIR_PIPELINE_MODE	Pipeline mode
(11)	BITSTRING	7		Reserved
(18)	BITSTRING	8		Reserved
(20)	BITSTRING	255	PIR_CONFIGURATION_ FILE	Pipeline configuration file
(11F)	BITSTRING	1		Reserved
(120)	BITSTRING	255	PIR_SHELF_DIRECTORY	Pipeline shelf directory
(21F)	BITSTRING	1		Reserved
(220)	BITSTRING	255	PIR_WSDIR_DIRECTORY	Pipeline WSDIR pickup directory
(31F)	BITSTRING	1		Reserved

Table 471. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(320)	FULLWORD	4	PIR_PIPELINE_USE_ COUNT	Pipeline use count
(324)	BITSTRING	1	PIR_JSON_JAVA_PARSER	Pipeline JSON parser
(325)	BITSTRING	3		Reserved
(328)	BITSTRING	8		Reserved
(330)	BITSTRING	8		Reserved
(338)	BITSTRING	8		Reserved
(340)	BITSTRING	255		Reserved
(43F)	BITSTRING	1		Reserved
(440)	BITSTRING	16		Reserved
(450)	CHARACTER	8	PIR_PIPELINE_DEFINE_ SOURCE	Group installed from
(458)	BITSTRING	8	PIR_PIPELINE_CHANGE_ TIME	Change/create time
(460)	CHARACTER	8	PIR_PIPELINE_CHANGE_ USERID	Change userid
(468)	BITSTRING	2	PIR_PIPELINE_CHANGE_ AGENT	Change agent
(46A)	BITSTRING	2	PIR_PIPELINE_ INSTALL_AGENT	Install agent
(46C)	BITSTRING	8	PIR_PIPELINE_ INSTALL_TIME	Install/Create time
(474)	CHARACTER	8	PIR_PIPELINE_ INSTALL_USERID	Install userid
(47C)	CHARACTER	8	PIR_PIPELINE_ MSGFORMAT	Message format
(47C)		0	PIRDS_END	"*"
(47C)		0	PIRDS_LENGTH	"*-PIRDS_LEN" Pipeline record length
Constants that denote a PI pipeline stats record				
(47C)	.11. 1..1		PIRIDR	"105" Pipeline resid stats id
(47C)	1		PIR_VERS	"X'01'" Record version number
(47C)	....		PIR_MODE_UNKNOWN	"X'00'" Pipeline mode - unknown
(47C)	1		PIR_MODE_PROVIDER	"X'01'" Pipeline mode - provider
(47C)	.... ..1.		PIR_MODE_REQUESTER	"X'02'" Pipeline mode - requester Change Agents
(47C)	1		PIR_CSDAPI_CHANGE	"0001" CSD API
(47C)	.... ..1.		PIR_CSDBATCH_CHANGE	"0002" DFHCSDUP
(47C)	11		PIR_DREPAPI_CHANGE	"0003" DREP API
(47C)	.... .1..		PIR_CREATE_CHANGE	"0004" EXEC CREATE SPI Install Agents
(47C)	1		PIR_CSDAPI_INSTALL	"0001" CSD API
(47C)	.... .1..		PIR_CREATE_INSTALL	"0004" EXEC CREATE SPI
(47C)	.... .1.1		PIR_GRPLIST_INSTALL	"0005" GRPLIST
(47C)	.... 1..1		PIR_BUNDLE_INSTALL	"0009" Install Agent - BUNDLE
(47C)	....		PIR_JSON_JAVA_ PARSER_NOTAPPLIC	"X'00'" Parser notapplic

Table 471. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(47C)	1		PIR_JSON_JAVA_ PARSER_YES	"X'01'" JAVA parser
(47C)	.... ..1.		PIR_JSON_JAVA_ PARSER_NO	"X'02'" Native parser

PIWDS - Webservice Resource Statistics

```
CONTROL BLOCK NAME = DFHPIWDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHPIWPS
DESCRIPTIVE NAME = CICS TS Pipeline Domain (Webservice) Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2004, 2009
FUNCTION =
       This data area contains the webservice statistics
       provided by the PI Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the
       statistics global user exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the Pipeline Domain to store
       statistics to be passed to the user in response to a
       for webservice statistics. The storage is released when the
       user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHPIWDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 472.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHPIWDS	Webservice Resid stats record
(0)	HALFWORD	2	PIWDS_LEN	Webservice stats record length
(2)	ADDRESS	2	PIWDS_ID	Webservice stats id
(4)	CHARACTER	1	PIWDS_VERS	Webservice stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	32	PIW_WEBSERVICE_NAME	Webservice name
(28)	BITSTRING	1	PIW_PROGRAM_INTERFACE	Webservice program interface
(29)	BITSTRING	1	PIW_MSG_VALIDATION	Webservice msg validation
(2A)	BITSTRING	6		Reserved

Table 472. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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)	.11. 1.1.		PIWIDR	"106" Webservice resid stats id

Table 472. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5C4)	1		PIW_VERS	"X'01'" Record version number
(5C4)	....		PIW_INTERFACE_ NOTAPPLIC	"X'00'" Program interface - notapplic
(5C4)	1		PIW_INTERFACE_CHANNEL	"X'01'" Program interface - channel
(5C4)	.... ..1.		PIW_INTERFACE_ COMMAREA	"X'02'" Program interface - commarea
(5C4)	1		PIW_VALIDATION_NO	"X'01'" Webservice msg validation - No
(5C4)	.... ..1.		PIW_VALIDATION_YES	"X'02'" Webservice msg validation - Yes Change Agents
(5C4)	1		PIW_CSDAPI_CHANGE	"0001" CSD API
(5C4)	.... ..1.		PIW_CSDBATCH_CHANGE	"0002" DFHCSDUP
(5C4)	11		PIW_DREPAPI_CHANGE	"0003" DREP API
(5C4)	.... .1..		PIW_CREATE_CHANGE	"0004" EXEC CREATE SPI
(5C4)	.... 1...		PIW_DYNAMIC_CHANGE	"0008" DYNAMIC Install Agents
(5C4)	1		PIW_CSDAPI_INSTALL	"0001" CSD API
(5C4)	.... .1..		PIW_CREATE_INSTALL	"0004" EXEC CREATE SPI
(5C4)	.... .1.1		PIW_GRPLIST_INSTALL	"0005" GRPLIST
(5C4)	.... 1...		PIW_DYNAMIC_INSTALL	"0008" DYNAMIC
(5C4)	.... 1..1		PIW_BUNDLE_INSTALL	"0009" BUNDLE

PLT - Program list table entry

```
CONTROL BLOCK NAME = DFHPLTDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Program List Table Entry
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1993
FUNCTION =
       Defines an entry in a PLT, a list of programs to be
       invoked.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
  PN= REASON REL YYMMDD HDXXIII : REMARKS
```

Table 473.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHPLTDS	DUMMY SECTION - PGM LIST TABLE
(0)	CHARACTER	8	PLTPID	PROGRAM IDENTIFICATION

Table 473. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	.... 1...		PLTEL	"(*-PLTPID)" PGM LST TABLE ENTRY LENGTH

PFT - Profile table entry

Table 474.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	106	DFHPPFPS	
(0)	CHARACTER	106	PPFED	
(0)	CHARACTER	8	PPFNAME	PROFILE NAME
(8)	UNSIGNED	2	PPFENL	ENTRY LENGTH
(A)	UNSIGNED	1	PPFTYPE	TYPE OF ENTRY, 3=PROFILE
(B)	CHARACTER	1	*	(SPACER)
(C)	BIT(8)	1	PPFFLAGS	FLAGS
(C)	1...		PPFDYNA	ENTRY DYNAMICALLY ADDED
(C)	.111 1111		*	RESERVED
(D)	CHARACTER	3	*	RESERVED
(10)	CHARACTER	5	PPFJINF	5 BYTES MOVED TO TCTTE
(10)	BIT(8)	1	PPFMIOAJ	TERMINAL MSG I/O & JOURNAL
(10)	1...		PPFMFMHA	ALL FMH'S TO APPLICATION
(10)	.1..		PPFMFMHE	(EODS)
(10)	..1.		PPFMIMIO	RESERVED
(10)	...1		PPFMDLIO	RESERVED
(10)	.... 1...		PPFMFMHD	(DIP)
(10)	.... .1..		PPFMLRQ	LOGICAL REC PRESENT REQUIRED
(10)	.... ..1.		PPFMJLI	AUTO INPUT MSG JOURNALLING
(10)	1		PPFMJLO	AUTO OUTPUT MSG JOURNALLING
(11)	BIT(8)	1	PPFEXTOP	EXTRACT OPTIONS
(11)	1...		PPFEXNO	EXTRACT=NO
(11)	.1..		PPFEXAT	EXTRACT=ATTACH
(11)	..1.		*	RESERVED
(11)	...1		*	RESERVED
(11)	.... 1...		*	RESERVED
(11)	.... .1..		*	RESERVED
(11)	.... ..1.		*	RESERVED

Table 474. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(11)	1		*	RESERVED
(12)	BIT(8)	1	PPFOPT2	EXTRA OPTIONS
(12)	1...		PPFSRAQ	READ AHEAD QUEUING SUPPORT
(12)	.1..		PPFUCTRN	UPPER CASE TRANSLATE REQUIRED *
(12)	..1.		*	RESERVED
(12)	...1		*	RESERVED
(12)	.... 1...		*	RESERVED
(12)	.... .1..		*	RESERVED
(12)	.... ..1.		*	RESERVED
(12)	1		*	RESERVED
(13)	UNSIGNED	1	PPFMSJID	TERM MSG JOURNAL FILE ID
(14)	UNSIGNED	1	PPFNEPC	NODE ERROR PROGRAM CLASS
(15)	CHARACTER	2	PPFMPCRQ	TERMINAL MSG PROT.REQUIRED
(15)	BIT(8)	1	*	1ST BYTE
(16)	BIT(8)	1	PPFMPFLG	2ND BYTE - SUPPORTED BITS:
(16)	111.		*	RESERVED
(16)	...1		PPFMPCTL	X'10' = CHAIN CONTROL(NOT SPI)
(16)	.... 1...		*	RESERVED
(16)	.... .1..		PPFMPMSG	X'04' = MESSAGE INTEGRITY
(16)	.... ..1.		*	RESERVED
(16)	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:
(18)	111.		*	RESERVED
(18)	...1		PPFMOCTL	X'10' = CHAIN CONTROL
(18)	.... 1...		*	RESERVED
(18)	.... .1..		PPFMOMSG	X'04' = MESSAGE INTEGRITY
(18)	.... ..1.		*	RESERVED
(18)	1		PPFMOONW	X'01' = ONE WRITE OPTION

Table 474. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(19)	UNSIGNED	2	PPFTRTO	READ TIMEOUT
(1B)	CHARACTER	8	PPFMODEN	MODENAME
(23)	BIT(8)	1	PPFMDVSP	TERMINAL DEVICE SUPPORT
(23)	1...		*	RESERVED
(23)	.1..		*	RESERVED
(23)	..1.		*	RESERVED
(23)	...1		*	RESERVED
(23)	.... 1...		*	RESERVED
(23)	.... .1..		*	RESERVED
(23)	.... ..1.		PPFMDVNO	NON-VTAM DEVICES ONLY
(23)	1		PPFMDVTM	VTAM DEVICES ONLY
(24)	UNSIGNED	1	*	RESERVED
(25)	BIT(8)	1	PPFSCS	SCREEN SIZE SELECTION
(25)	1...		*	RESERVED
(25)	.1..		*	RESERVED
(25)	..1.		*	RESERVED
(25)	...1		*	RESERVED
(25)	.... 1...		PPFSCSZ	ALTERNATE SCREEN SIZE
(25)	.... .1..		*	RESERVED
(25)	.... ..1.		PPFPRTCM	PRINTER COMPATIBILITY
(25)	1		*	RESERVED
(26)	CHARACTER	4	PPFFACLK	FACILITYLIKE
(2A)	OBJECT	64	PPFRESSIG	RESOURCE SIGNATURE
(2A)	CHARACTER	64	DFHAMSIG_INSTANCE	RESOURCE SIGNATURE
(2A)	STRUCTURE IsA(DFHAMSIG_ DEFINE_ SIGNATURE)	38	DEFINE_SIGNATURE	RESOURCE SIGNATURE
(2A)	CHARACTER	8	DEFINE_SOURCE	GROUP resource installed from
(32)	CHARACTER	8	DEFINE_TIME	Time resource defined
(3A)	CHARACTER	8	CHANGE_TIME	Change/create time
(42)	CHARACTER	8	CHANGE_USERID	Change userid
(4A)	UNSIGNED	2	CHANGE_AGENT	Change agent
(4C)	CHARACTER	4	AGENT_LEVEL	CICS level of change agent
(50)	STRUCTURE IsA(DFHAMSIG_ INSTALL_ SIGNATURE)	18	INSTALL_SIGNATURE	RESOURCE SIGNATURE

Table 474. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(50)	CHARACTER	8	INSTALL_TIME	Install/create time
(58)	CHARACTER	8	INSTALL_USERID	Install userid
(60)	UNSIGNED	2	INSTALL_AGENT	Install agent
(62)	CHARACTER	8	*	RESOURCE SIGNATURE

PSD - Partition set definition block

```
 DESCRIPTIVE NAME = CICS TS PARTITION SET DEFINITION DSECT
                    DUAL LANGUAGE DSECT
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1980
FUNCTION = DEFINES THE PARTITION SET OBJECT. THIS IS BUILT BY
           THE MACROS DFHPSD AND DFHPDI. IT IS SUFFIXED AND
           STORED IN THE CICS/VS PROGRAM LIBRARY WITH A PPT
           ENTRY. IT IS LOADED INTO MAIN MEMORY BY DFHMCP
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 MODULE TYPE = STRUCTURE
EXTERNAL REFERENCES = NONE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NOT APPLICABLE
 MACROS = NONE
```

Table 475.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	30	DFHPSDDS	DUMMY SECTION - PARTITION SET DESCRIPTION
(0)	CHARACTER	0	PSDSTART	START OF DEFINITION
Partition Set Header Description				
(0)	HALFWORD	2	PSDPSETL	PARTITION SET LENGTH
(2)	CHARACTER	2	*	BLANK SO PARTITION SET IS CORRECT FORMAT FOR OUTPUT TO CICS TEMP STORAGE
(4)	HALFWORD	2	PSDPSL	PARTITION SET HEADER LENGTH OF PARTITION SET HEADER
(6)	CHARACTER	8	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

Table 475. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(1D)	1...		PSDPSERR	THIS PARTITION SET CONTAINS A CICS/VS ERROR MESSAGE PARTITION

```
                PARTITION DESCRIPTION
TWO RECORD FOR EACH PARTITION IN THIS PARTITION SET
THE FIRST RECORD CONTAINS CICS/VS SPECIFIC DATA. THE SECOND
RECORD IS A COPY OF THE CREATE PARTITION STRUCTURED FIELD
```

Table 476.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	PSDPCICS	
CICS SPECIFIC PARTITION DATA				
(0)	HALFWORD	2	PSDCICSL	LENGTH OF CICS/VS DATA
(2)	CHARACTER	2	PSDCINME	THE PARTITION NAME
(4)	BIT(8)	1	PSDCIFLG	PARTITION FLAGS 1
(4)	1...		PSDCIERR	THIS IS A CICS/VS ERROR MESSAGE PARTITION
(5)	CHARACTER	1	PSDMPSFX	BMS MAPSET SUFFIX

Table 477.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	30	PSDPCRT	
COPY OF THE ARCHITECTED CREATE PARTITION STRUCTURED FIELD THIS CAN BE SENT UNCHANGED TO THE TERMINAL				
(0)	HALFWORD	2	PSDPL	LENGTH OF CREATE PARTITION STRUCTURED FIELD
(2)	CHARACTER	1	PSDPTYPE	STRUCTURED FIELD TYPE
(3)	CHARACTER	1	PSDPID	HARDWARE PARTITION-ID
(4)	BIT(8)	1	PSDPAM	FLAG BYTE INDICATING UNIT OF MEASURE AND ADDRESS MODE
(4)	1...		*	
(4)	.1..		*	
(4)	..1.		*	

Table 477. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	...1		PSDUMPEL	UNIT OF MEASURE IS PELS
(4)	.... 1...		*	
(4)	.... .1..		*	
(4)	.... ..1.		*	
(4)	1		PSDAM16	ADDRESS MODE IS 16 BIT
(5)	BIT(8)	1	PSDPFLG	FLAG BYTE
(5)	1...		*	
(5)	.1..		PSDPPROT	PARTITION IS PROTECTED
(6)	CHARACTER	2	PSDPBUFH	HEIGHT OF THE PARTITION BUFFER
(8)	CHARACTER	2	PSDPBUFW	WIDTH OF THE PARTITION BUFFER
(A)	CHARACTER	2	PSDVIEWR	ROW ORIGIN OF THE PARTITION VIEWPORT
(C)	CHARACTER	2	PSDVIEWC	COLUMN ORIGIN OF THEPARTITION VIEWPORT
(E)	CHARACTER	2	PSDVIEWH	VIEWPORT HEIGHT
(10)	CHARACTER	2	PSDVIEWW	VIEWPORT WIDTH
(12)	CHARACTER	2	PSDWNDR	INITIAL WINDOW POSITION ROW
(14)	CHARACTER	2	PSDWNDC	INITIAL WINDOW POSITION COL
(16)	CHARACTER	2	PSDSCRR	VERTICAL SCROLL AMOUNT
(18)	CHARACTER	2	PSDSCRC	HORIZONTAL SCROLL AMOUNT
(1A)	CHARACTER	2	PSDCELLW	CHARACTER CELL PEL WIDTH
(1C)	CHARACTER	2	PSDCELLH	CHARACTER CELL PEL HEIGHT

Constants

Table 478.

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 TS System Spooling Interface
                    Global Control Block.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1984, 2014
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
      D90390 700 140804 HDLISJH : Correct duff 3-byte filler
```

Table 479.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	204	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

Table 479. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(28)	CHARACTER	1	PSGTHRD	In-Use flag for SGL thread
(29)	CHARACTER	3	*	Reserved
(2C)	CHARACTER	4	*	
(2C)	BIT(8)	1	PSGFE	Extra service facilities
(2C)	1...		PSGFETR	Additional trace required
(2C)	.111 111.		*	Reserved
(2C)	1		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
(75)	CHARACTER	3	PSGSTD	Reserved
(78)	CHARACTER	3	PSGSER	Reserved

Table 479. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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	2	*	Reserved
(98)	ADDRESS	4	PSGCXPB	CXPB TCA address
(9C)	CHARACTER	44	PSGIDSN	Input DSNAME
(C8)	ADDRESS	4	*	Reserved

Constants

Table 480.

Len	Type	Value	Name	Description
PSGFLAG - general Sub-system Interface flags				
1	HEX	FF	PSGON	Flag is on.
1	HEX	00	PSGOFF	Flag is off.

PSP - Printer spooling subsystem

```
DESCRIPTIVE NAME = CICS TS Printer Spooling Subsystem
    Licensed Materials - Property of IBM
     Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1985, 2014
Function =
         DFHPSPPS is the parameter area map for the interface
         to DFHPSP etc.
 Dependencies = S/370
 Restrictions = none
 Register conventions = N/A
 Module type = PLS copy-book
 Attributes = N/A
Entry point = N/A
```

Table 481.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	120	DFHPSPPS	DFHPS Macro Parameter Area.
(0)	UNSIGNED	1	PSPREQ	Request Code.
(1)	BIT(8)	1	PSPQUAL	Reserved
(1)	1...		PSPQNTFY	Reserved
(1)	.1..		PSPQANY	Reserved
(1)	..1.		PSPQCMD	Reserved

Table 481. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	...1 1111		*	Reserved
(2)	BIT(8)	1	PSPOPT1	Option 1 indicators.
(2)	1...		PSPWCHCK	Reserved
(2)	.1..		PSPRGIN	Reserved
(2)	..1.		PSPRSEP	Reserved
(2)	...1		PSPRNSEP	Reserved
(2)	.... 1...		PSPRNCV	Reserved
(2)	.... .1..		PSPRFAIL	Reserved
(2)	.... ..1.		PSPRCONT	Reserved
(2)	1		PSPRRESM	Reserved
(3)	BIT(8)	1	PSPOPT2	Option 2 Indicators.
(3)	1...		PSPRHDN	Reserved
(3)	.1..		PSPRFTN	Reserved
(3)	..1.		PSPRNONM	Reserved
(3)	...1		PSPRDTTM	Reserved
(3)	.... 1...		PSPRPHYS	Reserved
(3)	.... .1..		PSPRLOGL	Reserved
(3)	.... ..1.		PSPROUT	OPEN/CLOSE for Output.
(3)	1		PSPRINP	OPEN/CLOSE for Input.
(4)	BIT(8)	1	PSPOPT3	Option 3 Indicators.
(4)	1...		PSPBASE	Base call
(4)	.1..		PSPREST	Reserved
(4)	..1.		PSPMAPO	Reserved
(4)	...1		PSPDWE	Reserved
(4)	.... 1...		PSPHLPI	Reserved
(4)	.... .1..		PSPYMES	Reserved
(4)	.... ..1.		PSPNMES	Reserved
(4)	1		*	Reserved
(5)	BIT(8)	1	PSPOPT4	Option 4 Indicators.
(5)	1...		PSPRSCS	Reserved
(5)	.1..		PSPRBMS	Reserved
(5)	..1.		PSPR327	Reserved
(5)	...1		PSPRAPA	CPDS Data Stream
(5)	.... 1...		PSPRESC	Reserved
(5)	.... .1..		PSPRASA	ASA Format
(5)	.... ..1.		PSPRMCC	Machine Format
(5)	1		PSPRNCC	No CC Format
(6)	BIT(8)	1	PSPOPT5	Option 5 Indicators.
(6)	BIT(8)	1	*	Reserved
(7)	BIT(8)	1	PSPQUE	Reserved

Table 481. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7)	1...		PSPQLST	Reserved
(7)	.1..		PSPQRDR	Reserved
(7)	..1.		PSPQPUN	Reserved
(7)	...1		PSPQXMIT	Reserved
(7)	.... 1...		PSPQPRTR	Reserved
(7)	.... .111		*	Reserved
(8)	BIT(8)	1	PSPCBOPT	Reserved
(9)	BIT(8)	1	PSPDISPS	Reserved
(9)	1...		PSPDHOLD	Reserved
(9)	.1..		PSPDACT	Reserved
(9)	..1.		PSPDRDY	Reserved
(9)	...1		PSPDERR	Reserved
(9)	.... 1...		PSPDRES	Reserved
(9)	.... .1..		PSPDKEP	Reserved
(9)	.... ..1.		PSPDLVE	Reserved
(9)	1		PSPDERRP	Reserved
(A)	UNSIGNED	1	PSPCOPY	Reserved
(B)	UNSIGNED	1	PSPPRI	Reserved
(C)	UNSIGNED	1	*	Reserved
(D)	UNSIGNED	1	PSPPGSZ	Reserved
(E)	CHARACTER	1	PSPCLASS	CLASS Character.
(F)	UNSIGNED	1	*	Reserved
(10)	BIT(8)	1	PSPDISP	DISPOSITION to be set.
(11)	CHARACTER	1	PSPNCLSS	Reserved
(12)	UNSIGNED	2	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
(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

Table 481. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4C)	ADDRESS	4	PSPUSDTA	Reserved
(50)	FULLWORD	4	PSPREC#	Reserved
(54)	UNSIGNED	1	PSPPDISP	Reserved
(54)	1...		PSPPPRNT	Reserved
(54)	.1..		PSPPSTOP	Reserved
(54)	..1.		PSPPWAIT	Reserved
(54)	...1		PSPPIUSE	Reserved
(54)	.... 1...		PSPPALN	Reserved
(54)	.... .1..		PSPPOOS	Reserved
(54)	.... ..1.		PSPPPAUD	Reserved
(54)	1		*	Reserved
(55)	UNSIGNED	1	PSPPACT1	Reserved
(55)	1...		PSPPSRT	Reserved
(55)	.1..		PSPPSTPC	Reserved
(55)	..1.		PSPPSTPN	Reserved
(55)	...1		PSPPALGN	Reserved
(55)	.... 1...		PSPPAUS	Reserved
(55)	.... .1..		PSPRESM	Reserved
(55)	.... ..1.		PSPSTPR	Reserved
(55)	1		PSPPCONF	Reserved
(56)	UNSIGNED	1	PSPPACT2	Reserved
(56)	1...		PSPPSETU	Reserved
(56)	.1..		PSPPDISC	Reserved
(56)	..11 1...		*	Reserved
(56)	.... .1..		PSPPINQ	Reserved
(56)	11		*	Reserved
(57)	UNSIGNED	1	*	Reserved
(58)	ADDRESS	4	PSPPRNM	Reserved
(5C)	ADDRESS	4	PSPTITLE	Reserved
(60)	ADDRESS	4	PSPHEAD	Reserved
(64)	ADDRESS	4	PSPFOOT	Reserved
(68)	ADDRESS	4	PSPSTPG	Reserved
(6C)	ADDRESS	4	PSPEDPG	Reserved
(70)	ADDRESS	4	PSPALPG	Reserved
(74)	ADDRESS	4	PSPOTDES	Ptr. to OUTDES LIST

Constants

Table 482.

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

```
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 483.

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

Table 483. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 484.

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 485.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	76	PTTW_STATE_BLOCK	
(0)	CHARACTER	8	PTTWSB_EYECATCHER	Eyecatcher
(8)	UNSIGNED	4	PTTWSB_LENGTH	Length of block
(C)	UNSIGNED	4	PTTWSB_STATE	State of partnership
(10)	ADDRESS	4	PTTWSB_SUSPENDTOK	Suspend token
(14)	CHARACTER	8	PTTWSB_DDTOKEN	Dir mgr token
(1C)	CHARACTER	8	PTTWSB_POOLTOKEN	Pool token
(24)	ADDRESS	4	PTTWSB_POOLPTR	Pool block addr
(28)	CHARACTER	4	PTTWSB_USERTOKEN	User token
(2C)	CHARACTER	16	PTTWSB_PARTNERS (2)	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 486.

Len	Type	Value	Name	Description
Value of pttwpb_eyecatcher.				
8	CHARACTER	>PTTWPB	PTTWPB_EYE_VALUE	

Table 486. (continued)

Len	Type	Value	Name	Description
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.				
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	

Table 486. (continued)

Len	Type	Value	Name	Description
-- 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	
2	NUMB HEX	0109	TID_PTTW_EXC_POOL_NOT_ FOUND	
2	NUMB HEX	010A	TID_PTTW_EXC_STATE_ NOT_FOUND	
2	NUMB HEX	010B	TID_PTTW_EXC_LOCATE_ FAILED	
2	NUMB HEX	010C	TID_PTTW_EXC_CORRUPT_ POOL	
2	NUMB HEX	010D	TID_PTTW_EXC_CORRUPT_ STATE	
2	NUMB HEX	010E	TID_PTTW_EXC_ADD_SUS_ FAILED	
2	NUMB HEX	010F	TID_PTTW_EXC_DEL_SUS_ FAILED	
2	NUMB HEX	0110	TID_PTTW_EXC_INQ_TXN_ FAILED	
2	NUMB HEX	0111	TID_PTTW_EXC_RESUME_ FAILED	
2	NUMB HEX	0112	TID_PTTW_EXC_SUSPEND_ FAILED	
2	NUMB HEX	0113	TID_PTTW_EXC_RESUME_ TIMED_OUT	
2	NUMB HEX	0114	TID_PTTW_RECOVERY	
2	NUMB HEX	0115	TID_PTTW_WHOAMI	
2	NUMB HEX	0116	TID_PTTW_STATE_BLOCK_ FOUND	
2	NUMB HEX	0117	TID_PTTW_TRIGSTATE_ CHANGE	
2	NUMB HEX	0118	TID_PTTW_EXC_INV_STATE	

RCS - Recovery Control Static Storage

```
CONTROL BLOCK NAME = DFHRCSPS
DESCRIPTIVE NAME = CICS TS RECOVERY CONTOL STATIC STORAGE
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1984, 1994
FUNCTION =
     Static storage used by recovery control component for
     ECBS AND ANCHORS FOR THREAD MANAGEMENT.
     There is a single instance of this control block in a CICS
     system.
     It is allocated and initialized to hex zeroes in DFHSIB1.
     It has the lifetime of the CICS system.
LIFETIME =
     It is allocated and initialized to hex zeroes in DFHSIB1.
     It has the lifetime of the CICS system.
STORAGE CLASS =
     CICS static storage.
LOCATION =
     Addresses from static storage address list.
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
  DATA AREAS = None
  CONTROL BLOCKS = None
  GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
               RECOVERY CONTROL PROGRAM STATIC STORAGE
```

Table 487.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	RCSTATIC	
(0)	CHARACTER	9	*	Reserved
(9)	BIT(8)	1	*	
(9)	1...		*	Reserved
(9)	.1..		RCSCPPST	restart complete post bit
(A)	BIT(8)	1	*	
(A)	1...		*	Reserved
(A)	.1..		RCS_STP_END_EVENT	STP keypoint ended
(B)	BIT(8)	1	*	
(B)	1...		*	Reserved
(B)	.1..		RCS_WARM_KEYPOINT_ EVENT	ready for keypoint
(C)	FULLWORD	4	RCS_RECORD_COUNT	User log record count
(10)	ADDRESS	4	RCS_AID_CHAIN	AID chain
(14)	CHARACTER	4	*	Reserved
(18)	CHARACTER	0	RCSTATLN	End

RLRDS - Resource Lifecycle Resource Statistics

```
CONTROL BLOCK NAME = DFHRLRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHRLRPS
DESCRIPTIVE NAME = CICS TS ResLife Statistics for BUNDLEs
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2008, 2012
FUNCTION =
       This block described the statistics collected by the ResLife
       Domain.
       There is an instance of this block for each bundle for
       which statistics have been requested.
LIFETIME = This block exists until the statistics request has been
       satisfied.
STORAGE CLASS =
LOCATION = The user is passed a pointer to the head of the block
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = None
    GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHRLRDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 488.

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

Table 488. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(254)	BITSTRING	8	RLR_BUNDLE_INSTALL_ TIME	Install/Create time
(25C)	CHARACTER	8	RLR_BUNDLE_INSTALL_ USERID	Install userid
(25C)		0	RLRDS_END	"*"
(25C)		0	RLRDS_LENGTH	"*-RLRDS_LEN" ResLife Bundle record length
Constants that denote a RL Bundle stats record				
(25C)	.11. .1..		RLRIDR	"100" ResLife Bundle resid stats id
(25C)	1		RLR_VERS	"X'01'" Record version number
(25C)	1		RLR_BUNDLE_CSDAPI_ CHANGE	"0001" Change Agent - CSD API
(25C)	.... ..1.		RLR_BUNDLE_CSDBATCH_ CHANGE	"0002" Change Agent - DFHCSDUP
(25C)	11		RLR_BUNDLE_DREPAPI_ CHANGE	"0003" Change Agent - DREP API
(25C)	.... .1..		RLR_BUNDLE_CREATE_ CHANGE	"0004" Change Agent - CREATE SPI
(25C)	1		RLR_BUNDLE_CSDAPI_ INSTALL	"0001" Install Agent - CSD API
(25C)	.... .1..		RLR_BUNDLE_CREATE_ INSTALL	"0004" Install Agent - CREATE SPI
(25C)	.... .1.1		RLR_BUNDLE_GRPLIST_ INSTALL	"0005" Install Agent - GRPLIST
(25C)	.... 1.11		RLR_BUNDLE_CLOUD_ INSTALL	"0011" Install Agent - CLOUD

RMG - Recovery Manager Global statistics

```
CONTROL BLOCK NAME = DFHRMGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHRMGPS
DESCRIPTIVE NAME = CICS TS Recovery Manager Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1994
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 489.

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)	.11. ..11		RMGIDE	"0099" Recovery Manager statistics id mask
(2)	ADDRESS	2	RMGID	Recovery Manager statistics id
(2)	1		RMGVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	RMGDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	FULLWORD	4	RMGSYFWD	Total syncpoints forward
(C)	FULLWORD	4	RMGSYBWD	Total syncpoints backward
(10)	FULLWORD	4	RMGRESYN	Total resynchronisations
(14)	FULLWORD	4	RMGTSHIN	Total shunted uows for indoubt
(18)	CHARACTER	8	RMGTSHTI	Total time shunted for indoubt (STCK)
(20)	FULLWORD	4	RMGCSHIN	Current uows shunted for indoubt
(24)	CHARACTER	8	RMGCSHTI	Current time shunted indoubt (STCK)
(2C)	FULLWORD	4	RMGTSHRO	Total ouws shunted for RO commit fail
(30)	CHARACTER	8	RMGTSHTR	Total time shunted for RO fail (STCK)
(38)	FULLWORD	4	RMGCSHRO	Current ouws shunts RO commit fail
(3C)	CHARACTER	8	RMGCSHTR	Current time shunted RO fail (STCK)
The following fields show a breakdown of the possible integrity exposures due to forced termination of indoubt waits.				
(44)	FULLWORD	4	RMGIAFTR	Total forced Indoubt Actions-trandef

Table 489. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	.111		RMGEND	"*"

RMUXC - Recovery Manager Domain Inline Access

Table 490.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	229	RMUX_INLINE_ACCESS_ STRUCTURE	
(0)	CHARACTER	8	RMUX_LOCAL_UOW_ID	
(8)	CHARACTER	27	RMUX_REMOTE_UOW_ID	
(8)	UNSIGNED	1	RMUX_REMOTE_ID_LENGTH	
(9)	UNSIGNED	1	RMUX_REMOTE_ID_LU_ NAME_LENGTH	
(A)	CHARACTER	25	*	
(23)	BIT(8)	1	RMUX_FLAGS	
(23)	1...		OPTIMAL_CLIENTS_ONLY	Only optimal clients are involved in this UOW.
(23)	.1..		CALL_NOTIFY_END_OF_ UOW	call dfhdyp at enduow
(24)	CHARACTER	4	*	
(28)	ADDRESS IsA(RM_WORK_	8 TOKEN)	RMUX_WORK_TOKEN_ ARRAY (21)	

Table 490. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(28)	CHARACTER	4	*	
(2C)	ADDRESS	4	SHORT	
(D0)	CHARACTER	21	RMUX_CLIENT_STATES	
(D0)	BIT(8)	1	CLIENT_STATE (21)	
(D0)	1...		COMMIT_COMPLETE	has locally committed!
(D0)	.111 1111		*	

Constants

Table 491.

Len	Type	Value	Name	Description
1	DECIMAL	21	RMUX_MAX_RO	

SAA - Storage accounting area

```
CONTROL BLOCK NAME = DFHSAAPS
DESCRIPTIVE NAME = CICS TS Storage Accounting Area.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1991
NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
```

Table 492.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	DFHSAADS	
(0)	CHARACTER	1	SAASCI	STORAGE CLASS IDENTIFICATION
(1)	CHARACTER	1	SAASFI	STORAGE FORMAT IDENTIFICATION
(2)	UNSIGNED	2	SAASAD	STORAGE AREA SIZE
(4)	ADDRESS	4	SAASACA	STORAGE ACCOUNTING CHAIN

SAB - Subsystem anchor block

```
CONTROL BLOCK NAME = DFHSABDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSABPS
DESCRIPTIVE NAME = CICS TS Subsystem Anchor Block
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1985, 2004
FUNCTION =
       Contains addresses of CICS component control block
       storage which exists until re-IPL.
       Certain CICS components require control blocks which
```

```
       are accessible by all CICS systems run in a CEC.
       The SAB is used to anchor such control block storage.
       The MVS SSCT is used to anchor the SAB and CICS
       components use the MVS SSI VERIFY request to obtain
       the address of the SSCT itself.
       One SAB exists only, which is created by the first
       CICS component to require it after IPL. Subsequent
       CICS components update it as appropriate.
       The user components are:
            IRC - DFHIRP
            XRF - DFHWTI
 LIFETIME =
       Created by first user after IPL.
       Exists until re-IPL.
 STORAGE CLASS =
       MVS Common Service Area storage.
 LOCATION =
       Address in MVS SSCTSUSE.
 INNER CONTROL BLOCKS =
       None
 NOTES :
    DEPENDENCIES = none
    RESTRICTIONS = none
    MODULE TYPE = Control block definition
-------------------------------------------------------------------------
 EXTERNAL REFERENCES =
        None
     DATA AREAS =
         None
     CONTROL BLOCKS =
         None
     GLOBAL VARIABLES (Macro pass) =
         None
-------------------------------------------------------------------------
```

Table 493.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHSABDS	
(0)	ADDRESS	4	SABCDD	Address of XRF CEC Dead Data
(4)	ADDRESS	4	SABSCTE	Address of IRC SCTE
(8)	CHARACTER	6	SABACRON	Eyecatcher 'DFHSAB'
(E)	FULLWORD	1	SABVERSN	Version of control block
(E)	1		SABV211	"1" Version 2.1.1 SPE SAB
(E)	.... ..1.		SABV620	"2" Version 6.2.0 SPE SAB
(F)	BITSTRING	1	SABFLAG1	First flag byte
(F)	1...		SAB1FMT	"X'80'" - reformat CICS messages
(F)	.1..		SAB1SEC	"X'40'" - protect security msgs
(F)	..1.		SAB1GRC	"X'20'" - generic routecodes supplied
(10)	ADDRESS	4	SABSSCT	Address of Subsystem CVT
(14)	ADDRESS	4	SABPNDPW	Pending password requests
(18)	ADDRESS	4	SABMAPPT	Addr of addr-space bitmap
(1C)	FULLWORD	4	SABMAPLN	Len of addr-space bitmap

Table 493. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	BITSTRING	16	SABGROUT	Generic Routecodes
(30)	FULLWORD	4	SABLGLIM	Actual logon limit for the address space
(30)	.11. .1..		SABLGDFT	"100" Default logon limit for the address space
(30)	.11. .1..		SABLGMIN	"100" Minimum logon limit for the address space
(30)	1111 1.1.		SABLGMAX	"250" Maximum logon limit for the address space
(30)	..11 .1..		SABL	"*-DFHSABDS" Length

```
SUBSYSTEM CONTROL TABLE EXTENSION
THE SCTE IS USED BY THE SVC TO CONTROL THE EXISTENCE
OF THE LACB (LOGON ADDRESS CONTROL BLOCK).
```

Table 494.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	SCTE	
(0)	ADDRESS	4	SCTELACB	Address of LACB
(4)	FULLWORD	3	SCTECNT	NUMBER OF 'ASSOCIATED' address spaces
(7)	FULLWORD	1	SCTEMOD#	SCTE modification no. - potentially allows DFHIRP control blocks or algorithms to be changed at LACB create time without an IPL by using the dynamic LPA facility, but beware the XCF DIE page fix problem!
(7)	1		SCTEMOD1	"1" SCTE modification 1 - CICS/TS 2.2
(8)	FULLWORD	4		Reserved - must not be deleted
(C)	HALFWORD	2	SCTESVCI	INSTRUCTION TO INVOKE CICS SVC - offset must never change (SDB, batch DPL)
(E)	ADDRESS	1	SCTEVER#	SCTE version no. - indicates level of associated DFHIRP control blocks
(E)	1		SCTEVER1	"1" SCTE version 1 - CICS 4.1
(E)	.... ..1.		SCTEVER2	"2" SCTE version 2 - CICS 5.1
(E)	11		SCTEVER3	"3" SCTE version 3 - CICS/TS 2.2
(F)	BITSTRING	1	SCTEFLGS	Various flags

Table 494. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(F)	1...		SCTEFSP4	"X'80'" MVS includes XCF support (SP4 plus)
(F)	.1..		SCTEFXCF	"X'40'" XCF level satisfies all IRP's needs
(F)	...1		SCTELEN	"*-SCTE" LENGTH OF SCTE ENTRY

SDG - Dump domain global statistics

```
CONTROL BLOCK NAME = DFHSDGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSDGPS
DESCRIPTIVE NAME = CICS TS Dump Domain Global Statistics
                   (System dumps)
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1987, 1991
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 495.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHSDGDS	System Dump Global statistics
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	SDGLEN	Length of data area
(0)	.1.1 1.1.		SDGIDE	"90" System dump global stats id mask
(2)	ADDRESS	2	SDGID	System dump global stats id
(2)	1		SDGVERS	"X'01'" Stats version number mask
(4)	CHARACTER	1	SDGDVERS	Dump domain global stats version

Table 495. (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)	...1		SDGEND	"*"
(C)	...1		SDGCLEN	"*-DFHSDGDS" Length of DSECT

SDR - Dump domain system dump statistics

```
CONTROL BLOCK NAME = DFHSDRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSDRPS
DESCRIPTIVE NAME = CICS TS Dump Domain System Dump Statistics
                   (by dumpcode)
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1987, 1991
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 496.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHSDRDS	Dump domain system dump stats
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	SDRLEN	Length of data area
(0)	.1.1 1...		SDRIDE	"88" Dump domain system stats id mask
(2)	ADDRESS	2	SDRID	Dump domain system stats id
(2)	1		SDRVERS	"X'01'" DSECT version number

Table 496. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	CHARACTER	1	SDRDVERS	Domain data format version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	SDRCODE	Dumpcode
(10)	FULLWORD	4	SDRSTKN	Number of system dumps taken
(14)	FULLWORD	4	SDRSSUPR	Number of system dumps suppressed
(18)	FULLWORD	4	SDRTTKN	Number of tran dumps taken (unused)
(1C)	FULLWORD	4	SDRTSUPR	Number of tran dumps suppressed
(1C)	..1.		SDREND	"*"
(1C)	..1.		SDRCLEN	"*-SDRLEN" Length

SETCC - SET Storage Control (in FLAB and FRTE)

```
CONTROL BLOCK NAME = DFHSETCC
DESCRIPTIVE NAME = CICS TS Set Storage Control
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1993
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 497.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	DFHSSC	

Table 497. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	ADDRESS	4	SSC_SET_ADDRESS	Set storage address
(4)	HALFWORD	2	SSC_SET_LENGTH	Set storage length
(6)	BIT(8)	1	SSC_SET_FLAGS	Flag byte
(6)	1...		SSC_SET_BELOW	Storage below line
(6)	.1..		SSC_SET_CICS	Storage in CICS key
(6)	..11 1111		*	Reserved
(7)	CHARACTER	1	*	Reserved

SIP - System initialization program

```
DESCRIPTIVE NAME = CICS TS SYSTEM INITIALIZATION PROGRAM
                                COMMUNICATION AREA
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1993
FUNCTION = COMMUNICATION AREA FOR INITIALIZATION.
 MACROS = DFHSIPD
```

Table 498.

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
(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

Table 498. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(44)	ADDRESS	4	SIPDMSRA	A(SIPDMSR) = DOMAIN MANAGER TASK SYNCHRONIZATION ROUTINE
(48)	ADDRESS	4	(3)	Reserved
(54)	ADDRESS	4	SIPDMPRA	A(SIPGFTCT - the routine which posts APDM task when insufficient storage detected by TCP task
(58)	ADDRESS	4	(2)	Reserved
REGISTER SAVE AREAS FOR USE BY DFHSIP				
(60)	FULLWORD	4	SIPSAVE (16)	GENERAL REGISTER SAVE AREA
(A0)	FULLWORD	4	SIPUTSV (16)	PUTSAVE REGISTER SAVE AREA
Flag bytes for controlling program loading These same equates are used in SIPNUCTB in DFHSIB1				
(E0)	BITSTRING	2		Reserved
(E2)	BITSTRING	1	SIPFLAG	FLAG BYTE
(E2)	1...		SIPBLNUC	"X'80'" .. BLDL FOR NUCLEUS MODULE
(E2)	.1..		SIPPRVMD	"X'40'" .. MODULE MUST BE IN PRIVATE AREA (AND NOT SHARED)
(E2)	..1.		SIPSHRMD	"X'20'" .. MODULE MUST BE IN SHARED AREA
(E2)	...1		SIPSHRPL	"X'10'" .. SHARED PL/I MODULES FLAG
(E2)	.... .1..		SIPBLNAB	"X'04'" .. NUCLEUS-BUILD ABEND FLAG
(E2)	.... ..1.		SIPBLERR	"X'02'" .. MODULE NOT FOUND
(E2)	.... ..1.		SIPERR	"X'02'" .. ERROR RESPONSE
(E2)	1		SIPSFXBL	"X'01'" .. SUFFIXABLE MODULE FLAG
(E3)	BITSTRING	1	SIPERFLG	INITIALIZATION/ERROR FLAGS
(E3)	1...		SIPCNCLR	"X'80'" .. CANCEL REQUESTED AFTER MSG DFH1596
(E3)	.... 1...		SIPLDERR	"X'08'" .. LOAD ERROR FLAG (OS-ONLY)
(E4)	BITSTRING	1	SIPFLAG3	Flag Byte 3
(E4)	1...		SIP2PLT	"X'80'" .. A PLT PROGRAM EXISTS THAT RUNS DURING THE 2ND STAGE OF INITIALIZATION

Table 498. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(E4)	.1..		SIP3PLT	"X'40'" .. A PLT PROGRAM EXISTS THAT RUNS DURING THE 3RD STAGE OF INITIALIZATION
(E5)	BITSTRING	1	SIPFLAG4	FLAG BYTE 4
(E5)	...1		SIPF31B	"X'10'" ..GET DOMAIN STORAGE FROM 31BIT SUBPOOL
(E5)	.... ..1.		SIPFDOSA	"X'02'" ..GETMAIN TO RETURN ADDR PAST LENGTH FD
PARAMETER PASSING FIELDS				
(E8)	FULLWORD	4	SIPARMP1	PARAMETER PASS FIELDS
(EC)	FULLWORD	4	SIPARMP2	PARAMETER PASS FIELDS
(F0)	FULLWORD	4	SIPARMP3	PARAMETER PASS FIELDS
(F4)	FULLWORD	4	SIPARMP4	PARAMETER PASS FIELDS
(F8)	FULLWORD	4	SIPARMP5	PARAMETER PASS AREA
(FC)	FULLWORD	4	SIPARMP6	PARAMETER PASS AREA
(100)	FULLWORD	4	SIPARMP7	PARAMETER PASS AREA
(104)	FULLWORD	4	SIPARMP8	PARAMETER PASS AREA
(108)	FULLWORD	4	SIPARMP9	PARAMETER PASS AREA
Program Loader / Overlay Supervisor -- Work & parameters				
(10C)	CHARACTER	8	SILISTID	PROGRAM ID
Multitasking control areas				
(114)	FULLWORD	4		Reserved
(118)	FULLWORD	4	SIPDMTEC	DOMAIN MANAGER TASK ECB
SM Domain domain storage tokens				
(11C)	CHARACTER	8	SIPDS24B	storage token CICS key & below 16M
(124)	CHARACTER	8	SIPDSANY	storage token CICS key & above 16M
(12C)	CHARACTER	16	SIPDS64A	storage token CICS key & above bar
(13C)	CHARACTER	8	SIPDU24B	storage token User key & below 16M
(144)	CHARACTER	8	SIPDUANY	storage token User key & above 16M
(14C)	CHARACTER	16	SIPDU64A	storage token User key & above bar
COMMUNICATION AREA - DFHSIH1 TO DFHSII1 TO DFHSIJ1				
(15C)	FULLWORD	4	CHKRLSAV	SAVE SIPBAR
(160)	ADDRESS	4	SIPCICNA	a(copyright notice, level indicator etc)

Table 498. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 TS SYSTEM INITIALIZATION TABLE
    Licensed Materials - Property of IBM
     Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1986, 2017
FUNCTION =
          Mapping of the CICS System Initialization Table
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 MODULE TYPE = MACRO
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE
MACROS : None
```

Table 499.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	3896	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

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(14)	FULLWORD	4	DFHAPT	Reserved
(18)	ADDRESS	4	SITCOMA	Communications area address
(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 interval
(30)	HALFWORD	2	*	Reserved
(32)	HALFWORD	2	SITTSDTI	Terminal scan delay
(34)	FULLWORD	4	SITRICVL	Runaway task time interval
(38)	FULLWORD	4	SITICVAL	System time interval
(3C)	UNSIGNED	2	SITDFINT	LG defer interval
(3E)	HALFWORD	2	*	Reserved
MISCELLANEOUS SIZES, COUNTERS AND FLAGS				
(40)	FULLWORD	4	SITESDSA	ESDSASZE
(44)	FULLWORD	4	SITERDSA	ERDSASZE
(48)	FULLWORD	4	SITOPTIM	Write to operator timeout value
(4C)	FULLWORD	4	SITTRTSZ	Trace table # of entries
(50)	CHARACTER	1	*	reserved
(51)	CHARACTER	1	SIT_PS_TYPE	M if MNPS
(52)	UNSIGNED	2	SITAKPFR	Activity keypoint freq
(54)	CHARACTER	1	SIT_VT_PREFIX	Common Client terminal prefix
(55)	BIT(8)	1	SITTRNTY	Tran dump trace option
(55)	1...		SITTRALL	Option ALL
(55)	.111 1111		*	Unused
(56)	BIT(8)	1	SITSRCVY	Storage recovery byte
(56)	1...		SITSRYES	Storage recovery requested
(56)	.1..		*	Reserved
(56)	..1.		*	Reserved
(56)	...1		*	Reserved
(56)	.... 1...		*	Reserved
(56)	.... .1..		*	Reserved
(56)	.... ..1.		*	Reserved
(56)	1		*	Reserved
(57)	UNSIGNED	1	SITTCSWT	TC Shutdown Wait
(58)	BIT(8)	1	SITTCSAN	TC Shutdown Action

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(58)	1...		SITTCSUB	TC Shut Act, Unbind
(58)	.1..		SITTCSFO	TC Shut Act, Force
(58)	..11 1111		*	Reserved
(59)	CHARACTER	4	SITVDLY	Autoinstall delete delay time
(5D)	BIT(8)	1	SITCHTSK	CHKSTSK option
(5D)	1...		*	Reserved
(5D)	.1..		SITTSKCR	Check current task storage
(5D)	..11 1111		*	Reserved
(5E)	BIT(8)	1	SITCHTRM	CHKSTRM option
(5E)	1...		SITTRMCR	Check current terminal storage
(5E)	.111 1111		*	Reserved
(5F)	BIT(8)	1	SITRRMS	RRMS options
(5F)	1...		SITRRMSYES	RRMS=YES
(5F)	.111 1111		*	
(60)	FULLWORD	4	SITPSDI	PSDI option (HHMMSS)
	SUPERVISOR CALL LIST			
(64)	UNSIGNED	1	SITSVSNO	Service svc number
(65)	UNSIGNED	1	SITSISNO	Service init. svc number
(66)	HALFWORD	2	*	Reserved
(68)	HALFWORD	2	*	Reserved
	MISCELLANEOUS OPTIONS			
(6A)	BIT(8)	1	SITSTRCD	STATistics Recording ON/OFF
(6A)	1...		SITSTRCDO	
(6A)	.111 1111		*	Reserved
(6B)	CHARACTER	1	SITTCUA	TCTTE User Area Location
(6C)	UNSIGNED	2	SITPMULT	Dispatcher priority multiplier
(6E)	UNSIGNED	1	SITSBTSK	No. of subtasks
(6F)	CHARACTER	1	SITPMIR	MROLRM: SESSION RETAINS MIR
(70)	HALFWORD	2	SITDMPRT	Dump Retry value (DURETRY=)
(72)	CHARACTER	1	SITMROB	MRO BATCHING VALUE
(73)	UNSIGNED	1	SITASW	Aux trace autoswitch option
(73)	1...		SITASWC	Aux trace autoswitch continuous
(73)	.1..		SITASW1	Aux trace autoswitch once
(73)	..11 1111		*	Reserved
(74)	CHARACTER	4	SITFLDSP	Field sep chars

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(78)	CHARACTER	1	SITFLDST	Field start char
(79)	UNSIGNED	1	SITCONF	CONF field options
(79)	1...		SITCONFTXT_YES	CONFTXT=YES
(79)	.1..		SITCONFDATA_HIDETC	CONFDATA=HIDETC
(79)	..11 1111		*	Reserved
(7A)	UNSIGNED	1	SITTROP	Trace option
(7A)	1...		SITITRO	Internal trace required
(7A)	.1..		*	Reserved
(7A)	..1.		SITUTRO	User trace required
(7A)	...1		SITSTRO	System trace required
(7A)	.... 1...		SITATRO	Aux trace required
(7A)	.... .1..		SITATPE	Aux trace tape device (DOS)
(7A)	.... ..1.		SITGTRO	GTF trace required
(7A)	1		*	Reserved
(7B)	BIT(8)	1	SITSMDNO	System dump option (DUMP=)
(7B)	1...		SITSMDYS	Dump=yes
(7B)	.1..		SITDAE	DAE=yes
(7B)	..11 1111		*	Reserved
(7C)	CHARACTER	1	SITDMPDS	Dump dataset suffix or X
(7D)	UNSIGNED	1	SITDMPSW	Tran dump autoswitch option
(7D)	1...		SITDSWY	Autoswitch required
(7D)	.111 1111		*	Reserved
(7E)	UNSIGNED	1	SITPRINT	Print key option
(7F)	CHARACTER	1	SITMSGLV	Console msg level indicator
(80)	BIT(8)	1	SITRUWA	LE storage management options
(80)	1...		SITRUWPL	ruwapool yes
(80)	.1..		SITAUTST	autodst yes
(80)	..11 1111		*	Unused
(81)	UNSIGNED	1	SITMINTLS	MINTLSLEVEL
(82)	BIT(8)	1	SITMSGCS	Message Case Indicator
(82)	1...		SITMSGUP	Uppercase messages only
(82)	.1..		SITMSGMX	Mixed Case messages.
(82)	..11 1111		*	Reserved
(83)	BIT(8)	1	SITDATFM	CSA date format
(83)	1...		*	Reserved
(83)	.1..		*	Reserved
(83)	..1.		*	Reserved
(83)	...1		*	Reserved

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(83)	.... 1...		*	Reserved
(83)	.... .1..		SITDTYMD	YYMMDD
(83)	.... ..1.		SITDTDMY	DDMMYY
(83)	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
(8C)	1...		SITTRAPO	Global trap required
(8C)	.1..		*	Reserved
(8C)	..1.		*	Reserved
(8C)	...1		*	Reserved
(8C)	.... 1...		*	Reserved
(8C)	.... .1..		*	Reserved
(8C)	.... ..1.		*	Reserved
(8C)	1		*	Reserved
(8D)	BIT(8)	1	SITMONCL	Monitor options
(8D)	1...		SITMONY	Monitor=on
(8D)	.1..		SITMONPR	Performance class required
(8D)	..1.		SITMONEX	Exception class required
(8D)	...1		SITMONRS	Resource class required
(8D)	.... 1...		SITMONID	Identity class required
(8D)	.... .1..		*	Reserved
(8D)	.... ..1.		*	Reserved
(8D)	1		*	Reserved
(8E)	BIT(8)	1	SITMONOP	Monitor operations
(8E)	1...		SITMONCO	Converse mon required
(8E)	.1..		SITMONSY	Syncpoint mon required
(8E)	..1.		SITMONTM	Monitor time in local STCK
(8E)	...1		*	Reserved
(8E)	.... 1...		*	Reserved
(8E)	.... .1..		*	Reserved
(8E)	.... ..1.		*	Reserved

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8E)	1		SITWLMHO	WLM Health On or Off
(8F)	CHARACTER	4	SITMONFR	MN frequency (0HHMMSSC)
(93)	UNSIGNED	1	SITWLMHA	WLM Health Adjustment
(94)	HALFWORD	2	SITWLMHI	WLM Health Interval
(96)	CHARACTER	5	*	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
(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
(F4)	1...		SITSECEX	External security requested
(F4)	.1..		SITSECPR	Resource prefix required
(F4)	..1.		*	Reserved
(F4)	...1		SITXAPPC	RACLIST class APPCLU required
(F4)	.... 1...		SITESMIN	ESM INSTLN data required
(F4)	.... .1..		SITXUSER	Surrogate User Check required
(F4)	.... ..1.		SITRESSE	Always enact resource check
(F4)	1		SITCMDSE	Always enact command check
(F5)	BIT(8)	1	SITSECF2	SECURITY FLAG BYTE NO. 2
(F5)	1...		*	Reserved - was XEJB
(F5)	.1..		SITXHFS	HFS file security required
(F5)	..1.		SITENF71	RACFSYNC Listen enf 71
(F5)	...1		*	Reserved
(F5)	.... 1...		SITXPTKT	XPTKT

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(F5)	.... .1..		SITSNPSH	SNPRESET=SHARED
(F5)	11		*	Reserved
(F6)	BIT(8)	1	SITPLTSC	PLTPI Security options
(F6)	1...		SITPLTCM	Command level checking
(F6)	.1..		SITPLTRS	Resource level checking
(F6)	..11 1111		*	Reserved
(F7)	UNSIGNED	1	SITSCOPE	Signon Scope Checking
(F8)	CHARACTER	8	SITDFUSR	Default Security userid
(100)	HALFWORD	2	SITUDTIM	Tuning parm value for User Directory Timeout
(102)	HALFWORD	2	SITLUIT	LUIT tuning parm value
(104)	CHARACTER	8	SITSECPX	Security Resource Prefix
(10C)	CHARACTER	8	SITPLTID	PLTPI User id
(114)	CHARACTER	16	*	Reserved - was EJB ROLE PREFIX
(124)	CHARACTER	1	SITEMIR	MROFSE: retain mirror
(125)	CHARACTER	2	*	RESERVED
(127)	BIT(8)	1	SITENQOP	NQ Domain options
(127)	1...		SITNQRNL	NQRNL=YES
(127)	.111 1111		*	Reserved
	DUMP OPTIONS			
(128)	FULLWORD	4	SITTRNSZ	Size of transaction dump trace
(12C)	CHARACTER	2	*	RESERVED
	BASIC MAPPING SUPPORT OPTIONS			
(12E)	UNSIGNED	1	SITPGCHN	Pgchain length
(12F)	CHARACTER	7	*	Pgchain data
(136)	UNSIGNED	1	SITPGCPY	Pgcopy length
(137)	CHARACTER	7	*	Pgcopy data
(13E)	UNSIGNED	1	SITPGPRG	Pgpurge length
(13F)	CHARACTER	7	*	Pgpurge data
(146)	UNSIGNED	1	SITPGRET	Pgret length
(147)	CHARACTER	7	*	Pgret data
(14E)	CHARACTER	2	SITFCOMP	Reserved
(150)	BIT(24)	3	SITPRGD	Purge delay interval HHMM
(153)	BIT(8)	1	SITPOPT	BMS process options
(153)	1...		*	Reserved
(153)	.1..		SITALGN	Default map aligned
(153)	..1.		SITNDDS	No device-dependent suffixing

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(153)	...1		*	Reserved
(153)	.... 1...		*	Reserved
(153)	.... .1..		*	Reserved
(153)	.... ..1.		*	Reserved
(153)	1		*	Reserved
(154)	CHARACTER	1	SITBMSO	BMS option (M|S|F)
END OF BMS OPTIONS				
(155)	CHARACTER	1	SITDISM	Disable Trans after ASRD
TABLE SUFFICES				
(156)	CHARACTER	2	*	Reserved
(158)	CHARACTER	2	*	Reserved
(15A)	CHARACTER	2	SITFCTSF	File control table
(15C)	CHARACTER	2	*	Reserved
(15E)	CHARACTER	2	*	Reserved
(160)	CHARACTER	2	*	Reserved
(162)	CHARACTER	2	SITPLTPI	PLT (program initialization)
(164)	CHARACTER	2	SITPLTSD	PLT (shutdown)
(166)	CHARACTER	2	*	Reserved
(168)	CHARACTER	2	SITSRTSF	System recovery table
(16A)	CHARACTER	2	SITTCTSF	Terminal control table
(16C)	CHARACTER	2	SITTSTSF	Temporary storage table
(16E)	CHARACTER	2	SITXLTSF	Transaction list table
(170)	CHARACTER	2	SITMCTSF	Monitor control table
(172)	CHARACTER	2	*	Reserved
DSA sizes, cushion sizes and storage protect parms				
(174)	FULLWORD	4	SITDSA	Upper DSA limit
(178)	FULLWORD	4	SITEDSA	Upper EDSA limit
(17C)	FULLWORD	4	SITCDSA	CDSASZE
(180)	FULLWORD	4	SITUDSA	UDSASZE
(184)	FULLWORD	4	SITSDSA	SDSASZE
(188)	FULLWORD	4	SITRDSA	RDSASZE
(18C)	FULLWORD	4	SITECDSA	ECDSASZE
(190)	FULLWORD	4	SITEUDSA	EUDSASZE
(194)	FULLWORD	4	SITTRDUMAX	Dump table maximum
(198)	FULLWORD	4	SITSYDUMAX	Dump table maximum
(19C)	BIT(8)	1	SITCICSF	Storage protection flags
(19C)	1...		SITSTPRO	STGPROT 0=NO 1=YES
(19C)	.1..		SITCWAKY	CWAKEY 0=USER 1=CICS
(19C)	..1.		SITTCTUA	TCTUAKEY 0=USER 1=CICS

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(19C)	...1		SITRNTPGM	RENTPGM 0=PROT 1=NOPROT
(19C)	.... 1...		SITTRNISO	TRANISO 0=NO 1=YES
(19C)	.... .1..		SITCMDPRO	CMDPROT 0=NO 1=YES
(19C)	.... ..1.		SITSLDYES	SLD? 0=NO 1=YES
(19C)	1		*	Reserved
(19D)	CHARACTER	3	*	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
(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

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
START-UP OPTIONS				
(1F6)	CHARACTER	1	SITSTRTA	ALL specified on START(Y|N) *
(1F7)	CHARACTER	1	SITSTART	CICS/ESA start-up option
'A' - START=AUTO 'U' - START=(AUTO,ALL) 'S' - START=STANDBY 'T' - START=(STANDBY,ALL) 'C' - START=COLD 'I' - START=(COLD,ALL) 'I' - START=INITIAL 'I' - START=(INITIAL,ALL) 'E' - START=EMER 'R' - START=(EMER,ALL) 'W' - START=WARM 'H' - START=(WARM,ALL)				
(1F8)	CHARACTER	1	SITIND	Emergency indicator
(1F9)	CHARACTER	1	SITFEPOP	FEPI required Y/N
SITFEPIN CONSTANT('Y') - required SITFEPOU CONSTANT('N') - absent				
(1FA)	CHARACTER	1	SITSINIT	START=INITIAL indicator
SITSINIY CONSTANT('Y') - Yes, qualifies SITSTART=I SITSININ CONSTANT('N') - No				
(1FB)	BIT(8)	1	SITSOFFS	OFFSITE settings:-
(1FB)	1...		SITOFFSI	This is an offsite restart
(1FB)	.111 1111		*	Reserved
(1FC)	BIT(8)	1	SITDCTOP	TDINTRA option status
(1FC)	1...		SITINTRA	TDINTRA=EMPTY specified
(1FC)	.111 1111		*	Reserved
(1FD)	BIT(8)	1	SITFSSTA	Function ship start option
(1FD)	1...		SITFSSTY	Link affinity required
(1FD)	.111 1111		*	Reserved
(1FE)	BIT(8)	1	*	Reserved - was TD subtasking
@R302C				
(1FF)	UNSIGNED	1	SITICPOP	Start-up option
(200)	UNSIGNED	1	SITTSPOP	Start-up option
(201)	CHARACTER	1	SITDBCOP	DBCTL connect required Y|N
(202)	CHARACTER	1	SITDB2OP	DB2 connect required Y|N
(203)	UNSIGNED	1	SITBMSOP	Start-up option
(204)	CHARACTER	1	SITMQOP	MQ connect required Y|N
(205)	BIT(8)	1	SITFEAT	Miscellaneous features
(205)	1...		SITFEAWB	Web Interface feature
(205)	.1..		*	Reserved
(205)	..1.		*	Reserved

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(205)	...1		*	Reserved
(205)	.... 1...		*	Reserved
(205)	.... .1..		*	Reserved
(205)	.... ..1.		*	Reserved
(205)	1		*	Reserved
(206)	UNSIGNED	1	SITPSOPT	System spooling option
(207)	CHARACTER	1	SITPSID	Special feature identifier
(208)	CHARACTER	1	SITPSCLS	Special feature class.
(209)	CHARACTER	4	SITGMMNM	Good Morning Transaction
(20D)	CHARACTER	4	SITGNITE	Good Night Transaction
	MAXIMUM TASK COUNTS			
(211)	UNSIGNED	1	*	Reserved
(212)	HALFWORD	2	SITMXOTS	Max Open TCBs limit
(214)	HALFWORD	2	SITMXTSK	Max task count, packed decimal *
	SHUTDOWN ASSIST TRANSACTION			
(216)	CHARACTER	4	SITSDTRN	SHUT DOWN TRANSACTION
(21A)	CHARACTER	8	SITNCPLD	NAMED COUNTER POOL DEFAULT
(222)	CHARACTER	8	SITCODPG	Default document codepage
	VALUES FROM OLD DFHTCT TYPE=INITIAL MACRO			
(22A)	CHARACTER	2	*	Reserved
(22C)	ADDRESS	4	SITGMTAD	Address of good morning message
(230)	CHARACTER	4	SITSYSID	Local system entry name
(234)	HALFWORD	2	SITRAPL	VTAM receive any RPL count
(236)	HALFWORD	2	SITRAMAX	Max i/o area for receive any's
(238)	HALFWORD	2	SITOPNDL	Max opndst/clsdst count
(23A)	BIT(8)	1	SITACMTH	Access Method flags
(23A)	1...		SITVTAM	VTAM=YES
(23A)	.1..		SITLGNMS	LOGONMSG=YES
(23A)	..1.		*	Reserved
(23A)	...1		*	Reserved
(23A)	.... 1...		SITTCPIP	TCPIP=YES
(23A)	.... .1..		*	Reserved (was IIOPLISTENER) R41257C
(23A)	.... ..1.		*	Reserved
(23A)	1		*	Reserved
(23B)	BIT(8)	1	SITRESP	Logical Unit Response type

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(23B)	1...		SITFME	Function management end
(23B)	.1..		SITRRN	Reached recovery node
(23B)	..1.		*	Reserved
(23B)	...1		*	Reserved
(23B)	.... 1...		*	Reserved
(23B)	.... .1..		*	Reserved
(23B)	.... ..1.		*	Reserved
(23B)	1		*	Reserved
SINGLE KEY RETRIEVAL TABLE				
(23C)	CHARACTER	624	SITSKRTB	39key x 16byte SKR cmd table
FURTHER MISCELLANEOUS SIZES AND COUNTERS				
(4AC)	HALFWORD	2	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
(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
(4E1)	1...		SITCSMCM	
(4E1)	.1..		SITCSMNO	
(4E1)	..1.		SITCSMLM	
(4E1)	...1		SITCSMWU	
(4E1)	.... 1...		SITCSMRM	
(4E1)	.... .1..		*	Reserved for CPSM
(4E1)	.... ..1.		*	Reserved for CPSM
(4E1)	1		*	Reserved for CPSM
(4E2)	CHARACTER	2	*	RESERVED
XRF - DEFINITIONS FOR ACTIVE AND BACKUP				
(4E4)	CHARACTER	1	SITXRFFN	XRF function
(4E5)	CHARACTER	1	SITXRSNS	CICS (XRF) signon state
(4E6)	CHARACTER	8	SITGAPLD	Generic applid
(4EE)	CHARACTER	8	SITSAPLD	Specific applid

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
	XRF - DEFINITIONS FOR ACTIVE			
(4F6)	HALFWORD	2	*	Reserved
(4F8)	FULLWORD	4	SITPDI	Action delay interval
	XRF - DEFINITIONS FOR BACKUP			
(4FC)	CHARACTER	1	SITTAKE	Takeover option
(4FD)	CHARACTER	8	SITCLT	Command list table
(4FD)	CHARACTER	6	*	- prefix
(503)	CHARACTER	2	SITCLTSF	- suffix
(505)	CHARACTER	3	*	Reserved
(508)	FULLWORD	4	SITADI	Action delay interval
(50C)	FULLWORD	4	SITJDI	JES delay interval
(510)	CHARACTER	4	SITRMTRN	Recovery transaction
	XRF - DEFINITIONS FOR BOTH AND XRF=NO			
(514)	FULLWORD	4	SITACOND	Autoconnect delay
	RESERVED FOR RESTRUCTURE			
(518)	BIT(8)	1	SITPMERR	Initialization parameter errors
(518)	1...		SITPMACT	op
(518)	.1..		SITPMIGN	
(518)	..1.		SITPMABN	
(518)	...1		*	Reserved
(518)	.... 1...		*	Reserved
(518)	.... .1..		*	Reserved
(518)	.... ..1.		*	Reserved
(518)	1		*	Reserved
(519)	BIT(8)	1	SITNEW	NEWSIT= override?
(519)	1...		SITNEWY	
(519)	.1..		*	Reserved
(519)	..1.		*	Reserved
(519)	...1		*	Reserved
(519)	.... 1...		*	Reserved
(519)	.... .1..		*	Reserved
(519)	.... ..1.		*	Reserved
(519)	1		*	Reserved
(51A)	BIT(8)	1	SITXSIGN	XRF sign-on byte
(51A)	1...		SITXSFRC	Force sign-on requested
(51A)	.1..		*	Reserved
(51A)	..1.		*	Reserved
(51A)	...1		*	Reserved
(51A)	.... 1...		*	Reserved

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(51A)	.... .1..		*	Reserved
(51A)	.... ..1.		*	Reserved
(51A)	1		*	Reserved
(51B)	BIT(8)	1	SITMISC	Miscellaneous bits
(51B)	1...		SITRAPLF	RAPOOL FORCE specified
(51B)	.1..		SITICMNR	AUTORESETTIME=YES
(51B)	..1.		SITICARI	AUTORESETTIME= IMMEDIATE
(51C)	FULLWORD	4	SITXSFI	PS/XRF signon timeout
(520)	FULLWORD	4	*	Reserved
(524)	CHARACTER	8	SITAXI	AXI table
(524)	CHARACTER	6	*	- prefix (DFHAXI or blanks)
(52A)	CHARACTER	2	SITAXISF	- suffix
(52C)	CHARACTER	8	SITDRPGN	Dynamic Routing Program
(534)	HALFWORD	2	SITHRAPL	HPO rapool value
(536)	HALFWORD	2	*	Reserved
(538)	CHARACTER	4	SITRTRN2	XRF signed-on transaction
(53C)	CHARACTER	4	SITDRTRN	Dynamic Routing Transaction *
SIT OVERRIDE EXISTENCE BITS - one per SIT field				
(540)	CHARACTER	40	SIT_EXISTENCE_BITS	
(540)	BIT(8)	1	*	
(540)	1...		SITOPSYS_X	Operating system level
(540)	.1..		SITOPREL_X	Operating system release
(540)	..1.		SITCICS_X	CICS system
(540)	...1		SITCIREL_X	CICS release
(540)	.... 1...		SITLEN_X	SIT length
(540)	.... .1..		SITCWA_X	WRKAREA= existence bit
(540)	.... ..1.		DFHDLL_X	Address of DL/I link list
(540)	1		DFHAPT_X	Reserved
(541)	BIT(8)	1	*	
(541)	1...		SITCOMA_X	Communications area addr
(541)	.1..		SITOVRPM_X	Addr of override parameter
(541)	..1.		*	Reserved
(541)	...1		SITSRPAE_X	Reserved
(541)	.... 1...		SITPRVMA_X	PRVMOD= existence bit
(541)	.... .1..		SITICVAL_X	ICV= existence bit
(541)	.... ..1.		SITRICVL_X	ICVR= existence bit
(541)	1		SITDFINT_X	Reserved for LGDFINT= bit
(542)	BIT(8)	1	*	

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(542)	1...		SITTSDTI_X	ICVTSD= existence bit
(542)	.1..		SITFTIMO_X	FTIMEOUT= existence bit
(542)	..1.		SITQTIMO_X	QUIESTIM= existence bit
(542)	...1		SITSYDUMAX_X	SYDUMAX= existence bit
(542)	.... 1...		SITTRDUMAX_X	TRDUMAX= existence bit
(542)	.... .1..		SITTRTSZ_X	TRTABSZ= existence bit
(542)	.... ..1.		*	Reserved
(542)	1		SITAKPFR_X	AKPFREQ= existence bit
(543)	BIT(8)	1	*	
(543)	1...		SITDBLBL_X	DBP= existence bit
(543)	.1..		SITSRCVY_X	STGRCVY= existence bit
(543)	..1.		*	Reserved
(543)	...1		SITPSDI_X	PSDI= existence bit
(543)	.... 1...		*	Reserved
(543)	.... .1..		SITTSTG_X	
(543)	.... ..1.		SITSVSNO_X	SVC= existence bit
(543)	1		SITSISNO_X	SRBSVC= existence bit
(544)	BIT(8)	1	*	
(544)	1...		SITFLDSP_X	FLDSEP= existence bit
(544)	.1..		SITSTR_X	SYSTR= existence bit
(544)	..1.		SITUTR_X	USERTR= existence bit
(544)	...1		SITITR_X	INTTR= existence bit
(544)	.... 1...		SITGTR_X	GTFTR= existence bit
(544)	.... .1..		SITATR_X	AUXTR= existence bit
(544)	.... ..1.		SITASW_X	AUXTRSW= existence bit
(544)	1		*	Reserved
(545)	BIT(8)	1	*	DUMP existence bits
(545)	1...		SITSDUMP_X	DUMP= existence bit
(545)	.1..		SITDMPDS_X	DUMPDS= existence bit
(545)	..1.		SITDMPRT_X	DURETRY= existence bit
(545)	...1		SITDMPSW_X	DUMPSW= existence bit
(545)	.... 1...		SITMSGCS_X	MSGCASE= existence bit
(545)	.... .1..		SITGRNME_X	GRNAME= existence bit
(545)	.... ..1.		SITDAE_X	DAE= existence bit
(545)	1		*	Reserved
(546)	BIT(8)	1	*	
(546)	1...		SITPRINT_X	PRINT= existence bit
(546)	.1..		SITMSGLV_X	MSGLVL= existence bit
(546)	..1.		SITPL1_X	

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(546)	...1		SITRUWPL_X	RUWAPOOL existence
(546)	.... 1...		SITDTYMD_X	DATFORM=YYMMDD existence
(546)	.... .1..		SITDTDMY_X	DATFORM=DDMMYY existence
(546)	.... ..1.		SITDTMDY_X	DATFORM=MMDDYY existence
(546)	1		SITVSPLI_X	
(547)	BIT(8)	1	*	
(547)	1...		SITIRCS_X	IRC= existence bit
(547)	.1..		SITHPO_X	HPO= existence bit
(547)	..1.		SITLPA_X	LPA= existence bit
(547)	...1		*	Reserved
(547)	.... 1...		SITEODI_X	EODI= existence bit
(547)	.... .1..		SITTCAMO_X	TCAM= existence bit
(547)	.... ..1.		*	Reserved
(547)	1		SITTRAPO_X	TRAP= existence bit
(548)	BIT(8)	1	*	
(548)	1...		SITMONY_X	MN= existence bit
(548)	.1..		SITMONPR_X	MNPER= existence bit
(548)	..1.		SITMONEX_X	MNEXC= existence bit
(548)	...1		SITMONRS_X	MNRES= existence bit
(548)	.... 1...		SITMONID_X	MNIDN= existence bit
(548)	.... .1..		SITPGCPY_X	PGCOPY= existence bit
(548)	.... ..1.		SITPGPRG_X	PGPURGE= existence bit
(548)	1		SITPGRET_X	PGRET= existence bit
(549)	BIT(8)	1	*	
(549)	1...		SITFCOMP_X	
(549)	.1..		SITPRGD_X	PRGDLAY= existence bit
(549)	..1.		SITALGN_X	ALIGN= existence bit
(549)	...1		SITNDDS_X	NODDS= existence bit
(549)	.... 1...		SITMCTSF_X	MCT= existence bit
(54A)	BIT(8)	1	*	
(54A)	1...		SITCDSA_X	CDSASZE existence bit
(54A)	.1..		SITUDSA_X	UDSASZE existence bit
(54A)	..1.		SITSDSA_X	SDSASZE existence bit
(54A)	...1		SITRDSA_X	RDSASZE existence bit
(54A)	.... 1...		SITECDSA_X	ECDSASZE existence bit
(54A)	.... .1..		SITEUDSA_X	EUDSASZE existence bit
(54A)	.... ..1.		SITESDSA_X	ESDSASZE existence bit

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(54A)	1		SITERDSA_X	ERDSASZE existence bit
(54B)	CHARACTER	1	*	Reserved *
(54C)	FULLWORD	4	*	Reserved
(550)	BIT(8)	1	*	
(550)	1...		*	Reserved
(550)	.1..		SITSTRTA_X	
(550)	..1.		*	Reserved
(550)	...1		SITSTART_X	START= existence bit
(550)	.... 1...		SITIND_X	
(550)	.... .1..		SITTCTOP_X	TCT startup option
(550)	.... ..1.		SITDCTOP_X	DCT startup option
(550)	1		*	Reserved
(551)	BIT(8)	1	*	
(551)	1...		SITPPTOP_X	PPT startup option
(551)	.1..		SITPCTOP_X	PCT startup option
(551)	..1.		SITCSAOP_X	CSA startup option
(551)	...1		SITICPOP_X	ICP startup option
(551)	.... 1...		SITTSPOP_X	TSP startup option
(551)	.... .1..		*	Reserved
(551)	.... ..1.		SITBMSOP_X	BMS startup option
(551)	1		*	Reserved
(552)	BIT(8)	1	*	
(552)	1...		SITMXSTS_X	MAXSSLTCBS override coded
(552)	.1..		*	Reserved
(552)	..1.		*	Reserved
(552)	...1		*	Reserved
(552)	.... 1...		*	Reserved
(552)	.... .1..		SITPMULT_X	PYTRAGE= existence bit
(552)	.... ..1.		SITSBTSK_X	SUBTSKS= existence bit
(552)	1		SITGMMNM_X	GMTRAN= existence bit
(553)	BIT(8)	1	*	
(553)	1...		*	Reserved (wbhttp not needed
(553)	.1..		SITMXTSK_X	MXT= existence bits
(553)	..1.		SITWBTIP_X	WEBDELAY(1) existence bit
(553)	...1		SITWBGCI_X	WEBDELAY(2) existence bit
(553)	.... 1...		SITFEAT1_X	Miscellaneous feature 1
(553)	.... .1..		SITFEAT2_X	Miscellaneous feature 2
(553)	.... ..1.		SITFEAT3_X	Miscellaneous feature 3

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(553)	1		SITFEAT4_X	Miscellaneous feature 4
(554)	BIT(8)	1	*	
(554)	1...		SITFEAT5_X	Miscellaneous feature 5
(554)	.1..		SITFEAT6_X	Miscellaneous feature 6
(554)	..1.		SITFEAT7_X	Miscellaneous feature 7
(554)	...1		SITFEAT8_X	Miscellaneous feature 8
(554)	.... 1...		SITGMTAD_X	CSECT address
(554)	.... .1..		SITSYSID_X	SYSIDNT= existence bit
(554)	.... ..1.		SITRAPL_X	RAPOOL= existence bit
(554)	1		SITHRAPL_X	HPO RAPOOL= existence bit
(555)	BIT(8)	1	*	
(555)	1...		SITOPNDL_X	OPNDLIM= existence bit
(555)	.1..		SITVTAM_X	VTAM= existence bit
(555)	..1.		SITLGNMS_X	LGNMSG= existence bit
(555)	...1		SITSKRTB_X	SKRxxxx= existence bit
(555)	.... 1...		SITTDBNO_X	TD= existence bit 1st
(555)	.... .1..		SITTDSNO_X	TD= existence bit 2nd
(555)	.... ..1.		SITTSBNO_X	TS= existence bit buffers
(555)	1		SITTSSNO_X	TS= existence bit start
(556)	BIT(8)	1	*	
(556)	1...		SITVMXWE_X	AIQMAX= existence bit
(556)	.1..		SITVAXIT_X	AIEXIT= existence bit
(556)	..1.		SITRAPLF_X	RAPOOL FORCE existence
(556)	...1		*	Reserved
(556)	.... 1...		*	Reserved
(556)	.... .1..		SITUOWNQ_X	UOWNETQL existence bit
(556)	.... ..1.		SITXRFFN_X	XRF= existence bit
(556)	1		SITXRSNS_X	
(557)	BIT(8)	1	*	
(557)	1...		SITGAPLD_X	APPLID= existence 1st
(557)	.1..		SITSAPLD_X	APPLID= existence 2nd
(557)	..1.		SITPDI_X	PDI= existence bit
(557)	...1		SITTAKE_X	TAKEOVR= existence bit
(557)	.... 1...		SITCLT_X	CLT= existence bit
(557)	.... .1..		SITCLTSF_X	CLT= existence bit
(557)	.... ..1.		SITADI_X	ADI= existence bit
(557)	1		SITJDI_X	JESDI= existence bit
(558)	BIT(8)	1	*	
(558)	1...		SITRMTRN_X	RMTRAN= existence bit

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(558)	.1..		SITPMERR_X	PARMERR= existence bit
(558)	..1.		SITNEW_X	NEWSIT= existence bit
(558)	...1		SITDSRPM_X	DSRTPGM= existence bit
(558)	.... 1...		SITTRNTY_X	TRTRANTY = existence bit
(558)	.... .1..		SITTRNSZ_X	TRTRANSZ = existence bit
(558)	.... ..1.		SITAXI_X	RST= existence bit
(558)	1		SITLANGS_X	NATLANG= existence bit
(559)	BIT(8)	1	*	
(559)	1...		SITGTRST_X	STNTR= existence bit standard
(559)	.1..		SITGTRSP_X	STNTR= existence bit special
(559)	..1.		SITMROB_X	MRO BATCHING PARAMETER
(559)	...1		SITTCUA_X	TCTUALOC existence bit
(559)	.... 1...		SITINIT_X	INITPARM existence bit
(559)	.... .1..		SITDISM_X	DISMACP existence bit
(559)	.... ..1.		SITSTRCD_X	STATRCD existence bit
(559)	1		SITUDTIM_X	UDTIM existence bit
(55A)	BIT(8)	1	*	
(55A)	1...		SITLUIT_X	LUITTIME existence bit
(55A)	.1..		SITDSA_X	DSALIM existence bit
(55A)	..1.		SITEDSA_X	EDSALIM existence bit
(55A)	...1		SITLLACP_X	LLACOPY existence bit
(55A)	.... 1...		SITSLD_X	SLD existence flag
(55A)	.... .1..		SITGRPL2_X	GRPLIST = existence bit 2
(55A)	.... ..1.		SITGRPL3_X	GRPLIST = existence bit 3
(55A)	1		SITGRPL4_X	GRPLIST = existence bit 4
(55B)	BIT(8)	1	*	
(55B)	1...		SITREMDL_X	Remote delete idle
(55B)	.1..		SITREMDI_X	Remote delete interval
(55B)	..1.		SITCMDPRO_X	CMDPROT existence
(55B)	...1		SITTCUAKY_X	TCTUAKEY existence
(55B)	.... 1...		SITCWAKY_X	CWAKEY existence
(55B)	.... .1..		SITSTPRO_X	STORPROT existence
(55B)	.... ..1.		SITRNTPGM_X	RENTPGM existence
(55B)	1		SITTRNISO_X	TRANISO existence
(55C)	BIT(8)	1	*	
(55C)	1...		SITMONCO_X	Converse monitoring exist
(55C)	.1..		SITMONSY_X	Syncpoint monitoring exist

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(55C)	..1.		SITMONTM_X	MNTIME exists
(55C)	...1		SITMONFR_X	Frequency monitoring exist
(55C)	.... 1...		*	Was MNSUBSYS (Obsolete)
(55C)	.... .1..		SITAPGM_X	PG autoinstall state
(55C)	.... ..1.		SITACTG_X	PG autoinstall catalog
(55C)	1		SITAPXT_X	PG autoinstall exit
(55D)	BIT(8)	1	*	
(55D)	1...		SITFRCQR_X	FORCEQR override coded
(55D)	.1..		SITMXOTS_X	MAXOPENTCBS override
(55D)	..1.		*	Reserved
(55D)	...1		SITMXXTS_X	MAXXPTCBS override
(55D)	.... 1...		SITMXSOC_X	MAXSOCKETS override coded
(55D)	.... .1..		SITSTEOD_X	STATEOD override coded
(55D)	.... ..1.		SITSTINT_X	STATINT override coded
(55D)	1		SITAUTST_X	AUTODST override coded
(55E)	BIT(8)	1	*	
(55E)	1...		*	Reserved, JVMLEVEL0TRAC
(55E)	.1..		*	Reserved, JVMLEVEL1TRAC
(55E)	..1.		*	Reserved, JVMLEVEL2TRAC
(55E)	...1		*	Reserved, JVMUSERTRACE
(55E)	.... 1...		*	Reserved
(55E)	.... .1..		*	Reserved, JVMCCSIZE
(55E)	.... ..1.		*	Reserved, JVMCCSTART
(55E)	1		SITICMNR_X	AUTORESETTIME override coded
(55F)	BIT(8)	1	*	
(55F)	1...		SITDEBU0_X	DEBUGTOOL override coded
(55F)	.1..		SITINFO_X	INFOCENTER override coded
(55F)	..1.		SITTSMLM_X	TSMAINLIMIT value coded
(55F)	...1		SITNIST_X	NISTSP800131A coded
(55F)	.... 111.		*	Reserved
(55F)	1		SITNQRNL_X	NQRNL override coded
(560)	BIT(8)	1	*	
(560)	1...		SITSVRHDR_X	HTTPSERVERHDR coded
(560)	.1..		SITUAHDR_X	HTTPUSRAGENTHDR coded

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(560)	..1.		SITSOTUN_X	SOTUNING coded
(560)	...1 1...		*	Reserved
(560)	.... .1..		SITWLMHS_X	WLM Health Status
(560)	.... ..1.		SITWLMHI_X	WLM Health Interval
(560)	1		SITWLMHA_X	WLM Health Adjustment
(561)	CHARACTER	7	*	Spare - alignment
The following table defines 64 Trace Selectivity Bits for standard trace. There is one bit for each domain.				
(568)	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.				
(570)	BIT(64)	8	SITTRXSP	Special Trace Existence
TRACE SELECTIVITY TABLE				
(578)	CHARACTER	1024	SITTRSTB	Beginning of table
(578)	BIT(64)	8	SITTRSTN (64)	Standard trace flags
(778)	BIT(64)	8	SITTRSPC (64)	Special trace flags
NATIONAL LANGUAGES LIST				
(978)	CHARACTER	36	SITLANGS	National Languages list
CSD PARAMETERS				
(99C)	CHARACTER	44	SITCSDSN	CSDDSN ie 44 char DSNAME
(9C8)	FULLWORD	4	SITCSDST	CSDSTRNO
(9CC)	FULLWORD	4	SITCSDBI	CSDBUFNI
(9D0)	FULLWORD	4	SITCSDBD	CSDBUFND
(9D4)	HALFWORD	2	SITCSDLS	CSDLSRNO
(9D6)	HALFWORD	2	SITCSDJI	CSDJID
(9D8)	HALFWORD	2	SITCSDFR	CSDFRLOG
(9DA)	BIT(8)	1	SITCSDRC	CSDRECOV
(9DB)	BIT(8)	1	SITCSIMG	CSDIMAGE
(9DC)	BIT(8)	1	SITCSDAC	CSDACC
(9DD)	BIT(8)	1	SITCSDIS	CSDDISP
(9DE)	BIT(8)	1	*	RLS flags
(9DE)	1...		SITCSRLS	CSD uses RLS
(9DE)	.1..		SITCSNRI	Integrity=uncommitted
(9DE)	..1.		SITCSCR	Integrity=consistent
(9DE)	...1		SITCSRR	Integrity=repeatable
(9DE)	 1111		*	Reserved
(9DF)	BIT(8)	1	SITFCFLG	FC Flags
(9DF)	1...		SITRLS	RLS enabled for this CICS
(9DF)	.1..		SITRTOL	RLS files in pool build
(9DF)	..1.		SITFCNRR	NonRLS ignore LOG

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(9DF)	...1 1...		*	Reserved
(9DF)	.... .1..		SITFCTH	FC Threadsafe Enabled
(9DF)	.... ..1.		*	Reserved
(9DF)	1		SITCILK	CI lock set for this CICS
AILDELAY KEYWORD				
(9E0)	CHARACTER	4	SITDDLY	AIDELAY DELETE DELAY TIME
CLSDSTP KEYWORD				
(9E4)	CHARACTER	1	SITCLSP	CLSDST NOTIFY/NONOTIFY
LLACOPY KEYWORD				
(9E5)	BIT(8)	1	SITLLACP	LLACOPY OPTION
(9E5)	1...		SITLLAY	LLACOPY=YES
(9E5)	.1..		SITLLAN	LLACOPY=NO
(9E5)	..1.		SITLLANC	LLACOPY=NEWCOPY
PGAIPGM KEYWORD				
(9E6)	CHARACTER	1	SITAPGM	PG autoinstall state
PGAICTLG KEYWORD				
(9E7)	CHARACTER	1	SITACTG	PG autoinstall catalog
PGAIEXIT KEYWORD				
(9E8)	CHARACTER	8	SITAPXT	PG autoinstall exit
Extended GRPLIST parameter				
(9F0)	CHARACTER	8	SITGRPL2	SPI grouplist 2
(9F8)	CHARACTER	8	SITGRPL3	SPI grouplist 3
(A00)	CHARACTER	8	SITGRPL4	SPI grouplist 4
Terminal idle keyword				
(A08)	UNSIGNED	4	SITREMDL	Remote delete idle
Interval keyword				
(A0C)	CHARACTER	4	SITREMDI	Remote delete interval
RLS Section of SIT				
(A10)	UNSIGNED	2	SITFTIMO	RLS timeout
(A12)	UNSIGNED	2	SITQTIMO	RLS quiesce timeout
Distributed routing program				
(A14)	CHARACTER	8	SITDSPGN	Distributed routing program
SECURE SOCKETS LAYER parameters				
(A1C)	UNSIGNED	4	SITSSLTI	SSL V3 timeout value
(A20)	UNSIGNED	1	SITSSCCH	SSLCACHE 1=CICS 2=Sysplex
(A21)	UNSIGNED	3	*	Reserved
(A24)	HALFWORD	2	SITSSCRP	CRL server port number
(A26)	HALFWORD	2	SITSSCRN	Length of CRL server

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A28)	CHARACTER	256	SITSSCRL	Name of CRL LDAP server
(B28)	CHARACTER	48	SITSSKYF	SSL Keyring
(B58)	HALFWORD	2	SITMXSSL	Max S8 TCBs (MAXSSLTCBS)
(B5A)	HALFWORD	2	*	reserved
MAXSOCKET parameter				
(B5C)	UNSIGNED	4	SITMAXSOCKS	MAXSOCKETS
(B60)	FULLWORD	4	*	Alignment
(B64)	UNSIGNED	4	SITBRMAXKEEPTIME	BRMAXKEEPTIME
(B68)	CHARACTER	1	SITAIBRIDGE	AIBRIDGE Yes/Auto
(B69)	CHARACTER	3	*	Reserved
(B6C)	CHARACTER	4	SITSTEOD	ST End-of-Day (0HHMMSSC)
(B70)	CHARACTER	4	SITSTINT	ST Interval (0HHMMSSC)
(B74)	CHARACTER	8	*	Reserved
DISPATCHER Parameters				
(B7C)	HALFWORD	2	*	Reserved
(B7E)	HALFWORD	2	SITMXXTS	Max XPLink TCBs limit
(B80)	CHARACTER	8	*	Reserved
JVM Trace Option Strings				
(B88)	ADDRESS	4	*	Reserved
JVMPROFILEDIR - Directory in HFS for JVM profiles				
(B8C)	CHARACTER	244	SITJVMPD	JVMPROFILEDIR
JVM classcache				
(C80)	CHARACTER	8	*	Reserved
(C88)	CHARACTER	8	*	Reserved
(C90)	CHARACTER	1	*	Reserved
(C91)	CHARACTER	3	*	Reserved for alignment
DEBUGTOOL and INFOCENTER keywords				
(C94)	BIT(8)	1	SITDBTL	DEBUGTOOL setting
(C94)	1...		SITDBTLY	Debug Tool is required
(C94)	.1..		SITINFOY	Infocentre URL specified
(C94)	..11 1111		*	Reserved
(C95)	BIT(24)	3	*	Reserved
(C98)	CHARACTER	256	SITINFOC	URL for infocentre
System defaults for DFHCNV				
(D98)	FULLWORD	4	SITCLICP	Default CLINTCP index
(D9C)	FULLWORD	4	SITSRVCP	Default SRVERCP index
LOCAL CCSID Parameter				
(DA0)	FULLWORD	4	SITCCSID	Region wide default CCSID

Table 499. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
XCF Group Name				
(DA4)	CHARACTER	8	SITXCFGP	XCF Group Name
USSCONFIG directory				
(DAC)	ADDRESS	4	SITUSS_CONFIG_ADDR	Address of USSCONFIG extension
USSHOME directory name				
(DB0)	UNSIGNED	1	SITCHOML	Length of USSHOME
(DB1)	CHARACTER	255	SITCHOME	USSHOME directory
NISTSP800131A keyword				
(EB0)	BIT(8)	1	SITNIST800	
(EB0)	1...		SITNIST800131A	NIST800-131A
(EB0)	.111 1111		*	Reserved
SOTUNING				
(EB1)	BIT(8)	1	SITSOTUN	
(EB1)	1...		SITSOTDA	Delay acc at limit
(EB1)	.1..		SITSOTNP	Turn off pers at lim
(EB1)	..1.		SITSOTPD	Periodic disconnect
(EB1)	...1 1111		*	Reserved
(EB2)	CHARACTER	6	*	Reserved - alignment
HTTPSERVERHDR and HTTPUSRAGENTHDR values				
(EB8)	CHARACTER	64	SITSVRHDR	HTTPSERVERHDR value
(EF8)	CHARACTER	64	SITUAHDR	HTTPUSRAGENTHDR val
(F38)	CHARACTER	0	DFHSITEA	End of table label

TRACE SELECTIVITY TABLE REDEFINED

Table 500.

Offset Hex	Type	Len	Name (Dim)	Description
(578)	STRUCTURE	1024	SITTRSTA	Redefine the table
(578)	BIT(64)	8	SITTRST1 (15)	Standard trace flags for first 15 domains
(5F0)	BIT(64)	8	SITAPSTN	AP Standard trace flags
(5F8)	BIT(64)	8	SITA1STN	A1 Standard traceflags
(600)	BIT(64)	8	SITA2STN	A2 Standard trace flags
(608)	BIT(64)	8	SITTRST2 (46)	Standard trace flags for next 46 domains
(778)	BIT(64)	8	SITTRSP1 (15)	Special trace flags for first 15 domains
(7F0)	BIT(64)	8	SITAPSPC	AP Special trace flags
(7F8)	BIT(64)	8	SITA1SPC	A1 Special trace flags
(800)	BIT(64)	8	SITA2SPC	A2 Special trace flags

Table 500. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(808)	BIT(64)	8	SITTRSP2 (46)	Special trace flags for next 46 domains

DL/I EXTENSION OF SIT

Table 501.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	DFHLISTA	
(0)	BIT(8)	1	DLIFLG	Flag value
(0)	1...		*	Reserved
(0)	.1..		*	Reserved
(0)	..1.		*	Reserved
(0)	...1		*	Reserved
(0)	.... 1...		*	Reserved
(0)	.... .1..		*	Reserved
(0)	.... ..1.		DLIPSBCK	PSB checking required
(0)	1		*	Reserved
(1)	BIT(8)	1	*	Reserved
(2)	CHARACTER	2	DLPDIRSF	PDIR suffix

GOOD MORNING MESSAGE

Table 502.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	248	DFHGMMS	
(0)	HALFWORD	2	SITGMTXL	Message length
(2)	CHARACTER	246	SITGMTXT	
(2)	CHARACTER	13	*	Message number
(F)	CHARACTER	19	*	Default message
(22)	CHARACTER	5	*	Trailer
(27)	CHARACTER	209	*	Filler
(F8)	CHARACTER	0	SITGMTXE	Message end

USSCONFIG extension @D87597C

Table 503.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	256	DFHCONFD	
(0)	UNSIGNED	1	SITCONFDL	Length of USSCONFIG
(1)	CHARACTER	255	SITCONFD	USSCONFIG directory

INITPARM chain structure

Table 504.

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 505.

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 506.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	SITSTOPT	
(0)	1...		WARMST	Warm start
(0)	.1..		COLDST	Cold start
(0)	..1.		*	
(0)	...1		COLDEX	Cold execution
(0)	.... 1...		*	
(0)	.... .1..		EMEREX	Emergency start
(0)	11		*	

Constants

Table 507.

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

Table 507. (continued)

Len	Type	Value	Name	Description
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
1	HEX	17	SITC17	Vers.1, release 7
1	HEX	21	SITC21	Vers.2, release 1
1	HEX	31	SITC31	Vers.3, release 1
1	HEX	32	SITC32	Vers.3, release 2
1	HEX	33	SITC33	Vers.3, release 3
1	HEX	41	SITC41	Vers.4, release 1
1	HEX	51	SITC51	Vers.5, release 1
1	HEX	52	SITC52	Vers.5, release 2
1	HEX	53	SITC53	Vers.5, release 3
1	HEX	61	SITC61	Vers.6, release 1
1	HEX	62	SITC62	Vers.6, release 2
1	HEX	63	SITC63	Vers.6, release 3
1	HEX	64	SITC64	Vers.6, release 4
1	HEX	65	SITC65	Vers.6, release 5
1	HEX	66	SITC66	Vers.6, release 6
1	HEX	67	SITC67	Vers.6, release 7
1	HEX	68	SITC68	Vers.6, release 8
1	HEX	69	SITC69	Vers.6, release 9
1	HEX	70	SITC70	Vers.7, release 0
1	HEX	71	SITC71	Vers.7, release 1
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

Table 507. (continued)

Len	Type	Value	Name	Description
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
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

Table 507. (continued)

Len	Type	Value	Name	Description
1	CHARACTER	N	SITMQN	not required
SECURITY CONSTANTS FOR SITMINTLS				
1	HEX	10	SITTLS10	TLS 1.0
1	HEX	11	SITTLS11	TLS 1.1
1	HEX	12	SITTLS12	TLS 1.2
1	HEX	1F	SITT10ON	TLS 1.0 Only
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 508.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	680	SJA	
Block header ----------				
(0)	CHARACTER	16	SJA_PREFIX	===> eyecatcher <===
(0)	HALFWORD	2	SJA_LENGTH	length of sja
(2)	CHARACTER	14	SJA_PREFIX_TEXT	>DFHSJAnchor
Domain state information ----------				
---------- -! All doubleword-aligned fields start here ! ---------- ----------				
(10)	CHARACTER	8	SJA_GENERAL_SPTOKEN	general subpool
(18)	CHARACTER	8	SJA_SJLRB_SPTOKEN	Liberty req blk
(20)	CHARACTER	8	SJA_SJLLB_SPTOKEN	Liberty listener
---------- -! All fullword-aligned fields start here ! ---------- ----------				
(28)	ADDRESS	4	SJA_LOCK_TOKEN	global lock token

Table 508. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2C)	ADDRESS	4	*	reserved
(30)	FULLWORD	4	SJA_PROFILE_DIR_LEN	len JVMPROFILEDIR
(34)	CHARACTER	12	SJA_STATS_DATA	SJ statistics data
(34)	ADDRESS	4	SJA_STATS_BUFFER_PTR	Statistics buffer
(38)	CHARACTER	8	SJA_STATS_LAST_ RESET_TIME	Stats last reset time
Master control block for JVMServers !@M6A jcb = JVMServer Control Block !@M6A				
(40)	ADDRESS	4	SJA_JCB_PTR	
(44)	ADDRESS	4	SJA_DFHSJOI_ENTRY	OSGi ICM entry pt
(48)	ADDRESS	4	SJA_DFHSJWR_ENTRY	WAR ICM entry pt
(4C)	ADDRESS	4	SJA_DFHSJEB_ENTRY	EBA ICM entry p
(50)	ADDRESS	4	SJA_DFHSJEA_ENTRY	EAR ICM entry pt
(54)	ADDRESS	4	SJA_DFHSJXS_ENTRY	JVMSERVER ICM
(58)	ADDRESS	4	SJA_BUNDLE_TO_SJ_ DIR_TOKEN	Dir token Bundle
(5C)	UNSIGNED	1	SJA_SECURITY_ STANDARDS	Security flags
(5C)	1...		SJA_SECURITY_ SP800131A	NIST SP800-131A
(5C)	.111 1111		*	reserved
(5D)	CHARACTER	3	*	reserved
---------- -! All halfword-aligned fields start here ! ---------- ----------! ---------- ----------! All unaligned fields start here ! ---------- ----------				
(60)	CHARACTER	244	SJA_PROFILE_DIR	SIT JVMPROFILEDIR
(154)	CHARACTER	9	SJA_APPLID	Null-terminated
(154)	CHARACTER	8	SJA_APPLID_AREA	Applid + nulls
(15C)	CHARACTER	1	SJA_APPLID_TERMINATOR	For 8 byte applid
(15D)	UNSIGNED	1	SJA_SJ_STATE	SJ domain state initialised, quiesced or terminated
(15E)	UNSIGNED	1	SJA_FLAGS	Flags
(15E)	1...		SJA_COLD_START	1=CICS cold started
(15E)	.1..		*	sja_first_jvm
The following bit is set if a WLP JVM server with zos platform has been enabled (only one allowed per region)				
(15E)	..1.		SJA_WLP_ZOS_PLATFORM	
(15E)	...1		SJA_IN_RESYNC	
(15E)	.... 11..		*	
(15E)	.... ..1.		SJA_SOS_INDICATOR	SOS Indicator
(15E)	1		SJA_MXT_QUEUEING	MXT Queueing
(15F)	CHARACTER	255	SJA_USS_HOME_DIR	USSHOME SIT PARM
(25E)	UNSIGNED	1	SJA_USS_HOME_LEN	Length of USSHOME

Table 508. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(25F)	CHARACTER	1	*	Reserved
(260)	CHARACTER	64	SJA_KEYRING_NAME	KEYRING SIT PARM
(2A0)	UNSIGNED	1	SJA_KEYRING_LEN	Length of KEYRING
(2A1)	CHARACTER	7	*	Reserved
(2A8)	CHARACTER	0	SJA_END	

Constants

Table 509.

Len	Type	Value	Name	Description
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 - 299 201-205 deleted by D66881				
2	DECIMAL	207	MSG_SJIN_RUNNING_JAVA_ VERSION	
2	DECIMAL	210	MSG_SJIN_START_JVM_ FAILED	
2	DECIMAL	211	MSG_SJIN_START_JVM_ THREW_EXCEPTION	
2	DECIMAL	212	MSG_SJIN_JVM_ TERMINATION_ERROR	
2	DECIMAL	213	MSG_SJIN_TERM_JVM_ THREW_EXCEPTION	
2	DECIMAL	214	MSG_SJIN_SYSTEM_EXIT_ INVOKED	
2	DECIMAL	215	MSG_SJIN_OSGI_INIT_ EXCEPTION	

Table 509. (continued)

Len	Type	Value	Name	Description
2	DECIMAL	216	MSG_SJIN_ENCLAVE_INIT_ EXCEPTION	
SJIS 301 - 399 dcl msg_sjis_xxxxx fixed bin (16) constant (301); SJST 401 - 499 dcl msg_sjst_xxxxx fixed bin (16) constant (401); SJSC 1001 - 1099				
2	DECIMAL	1001	MSG_SJSC_ATTACH_ THREAD_FAILED	
2	DECIMAL	1002	MSG_SJSC_CLASS_NOT_ FOUND	
2	DECIMAL	1003	MSG_SJSC_METHOD_NOT_ FOUND	
2	DECIMAL	1004	MSG_SJSC_JVM_THREW_ EXCEPTION	
2	DECIMAL	1005	MSG_SJSC_DETACH_ THREAD_FAILED	
Message reason constants for MSG SJ0210 (Start JVM failed)				
1	DECIMAL	1	MSG_SJIN_ERROR_ PROCESSING_PROFILE	
1	DECIMAL	2	MSG_SJIN_ERROR_ OPENING_JVM_DLL	
1	DECIMAL	3	MSG_SJIN_JNI_CREATE_ NOT_FOUND	
1	DECIMAL	4	MSG_SJIN_SETUP_CLASS_ NOT_FOUND	
1	DECIMAL	5	MSG_SJIN_TERMINATION_ CLASS_NOT_FOUND	
1	DECIMAL	6	MSG_SJIN_CREATE_JVM_ FAILED	
1	DECIMAL	7	MSG_SJIN_CHDIR_FAILED	
1	DECIMAL	8	MSG_SJIN_WORK_DIR_ READONLY	
1	DECIMAL	9	MSG_SJIN_ERROR_ LOCATING_MAIN	
1	DECIMAL	10	MSG_SJIN_ATTACH_FAILED	
1	DECIMAL	11	MSG_SJIN_SETUP_CLASS_ TIMEDOUT	
1	DECIMAL	12	MSG_SJIN_ENCLAVE_INIT_ FAILED	
1	DECIMAL	13	MSG_SJIN_VOLUME_CHECK_ FAILED	
1	DECIMAL	14	MSG_SJIN_REDIRECT_IO_ FAILED	
1	DECIMAL	20	MSG_SJIN_INTERNAL_ ERROR	
Message reason constants for MSG SJ0212 (JVM termination error)				

Table 509. (continued)

Len	Type	Value	Name	Description
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	
1	DECIMAL	5	MSG_SJIN_TERM_TIMEOUT	
SJRL 1100 - 1149 ! Assume 50 SRJL msgs ample				
2	DECIMAL	1100	MSG_BUNDLE_INSTALL_ FAILED	
2	DECIMAL	1101	MSG_BUNDLE_ENABLE_ FAILED	
2	DECIMAL	1102	MSG_BUNDLE_DISABLE_ FAILED	
2	DECIMAL	1104	MSG_BUNDLE_JVMSERVER_ DISABLED	
2	DECIMAL	1105	MSG_BUNDLPART_ INSTALLED	
2	DECIMAL	1106	MSG_BUNDLPART_ DISCARDED	
2	DECIMAL	1107	MSG_BUNDLPART_ENA_OR_ DIS	
2	DECIMAL	1108	MSG_BUNDLPART_ VERSIONRANGE_INV	
2	DECIMAL	1109	MSG_BUNDLE_FIND_ HIGHEST_FAILED	
2	DECIMAL	1110	MSG_BUNDLE_PHASEIN_ COMPLETE	
Message reason constants for MSG SJ1100 (OSGi bundle install err)				
1	DECIMAL	1	MSG_BUNDLE_INSTALL_ UNKNOWN_ERROR	
1	DECIMAL	2	MSG_BUNDLE_INSTALL_NO_ JVMSERVER	
1	DECIMAL	3	MSG_BUNDLE_INSTALL_ EXC_FROM_JVMSERVER	
				QDXC
1	DECIMAL	4	MSG_BUNDLE_INSTALL_NO_ OSGI	
1	DECIMAL	5	MSG_BUNDLE_INTERNAL_ ERROR	
1	DECIMAL	6	MSG_BUNDLE_DUPLICATE_ BUNDLE	
1	DECIMAL	7	MSG_BUNDLE_JVMSERVER_ NOT_LIBERTY	
1	DECIMAL	8	MSG_BUNDLE_JVMSERVER_ IS_LIBERTY	
Message reason constants for MSG SJ1101 (OSGi bundle enable err)				

Table 509. (continued)

Len	Type	Value	Name	Description
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	
Msg constants for msg SJ1104 (JVMSERVER disabled)				
1	DECIMAL	1	MSG_BUNDLE_INSTALL_OP_ FAILED	
1	DECIMAL	2	MSG_BUNDLE_ENABLE_OP_ FAILED	
Msg reason constants for MSG SJ1108 (OSGi bundle find highest err)				
1	DECIMAL	1	MSG_BUNDLE_INSTALL_ INV_VERSION_RANGE	
Msg reason constants for MSG SJ1109 (OSGi bundle find highest err)				
1	DECIMAL	1	MSG_FIND_HIGHEST_NO_ JVMSERVER	
1	DECIMAL	2	MSG_FIND_HIGHEST_ JVMSERVER_NOT_ENA	
1	DECIMAL	3	MSG_FIND_HIGHEST_NO_ BUNDLE_IN_RANGE	
1	DECIMAL	4	MSG_FIND_HIGHEST_ VERSION_FAILED	
1	DECIMAL	5	MSG_FIND_HIGHEST_ INTERNAL_ERROR	
2	DECIMAL	1200	MSG_JVMSERVER_ INSTALLED_OK	
2	DECIMAL	1201	MSG_JVMSERVER_INSTALL_ FAILED	
2	DECIMAL	1202	MSG_JVMSERVER_NAME_ INVALID	
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	

Table 509. (continued)

Len	Type	Value	Name	Description
2	HEX	0106	TID_SJDM_RELEASE_LOCK_ ERROR	
2	HEX	0107	TID_SJDM_NO_STORAGE_ FOR_SJA	
2	HEX	0108	TID_SJDM_NO_STORAGE_ FOR_STATS	
2	HEX	010B	TID_SJDM_NO_STORAGE_ FOR_JCB	
2	HEX	010D	TID_SJDM_CREATE_ BUNDLE_DIRECTORY_ERROR	
2	HEX	0201	TID_SJIN_ENTRY	
2	HEX	0202	TID_SJIN_EXIT	
2	HEX	0203	TID_SJIN_RECOVERY	
2	HEX	0204	TID_SJIN_INVALID_ FORMAT	
2	HEX	0205	TID_SJIN_INVALID_ FUNCTION	
2	HEX	0206	TID_SJIN_GET_LOCK_ ERROR	
2	HEX	0207	TID_SJIN_RELEASE_LOCK_ ERROR	
2	HEX	0208	TID_SJIN_INVALID_DSAT_ FUNCTION	
2	HEX	0209	TID_SJIN_INTERNAL_ ERROR	
2	HEX	020E	TID_SJIN_RUNNING_JAVA_ VERSION	
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	

Table 509. (continued)

Len	Type	Value	Name	Description
2	HEX	0245	TID_SJIN_SETUP_CLASS_ TIMEDOUT	
2	HEX	0246	TID_SJIN_TERM_CLASS_ TIMEDOUT	
2	HEX	0247	TID_SJIN_ENCLAVE_INIT_ FAILED	
2	HEX	0248	TID_SJIN_OSGI_INIT_ FAILED	
2	HEX	0249	TID_SJIN_VOLUME_CHECK_ FAILED	
2	HEX	024A	TID_SJIN_JVMSERVER_ EXITING	
2	HEX	024B	TID_SJIN_REDIRECT_IO_ FAILED	
2	HEX	024C	TID_SJIN_JVM_ TERMINATION_ERROR	
2	HEX	024D	TID_SJIN_PTHREAD_ CREATE_TIMEOUT	
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	
2	HEX	0306	TID_SJIS_GET_LOCK_ ERROR	
2	HEX	0307	TID_SJIS_RELEASE_LOCK_ ERROR	
2	HEX	0401	TID_SJST_ENTRY	
2	HEX	0402	TID_SJST_EXIT	
2	HEX	0403	TID_SJST_RECOVERY	
2	HEX	0404	TID_SJST_INVALID_ FORMAT	
2	HEX	0405	TID_SJST_INVALID_ FUNCTION	
2	HEX	0406	TID_SJST_INVALID_PARMS	
2	HEX	0407	TID_SJST_GET_EXC_LOCK_ ERROR	
2	HEX	0408	TID_SJST_RELEASE_EXC_ LOCK_ERROR	
2	HEX	0409	TID_SJST_GET_SHR_LOCK_ ERROR	
2	HEX	0410	TID_SJST_RELEASE_SHR_ LOCK_ERROR	
2	HEX	0411	TID_SJST_RECOVERY_ RELEASE_LOCK_ERROR	
2	HEX	0412	TID_SJST_UNKNOWN_KE_ ERROR_CODE	

Table 509. (continued)

Len	Type	Value	Name	Description
2	HEX	0501	TID_SJL_ATTACH_FAILED	
2	HEX	0502	TID_SJL_LISTENER_ FAILED	
2	HEX	0601	TID_SJNT_ENTRY	
2	HEX	0602	TID_SJNT_EXIT	
2	HEX	0603	TID_SJNT_RECOVERY	
2	HEX	0604	TID_SJNT_INVALID_ FORMAT	
2	HEX	0605	TID_SJNT_INVALID_ FUNCTION	
2	HEX	0901	TID_SJSM_ENTRY	
2	HEX	0902	TID_SJSM_EXIT	
2	HEX	0903	TID_SJSM_RECOVERY	
2	HEX	0904	TID_SJSM_INVALID_ FORMAT	
2	HEX	0905	TID_SJSM_INVALID_ FUNCTION	
2	HEX	0A01	TID_SJDS_ENTRY	
2	HEX	0A02	TID_SJDS_EXIT	
2	HEX	0A03	TID_SJDS_RECOVERY	
2	HEX	0A04	TID_SJDS_INVALID_ FORMAT	
2	HEX	0A05	TID_SJDS_INVALID_ FUNCTION	
2	HEX	0A06	TID_SJDS_INTERNAL_ ERROR	
2	HEX	0A07	TID_SJDS_EXCEPTION_ DATA	
2	HEX	0B01	TID_SJJS_ENTRY	
2	HEX	0B02	TID_SJJS_EXIT	
2	HEX	0B03	TID_SJJS_INVALID_ FORMAT	
2	HEX	0B04	TID_SJJS_INVALID_ FUNCTION	
2	HEX	0B05	TID_SJJS_RECOVERY_ ENTERED	
2	HEX	0B07	TID_SJJS_INTERNAL_ ERROR	
2	HEX	0B08	TID_SJJS_LE_RUNOPTS	
2	HEX	0B09	TID_SJJS_GETMAIN_ERROR	
2	HEX	0B0A	TID_SJJS_ATTACH_ERROR	
2	HEX	0B0B	TID_SJJS_URI_ERROR	
2	HEX	0B0C	TID_SJJS_URIMAP_ERROR	
2	HEX	0B0D	TID_SJJS_ATTACH_PARMS	
2	HEX	0B0E	TID_SJJS_ATTACH_ DISABLED_ERROR	
2	HEX	0B0F	TID_SJJS_ATTACH_ NOTFOUND_ERROR	
2	HEX	0B10	TID_SJJS_JVMSERVER_ REQUEST	
2	HEX	0B11	TID_SJJS_URIMAP_ DISABLED_ERROR	

Table 509. (continued)

Len	Type	Value	Name	Description
2	HEX	0B12	TID_SJJS_URIMAP_ SCHEME_ERROR	
2	HEX	0B13	TID_SJJS_INQUIRE_ BUNDLE_FAILED	
2	HEX	0B14	TID_SJJS_DELETED_TCB	
2	HEX	0B15	TID_SJJS_SWITCH_ CONTEXT	
2	HEX	0B16	TID_SJJS_URIMAP_ UNAVAIL	
2	HEX	0B17	TID_SJJS_PROFILEDIR_ TOO_LONG	
2	HEX	0B18	TID_SJJS_THREADLIMIT	
2	HEX	0B19	TID_SJJS_WRONG_TCB	
2	HEX	0B20	TID_SJJS_SHUTDOWN_ TIMEOUT	
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	0C0C	TID_SJTH_ALLOC_THREAD	
2	HEX	0C0D	TID_SJTH_WAIT_FOR_ THREAD	
2	HEX	0C0E	TID_SJTH_DEALLOC_ THREAD	
2	HEX	0D01	TID_SJSC_NATIVE_ENTRY	
2	HEX	0D02	TID_SJSC_NATIVE_EXIT	
2	HEX	0D03	TID_SJSC_ATTACH_ THREAD_FAILED	
2	HEX	0D04	TID_SJSC_CLASS_NOT_ FOUND	
2	HEX	0D05	TID_SJSC_METHOD_NOT_ FOUND	
2	HEX	0D06	TID_SJSC_JVM_THREW_ EXCEPTION	
2	HEX	0D07	TID_SJSC_DETACH_ THREAD_FAILED	
2	HEX	0D10	TID_SJSC_PTHREAD_ENTRY	
2	HEX	0D11	TID_SJSC_PTHREAD_EXIT	

Table 509. (continued)

Len	Type	Value	Name	Description
2	HEX	0D12	TID_SJSC_PTHREAD_WAIT_ FOR_WORK	
2	HEX	0D13	TID_SJSC_INVOKING_SJ_ PTHREAD	
2	HEX	0D14	TID_SJSC_SJ_PTHREAD_RC	
->@D55806A				
2	HEX	0D20	TID_SJSC_NOT_LIBERTY_ SERVER	
2	HEX	0D21	TID_SJSC_FILE_OPEN_ FAILED	
2	HEX	0D22	TID_SJSC_FILE_READ_ FAILED	
2	HEX	0D23	TID_SJSC_BAD_ INSTALLEDAPPS_FILE	
2	HEX	0D24	TID_SJSC_BAD_FILE_ STATUS	
2	HEX	0D25	TID_SJSC_DUPLICATE_ WLP_BUNDLE	
2	HEX	0D26	TID_SJSC_ENVVAR_NOT_ SET	
<-@D55806A				
2	HEX	0D27	TID_SJSC_JAVAPROP_NOT_ SET	
2	HEX	0D28	TID_SJSC_FILE_WRITE_ FAILED	
2	HEX	0E01	TID_SJRL_ENTRY	
2	HEX	0E02	TID_SJRL_EXIT	
Error trace points in DFHSJRL				
2	HEX	0E03	TID_SJRL_INVALID_ FORMAT	
2	HEX	0E04	TID_SJRL_INVALID_ FUNCTION	
2	HEX	0E05	TID_SJRL_RECOVERY_ ENTERED	
2	HEX	0E07	TID_SJRL_UNKNOWN_KE_ ERROR_CODE	
2	HEX	0E0A	TID_SJRL_XML_GETMAIN_ FAILED	
2	HEX	0E0B	TID_SJRL_BUNDLEPART_ GETMAIN_FAILED	
2	HEX	0E0C	TID_SJRL_CONVERT_ FAILED	
2	HEX	0E0D	TID_SJRL_BAD_XML_DATA	
2	HEX	0E0E	TID_SJRL_LDLD_DEFINE_ FAILED	
2	HEX	0E0F	TID_SJRL_LDLD_ACQUIRE_ FAILED	
2	HEX	0E10	TID_SJRL_CREATE_ CHANNEL_FAILED	
2	HEX	0E11	TID_SJRL_BUNDLE_ INSTALL_FAILED	
2	HEX	0E12	TID_SJRL_BUNDLE_ ENABLE_FAILED	

Table 509. (continued)

Len	Type	Value	Name	Description
2	HEX	0E13	TID_SJRL_GET_ CONTAINER_FAILED	
2	HEX	0E14	TID_SJRL_FIND_HIGHEST_ FAILED	
2	HEX	0E15	TID_SJRL_PHASEIN_ INSTALL_FAILED	
2	HEX	0E17	TID_SJRL_JVMSERVER_ NOT_ENABLED	
2	HEX	0E18	TID_SJRL_GETMAIN_ USEFUL_FAILED	
Success trace points in DFHSJRL				
2	HEX	0E30	TID_SJRL_PARSED_XML	
2	HEX	0E31	TID_SJRL_OSGIBUNDLE_ INFO	
2	HEX	0E32	TID_SJRL_WARBUNDLE_ INFO	
2	HEX	0E33	TID_SJRL_EBABUNDLE_ INFO	
2	HEX	0E34	TID_SJRL_EARBUNDLE_ INFO	
2	HEX	0E35	TID_SJRL_OSGIBUNDLE_ INFO_RANGE	
2	HEX	0E36	TID_SJRL_HIGH_VERSION_ FOUND	
2	HEX	0E37	TID_SJRL_FREE_NEW_ SJBUN	
SJBD traces from SJRL				
2	HEX	0E41	TID_SJRL_DUPLICATE_ BUNDLE_FOUND	
2	HEX	0E61	TID_SJBD_ENTRY	
2	HEX	0E62	TID_SJBD_EXIT	
Error trace points in DFHSJBD				
2	HEX	0E63	TID_SJBD_INVALID_ FORMAT	
2	HEX	0E64	TID_SJBD_INVALID_ FUNCTION	
2	HEX	0E65	TID_SJBD_RECOVERY_ ENTERED	
2	HEX	0E66	TID_SJBD_NEW_SJBUN	
2	HEX	0F01	TID_SJXM_ENTRY	
2	HEX	0F02	TID_SJXM_EXIT	
2	HEX	0F03	TID_SJXM_RECOVERY	
2	HEX	0F04	TID_SJXM_INVALID_ FORMAT	
2	HEX	0F05	TID_SJXM_INVALID_ FUNCTION	
2	HEX	1001	TID_SJRM_ENTRY	
2	HEX	1002	TID_SJRM_EXIT	
2	HEX	1003	TID_SJRM_RECOVERY_ ENTERED	

Table 509. (continued)

Len	Type	Value	Name	Description
2	HEX	1004	TID_SJRM_INVALID_ FORMAT	
2	HEX	1005	TID_SJRM_INVALID_ FUNCTION	
2	HEX	1006	TID_SJRM_REPLY_DO_ COMMIT_CALLED	
2	HEX	1007	TID_SJRM_SEND_DO_ COMMIT_CALLED	
2	HEX	1008	TID_SJRM_ATTACH_ FAILURE	
2	HEX	1009	TID_SJRM_INQUIRE_LINK_ FAILURE	
2	HEX	100A	TID_SJRM_XID	
2	HEX	100B	TID_SJRM_INQUIRE_UOW_ FAILURE	
2	HEX	1101	TID_SJRE_ENTRY	
2	HEX	1102	TID_SJRE_EXIT	
2	HEX	1103	TID_SJRE_RECOVERY_ ENTERED	
2	HEX	1104	TID_SJRE_INVALID_ FORMAT	
2	HEX	1105	TID_SJRE_INVALID_ FUNCTION	
2	HEX	1106	TID_SJRE_START_BROWSE_ ERROR	
2	HEX	1107	TID_SJRE_LINK_ COORDINATOR_ERROR	
2	HEX	1108	TID_SJRE_GET_NEXT_ LINK_ERROR	
2	HEX	1109	TID_SJRE_INQUIRE_UOW_ ERROR	
2	HEX	110A	TID_SJRE_END_BROWSE_ ERROR	
Tracepoints issued from WLPLink.c				
2	HEX	110B	TID_SJWL_WLPLINK_ENTRY	
2	HEX	110C	TID_SJWL_WLPLINK_EXIT	
4	CHARACTER	ASJA	ABEND_ASJA	
4	CHARACTER	ASJB	ABEND_ASJB	
4	CHARACTER	ASJC	ABEND_ASJC	
4	CHARACTER	ASJD	ABEND_ASJD	
4	CHARACTER	ASJE	ABEND_ASJE	
4	CHARACTER	ASJF	ABEND_ASJF	
4	CHARACTER	ASJG	ABEND_ASJG	
4	CHARACTER	ASJH	ABEND_ASJH	
8	CHARACTER	ASJS	ABEND_ASJS	
4	CHARACTER	ASJU	ABEND_ASJU	

Table 509. (continued)

Len	Type	Value	Name	Description
4	CHARACTER	ASJ7	ABEND_ASJ7	
Minimum Java version as null-terminated string 1.7.0				
6	CHAR HEX	F14BF74B F000	SJ_MIN_JAVA_VERSION	
8	CHARACTER	SYSTEM	DEFINESOURCE_SYSTEM	
8	CHAR HEX	00000000 00000000	NULL_TIME	
2	DECIMAL	0	AMSIG_UNKNOWN_AGENT	
2	DECIMAL	1	AMSIG_CSDAPI	
2	DECIMAL	2	AMSIG_CSDBATCH	
2	DECIMAL	3	AMSIG_DREPAPI	
2	DECIMAL	4	AMSIG_CREATE_SPI	
2	DECIMAL	5	AMSIG_GRPLIST	
2	DECIMAL	6	AMSIG_AUTOINSTALL	
2	DECIMAL	7	AMSIG_SYSTEM	
2	DECIMAL	8	AMSIG_DYNAMIC	
2	DECIMAL	9	AMSIG_BUNDLE	
2	DECIMAL	10	AMSIG_TABLE	
2	DECIMAL	11	AMSIG_CLOUD	
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	
SJ Domain States (printed in formatted dump) ----------				
1	DECIMAL	1	SJ_STATE_INITIALISING	
1	DECIMAL	2	SJ_STATE_INITIALISED	
1	DECIMAL	3	SJ_STATE_QUIESCING	
1	DECIMAL	4	SJ_STATE_QUIESCED	
1	DECIMAL	5	SJ_STATE_TERMINATED	
Error codes used on MVS POST for sj_request_reply_ecb ----------				
3	NUMB HEX	000000	SJ_POST_OK	
3	NUMB HEX	000001	SJ_POST_GETMAIN_ERROR	
3	NUMB HEX	000002	SJ_POST_ATTACH_ERROR	
3	NUMB HEX	000003	SJ_POST_ABEND	
3	NUMB HEX	000004	SJ_POST_THREADLIMIT	
Literals ----------				
2	CHARACTER	SJ	COMPID	
8	CHARACTER	SJGENRAL	SPNAME_GENERAL	

Table 509. (continued)

Len	Type	Value	Name	Description
8	CHARACTER	SJLRB	SJ_SJLRB_SP	
8	CHARACTER	SJLLB	SJ_SJLLB_SP	
14	CHARACTER	>DFHSJANCHOR	SJA_EYE_CATCHER	
14	CHARACTER	>DFHSJLRBBLK	SJLRB_EYE_CATCHER	
8	CHARACTER	SJGLOBAL	SJ_LOCK	
8	CHARACTER	JCB_LOCK	SJ_JCB_LOCK	
8	CHARACTER	DFHSJTHP	SJ_THREADJOINER_PROG	
4	CHARACTER	OSGi	SJ_BUNDLETYPE_OSGI	
3	CHARACTER	WAR	SJ_BUNDLETYPE_WAR	
3	CHARACTER	EBA	SJ_BUNDLETYPE_EBA	
3	CHARACTER	EAR	SJ_BUNDLETYPE_EAR	
4	CHARACTER	JVMS	SJ_BUNDLETYPE_JVMS	
Misc. constants ----------				
4	DECIMAL	4096	SJ_STATS_BUFFER_SIZE	
4	DECIMAL	32	SJ_HISTORY_LIST_SIZE	
2	DECIMAL	16384	SJ_JVMPROF_SIZE	
Error codes (for DFHKERN RECOVERY_REQUEST) ----------				
4	CHARACTER	ASJA	LOCK_ERROR_CODE	
4	CHARACTER	ASJB	UNLOCK_ERROR_CODE	
4	CHARACTER	ASJL	NO_LINK_STACK_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_OSGI_BUNDLE_TYPE_ NAME	
51	CHARACTER	http://www.ibm.com/xmlns/prod/cics/bundle/WARBUNDLE	SJ_WAR_BUNDLE_TYPE_ NAME	

Table 509. (continued)

Len	Type	Value	Name	Description
51	CHARACTER	http://www.ibm.com/xmlns/prod/cics/bundle/EBABUNDLE	SJ_EBA_BUNDLE_TYPE_ NAME	
51	CHARACTER	http://www.ibm.com/xmlns/prod/cics/bundle/EARBUNDLE	SJ_EAR_BUNDLE_TYPE_ NAME	
51	CHARACTER	http://www.ibm.com/xmlns/prod/cics/bundle/JVMSERVER	SJ_JVMS_BUNDLE_TYPE_ NAME	
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. IMPORTANT if this value is changed, see also DFHDTCIH and DFHSJJS				
4	DECIMAL	256	SJTH_THREAD_ARRAY_DIM	
8	CHAR HEX	00000000 00000000	NULL_THREAD	
4	CHAR HEX	00000000	NO_OWNER	
1	NUMB HEX	00	RESET_NO	
1	NUMB HEX	01	RESET_YES	
1	NUMB HEX	00	DATA_NO	
1	NUMB HEX	01	DATA_YES	
1	DECIMAL	0	NORMAL_THREAD	
1	DECIMAL	1	SYS_THREAD	
1	DECIMAL	1	IS_OSGIBUNDLE	
1	DECIMAL	2	IS_WARBUNDLE	
1	DECIMAL	3	IS_EBABUNDLE	
1	DECIMAL	4	IS_EARBUNDLE	
4	DECIMAL	1	SJ_OK	
4	DECIMAL	2	SJ_EXCEPTION	

Table 509. (continued)

Len	Type	Value	Name	Description
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	
4	DECIMAL	3	SJ_JVMSERVER_NOT_FOUND	
4	DECIMAL	4	SJ_INVALID_VERSION_ RANGE	
4	DECIMAL	5	SJ_NO_BUNDLE_IN_RANGE	
4	DECIMAL	6	SJ_FIND_HIGHEST_ VERSION_FAILED	
4	DECIMAL	7	SJ_INTERNAL_ERROR	
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	
2	DECIMAL	2000	MAXTHRDTCBS	
2	DECIMAL	1	RESERVED_SYSTEM_ THREADS	
4	CHARACTER	AKC3	PURGED_ABCODE	
4	CHARACTER	SJRL	BUNDLE_DIRECTORY	

SJSDS - JVMSERVER Resource Statistics

```
CONTROL BLOCK NAME = DFHSJSDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSJSPS
DESCRIPTIVE NAME = CICS TS JVMSERVER statistics record
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2008, 2013
FUNCTION =
       This data area contains the JVMSERVER statistics
       provided by the SJ Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the
       statistics global user exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the SJ Domain to store
       statistics to be passed to the user in response to a
       for JVMSERVER statistics. The storage is released when
       the user task is detached.
```

```
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
```

Table 510.

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
(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

Table 510. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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				
(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	"*"

Table 510. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(138)		0	SJSDS_LENGTH	"*-SJSDS_LEN" JVMSERVER record length
Constants that denote an SJ JVMSERVER stats record				
(138)	.111 .1..		SJSIDR	"116" JVMSERVER resid stats id
(138)	1		SJS_VERS	"X'01'" Record version number Change Agents
(138)	1		SJS_CSDAPI_CHANGE	"0001" CSD API
(138)	.... ..1.		SJS_CSDBATCH_CHANGE	"0002" DFHCSDUP
(138)	11		SJS_DREPAPI_CHANGE	"0003" DREP API
(138)	.... .1..		SJS_CREATE_CHANGE	"0004" EXEC CREATE SPI Install Agents
(138)	1		SJS_CSDAPI_INSTALL	"0001" CSD API
(138)	.... .1..		SJS_CREATE_INSTALL	"0004" EXEC CREATE SPI
(138)	.... .1.1		SJS_GRPLIST_INSTALL	"0005" GRPLIST
(138)	.... 1..1		SJS_BUNDLE_INSTALL	"0009" BUNDLE
(138)	1		SJS_JVMSERVER_STATE_ DISABLED	"01"
(138)	.... ..1.		SJS_JVMSERVER_STATE_ ENABLED	"02"
(138)	11		SJS_JVMSERVER_STATE_ DISCARDING	"03"
(138)	.... .1..		SJS_JVMSERVER_STATE_ DISABLING	"04"
(138)	.... .1.1		SJS_JVMSERVER_STATE_ ENABLING	"05"

SKRQ - Subtask management parameter block

Table 511.

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 512.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	BITSTRING	1	SKRQTR	V*1 FUNCTION REQUEST BYTE
REQUEST TYPE VALUES				
(0)	1		SKRQPER	"X'01'" PERFORM
(0)	.... ..1.		SKRQWAIT	"X'02'" WAIT
(0)	11		SKRQRET	"X'03'" RETURN

Table 512. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	.... .1..		SKRQTER	"X'04'" TERMINATE
(0)	.... .1.1		SKRQDWE	"X'05'" DWE TO BE PROCESSED
(1)	BITSTRING	1	SKRQRM	V*2 REQUEST MODIFIER
BITS DEFINED FOR REQUEST MODIFIER				
(1)	1		SKRQAY	"X'01'" AUTH=YES SPECIFIED
(1)	.... ..1.		SKRQCI	"X'02'" CLASS=I/O SPECIFIED
(1)	.... .1..		SKRQSS	"X'04'" SAVAREA SPECIFIED
(1)	.... 1...		SKRQSY	"X'08'" SYNC=YES SPECIFIED
(2)	BITSTRING	1		V*3 RESERVED
(3)	BITSTRING	1	SKRQRC	V*4 RESPONSE CODE
RESPONSE CODE VALUES				
(3)	....		SKRQNORM	"0" NORMAL RESPONSE
(3)	.... .1..		SKRQUCF	"4" USER CODE FAILED
(3)	.... 1...		SKRQSCF	"8" SUBTASK CODE FAILED
(3)	.... 11..		SKRQUPR	"12" UNABLE TO PERFORM REQUEST
(3)	...1		SKRQRNC	"16" REQUEST NEVER COMPLETED
(3)	...1 .1..		SKRQINV	"20" INVALID REQUEST
(3)	...1 1...		SKRQIES	"24" INVALID ECB ADDRESS SUPPLIED
(3)	...1 11..		SKRQTWC	"28" USER TASK WAS CANCELLED
SUBTASK IDENTIFIERS				
(3)	1		SKSUBXX1	"1" GENERAL SUBTASK/FALLBACK
(3)	.... ..1.		SKSUBFS1	"2" FILE CONTROL/SECURITY SUBTASK
(3)	11		SKSUBSP1	"3" SPOOLER SUBTASK NUMBER 1
(3)	.... .1..		SKSUBSP2	"4" SPOOLER SUBTASK NUMBER 2
(4)	ADDRESS	4	SKRQRTN	ADDRESS OF ROUTINE TO EXECUTE
(8)	FULLWORD	4	SKRQPARM	ADDRESS OF PARM FIELD
(C)	ADDRESS	4	SKRQECBA	ADDRESS OF ECB
(10)	ADDRESS	4	SKRQTACB	ADDRESS OF TACB SLOT

Table 512. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(14)	ADDRESS	4	SKRQSUBI	ADDRESS OF SUBTASK ID FIELD
(18)	ADDRESS	4	SKRQPRTY	ADDRESS OF PRIORITY HALFWORD
(18)	...1 11..		SKRQSIZE	"*-DFHSKRQ" SIZE IN BYTES

SKA - SKP subtask control area

```
CONTROL BLOCK NAME = DFHSKAPS
DESCRIPTIVE NAME = CICS TS (SKP) Subtask Control Area.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1983, 2014
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 513.

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

Table 513. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
	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.			
(2C)	1...		*	moved to FLAG2
	deleted by APAR deleted by APAR			
(2C)	.1..		*	moved to FLAG2
	deleted by APAR deleted by APAR deleted by APAR			
(2C)	..1.		*	moved to FLAG2

Table 513. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
	deleted by APAR deleted by APAR			
(2C)	...1		*	moved to FLAG3
	---------- deleted by APAR FOLLOWING FLAG IS SPARE. deleted by APAR			
(2C)	.... 1...		*	reserved
	SKASINIT indicates that this subtask has been initialised and is running.			
(2C)	.... .1..		SKASINIT	subtask is initialised
	deleted by APAR Following flag is spare.			
(2C)	.... ..1.		*	moved to FLAG2
	SKASDEAD indicates the subtask has encountered an error preventing further execution. It is set by SKC and referenced by SKM.			
(2C)	1		SKASDEAD	subtask is dead
	SKAFLAG2 IS A FLAG BYTE UPDATED BY 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.			
(2D)	1...		SKARGPSW	regs&psw are in SKA
	SKAABCP indicates the presence of the operating system abend code in DFHSKAPS.			
(2D)	.1..		SKAABCP	abend code is in SKA
	SKARUNNG is set by SKE on entry, and turned off on exit from SKE. SKC references this field to see if the subtask was running when it terminated.			
(2D)	..1.		SKARUNNG	subtask running
	Following 3 flags are spare.			
(2D)	...1 11..		*	spare flags
	SKAUSCOD indicates this subtask is currently executing an SK exit routine.			
(2D)	.... ..1.		SKAUSCOD	user code in progress
	Following flag is spare.			
(2D)	1		*	spare flag
	SKAFLAG3 IS A FLAG BYTE UPDATED BY DFHSKM ONLY			
(2E)	BIT(8)	1	SKAFLAG3	FLAGS - TRUE MEANS..
	Following 3 flags are spare.			
(2E)	111.		*	spare flags
	SKAQUIES is set by SKM to indicate that the subtask should terminate processing.			
(2E)	...1		SKAQUIES	quiesce requested

Table 513. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
	Following 4 flags are spare.			
(2E)	 1111		*	spare flags
(2F)	CHARACTER	1	*	Reserved
	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 (6)	multiple WAIT list
(30)	CHARACTER	1	SKAMFB	first byte of each address
(30)	1...		SKAMEOL	first bit thereof
	SKASAV13 is set by SKE on entry to point to the MVS save area.			
(48)	UNSIGNED	4	SKASAV13	ADDR(MVS save area)
	SKAPICA is an MVS Program Interrupt Control Area used by SKE.			
(4C)	UNSIGNED	4	SKAPICA (4)	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
	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	* (16)	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

SKW - SKP work queue element

```
CONTROL BLOCK NAME = DFHSKWPS
DESCRIPTIVE NAME = CICS TS (SKP) Work Queue Element (WQE)
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1983
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 514.

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
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

Table 514. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
	SKWOABSP - contains the address of a piece of operating system storage obtained by SKE to hold info about a program check or abend. Its contents are copied to a TACB by SKM.			
(58)	ADDRESS	4	SKWOABSP	ptr to os abend storage
	SKWESAVE - contains the address of the save area specified by the SK EXIT routine when it issued an SK CTYPE=WAIT macro.			
(5C)	ADDRESS	4	SKWESAVE	A(save area for sk exit regs)
	SKWFLAGS - flag byte			
(60)	BIT(8)	1	SKWFLAGS	flags - TRUE means..
	SKWTCANC - set by SKM when the CICS task it is running on behalf of has been purged. SKE ceases to process the WQE when it notices this set.			
(60)	1...		SKWTCANC	CICS task has been cancelled
	SKWFABST - set by SKM to indicate that the storage containing regs and PSW at time of failure can be freed by SKE when it next sees the WQE			
(60)	.1..		SKWFABST	os abend stg requires freeing
	SKWWAIT - set by SKE to indicate this the SK EXIT has requested SKE waits on an ECB.			
(60)	..1.		SKWWAIT	WQE is on WAIT queue
	SKWTACBE - indicates presence of operating storage containing regs and PSW at time of error.			
(60)	...1		SKWTACBE	TACB is chained (in os stg)
	SKWRC - return code from execution of WQE by SKE to SKM			
(61)	UNSIGNED	1	SKWRC	return code
(62)	CHARACTER	2	*	fullword alignment

SLDC - System logical device code table

```
CONTROL BLOCK NAME = DFHSLDC
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS System Logical Device Code Table.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1993
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 515.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHSLDC	

Table 515. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	2	SLDCMN	LDC MNEMONIC
(2)	BITSTRING	1	SLDCCD	LOGICAL DEVICE CODE
(3)	BITSTRING	1	SLDCTM	TERMINAL MODEL (MEDIA)...
3601				
(3)	...1 ...1		SLD3604	"X'11'" KEYBOARD DISPLAY
(3)	...1 .111		SLD3610	"X'17'" DOCUMENT PRINTER
(3)	...1 1..1		SLD3612	"X'19'" PASSBOOK & DOCUMENT PRINTER
(3)	..1.		SLD3618	"X'20'" ADMINISTRATIVE LINE PRINTER
(3)	..1. ...1		SLD3618P	"X'21'" LINE PRINTER PRIMARY CARRIAGE
(3)	..1. ..1.		SLD3618S	"X'22'" LINE PRINTER SECONDARY CARRIAGE
(3)	..1. ..11		SLD3618B	"X'23'" LINE PRINTER BOTH CARRIAGES
(3)	....		SLDCBLCO	"X'00'" CONSOLE (DEFAULT IF NO LDC)
(3)	...1		SLDCBLD1	"X'10'" DISK 1
(3)	...1 ...1		SLDCBLD2	"X'11'" DISK 2
(3)	..1.		SLDCBLR1	"X'20'" READER (INPUT ONLY)
(3)	..1.		SLDCBLH1	"X'20'" PUNCH (OUTPUT ONLY)
(3)	..11		SLDCBLP1	"X'30'" PRINTER (OUTPUT ONLY)
(3)	1...		SLDCWPM1	"X'80'" WORD PROCESSING MEDIUM 1
(3)	1..1		SLDCWPM2	"X'90'" WORD PROCESSING MEDIUM 2
(3)	1.1.		SLDCWPM3	"X'A0'" WORD PROCESSING MEDIUM 3
(3)	11..		SLDCWPM4	"X'C0'" WORD PROCESSING MEDIUM 4
(4)	ADDRESS	1	SLDCROW	NUMBER OF DISPLAY ROWS
(5)	ADDRESS	1	SLDCCLM	NUMBER OF DISPLAY COLUMNS
(6)	BITSTRING	1	SLDCSTAT	LDC STATUS BYTE
(6)	1...		SLDCSPGP	"X'80'" PAGE STATUS
(7)	CHARACTER	8	SLDCDSN	DESTINATION NAME
(F)	BITSTRING	1	SLDCDSP	DATA STREAM PROFILE ...

Table 515. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(F)	....		SLDCPDEF	"X'00'" DEFAULT PROFILE
(F)	1		SLDCPBS	"X'01'" BASE PROFILE
(F)	11		SLDCPJOB	"X'03'" JOB PROFILE
(F)	.... .1..		SLDCPRAW	"X'04'" WP RAW PROFILE
(F)	.... .11.		SLDCPOI1	"X'06'" OII LEVEL 1
(F)	.... .111		SLDCPOI2	"X'07'" OII LEVEL 2
(F)	.... 1...		SLDCPOI3	"X'08'" OII LEVEL 3
Other values are reserved				
(F)	...1		SLDCEND	"*" END OF SYSTEM LDC ENTRY
(F)	...1		SLDCLEN	"*-DFHSLDC" LENGTH OF SYSTEM LDC ENTRY

SMD - domain subpool storage statistics

```
CONTROL BLOCK NAME = DFHSMDDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSMDPS
DESCRIPTIVE NAME = CICS TS Storage statistics for domain subpools.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 2006
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 516.

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)	...1 ..11		SMDIDE	"19" Domain subpool id mask

Table 516. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	ADDRESS	2	SMDID	Domain subpool stats id
(2)	1		SMDVERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	SMDDVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	SMDSPN	Subpool name
(10)	CHARACTER	8	SMDDSANAME	DSA name
(18)	BITSTRING	1	SMDETYPE	Element type (fixed/variable?)
(19)	CHARACTER	3		Reserved
(1C)	FULLWORD	4	SMDFLEN	Length (if fixed)
(20)	BITSTRING	1	SMDELCHN	Element chaining (yes/no?)
(21)	CHARACTER	3		Reserved
(24)	FULLWORD	4	SMDBNDRY	Boundary
(28)	BITSTRING	1	SMDLOCN	Above/below 16 meg line
(29)	BITSTRING	1	SMDACCESS	Access
(2A)	BITSTRING	1	SMDDSAINDEX	DSA index
(2B)	CHARACTER	1		Reserved
(2C)	FULLWORD	4	SMDIFREE	Initial free value
(30)	FULLWORD	4	SMDGMREQ	Number of Getmain reqs
(34)	FULLWORD	4	SMDFMREQ	Number of Freemain reqs
(38)	FULLWORD	4	SMDCES	Sum of all element lengths
(3C)	FULLWORD	4	SMDCPS	Current page storage
(40)	FULLWORD	4	SMDCELEM	Current number of elements
(44)	FULLWORD	4	SMDHWMPS	High Water Mark Page Storage
(48)	FULLWORD	4		Reserved
(4C)	FULLWORD	4		Reserved
(4C)	.1.1		SMDEND	"*"
(4C)	.1.1		SMDCLEN	"*-SMDLEN" Length of DSECT
Equates for testing SMDETYPE.				
(4C)	1		SMDFIXED	"1"
(4C)	.... ..1.		SMDVARIABLE	"2"
Equates for testing SMDLOCN.				
(4C)	1		SMDBELOW	"1"
(4C)	.... ..1.		SMDABOVE	"2"
(4C)	11		SMDABOVEBAR	"3"
Equates for testing SMDACCESS.				
(4C)	1		SMDCICS	"1"
(4C)	.... ..1.		SMDUSER	"2"

Table 516. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4C)	11		SMDREADONLY	"3"
(4C)	.... .1..		SMDTRUSTED	"4"
Equates for testing SMDDSAINDEX.				
(4C)	1		SMDCDSA	"1"
(4C)	11		SMDSDSA	"3"
(4C)	.... .1..		SMDRDSA	"4"
(4C)	.... 1..1		SMDECDSA	"9"
(4C)	.... 1.11		SMDESDSA	"11"
(4C)	.... 11..		SMDERDSA	"12"
(4C)	.... 11.1		SMDETDSA	"13"
(4C)	...1 ...1		SMDGCDSA	"17"
(4C)	...1 ..11		SMDGSDSA	"19"

SMF - SMF header and SMF product section

```
CONTROL BLOCK NAME = DFHSMFDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS SMF Header and SMF Product Section
       DSECT for the SMF 110 records written by Journaling,
       Monitoring, and Statistics.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1988, 2015
FUNCTION =
       This DSECT describes the various formats of the SMF Header
       and SMF Product Section for the SMF 110 records written
       by CICS to SMF. These SMF records are created by Journaling,
       Monitoring, and Statistics and read by the CICS monitoring
       sample program DFH$MOLS and the statistics utility program
       DFHSTUP.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = None
    GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
                                                time & user ID in SMF
```

Table 517.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHSMFDS	
(0)	BITSTRING	2	SMFLEN	Record length
(2)	BITSTRING	2	SMFSEG	Segment descriptor

Table 517. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	BITSTRING	1	SMFFLG	Operating system indicator
(4)	11..		SMFESA	"X'C0'" MVS/ESA fixed indicators
(5)	BITSTRING	1	SMFRTY	Record type 110 for CICS
(6)	BITSTRING	4	SMFTME	Time record moved
(A)	BITSTRING	4	SMFDTE	Date record moved (0CYYDDD+)
(E)	BITSTRING	4	SMFSID	System identification
(12)	CHARACTER	4	SMFSSI	Sub-system identification
(16)	BITSTRING	2	SMFSTY	Record subtype
(16)	....		SMFJCSTY	"X'0000'" - X'0000' For journaling
(16)	1		SMFMNSTY	"X'0001'" - X'0001' For monitoring
(16)	.... ..1.		SMFSTSTY	"X'0002'" - X'0002' For statistics
(16)	11		SMFXQSTY	"X'0003'" - X'0003' For TS datasharing
(16)	.... .1..		SMFCFSTY	"X'0004'" - X'0004' For CFDT server stats
(16)	.... .1.1		SMFNCSTY	"X'0005'" - X'0005' For named ctr server
(18)	BITSTRING	2	SMFTRN	Number of triplets in record
(1A)	BITSTRING	2		Reserved
(1C)	BITSTRING	4	SMFAPS	Offset to CICS product section
(20)	BITSTRING	2	SMFLPS	Length of CICS product section
(22)	BITSTRING	2	SMFNPS	Number of CICS product sections
(24)	BITSTRING	4	SMFASS	Offset to CICS data section
(28)	BITSTRING	2	SMFASL	Length of CICS data section
(2A)	BITSTRING	2	SMFASN	Number of CICS data sections
	`End of SMF-Header.` `Start of JC SMF Product-section.`			
(2C)	BITSTRING	2	SMFPSRVN	Record version format x'0vrm' v = version r = release m = modification
(2E)	CHARACTER	8	SMFPSPRN	Product name (Generic APPLID)
(36)	CHARACTER	8	SMFPSSPN	Specific APPLID
(3E)	BITSTRING	2	SMFPSMFL	Record maintenance indicator
(40)	BITSTRING	2		Reserved

Table 517. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
The JC SMF Product-section fields SMFPSRSN, SMFPSJID, SMFPSBKN, SMFPSLBW and SMFPSBAL apply to CICS/ESA Version 4.1 and previous CICS/ESA Version 3.x releases. The JC SMF Product-section field SMFPSJNM is applicable from CICS/ESA Version 5.1.				
(42)		4	SMFPSRSN	Record-number within Journal
(46)	BITSTRING	1	SMFPSJID	Journal identifier
(47)		3	SMFPSBKN	Record-number within Data Set
(4A)	BITSTRING	4	SMFPSLBW	Last-record address (Format is TTR0 under MVS)
(4E)	ADDRESS	2	SMFPSBAL	Track balance in BYTES
(50)	BITSTRING	38		Reserved
(76)	CHARACTER	8	SMFPSJNM	Journal Name
(7E)	CHARACTER	8	SMFPSJBN	Jobname
(86)	BITSTRING	4	SMFPSRSD	Job date
(8A)	BITSTRING	4	SMFPSRST	Job time
(8E)	CHARACTER	8	SMFPSUIF	User identification
(96)	CHARACTER	8	SMFPSPDN	Operating system product level
(96)	1..1 111.		SMFJCIDA	"*"
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
(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

Table 517. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(66)	BITSTRING	2	SMFMNCRL	Compressed record length
(68)	BITSTRING	4	SMFMNTAD	Local TOD clock adjustment
(6C)	BITSTRING	8	SMFMNLSO	Leap Second Offset TOD format
(74)	BITSTRING	8	SMFMNDTO	Local Time/Date Offset
(7C)	BITSTRING	1		Reserved
(7D)	BITSTRING	1	SMFMNOPN	Monitoring Options
(7D)	1...		SMFMNAPL	"X'80'" ... APPLNAME=YES
(7D)	.1..		SMFMNRMI	"X'40'" ... RMI=YES
(7D)	..1.		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)	1..1 111.		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)
(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

Table 517. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(68)	BITSTRING	8	SMFSTRTK	Request token
(70)	CHARACTER	6	SMFSTLRT	Last reset time HHMMSS
(76)	BITSTRING	8	SMFSTCST	CICS start time STCK
(7E)	CHARACTER	8	SMFSTJBN	Jobname
(86)	BITSTRING	4	SMFSTRSD	Job date
(8A)	BITSTRING	4	SMFSTRST	Job time
(8E)	CHARACTER	8	SMFSTUIF	User identification
(96)	CHARACTER	8	SMFSTPDN	Operating system product level
(96)	1..1 111.		SMFSTIDA	"*"
End of ST SMF Product-section.				

SMS - pagepool storage statistics

```
CONTROL BLOCK NAME = DFHSMSDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSMSPS
DESCRIPTIVE NAME = CICS TS Storage statistics for Pagepools and
                                  subspaces.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 2006
FUNCTION = This DSECT describes the DSA statistics, Storage Manager
           state data and the subspace statistics provided by the
           Storage Manager.
           It is provided for use in users monitoring applications
           to map the statistics returned via the statistics exit
           or SMF.
           An instance of this data area may represent the
           statistics for any of the DSAs.
LIFETIME = This data block is created by the storage manager to
           hold pagepool statistics, state data and the subspace
           statistics. It is released when the request for
           statistics has been satisfied.
LOCATION = Caller is passed a pointer to the head of the block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS From storage manager domain.
    GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
```

Table 518.

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

Table 518. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	...1 11.1		SMSIDE	"29" DSA storage stats id mask
(2)	ADDRESS	2	SMSID	DSA storage stats id
(2)	1		SMSVERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	SMSDVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(5)	.... 1...		SMSHEND	"*" End of Statistics Header
(5)	.... 1...		SMSHLEN	"*-SMSLEN" Length of Statistics 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 519.

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.`				
(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

Table 519. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 519. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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	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 520.

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

Table 520. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(38)	FULLWORD	4	SMSPWWS	Number of tasks purged, waiting storage
(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)	1...		SMSBEND	"*"
(7C)	1...		SMSBLEN	"*-SMSBODY" Length of Body
Equates for testing SMSSTGPROT.				
(7C)	....		SMSSTGPROTNA	"0" STGPROT not active
(7C)	1		SMSSTGPROTA	"1" STGPROT active
Equates for testing SMSRENTPGM.				
(7C)	....		SMSRENTPGMNP	"0" RENTPGM noprotect
(7C)	1		SMSRENTPGMP	"1" RENTPGM protect
Equates for testing SMSSTRANISO.				
(7C)	....		SMSTRANISONA	"0" TRANISO not active
(7C)	1		SMSTRANISOA	"1" TRANISO active
Equates for testing SMSMEMLIMITSRC				
(7C)	1		SMSMEMLSRCSMF	"1" MEMLIMIT Set by SMFPRMxx
(7C)	.... ..1.		SMSMEMLSRCJCL	"2" MEMLIMIT Set by JCL
(7C)	11		SMSMEMLSRCREG	"3" MEMLIMIT Set by JCL Region
(7C)	.... .1..		SMSMEMLSRCUSI	"4" MEMLIMIT Set by IEFUSI Exit

Table 520. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7C)	.... 1..1		SMSMEMLSRCAUTH	"9" MEMLIMIT Set by AUTHORISED CODE
(7C)	.... 1.1.		SMSMEMLSRCURG	"10" MEMLIMIT Set by IEFUSI REGION
Equates for testing SMSLOCN				
(7C)	1		SMSBELOW	"1"
(7C)	.... ..1.		SMSABOVE	"2"
(7C)	11		SMSABOVEBAR	"3"
Equates for testing SMSACCESS				
(7C)	1		SMSCICS	"1"
(7C)	.... ..1.		SMSUSER	"2"
(7C)	11		SMSREADONLY	"3"
(7C)	.... .1..		SMSTRUSTED	"4"
Equates for testing SMSDSAINDEX				
(7C)	1		SMSCDSA	"1"
(7C)	.... ..1.		SMSUDSA	"2"
(7C)	11		SMSSDSA	"3"
(7C)	.... .1..		SMSRDSA	"4"
(7C)	.... 1..1		SMSECDSA	"9"
(7C)	.... 1.1.		SMSEUDSA	"10"
(7C)	.... 1.11		SMSESDSA	"11"
(7C)	.... 11..		SMSERDSA	"12"
(7C)	.... 11.1		SMSETDSA	"13"
(7C)	...1 ...1		SMSGCDSA	"17"
(7C)	...1 ..1.		SMSGUDSA	"18"
(7C)	...1 ..11		SMSGSDSA	"19"

SMT - storage subpool storage statistics

```
CONTROL BLOCK NAME = DFHSMTDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSMDPS
DESCRIPTIVE NAME = CICS TS Storage statistics for task subpools.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 1993
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 521.

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)	...1 .1..		SMTIDE	"20" Task subpool id mask
(2)	ADDRESS	2	SMTID	Task subpool stats id
(2)	1		SMTVERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	SMTDVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(5)	.... 1...		SMTHEND	"*" End of header
(5)	.... 1...		SMTHLEN	"*-SMTLEN" Header length

Table 522.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	SMTGLOBAL	Global statistics
(0)	HALFWORD	2	SMTNTASK	No. of task subpools
(2)	HALFWORD	2		reserved
(2)	.... .1..		SMTGEND	"*" The end
(2)	.... .1..		SMTGLEN	"*-SMTGLOBAL" length of global area

Table 523.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	SMTBODY	Task subpool statistics body
(0)	CHARACTER	8	SMTDSANAME	DSA name
(8)	BITSTRING	1	SMTLOCN	Location - Above/below the line
(9)	BITSTRING	1	SMTACCESS	Access - CICS/USER
(A)	BITSTRING	1	SMTDSAINDEX	DSA index
(B)	CHARACTER	1		Reserved
(C)	FULLWORD	4	SMTGMREQ	No. Getmain reqs
(10)	FULLWORD	4	SMTFMREQ	No. Freemain reqs

Table 523. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(14)	FULLWORD	4	SMTCES	Sum of all element lengths
(18)	FULLWORD	4	SMTCPS	Current page storage
(1C)	FULLWORD	4	SMTCNE	Current No. elements
(20)	FULLWORD	4	SMTHWMPS	High Water Mark Page storage
(20)	..1. .1..		SMTBEND	"*" End of body
(20)	..1. .1..		SMTBLEN	"*-SMTBODY" Length of body DSECT
Equates for testing SMTLOCATION.				
(20)	1		SMTBELOW	"1"
(20)	.... ..1.		SMTABOVE	"2"
(20)	11		SMTABOVEBAR	"3"
Equates for testing SMTACCESS				
(20)	1		SMTCICS	"1"
(20)	.... ..1.		SMTUSER	"2"
Equates for testing SMTDSAINDEX.				
(20)	1		SMTCDSA	"1"
(20)	.... ..1.		SMTUDSA	"2"
(20)	.... 1..1		SMTECDSA	"9"
(20)	.... 1.1.		SMTEUDSA	"10"
(20)	...1 ...1		SMTGCDSA	"17"
(20)	...1 ..1.		SMTGUDSA	"18"

SNEX - Signon Extension Block

```
CONTROL BLOCK NAME = DFHSNEXC
DESCRIPTIVE NAME = CICS TS Sign-on Extension to the TCTTE
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1993, 2001
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 524.

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 524. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
Terminal Timeout Information: SNEX_TIMEOUT_TIME: This is the time (in STCK format) that this terminal is next due to timeout. SNEX_TIMEOUT_INTERVAL: This is the timeout interval for the currently signed on user expressed as the top word of a STCK value. SNEX_TIMEOUT_FLAGS: SNEX_TIMEOUT_ELIGIBLE This flag is on only if the terminal is eligible for timeout processing. To be eligible, the terminal must: - not be defined with SIGNOFF=NO - not have preset security - be signed on - be signed on by a userid that has a non-zero timeout interval - not be performing transaction routing unless under the CRTE transaction SNEX_TIMEOUT_ENABLED: When ON this flag indicates that the terminal is in the TIMEOUT ENABLED state. When OFF this flag indicates that the terminal is in the TIMEOUT DISABLED state. SNEX_TIMEOUT_TIMEDOUT: When ON this flag indicates that the terminal is currently being timed out. SNEX_SAVED_ATI_STATUS: This flag is used to save the setting of the ATI status of the terminal while the goodnight transaction is being scheduled.				
(8)	CHARACTER	8	SNEX_TIMEOUT_TIME	
(8)	UNSIGNED	4	HIGH_WORD	
(C)	UNSIGNED	4	LOW_WORD	
(10)	UNSIGNED	4	SNEX_TIMEOUT_INTERVAL	
(14)	BIT(8)	1	SNEX_TIMEOUT_FLAGS	
(14)	1...		SNEX_TIMEOUT_ELIGIBLE	
(14)	.1..		SNEX_TIMEOUT_ENABLED	
(14)	..1.		SNEX_TIMEOUT_TIMEDOUT	
(14)	...1		SNEX_SAVED_ATI_STATUS	
(14)	 1111		*	Reserved

Table 524. (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	
(15)	1...		SNEX_XRF_REFLECTABLE	
(15)	.1..		SNEX_SIGNON_CATLGD	User data written to catalog for PS restart
(15)	..1.		SNEX_AWAITING_SIGNON	Not yet signed on after PS restart
(15)	...1 1111		*	
Userid Length SNEX_USERID_LENGTH This field contains the length of the userid contained in SNEX_USERID. This field is only valid for macro defined terminals. Once the terminal has been installed by CICS this field is returned to zeros.				
(16)	UNSIGNED	1	SNEX_USERID_LENGTH	
(17)	CHARACTER	1	*	Reserved
Transaction Statistics Information SNEX_TXN_COUNT: 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 524. (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	
(20)	1...		SNEX_PRESET_SECURITY	
(20)	.1..		SNEX_SESSION_SIGNED_ ON	

Table 524. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	..1.		SNEX_PRESET_USERID_ PRESENT	
(20)	...1		SNEX_SESSION_SIGNED_ ON_AS_DEFAULT	
(20)	.... 1...		SNEX_SESSION_USER_ TOKEN_X	
(20)	.... .1..		SNEX_LUIT_TABLE_ UPDATED	
(20)	.... ..1.		SNEX_EQUIVALENT_ SYSTEMS	
(20)	1		*	Reserved
(21)	CHARACTER	1	SNEX_FLAGS2	
Console support flags SNEX_CONSOLE_REFLECT_FIRST_USER: Set if user specified USERID(FIRST) on the TERMINAL definition for the console. On install the real user that MVS has nominated in the CIB is signed on as a preset userid. SNEX_CONSOLE_REFLECT_EVERY_USER: Set if user specified USERID(EVERY) on the TERMINAL definition for the console. On install and on every following message the user is signed-on (if it has changed) as a preset userid.				
(21)	CHARACTER	1	SNEX_CONSOLE	
(21)	1...		SNEX_CONSOLE_ REFLECT_FIRST_USER	
(21)	.1..		SNEX_CONSOLE_ REFLECT_EVERY_USER	
(21)	..11 1111		*	Reserved
(22)	CHARACTER	1	SNEX_LUIT_USERID_LEN	Len of PV userid
(23)	CHARACTER	8	SNEX_LUIT_USERID	PV userid
(2B)	CHARACTER	1	*	Reserved
(2C)	ADDRESS	4	SNEX_SIGNON_DATA_ADDR	Data address for PS signon retention
(30)	HALFWORD	2	SNEX_SIGNON_DATA_ LENGTH	Data length for PS signon retention
(32)	UNSIGNED	2	SNEX_ERR_RESPONSE	Response code for msg
(34)	UNSIGNED	2	SNEX_ERR_REASON	Reason code for msg
(36)	CHARACTER	2	*	Reserved
(38)	CHARACTER	0	SNEX_END	End of SNEX

SNGN - GNTRAN Stub Parameter List for CEGN

```
DFHSNGNC Copybook

-----------------------------------------------------------------
```

Table 525.

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 526.

Len	Type	Value	Name	Description
8	CHARACTER	>>CEGN>>	CEGN_EYECATCHER_VALUE	

SNGS - Goodnight Transaction Parameter List

```
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```

Table 527.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHSNGS	GNTRAN Parameter List
(0)	CHARACTER	64	DFHSNGS_FIXED	Fixed part
(0)	CHARACTER	4	GNTRAN_START_TRANSID	Always equal to "CEGN"
(4)	CHARACTER	1	GNTRAN_PSEUDO_CONV_ FLAG	Terminal was in pseudo conversation when it was timed out: 'Y' or 'N'
(5)	CHARACTER	1	GNTRAN_SCREEN_ TRUNCATED	3270 screen buffer had to be truncated:'Y' or 'N'
(6)	CHARACTER	1	GNTRAN_TRANSLATE_TIOA	Flag to indicate that TIOA input to GNTRAN needs upper case translation.
(7)	CHARACTER	9	*	Reserved
(10)	CHARACTER	8	GNTRAN_TIMEOUT_TIME	Time that the terminal timed out in CICS ABSTIME format.

Table 527. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(18)	CHARACTER	1	GNTRAN_TIMEOUT_REASON	Mechanism causing timeout: 'T' for terminal timeout or 'X' for XRF takeover timeout
(19)	CHARACTER	11	*	Reserved
(24)	CHARACTER	4	GNTRAN_PSEUDO_CONV_ TRANSID	Next transaction to run at this terminal had it not been timed out.
(28)	HALFWORD	2	GNTRAN_SCREEN_LENGTH	Length of screen buffer left by previous transaction
(2A)	HALFWORD	2	GNTRAN_CURSOR_ POSITION	Cursor position left by previous transaction
(2C)	HALFWORD	2	GNTRAN_SCREEN_WIDTH	Width of screen left by previous transaction
(2E)	HALFWORD	2	GNTRAN_SCREEN_HEIGHT	Height of screen left by previous transaction
(30)	CHARACTER	16	GNTRAN_USER_FIELD	Available to user
(40)	CHARACTER	*	DFHSNGS_VARIABLE	Variable part
(40)	CHARACTER	*	GNTRAN_SCREEN_BUFFER	Variable length field containing the contents of the screen.

SNSTA - Sign-on LUIT and SNT statistics

```
CONTROL BLOCK NAME = DFHSNSTA
DESCRIPTIVE NAME = CICS TS (SIGNON)
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
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     (C) Copyright IBM Corp. 1990, 2014
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 528.

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 529.

Len	Type	Value	Name	Description
2	DECIMAL	12	SNSTA_LENGTH	

SOGDS - Sockets Global Statistics

```
CONTROL BLOCK NAME = DFHSOGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSORPS
DESCRIPTIVE NAME = CICS TS Sockets Global Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1999, 2016
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 530.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHSOGDS	Sockets Global stats record
(0)	HALFWORD	2	SOGDS_LEN	Sockets Global stats record length
(2)	ADDRESS	2	SOGDS_ID	Sockets Global stats id
(4)	CHARACTER	1	SOGDS_VERS	Sockets Global stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	SOG_MAXSOCKETS_LIMIT	Maxsockets limit
(C)	FULLWORD	4	SOG_CURR_INBOUND_ SOCKETS	Current Inbound sockets
(10)	FULLWORD	4	SOG_PEAK_INBOUND_ SOCKETS	Peak Outbound sockets
(14)	FULLWORD	4	SOG_CURR_OUTB_SOCKETS	Current Outbound sockets
(18)	FULLWORD	4	SOG_PEAK_OUTB_SOCKETS	Peak Outbound sockets
(1C)	FULLWORD	4	SOG_CURR_PERS_OUTB_ SOCKETS	Current Persistent Outb sockets
(20)	FULLWORD	4	SOG_PEAK_PERS_OUTB_ SOCKETS	Peak Persistent Outb sockets
(24)	FULLWORD	4	SOG_INB_SOCKETS_ CREATED	Number Inbound sockets created
(28)	FULLWORD	4	SOG_OUTB_SOCKETS_ CREATED	Number Outbound sockets created
(2C)	FULLWORD	4	SOG_OUTB_SOCKETS_ CLOSED	Number of Outb sockets closed
(30)	FULLWORD	4	SOG_TIMES_AT_MAX_ SOCKETS	Number of times at maxsockets
(34)	FULLWORD	4	SOG_DELAYED_AT_MAX_ SOCKETS	Total delayed at maxsockets
(38)	CHARACTER	8	SOG_QTIME_AT_MAX_ SOCKETS	Total delay time at maxsockets
(40)	FULLWORD	4	SOG_TIMEDOUT_AT_MAX_ SOCKETS	Timeouts whilst at maxsockets
(44)	FULLWORD	4	SOG_CURR_DELAYED_AT_ MAX	Current delayed at maxsockets
(48)	FULLWORD	4	SOG_PEAK_DELAYED_AT_ MAX	Peak delayed at maxsockets
(4C)	CHARACTER	8	SOG_CURRENT_QTIME_ AT_MAX	Current delay time at maxsockets
(54)	CHARACTER	8		Reserved
(5C)	BITSTRING	1	SOG_SSLCACHE	SSLCACHE setting
(5D)	BITSTRING	1	SOG_SOTUNING	Whether SOTUNING set
(5E)	BITSTRING	1	SOG_PAUSING_HTTP_ LISTENING	Whether pausing HTTP listening
(5F)	BITSTRING	1	SOG_STOPPING_ PERSISTENCE	Whether stopping persistence
(60)	CHARACTER	4		Reserved
(64)	FULLWORD	4	SOG_TIMES_AT_ACCEPT_ LIMIT	Times noticed at limit

Table 530. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(68)	CHARACTER	8	SOG_TIME_LAST_ PAUSED_HTTP_LISTENING	Last time paused HTTP listening at accept limit
(70)	FULLWORD	4	SOG_TIMES_STOPPED_ PERSISTENT	Times stopped persistenc
(74)	CHARACTER	8	SOG_TIME_LAST_ STOPPED_PERSISTENT	Time last stopped pers
(7C)	FULLWORD	4	SOG_TIMES_MADE_NON_ PERSISTENT	Times conn made non-pers
(80)	FULLWORD	4	SOG_TIMES_CONN_ DISCONNECTED_AT_MAX	Times disc conn
(84)	FULLWORD	4	SOG_PERS_OUTBOUND_ CREATED	Total pers outb sockets
(88)	FULLWORD	4	SOG_PEAK_BOTH_OUTB_ SOCKETS	Peak outbound sockets
(8C)	FULLWORD	4	SOG_PEAK_PERS_INB_ SOCKETS	Peak persistent inbound
(90)	FULLWORD	4	SOG_PEAK_NPERS_INB_ SOCKETS	Peak non-pers inbound
(94)	FULLWORD	4	SOG_CURR_NPERS_INB_ SOCKETS	Current non-pers inbnd
(98)	FULLWORD	4	SOG_NPERS_INB_ SOCKETS_CREATED	Total non-pers inbound
(9C)	FULLWORD	4	SOG_TIMES_OUTB_REUSED	Times outbound reused
(A0)	CHARACTER	16		Reserved
(A0)	1.11		SOGDS_END	"*"
(A0)	1.11		SOGDS_LENGTH	"*-SOGDS_LEN" Sockets stats record length
Constants that denote a SO Global stats record				
(A0)	.11. 1.11		SOGIDR	"107" Sockets global stats id
(A0)	1		SOG_VERS	"X'01'" Record version number
(A0)	1		SOG_SOTUNING_YES	"X'01'" SOTUNING = YES
(A0)	.... ..1.		SOG_SOTUNING_V520	"X'02'" SOTUNING = V520
(A0)	1		SOG_STOPPING_ PERSISTENCE_ON	"X'01'" Stopping persistence
(A0)	.... ..1.		SOG_STOPPING_ PERSISTENCE_OFF	"X'02'" Not stopping persistence
(A0)	1		SOG_PAUSING_ LISTENING_ON	"X'01'" Pausing listening
(A0)	.... ..1.		SOG_PAUSING_ LISTENING_OFF	"X'02'" Not pausing listening
(A0)	1		SOG_SSLCACHE_CICS	"X'01'" SSLCACHE = CICS
(A0)	.... ..1.		SOG_SSLCACHE_SYSPLEX	"X'02'" SSLCACHE = SYSPLEX

SORDS - TCP/IP Service (Sockets) Statistics

```
CONTROL BLOCK NAME = DFHSORDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSORPS
DESCRIPTIVE NAME = CICS TS TCP/IP Service (Sockets) Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1998, 2016
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 531.

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)

Table 531. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 setting
(44)	FULLWORD	4	SOR_SENDS	No. of Sends (all sockets)
(48)	BITSTRING	8	SOR_BYTES_SENT	No. of Bytes Sent (all sockets)
(50)	FULLWORD	4	SOR_RECEIVES	No. of Receives (all sockets)
(54)	BITSTRING	8	SOR_BYTES_RECEIVED	No. of Bytes Received (all sockets)
(5C)	BITSTRING	16		Reserved DS
(6C)	CHARACTER	18	SOR_WLM_GROUP	TCP/IP Service Reserved
(7E)	CHARACTER	2		Reserved
(80)	CHARACTER	8	SOR_PROTOCOL	TCP/IP Service Protocol
(88)	BITSTRING	1	SOR_AUTHENTICATE	TCP/IP Service Authenticate
(89)	BITSTRING	1	SOR_PRIVACY	TCP/IP Service Privacy
(8A)	BITSTRING	1	SOR_ATTACHSEC	TCP/IP Service Attachsec
(8B)	CHARACTER	5		Reserved
(90)	CHARACTER	8		Reserved
(98)	FULLWORD	4	SOR_MAXDATA_LENGTH	TCP/IP Service Maxdata length
(9C)	CHARACTER	4	SOR_TCPIPS_TRANID	TCP/IP service Transaction ID
(A0)	CHARACTER	8	SOR_TCPIPS_URM	TCP/IP service URM
(A8)	FULLWORD	4	SOR_TCPIPS_MAX_ PERSIST	Maximum Persistent Connections
(AC)	FULLWORD	4	SOR_TCPIPS_NON_ PERSIST	No. Non-Persistent Connections
(B0)	CHARACTER	8		Reserved
(B8)	CHARACTER	8		Reserved
(C0)	CHARACTER	39	SOR_IP_ADDRESS	IP Address of TCP/IP Service
(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

Table 531. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(184)	CHARACTER	8	SOR_INSTALL_USERID	Install userid
(18C)	FULLWORD	4	SOR_TOTAL_CONNS	Total no. connections
(190)	FULLWORD	4	SOR_NONP_AT_ MAXPERSIST	No. made non-persistent because MAXPERSIST was reached
(194)	FULLWORD	4	SOR_NONP_AT_TASK_ LIMIT	No. new connections made non-pers when task limit exceeded
(198)	FULLWORD	4	SOR_DISC_AT_TASK_ LIMIT	No. existing conns disconnected when task limit exceeded
(19C)	FULLWORD	4	SOR_DISC_AT_MAX_USES	No. connections disconnected when its no. uses exceeded limit
(1A0)	FULLWORD	4	SOR_CURR_BACKLOG	Current backlog q depth
(1A4)	FULLWORD	4	SOR_CONNS_DROPPED	No. connections dropped
(1A8)	BITSTRING	8	SOR_CONN_LAST_DROPPED	Date/time conn last dropped
(1B0)	FULLWORD	4	SOR_CURR_MAX_BACKLOG	Backlog currently in use
(1B4)	FULLWORD	4	SOR_REQUESTS	No. requests processed
(1B8)	CHARACTER	64		Reserved
(1B8)		0	SORDS_END	"*"
(1B8)		0	SORDS_LENGTH	"*-SORDS_LEN" TCP/IP Service record length
Constants that denote a SO tcp/ip service stats record				
(1B8)	.11. 11..		SORIDR	"108" TCP/IP Service resid stats id
(1B8)	1		SOR_VERS	"X'01'" Record version number
(1B8)	1		SOR_SSL_YES	"X'01'" SSL = Yes
(1B8)	.... ..1.		SOR_SSL_NO	"X'02'" SSL = No
(1B8)	11		SOR_SSL_CLI_AUTH	"X'03'" SSL = Client Authentication
(1B8)	.... .1..		SOR_SSL_ATTLSAWR	"X'04'" SSL = ATTLSAWARE
(1B8)	....		SOR_AUTHENT_NONE	"X'00'" Authenticate = None
(1B8)	1		SOR_AUTHENT_BASIC	"X'01'" Authenticate = Basic
(1B8)	.... ..1.		SOR_AUTHENT_CERT	"X'02'" Authenticate = Certificate
(1B8)	11		SOR_AUTHENT_AUTOREG	"X'03'" Authenticate = Autoregister
(1B8)	.... .1..		SOR_AUTHENT_AUTO	"X'04'" Authenticate = Automatic
(1B8)	.... .1.1		SOR_AUTHENT_ASSERTED	"X'05'" Authenticate = Asserted

Table 531. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1B8)	....		SOR_PRIVACY_ NOTSUPPORTED	"X'00'" Privacy = NotSupported
(1B8)	1		SOR_PRIVACY_SUPPORTED	"X'01'" Privacy = Supported
(1B8)	.... ..1.		SOR_PRIVACY_REQUIRED	"X'02'" Privacy = Required
(1B8)	1		SOR_ATTACHSEC_LOCAL	"X'01'" Attachsec = Local
(1B8)	.... ..1.		SOR_ATTACHSEC_VERIFY	"X'02'" Attachsec = Verify
(1B8)	....		SOR_IP_FAMILY_UNKNOWN	"X'00'" IP family = Unknown
(1B8)	1		SOR_IP_FAMILY_IPV4	"X'01'" IP family = IPv4
(1B8)	.... ..1.		SOR_IP_FAMILY_IPV6	"X'02'" IP family = IPv6
(1B8)	1		SOR_CSDAPI_CHANGE	"0001" CSD API
(1B8)	.... ..1.		SOR_CSDBATCH_CHANGE	"0002" DFHCSDUP
(1B8)	11		SOR_DREPAPI_CHANGE	"0003" DREP API
(1B8)	.... .1..		SOR_CREATE_CHANGE	"0004" EXEC CREATE SPI
(1B8)	.... .111		SOR_SYSTEM_CHANGE	"0007" SYSTEM Install Agents
(1B8)	1		SOR_CSDAPI_INSTALL	"0001" CSD API
(1B8)	.... .1..		SOR_CREATE_INSTALL	"0004" EXEC CREATE SPI
(1B8)	.... .1.1		SOR_GRPLIST_INSTALL	"0005" GRPLIST
(1B8)	.... 1..1		SOR_BUNDLE_INSTALL	"0009" BUNDLE !

SRA - SRB interface mapping

```
DESCRIPTIVE NAME = CICS TS SRB INTERFACE MAPPING
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1983, 2000
       SRB INTERFACE CONTROL AREA
```

Table 532.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHSRADS	
(0)	BITSTRING	1	SRAFLAGS	FLAGS FIELD
NB BIT SRAVTAM IS REFERENCED BY DFHDSSUB AND MUST NOT BE MOVED!!				
(0)	1...		SRAVTAM	"X'80'" VTAM AUTH. PATH INSTALLED
NB BIT SRAVTAM IS REFERENCED BY DFHDSSUB AND MUST NOT BE MOVED!!				
(0)	.1..		SRAICIP	"X'40'" VSAM ICIP INSTALLED
(1)	BITSTRING	1	SRAFLAG2	FLAGS FIELD
(1)	1...		SRASCHED	"X'80'" SRB SCHEDULED FLAG
(2)	BITSTRING	2		RESERVED
(4)	ADDRESS	4		Reserved - was SRANXHTA

Table 532. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	.... ..1.		SRARQLMV	"2" REQUEST COUNT THRESHOLD
(38)	.... ..1.		SRASRLMV	"2" SHORT RUN SRB THRESHOLD
(38)	..11 11..		SRAAD	"*-DFHSRADS" LENGTH OF SRA

SRB - Service request block

```
%PLSSRB1:;
 %If IHASRB_PLXMAP = 'YES' %then
   %GOTO PLSSRB2;
   START OF SPECIFICATIONS
  01 PROPRIETARY STATEMENT =
            LICENSED MATERIALS - PROPERTY OF IBM
            5694-A01 COPYRIGHT IBM CORP. 1977, 2011
  01 STATUS: HBB7780
  01 DESCRIPTIVE NAME: Service Request Block
  02 ACRONYM: SRB
  01 EXTERNAL CLASSIFICATION:
```

```
02 DMTI:BASE
02 GUPI:FIELDS
                  SRBASCB
                  SRBCPAFF
                  SRBEP
                  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 533.

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
(14)	ADDRESS	4	SRBEP (0)	ENTRY POINT OF ROUTINE
(14)	ADDRESS	4	SRBEPA	ADDRESS OF ENTRY POINT (31-BIT USERS)
(14)	1...		SRBMODE	"X'80'" ADDRESSING MODE INDICATOR
(18)	ADDRESS	4	SRBRMTR (0)	ADDRESS OF RESOURCE MANAGER ROUTINE
(18)	ADDRESS	4	SRBRMTRA (0)	ADDRESS OF RESOURCE MANAGER ROUTINE (31-BIT USERS)
(18)	BITSTRING	1	SRBRMTR0	Byte 0 of SRBRMTR
(18)	1...		SRBRMODE	"X'80'" ADDRESSING MODE INDICATOR
(19)	BITSTRING	1	(2)	
(1B)	BITSTRING	1	SRBRMTR3	Byte 3 of SRBRMTR
(1B)	1		SRBRMTLL	"X'01'" When on, the local lock will be held when control is given to the RMTR. The RMTR is allowed to release the local lock before returning, but is not required to do so.
(1C)	ADDRESS	4	SRBPARM	USER PARAMETER

Table 533. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	1...		SRBLLREQ	"X'80'" LOCAL LOCK REQUIRED
(25)	.1..		SRBLLHLD	"X'40'" LOCAL LOCK HELD
(25)	..1.		SRBFRREQ	"X'20'" FRR REQUESTED
(25)	...1		SRBFRRCL	"X'10'" THIS BIT IS OBSOLETE SINCE FRR PARM AREA ALWAYS CLEARED BY DISPATCHER. RETAINED FOR COMPATIBILITY.
(25)	.... 1...		SRBSUSP	"X'08'" SUSPENDED SRB ONLY ON FOR SSRB
(25)	.... .1..		SRBPNONQ	"X'04'" NON QUIESCABLE SRB
(25)	....		SRBPSYS	"X'00'" SYSTEM PRIORITY LEVEL
(26)	BITSTRING	1	SRBHLHI	INDICATION OF SUSPEND LOCKS HELD AT SRB SUSPENSION
(27)	BITSTRING	1	SRBFLGS1	SRB TYPE FLAGS.
(27)	1...		SRBMAIN	"X'80'" SRB/SSRB MUST BE FREEMAINED.
(27)	.1..		SRBSP245	"X'40'" SRB/SSRB FROM SUBPOOL 245.
(27)	..1.		SRBBLK24	"X'20'" SRB BELOW THE LINE
(27)	...1		SRBXESF	"X'10'" Mode=primary FRR - only meaningful if SRBFRREQ is set.
(27)	.... 1...		SRB1STS	"X'08'" This SSRB represents the initial schedule of a workunit and has never been dispatched.
(27)	.... .1..		SRBPMCS	"X'04'" This SRB is in process-must complete mode

Table 533. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(27)	.... ..1.		SRBMSCHD	"X'02'" This SRB was schduled via the IEAMSCHD macro
(27)	1		SRBTOKNP	"X'01'" This SSRB belongs to the pool created for SUSPEND with SPTOKEN.
(28)	ADDRESS	4	SRBFRRA (0)	FRR ROUTINE ADDRESS
(28)	CHARACTER	3		High three bytes of addr
(2B)	CHARACTER	1	SRBFRRA3	Low order byte of address
(2B)	1		SRBSD31	"X'01'" Set this flag to indicate that the FRR can tolerate an SDWA in 31-bit storage. This is equivalent to the SETFRR SDWALOC31=YES parameter
(2C)	FULLWORD	4	SRBEND (0)	END OF SRB
(2C)	..1. 11..		SRBSIZE	"SRBEND-SRBSECT" SIZE OF SRB
(2C)	....		DFHSRXDS	"SRBSECT" CICS NAME FOR SECTION
(30)	DBL WORD	8	(0)	ALIGN START OF CICS FIELDS ON DOUBLE WORD BOUNDARY
START OF CICS EXTENSION AREA				
(30)	ADDRESS	4	SRXRTNA	MVS SRB RETURN ADDRESS
(34)	ADDRESS	4	SRXCSAA	ADDRESS OF CICS CSA
(38)	ADDRESS	4	SRXEXLA	ADDRESS OF VTAM EXIT LIST, WHICH IS PROTECTED FOR SRB MODE USE
(3C)	ADDRESS	4	SRXKCSPA	ADDRESS OF KCSP ENTRY LIST
(40)	ADDRESS	4	SRXRSCA	ADDRESS OF OS REGISTER SAVE AREA POOL CONTROL AREA
(44)	ADDRESS	4	SRXVAA	ATTACH-SRB VALIDATION
(48)	ADDRESS	4	SRXVEA	ENTER-SRB VALIDATION
(4C)	ADDRESS	4	SRXVTA	VTAM VALIDATION DATA
(50)	ADDRESS	4	SRXVSA	VSAM VALIDATION DATA
(54)	BITSTRING	1	SRXPPKEY	CICS PP STATE PROTECT KEY
(58)	DBL WORD	8	(0)	DOUBLE WORD ALIGN FOR CDS
(58)	ADDRESS	4	SRXNXSVA	HEAD OF FREE SAVE AREA

Table 533. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5C)	FULLWORD	4		CHAIN AND COUNTER (CDS PAIR) *
(60)	FULLWORD	4	SRXSAVE (16)	SAVE AREA FOR KCSP FOR BRANCH ENTRY TO POST *
(A0)	DBL WORD	8	(0)	ROUND UP TO DOUBLE WORD
(A0)	1.1.		SRXAAD	"*-DFHSRXDS" LENGTH OF SRX
(A0)	1111 .1.1		SRXSBPL	"245" SUBPOOL FOR SRX (SQA)
DEFINITIONS OF OFFSETS IN SAVE AREAS				
(A0)	.1.. 1...		RSCSVCHN	"72" FREE CHAIN FIELD (HEAD OF CHAIN IS IN SRXNXSVA) *
(A0)	.1.. 1...		RSCSVFRR	"72" FRR PARAMETER AREA ADDR WHEN SAVE AREA IN USE *
(A0)	.1.1		RSCSVLTH	"80" LENGTH OF SAVE AREA
(A0)	1111 11..		RSCSBPL	"252" SUBPOOL FROM WHICH SAVE AREAS ARE OBTAINED *
Definitions of offsets in FRR Parm Area				
(A0)	.... .1..		FRRPSRX	"4" SRX Address
(A0)	.... 1...		FRRPRSCS	"8" OS reg save area address
(A0)	.... 11..		FRRPRSA	"12" Reg save area used by FRR code
(A0)	...1 .111		FRRPISDW	"23" SDWA indicator
(A0)	.... 11..		FRRPSDW	"X'0C'" SDWA was not passed

SRED - System recovery error data

```
CONTROL BLOCK NAME = DFHSREDS
DESCRIPTIVE NAME = CICS TS System Recovery Error Data
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1989, 2015
FUNCTION = Declares the SRP_ERROR_DATA structure. This
            contains information about an MVS abend, and is
            passed to global user exit XSRAB.
-------------------------------------------------------------------
```

Table 534.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1344	SRP_ERROR_DATA	SRP error data
(0)	CHARACTER	4	SRP_ERROR_TYPE	Abend type 'ASRB'

Table 534. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(20)	1...		SRP_CICS_CODE	Abend in CICS code
(20)	.1..		SRP_USER_CODE	Abend in user code
(20)	..1.		SRP_PPT_ENTRY	PPT program present
(20)	...1		SRP_VALID_OFFSET	Valid offset present
(20)	.... 1...		SRP_VALID_REASON	Abend reason present
(20)	.... .1..		SRP_NOT_CICS_RB	CICS RB not in control at time of error
(20)	11		*	Reserved
(21)	CHARACTER	4	SRP_ERROR_REASON	Abend reason code
(25)	CHARACTER	3	*	Reserved
(28)	CHARACTER	152	SRP_CICS_ERROR_DATA	CICS error data
(28)	CHARACTER	8	SRP_CICS_EC_PSW	CICS EC PSW
(28)	CHARACTER	2	*	Padding
(2A)	1...		SRP_CICS_AR_MODE	AR mode?
(30)	CHARACTER	8	SRP_CICS_EC_INT	CICS interrupt data
(38)	CHARACTER	64	SRP_CICS_REGST	CICS GP regs
(78)	CHARACTER	64	SRP_CICS_AC_REGST	CICS Access Regs
(B8)	UNSIGNED	1	SRP_CICS_EXEC_KEY	CICS PSW key N in form X'0N'
(B9)	CHARACTER	7	*	Reserved
(C0)	CHARACTER	152	SRP_SYSTEM_ERROR_DATA	System error data
(C0)	CHARACTER	8	SRP_SYSTEM_EC_PSW	System EC PSW
(C0)	CHARACTER	2	*	Padding
(C2)	BIT(8)	1	*	Padding
(C3)	1...		SRP_SYSTEM_AR_MODE	AR mode ?
(C8)	CHARACTER	8	SRP_SYSTEM_EC_INT	System interrupt data
(D0)	CHARACTER	64	SRP_SYSTEM_REGST	System GP regs
(110)	CHARACTER	64	SRP_SYSTEM_AC_REGST	System Access regs
(150)	UNSIGNED	1	SRP_SYSTEM_EXEC_KEY	System PSW key N in form X'0N'
(151)	CHARACTER	7	*	Reserved
(158)	CHARACTER	32	SRP_ERROR_FP_REGS	FP regs
(158)	CHARACTER	8	SRP_FP_REG_0	FP reg 0
(160)	CHARACTER	8	SRP_FP_REG_2	FP reg 2

Table 534. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(168)	CHARACTER	8	SRP_FP_REG_4	FP reg 4
(170)	CHARACTER	8	SRP_FP_REG_6	FP reg 6
(178)	CHARACTER	16	SRP_ERROR_SUBSPACE_ INFO	
(178)	CHARACTER	4	SRP_ALET	ALET
(17C)	CHARACTER	8	SRP_SUBSPACE_TOKEN	Subspace token
(184)	BIT(8)	1	SRP_SUBSPACE_FLAGS	
(184)	1...		SRP_SUBSPACE_ACTIVE	Subspace/basespace
(184)	.111 1111		*	Reserved
(185)	CHARACTER	3	*	Reserved
(188)	CHARACTER	8	*	Reserved
(190)	CHARACTER	264	SRP_ADDITIONAL_REGS_ INFO	
(190)	BIT(8)	1	SRP_ADDITIONAL_REGS_ FLAGS	data existence flg
(190)	1...		SRP_CICS_GPR64_AVAIL	
(190)	.1..		SRP_SYSTEM_GPR64_ AVAIL	
(190)	..1.		SRP_ADDITIONAL_FPR_ AVAIL	
(190)	...1		SRP_ERROR_VR_REGS_ AVAIL	
(190)	 1111		*	
(191)	CHARACTER	7	*	
(198)	CHARACTER	128	SRP_CICS_GP64_REGS	cics 64-bit gpr !
(218)	CHARACTER	128	SRP_SYSTEM_GP64_REGS	system 64-bit gpr !
(298)	CHARACTER	132	SRP_ADDITIONAL_FPR_ INFO	
(298)	CHARACTER	128	SRP_FP_REGS	all FP registers !
(318)	CHARACTER	4	SRP_FPC_REG	fpc register !
(31C)	CHARACTER	4	*	Reserved
(320)	CHARACTER	16	SRP_CICS_PSW16	CICS PSW16
(330)	CHARACTER	16	SRP_SYSTEM_PSW16	System PSW16
(340)	CHARACTER	512	SRP_ERROR_VR_REGS	all VR registers

SRT - System recovery table

```
CONTROL BLOCK NAME = DFHSRTDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS System Recovery Table.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1988
  PN= REASON REL YYMMDD HDXIII : REMARKS
FUNCTION =
   The System Recovery Table contains a list of System Abend
   codes that are intercepted by the Recovery program (DFHSRP).
   The user has the option of modifying the Table to meet his
   special requirements by use of the DFHSRT macros.
   The Table is loaded at CICS/MVS initialization.
```

Table 535.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHSRTDS	SYSTEM RECOVERY TABLE DSECT
(0)	CHARACTER	4	SRTABCID	ABEND CODE IDENTIFICATION
(0)	.... .1..		SRTED	"(*-DFHSRTDS)" ENDING DISPLACEMENT

SSA - Static storage area address list

```
MACRO NAME = DFHSSAD
DESCRIPTIVE NAME = CICS TS STATIC STORAGE AREA ADDRESS LIST
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1980, 2014
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
 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 536.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHSSADS	STATIC STORAGE AREA ADDRESS LIST
(0)	ADDRESS	4	SSACPI	CPI static storage address
(4)	ADDRESS	4	SSAAITM	AITM static storage address
(8)	ADDRESS	4	SSAPRM	Partner Manager static storage address
(C)	ADDRESS	4	SSAEC	Event Capture static storage address
(10)	ADDRESS	4	SSADLI	DLP PARAMETER AREA & DFHDLI STORAGE ADDRESS
(14)	ADDRESS	4	SSATMP	TABLE MANAGER STATIC STORAGE AREA ADDRESS
(18)	BITSTRING	4		Reserved
(1C)	ADDRESS	4	SSACRL	anchor block for DFHCRL (only used during emergency restart)

Table 536. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(4C)	ADDRESS	4	SSAICP	ICP static storage area addr
(50)	ADDRESS	4	SSAAPDM	DFHAPDM's static storage area addr
(54)	ADDRESS	4	SSAMQ	CICS/MQ static storage
(58)	ADDRESS	4	SSATDSTA	Transient Data storage
(5C)	FULLWORD	4	SSASTOP	END STOPPER
(5C)	.11.		SSALEN	"*-DFHSSADS" LENGTH OF STATIC AREA ADDRESS LIST

STG - Statistics domain statistics

```
CONTROL BLOCK NAME = DFHSTGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSTGPS
DESCRIPTIVE NAME = CICS TS Statistics domain statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986, 2000
FUNCTION =
       This DSECT describes the statistics maintained by the
       statistics domain on its own operation.
       This control block belongs to the Statistics Domain. There
       is a single instance of the control block which is copied
       to SMF at each statistics interval.
LIFETIME =
       This control block is created when the Statistics Domain is
       initialized and is destroyed when the domain is shut down.
STORAGE CLASS =
LOCATION =
       This control block is part of the Statistics domain
```

```
       anchor block.
 INNER CONTROL BLOCKS = None
 NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Control block definition
-------------------------------------------------------------------------
 EXTERNAL REFERENCES = none
     DATA AREAS = none
     CONTROL BLOCKS = none
     GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------------
```

Table 537.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHSTGDS	Statistics domain statistics
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	STGLEN	Length of data
(0)	.1.. ..1.		STGIDE	"66" Stats domain id mask
(2)	ADDRESS	2	STGID	Stats domain id
(2)	1		STGVERS	"X'01'" Stats version number mask
(4)	CHARACTER	1	STGDVERS	Stats version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	STGNC	Number of Interval Collections
(C)	FULLWORD	4	STGSMFW	Number of SMF Writes
(10)	FULLWORD	4	STGLDW	Length of Statistics Data Written
(14)	FULLWORD	4		Reserved
(18)	FULLWORD	4	STGSMFS	Number of SMF Writes Suppressed
(1C)	FULLWORD	4	STGSMFE	No. SMF errors
(20)	FULLWORD	4	STGINTR	No. INT statistics records
(24)	FULLWORD	4	STGEODR	No. EOD statistics records
(28)	FULLWORD	4	STGUSSR	No. USS statistics records
(2C)	FULLWORD	4	STGREQR	No. REQ statistics records
(30)	FULLWORD	4	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)	.1.1 1...		STGEND	"*"
(57)	.1.1 1...		STGCLEN	"*-STGLEN" Length of stats

STI - Statistics record identifiers

```
CONTROL BLOCK NAME = DFHSTIDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHSTIPS
DESCRIPTIVE NAME = CICS TS Statistics Record Identifiers.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1987, 2016
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 538.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHSTIDS	Stats record header
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	STILEN	Length of the record
(2)	ADDRESS	2	STID	Stats id
(4)	CHARACTER	1	STIVERS	Stats record version
(4)	.... 1.1.		STIXMG	"10" Transaction manager (Globals) id
(4)	.... 1.11		STIXMR	"11" Transaction manager (Trans) id
(4)	.... 11..		STIXMC	"12" Transaction manager (Tclass) id
(4)	...1		STIFEPIP	"16" FEPI pool id
(4)	...1 ...1		STIFEPIC	"17" FEPI connection id
(4)	...1 ..1.		STIFEPIT	"18" FEPI target id
(4)	...1 ..11		STISMD	"19" Storage mgr domain subpool id
(4)	...1 .1..		STISMT	"20" Storage manager task subpool id
(4)	...1 .1.1		STIVT	"21" VTAM stats id
(4)	...1 .111		STIPAUTO	"23" Program Autoinstall id

Table 538. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	...1 1...		STIAUTO	"24" Terminal Autoinstall stats id
(4)	...1 1..1		STILDR	"25" Public Loader (Resid) id
(4)	...1 11..		STIDBUSS	"28" DBCTL USS id
(4)	...1 11.1		STISMDSA	"29" Storage manager DSA id
(4)	...1 111.		STILDG	"30" Loader (Globals) id
(4)	...1 1111		STILDB	"31" Public Library (Resource) id
(4)	..1.		STILDY	"32" Private Library (Resource) id
(4)	..1. ..1.		STITCR	"34" Terminal control (Resid) id
(4)	..1. .1..		STILDP	"36" Private Loader (Resid) id
(4)	..1. .111		STILSRR	"39" LSRPOOL pool stats (resid) id
(4)	..1. 1...		STILSRFR	"40" LSRPOOL File stats (by file) id
(4)	..1. 1.1.		STITDQR	"42" TDQUEUE (Resid) id
(4)	..1. 11.1		STITDQG	"45" TDQUEUE (Globals) id
(4)	..11		STITSQ	"48" TSQUEUE stats id
(4)	..11 .1..		STICONSR	"52" ISC/IRC system entry (resid) id
(4)	..11 .11.		STICONSS	"54" ISC connection - System Security
(4)	..11 11.1		STIUSG	"61" User Domain stats id
(4)	..11 111.		STIDS	"62" Dispatcher stats id
(4)	..11 1111		STITM	"63" Table manager stats id
(4)	.1..		STIDST	"64" Dispatcher TCB (Global) id
(4)	.1.. ...1		STIDSR	"65" Dispatcher TCB (Resource) id
(4)	.1.. ..1.		STIST	"66" Stats stats id
(4)	.1.. ..11		STIFCR	"67" File Control (Resid) id
(4)	.1.. 1.1.		STIMQG	"74" MQ Connection stats (Global) id
(4)	.1.. 11..		STICONMR	"76" ISC/IRC mode entry (resid) id
(4)	.1.1 ...1		STIM	"81" Monitoring stats (Global) id
(4)	.1.1 .1..		STIMNR	"84" Monitoring stats (Resid) id

Table 538. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	.1.1 .1.1		STITDR	"85" Transaction dump (Resid) id
(4)	.1.1 .111		STITDG	"87" Transaction dump (Global) id
(4)	.1.1 1...		STISDR	"88" System dump (Resid) id
(4)	.1.1 1.1.		STISDG	"90" System dump (Global) id
(4)	.1.1 11..		STILGG	"92" Logstream stats (Global) id
(4)	.1.1 11.1		STILGR	"93" Logger stats (Resource) id
(4)	.1.1 111.		STILGS	"94" Logstream stats (Resource) id
(4)	.11. ...1		STINQG	"97" ENQ Manager stats (Global) id
(4)	.11. ..11		STIRMG	"99" Recovery Mgr stats (Global) id
(4)	.11. .1..		STIRLR	"100" BUNDLEs (Resource) id
(4)	.11. .1.1		STIWBG	"101" URIMAPs (Global) id
(4)	.11. .11.		STID2G	"102" DB2 Connection stats (Global) id
(4)	.11. .111		STID2R	"103" DB2 Entry stats (Resource) id
(4)	.11. 1...		STIWBR	"104" URIMAPs (Resource) id
(4)	.11. 1..1		STIPIR	"105" PIPELINE (Resource) id
(4)	.11. 1.1.		STIPIW	"106" WEBSERVICE (Resource) id
(4)	.11. 1.11		STISOG	"107" TCP/IP (Global) id
(4)	.11. 11..		STISOR	"108" TCP/IP Services (Resource) id
(4)	.11. 11.1		STIISR	"109" IPCONN (Resource) id
(4)	.11. 111.		STIW2R	"110" ATOMSERVICE (Resource) id
(4)	.111		STIDHD	"112" Doctemplate (Resource) id
(4)	.111 ...1		STIMLR	"113" XMLTRANSFORM (Resource) id
(4)	.111 .1..		STISJS	"116" JVMSERVER stats (Resource) id
(4)	.111 .1.1		STISJG	"117" JVMPOOL stats (Global) id
(4)	.111 .11.		STISJR	"118" JVMPROFILE stats (Resource) id

Table 538. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	.111 .111		STIPGR	"119" Public JVMPROGRAM (Resource)
(4)	.111 1...		STIPGD	"120" Public PROGRAMDEF (Resource)
(4)	1... 11..		STIECG	"140" EVENTBINDINGs (Global) id
(4)	1... 11.1		STIECR	"141" EVENTBINDINGs (Resource) id
(4)	1... 111.		STIEPG	"142" EVENTPROCESS (Global) id
(4)	1... 1111		STIECC	"143" CAPTURESPECs (Resource) id
(4)	1..1		STIEPR	"144" EPADAPTERs (Resource) id
(4)	1..1 ..1.		STIPGP	"146" Private JVMPROGRAM(Resource)
(4)	1..1 ..11		STIPGE	"147" Private PROGRAMDEF(Resource)
(4)	1..1 .1..		STIMQR	"148" MQMONITORs (Resource) id
(4)	1..1 .1.1		STIASG	"149" ASYNCSERVICE (Global) id
(4)	.... .1.1		STIEND	"*"
(4)	.... .1.1		STICLEN	"*-STILEN" Length of DSECT

TACB - Transaction abend control block

```
CONTROL BLOCK NAME = DFHTACBS
DESCRIPTIVE NAME = CICS TS Transaction Abend Control Block
    Licensed Materials - Property of IBM
     Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1983, 2015
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 539.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1360	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
(E)	1...		ABNDREQI	- REQUEST ID
(E)	.1..		ABNDNXTI	- NEXT TACB
(E)	..1.		ABNDRSRI	- FAILING RESOURCE
(E)	...1		ABNDPRGI	- FAILING PROGRAM
(E)	.... 1...		ABNDREGI	- ABEND REGISTERS
(E)	.... .1..		ABNDSNSI	- SENSE BYTES
(E)	.... ..1.		ABNDMSGI	- A(MESSAGE)
(E)	1		ABNDSYSI	- SYSID
(F)	CHARACTER	1	ABNDFLG2	- VALID FIELDS
(F)	1...		*	
(F)	.1..		ABNDCDE	- ABEND CODE SET
(F)	..1.		ABNDOCDE	- OP SYS AB CODE SET
(F)	...1		ABNDREMT	- RE-ISSUING AN ABEND THAT ORIGINATED IN DPL SERVER PROGRAM
(F)	.... 1...		ABNDIGNORE	- IGNORE HANDLES
(F)	.... .1..		ABNDSTART	- ABEND RECORD COMPLETE, START_ABEND ISSUED
(F)	.... ..1.		ABNDDMP	- DUMP REQUESTED
(F)	1		ABND_DUMP_TAKEN	- dump taken
(10)	CHARACTER	8	ABNDNAME	'DFHTACB' EYECATCHER
(18)	CHARACTER	4	*	
(1C)	CHARACTER	4	ABNDCODE	ABEND CODE
(20)	CHARACTER	8	ABNDPRG	FAILING PROGRAM
(20)	CHARACTER	8	ABNDPGM	- ALIAS
(28)	CHARACTER	4	ABNDREQ	REQUEST ID
(2C)	CHARACTER	8	ABNDRSRC	FAILING RESOURCE

Table 539. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(34)	CHARACTER	4	ABNDSYST	IF ABNDREMT IS SET, THIS FIELD CONTAINS THE SYSID OF THE SYSTEM FROM WHICH THE DPL SERVER ABEND WAS RECEIVED
(38)	ADDRESS	4	*	
(3C)	CHARACTER	4	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
(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 (0:15)	
(98)	CHARACTER	64	ABNDGPRH	GP REGISTERS 0 - 15 - HIGH WRDS ON ENTRY TO ABEND
(98)	CHARACTER	64	ABNDREGH	
(98)	FULLWORD	4	ABNDRGXH (0:15)	
(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)

Table 539. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 (0:15)	
(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
(155)	CHARACTER	1	ABNDFLGX	
(155)	CHARACTER	1	ABNDFLG3	- VALID FIELDS
(155)	1...		ABNDREGV	- ABEND REGISTERS - HIGH *
(155)	.1..		ABNDGPR64A	64 bit general register values on entry to abend available
(155)	..1.		ABNDAFPRA	Additional FP register values on entry to abend available
(155)	...1		ABNDGPR32A	32 bit general register values on entry to abend available
(155)	.... 1...		ABNDOFPRA	Original floating point register (0, 2, 4 & 6) values on entry to abend available
(155)	.... .1..		ABNDACRA	Access register values on entry to abend available
(155)	.... ..1.		ABNDAFPCA	FPC register value on entry to abend available
(155)	1		ABNDVRRA	Vector register values on entry to abend available
(156)	CHARACTER	2	*	reserved
(158)	CHARACTER	8	ABNDBEAR	Breaking Event Address
(160)	CHARACTER	128	ABNDGPR64	
(160)	CHARACTER	8	ABNDREG64 (0:15)	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 (0:15)	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

Table 539. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(264)	CHARACTER	4	*	Spare
(268)	CHARACTER	16	ABNDPSW16	16 byte PSW on entry to abend (ASRA, ASRB, ASRD, AICA)
(278)	CHARACTER	8	ABNDTEA	64-bit exception address
Application context fields or nulls if no context				
(280)	CHARACTER	64	ABNDPLAT	Platform name
(2C0)	CHARACTER	64	ABNDAPPL	Application name
(300)	CHARACTER	64	ABNDOPER	Operation name
(340)	UNSIGNED	4	ABNDAMAJ	Major version num
(344)	UNSIGNED	4	ABNDAMIN	Minor version num
(348)	UNSIGNED	4	ABNDAMIC	Micro version num
(34C)	CHARACTER	4	*	Reserved
(350)	CHARACTER	512	ABNDVRRS	Vector registers
(350)	CHARACTER	16	ABNDVRREGS (0:31)	
(550)	CHARACTER	0	ABNDMSGT	MESSAGE TEXT (IF ANY)

Constants

Table 540.

Len	Type	Value	Name	Description
ABNDSTG values				
1	DECIMAL	0	ABNDNOHIT	No hit or not 0C4
1	DECIMAL	1	ABNDCDSA	CDSA hit
1	DECIMAL	2	ABNDECDSA	ECDSA hit
1	DECIMAL	3	ABNDERDSA	ERDSA hit
1	DECIMAL	4	ABNDRDSA	RDSA hit
1	DECIMAL	5	ABNDEUDSA	EUDSA hit
1	DECIMAL	6	ABNDUDSA	UDSA hit
1	DECIMAL	7	ABNDETDSA	ETDSA hit
1	DECIMAL	8	ABNDGCDSA	GCDSA hit
1	DECIMAL	9	ABNDGUDSA	GUDSA hit
ABNDKEY values				
1	DECIMAL	144	ABNDUSERKEY	USER key x'90'
1	DECIMAL	128	ABNDCICSKEY	CICS key x'80'

TACLE - Terminal abnormal condition line entry

```
CONTROL BLOCK NAME = DFHTCTLE
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Terminal Abnormal Condition Line Entry
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
```

```
        (C) Copyright IBM Corp. 1991
FUNCTION =
            Terminal Control Table Line Entry Prefix.
```

Table 541.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHTCTLE	DUMMY SECTION - LINE PREFIX
(0)	FULLWORD	4	TCTLEPSA	Storage accounting area
(4)	FULLWORD	4	TCTLEPCH	Error chain pointer
TERMINAL ERROR CODES				
(8)	CHARACTER	1	TCTLEPFL	Error flags
(8)	1		TCECTIO	"X'01'" Terminal I/O error code
(8)	1... ...1		TCEMCMTL	"X'81'" Message too long error code
(8)	1... .1..		TCEMCTCT	"X'84'" TCT search error code
(8)	1... .1.1		TCEMCROT	"X'85'" Output rejected - read only
(8)	1... .111		TCEMCUI	"X'87'" Unsolicited input on control UN
(8)	1... 1...		TCEMCIER	"X'88'" Input event rejected error code
(8)	1... 11..		TCEMCOER	"X'8C'" Output event rejected code
(8)	1... 11.1		TCEMCOLZ	"X'8D'" Output length of zero error
(8)	1... 111.		TCEMCNOA	"X'8E'" No output area error code
(8)	1... 1111		TCEMCOAE	"X'8F'" Output area exceeded error code
(8)	1..1 .1..		TCEMCUC	"X'94'" Unit check
(8)	1..1 .1.1		TCEMCUCS	"X'95'" Unit check - should not occur
(8)	1..1 .11.		TCEMCUE	"X'96'" Unit exception
(8)	1..1 .111		TCEMCUES	"X'97'" Unit exception should not occur
(8)	1..1 1..1		TCEMCUDT	"X'99'" Undetermined unit error
(8)	1..1 1111		TCEMIDR	"X'9F'" Invalid DEST -- TCAM return
(9)	CHARACTER	1	TCTLEPF2	Flags 2
(9)	1		TCEIDTD	"X'01'" Dummy term displacement indicator
(9)	.... ..1.		TCEIRE	"X'02'" Repeating error indicator
(9)	.... .1..		TACCUER	"X'04'" Control unit error flag

Table 541. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(9)	.... 1...		TACNPRO	"X'08'" Non-process error flag
(9)	...1		TCTECHLE	"X'10'" Error chain last entry flag
(9)	..1.		TACNTEP	"X'20'" Last TEP call indicator
(A)	HALFWORD	2		Reserved
(C)	FULLWORD	4	TCTLEPTE	Terminal entry address
(C)	...1		TCTLEPRE	"*-DFHTCTLE" Prefix length

TCA - Task Control Area

```
CONTROL BLOCK NAME = DFHTCAPS
DESCRIPTIVE NAME = CICS TS TASK CONTROL AREA
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1980, 2016
FUNCTION = The DFHTCAPS copybook declares the structure
           for the TASK CONTROL AREA (TCA). The TCA is the
           primary control block used by CICS to represent a
           transaction within AP domain.
           The TCA is a single area of storage described
           by structure DFHUSTCA. However, it is also
           possible to access the TCA as two separate
           structures, DFHUSTCA (User area) and DFHTCADY
           (System area). Field TCASYAA in DFHUSTCA
           contains the address of DFHTCADY, for this purpose.
           When reading code that deals with TCA fields, it is
           important to know which method of access is used.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NOT APPLICABLE
 MODULE TYPE = COPY
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE
PRODUCT-SENSITIVE PROGRAMMING INTERFACE
The following field forms part of the Product-Sensitive
Programming Interface:
TCAICTR
```

Table 542.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	648	DFHUSTCA	
TASK CONTROL AREA				
(0)	ADDRESS	4	TCASYAA	TCA SYSTEM AREA ADDRESS
(4)	BIT(8)	1	TCAXMSRF	XM secondary request flags *
(4)	1...		TCAENQ31	1 - ENQ arg is above the line * 0 - ENQ arg is below the line

Table 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	.1..		TCAENQTA	1 - MAXLIFETIME=TASK 0 - MAXLIFETIME=LUW
(4)	..11 1111		*	Reserved
(5)	UNSIGNED	1	TCATCQL4	ENQ arg len (31 bit args)
(5)	UNSIGNED	1	TCATCQLN	ENQ arg len (24 bit args)
(6)	UNSIGNED	1	TCAGFLG1	TCA general flag1
(6)	1...		TCAACPAC	DFHACP active for WEB
(6)	.1..		TCASDTSK	Shutdown task
(6)	..11 1111		*	Reserved
(7)	BIT(8)	1	TCAFCI	facility control indicator x'00' indicates NONE.
(7)	111.		*	Reserved
(7)	...1		TCAFCAID	AID FACILITY MASK.
(7)	.... 1...		TCAFCDCM	Destination Control indicator *
(7)	.... .1..		TCAFCICM	Interval Control indicator *
(7)	.... ..1.		TCAFCMCM	K C P MACRO FILE MASK
(7)	1		TCAFCTRM	Terminal Control indicator *
(8)	ADDRESS	4	TCAFCAAA	FACILITY CONTROL AREA ADDRESS, CONTENTS RELATED TO THE SYSTEM OR TASK-DEPENDENT FACILITY ASSOCIATED WITH THE TASK
(8)	ADDRESS	4	TCAFCPTR	facility control area address *
(C)	ADDRESS	4	TCACSOAD	A(CSA OPTIONAL FEATURES LIST)
(10)	ADDRESS	8	TCALCDSA	A(CURRENT KERNEL STACK ENTRY)
TASK CONTROL SECTION				
(18)	CHARACTER	0	TCAKCPBA	
(18)	CHARACTER	4	TCATCTFA	TCTTE ADDRESS, DCI=TERMINAL
(18)	CHARACTER	4	TCATCEA	TASK CONTROL EVENT CONTROL BLOCK ADDRESS
(18)	ADDRESS	4	TCATCQA4	ENQ arg addr (31 bit)
(18)	ADDRESS	4	TCATCQA	ENQ arg addr (24 bit)
(1C)	CHARACTER	1	TCATCEI	TASK CONTROL EVENT CONTROL INDICATOR
(1C)	BIT(8)	1	TCATCDC	TASK CONTROL DISPATCH CONTROL INDICATOR MASK MASK ABEND REQUESTED

Table 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1D)	BIT(8)	1	TCATCTR	TASK CONTROL TYPE OF REQUEST
(1D)	111.		*	Reserved
(1D)	...1		TCATOM	Attach request
(1D)	 1111		*	Reserved
(1E)	CHARACTER	1	*	Reserved
(1F)	CHARACTER	1	TCAPCABR	PROGRAM CONTROL TASK ABEND REQUEST
(1F)	BIT(8)	1	TCAPCDMP	PROGRAM CONTROL TASK DUMPED INDICATOR
(20)	BIT(8)	1	TCAPURGI	TASK PURGE INDICATOR
(20)	1...		*	Reserved (was TCATPURG)
(20)	.1..		TCASPURG	system purgeable mask
(20)	..11 1...		*	Reserved
(20)	.... .1..		TCAJOURN	Journalling in control
(20)	11		*	Reserved (was TCASTGFZ)
(21)	CHARACTER	2	*	Reserved
(23)	BIT(8)	1	TCASYABI	SYSTEM ABEND REQUEST INDICATOR
(23)	1...		TCAABIPM	ABEND IN PROGRESS MASK used during task termination
(23)	.1..		TCAABREC	ABEND RECOVERY IN PROGRESS * used to detect looping abends
(23)	..1.		TCAABDPM	ABEND DUMP IN PROGRESS MASK
(23)	...1		TCAABRAM	RECURSIVE ABEND MASK
(23)	.... 1...		TCAABRPC	RECURSIVE PROG INT.
(23)	.... .1..		TCAABPAA	POLICY ABEND MASK
(23)	.... ..1.		TCAA0C4	HANDLING 0C4 ABEND
(23)	1		*	Reserved
	Miscellaneous			
(24)	CHARACTER	0	*	
(24)	CHARACTER	4	TCATXNO	XM supplied txn number
(28)	CHARACTER	4	TCASVTRN	TRANSID saved
(2C)	BIT(8)	1	TCASAVE1	
(2C)	1...		TCASVEFT	Facility type saved
(2C)	.111 1111		*	
(2D)	BIT(8)	1	TCAJDBC	Used by JDBC syncpoints
(2D)	1...		TCASYNCP	Syncpoint has occurred
(2D)	.1..		TCAROLLB	Rollback has occurred

Table 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2D)	..11 1111		*	
(2E)	HALFWORD	2	TCAECSEQ	Event capture seq. no.
STORAGE CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCUSC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHSC TYPE=USERTCA DESCRIPTIVE NAME = CICS TS DFHSC USER OVERLAY OF THE DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1985, 2010 STATUS = 7.1.0				
(30)	ADDRESS	4	TCASCSA	ADDRESS OF STORAGE AFTER IT HAS BEEN OBTAINED BY STORAGE CONTROL AND INITIALIZED TO REQUESTED CONFIGURATION
(34)	BIT(8)	1	TCASCTR	STORAGE CONTROL TYPE OF REQUEST
(34)	1...		TCASCGET	Getmain request
(34)	.1..		TCASCFRE	Freemain request
(34)	..11 1...		*	Reserved
(34)	.... .1..		TCASCUSR	User storage freemain
(34)	11		*	Reserved
(35)	CHARACTER	1	TCASCIB	VALUE TO WHICH STORAGE IS TO BE INITIALIZED: ZERO, BLANKS, ETC.
(36)	UNSIGNED	2	TCASCNB	16-BIT UNSIGNED BINARY INTEGER REPRESENTING NUMBER OF BYTES REQUESTED FOR NON-PROGRAM STORAGE OR NUMBER OF DOUBLEWORDS REQUESTED FOR PROGRAM STORAGE.
REGISTER STORAGE				
(38)	ADDRESS	4	TCASCRS (8)	STORAGE CONTROL REGISTER STORAGE AREA: STORES REGISTERS 14 - 5
COMMON CONTROL				
(58)	FULLWORD	4	TCACCCA (13)	common control communication area used by some AP Domain modules as a parameter area *

Table 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8C)	FULLWORD	4	TCACCRS (5)	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	* (3)	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 NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHTR TYPE=USERTCA DESCRIPTIVE NAME = CICS TS DFHTR USER OVERLAY OF THE DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1983, 1990 STATUS = 7.1.0				
(CC)	CHARACTER	8	TCATRF	Data area 1 and 2
(CC)	FULLWORD	4	TCATRF1	TRACE ENTRY DATA AREA 1
(D0)	FULLWORD	4	TCATRF2	TRACE ENTRY DATA AREA 2
(D4)	BIT(8)	1	TCATRTR	TYPE OF TRACE REQUEST
(D4)	11..		TCATRET	Entry type '00' Make trace entry '01' Turn trace off '10' Turn trace on '11' Extended interface
(D4)	..1.		TCATRSM	System macro request
(D4)	...1		*	Reserved
(D4)	 1111		TCATRST	Request sub-type X'F' Reserved X'E' Reserved X'D' Trace on/off X'C' Reserved X'B' Reserved X'A' Reserved X'9' Reserved
(D4)	.... 1...		*	X'8' PP entry X'7' Reserved X'6' Reserved X'5' LIFO exit trace
(D4)	.... .1..		TCATRSYS	X'4' System trace X'3' LIFO enter trace
(D4)	.... ..1.		TCATRUSE	X'2' User trace

Table 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(D4)	1		*	X'1' Reserved X'0' Reserved
(D5)	BIT(8)	1	TCATRID	TRACE ENTRY IDENTIFICATION
(D6)	BIT(8)	1	TCATRMF	TCA TRACE CONTROL
(D6)	1...		TCATRSI	User trace for single task
(D6)	.111 1111		*	Reserved
(D7)	BIT(8)	1	TCATRID1	TRACE ENTRY I.D.EXTENSION
(D8)	ADDRESS	8	TCAEISTG	COMMAND LEVEL ASSEMBLER STORAGE
(E0)	FULLWORD	4	*	Reserved
(E4)	ADDRESS	4	TCAJCAAD	JOURNAL CONTROL AREA (JCA) ADDRESS
(E8)	ADDRESS	4	TCACSAAD	CSA address
(EC)	ADDRESS	4	TCATWAAD	Address of TWA in User storage *
(F0)	FULLWORD	4	TCATWALN	Length of TWA
(F4)	ADDRESS	4	TCAPCMEA	XPCTA, XPCHAIR, XPCFTCH modified address
(F8)	BIT(8)	1	TCAPCRFL	XPCTA retry execution key
(F9)	BIT(8)	1	TCAPCSTG	Storage hit by ASRA 0C4
(FA)	BIT(8)	1	TCAAPM	Application program mask
(FB)	BIT(8)	1	TCAMFLAG	Miscellaneous flags
(FB)	1...		TCADUPAB	Duplicate abend
(FB)	.1..		TCAADPTY	Adapter fields set
(FB)	..1.		TCAADPTN	Adapter fields not set
(FB)	...1 1111		*	Reserved
(FC)	ADDRESS	4	TCAPRUWA	APLI ruwa pool
(100)	CHARACTER	0	*	End of User area
(100)	CHARACTER	0	DFHTCADY	
SYSTEM AREA				
(100)	CHARACTER	0	DFHSYTCA	
(100)	CHARACTER	8	TCACPROG	Current program name
TASK CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSKC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHKC TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHKC system overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1985, 2014 STATUS = 7.1.0				
(108)	CHARACTER	4	TCATXNUM	TXN MGR transaction num
(108)	BIT(8)	1	*	X'00'

Table 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(109)	CHARACTER	3	TCAKCTTA	TASK IDENTIFICATION NUM
(10C)	CHARACTER	8	TCASPOOL	TCA subpool id
(114)	ADDRESS	4	*	Reserved
(118)	ADDRESS	4	TCARSTSK	RESUME TASK'S TCA ADDRESS
(11C)	ADDRESS	4	TCADWLBA	DEFERRED WORK LIST BEGIN ADDRESS
INTERVAL CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSIC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHIC TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHIC System Overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1984, 2014 STATUS = 7.1.0 INTERVAL CONTROL SECTION				
(120)	ADDRESS	4	TCAICEAD	INTERVAL CONTROL ELEMENT ADDRESS
(124)	ADDRESS	4	*	Reserved
PROGRAM CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSPC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHPC TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS Section used by PROGRAM CONTROL Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1983, 2012 STATUS = 7.1.0				
(128)	ADDRESS	4	TCAPCSA	Head of chain of PESAs used to stack ap info over a link
(12C)	ADDRESS	4	*	Reserved
(130)	CHARACTER	16	TCAPCTWA	PROGRAM CONTROL WORK AREA
(130)	ADDRESS	8	TCAPCHS	HLL Save Area
TCAPCDSA IS THE HEAD OF THE CHAIN OF DYNAMIC STORAGE USED BY ASSEMBLER APPLICATION PROGRAMS TO MAKE THEM REENTRANT.				
(138)	ADDRESS	8	TCAPCDSA	Dynamic Storage Hdr
(140)	ADDRESS	4	TCALEDT	Address of data to be added to the transaction dump
(144)	CHARACTER	8	TCAPCIPN	Name of invoking program after DPL from client
TRANSIENT DATA SECTION				

Table 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
CONTROL BLOCK NAME = DFHTCSTD NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHTD TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHTD system overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1984, 2014 STATUS = 7.1.0 TRANSIENT DATA SECTION				
(14C)	ADDRESS	4	TCAIDAA	TD INPUT AREA
BASIC MAPPING SUPPORT				
CONTROL BLOCK NAME = DFHTCSBM NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHBMS TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHBMS System Overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1993, 2016 STATUS = 7.1.0				
(150)	ADDRESS	4	TCAOSPWA	OUTPUT SERVICE PROCESSOR WORK AREA ADDRESS (BMS)
(154)	CHARACTER	3	*	Reserved
(157)	BIT(8)	1	TCADLII	DL/I INDICATOR
(157)	1...		TCADLISI	DL/I SCHEDULING INITIATED
(157)	.111 1111		*	Reserved
RECOVERY / RESTART SECTION				
CONTROL BLOCK NAME = DFHTCSSP NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHSP TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHSP SYSTEM OVERLAY OF THE DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1985, 2010 STATUS = 7.1.0 RECOVERY / RESTART SECTION				
(158)	BIT(8)	1	TCAZLUWD	TASK'S LOGICAL UNIT OF WORK (LUW) DEFINITION
(158)	1...		TCAZAKPT	Activity keypoint
(158)	.111 1111		*	Reserved
(159)	BIT(8)	1	TCAZLUWT	TASK'S LUW STATUS
(159)	1...		TCAZRRD	A READ HAS OCCURRED IN THIS LUW
(159)	.1..		TCAZRWRT	A WRITE HAS OCCURRED IN THIS LUW
(159)	..1.		TCAZINDT	Next SHUNT is 'in-doubt'
(159)	...1 1...		*	Reserved
(159)	.... .1..		TCAZDLIC	DL/I-SYNCHRONOUS 4 COMMUNICATION ESTABLISHED

Table 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(159)	11		*	Reserved
(15A)	BIT(8)	1	TCABRPS	Rollback status
(15A)	1...		*	RESERVED
(15A)	.1..		TCATXBCK	TEXCI BACKOUT
(15A)	..1.		TCABRPSR	Backout-Reqd prog state
(15A)	...1 1111		*	Reserved
(15B)	CHARACTER	1	*	Reserved
(15C)	ADDRESS	4	TCADWASV	SAVE ADDR OF DWE CHN.
(160)	CHARACTER	4	*	Reserved
(164)	CHARACTER	4	TCAORABC	ORIGINAL ABEND CODE
(164)	CHARACTER	4	TCADBABC	ABEND CODE OF APPLICATION.
(168)	BIT(8)	1	TCATRTO	TERMINAL READ TIME OUT VALUE
(169)	BIT(8)	1	TCAFLAGS	MISCELLANEOUS FLAGS
(169)	1...		*	Reserved
(169)	.1..		TCANOTRC	SUPPRESS TRACE FOR TASK
(169)	..1.		*	Reserved
(169)	...1		TCASZUSE	FEPI Access in Task
(169)	.... 1...		*	Reserved
(169)	.... .1..		TCAUKCAL	MAKE CALL IN USER KEY
(169)	11		*	Reserved
(16A)	BIT(8)	1	TCASCS	SCREEN SIZE SELECTION ETC
(16A)	1...		TCAFASTL	FAST LINK to DFHMIRS
(16A)	.111		*	
(16A)	.... 1...		TCASCSZ	ALTERNATE SCREEN SIZE
(16A)	.... .1..		*	
(16A)	.... ..1.		TCAPRTCM	BMS TEXT PRINTER COMPATIBILITY
(16A)	1		TCATCABT	DFHACP abending flag
(16B)	BIT(8)	1	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 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(180)	ADDRESS	4	TCACEEPT	LE/370 Parameter List Address *
(184)	ADDRESS	4	TCAIIIRE	III task return addr
(188)	ADDRESS	8	TCAREGPT	EXEC CICS regs
(190)	FULLWORD	4	TCAXXTCB	XPTCB or SJTCB blk addr
(194)	ADDRESS	4	TCATBLD	Transaction build
(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
(1AC)	1...		TCAUIBAQ	UIB ACQUIRED
(1AC)	.111		*	Reserved
(1AC)	.... 1...		TCAEXDLI	EXEC DLI
(1AC)	.... .1..		*	Reserved
(1AC)	.... ..1.		TCAREMOT	REMOTE
(1AC)	1		TCADBCTL	DBCTL
(1AD)	CHARACTER	2	TCAACMSG	DFHACP MSG NUMBER
(1AF)	BIT(8)	1	TCAAPFLG	AP DOMAIN FLAGS
(1AF)	1...		TCARSREQ	RESUME REQUIRED
(1AF)	.1..		TCAXMSOT	APXMI should invoke APXM
(1AF)	..1.		TCAROUTE	Transaction route attach has been sent to a remote CICS system
(1AF)	...1		TCADSAUT	disable audit SPI if
(1AF)	.... 1...		TCATSUSP	DFHAPIN suspend
(1AF)	.... .1..		TCACSDAI	processing EXEC CSD request *
(1AF)	11		*	Reserved
(1B0)	CHARACTER	3	*	Reserved
(1B3)	BIT(8)	1	TCAAAM	APPLICATION ADDRESSING MODE NB BITS 1 - 6 OF BYTE TCAAAM MUST BE ZERO
(1B3)	1...		TCAAAM31	31-BIT MODE
(1B3)	.1..		TCAAAM64	64-BIT MODE

Table 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(1D7)	1...		*	Reserved
(1D7)	.1..		*	Reserved
(1D7)	..1.		TCAJVMXT	System.exit from JVM
(1D7)	...1 1111		*	Reserved
(1D8)	CHARACTER	4	TCAJVMTK	Token for JVM instance
(1DC)	ADDRESS	4	TCAPCXA	PROGRAM LOAD POINT ADDRESS
(1E0)	CHARACTER	8	TCATRRSN	RESOURCE NAME
BASIC MAPPING SUPPORT FAST PATH FIELDS.				
(1E8)	CHARACTER	8	TCABMMSN	SUFFIXED NAME OF MOST RECENTLY LOADED BMS MAPSET
(1F0)	ADDRESS	4	TCABMMSA	ADDRESS OF MOST RECENT BMS MAPSET
(1F4)	CHARACTER	1	TCABMMW	WIDTH OF MOST RECENT BMS MAP
(1F5)	CHARACTER	1	TCABMMH	HEIGHT OF MOST RECENT BMS MAP
(1F6)	CHARACTER	1	TCABMMC	COLUMN POSITION MOST RECENT BMS MAP
(1F7)	CHARACTER	1	TCABMML	LINE POSITION MOST RECENT BMS MAP
LU6.2 INFORMATION				

Table 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1F8)	ADDRESS	4	TCAALUCX	ADDRESS OF LU6.2 EXTENSION
(1FC)	FULLWORD	4	TCATMRLP	TMP read lock list addr.
(200)	CHARACTER	4	TCAICREQ	REQID from an IC START
TASK CONTROL - TABLE MANAGER INTERFACE				
(204)	BIT(8)	1	TCAALFLG	Flag byte used by DFHALP
(204)	1...		TCAALRES	A RESUME is required
(204)	.111 1111		*	Reserved
(205)	CHARACTER	3	*	Reserved
(208)	ADDRESS	4	TCADOMPM	USED as plist addr
(20C)	CHARACTER	8	TCATRIDQ	TRACE ID QUALIFIER
TRANSIENT DATA				
CONTROL BLOCK NAME = DFHTC2TD NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHTD TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHTD system overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1984, 2014 STATUS = 7.1.0 TRANSIENT DATA - NEW 1.7 FIELDS				
(214)	CHARACTER	4	TCADSTID	TRANSIENT DATA DESTID
SPECIAL FEATURES				
(218)	ADDRESS	4	TCAPSDBA	BASE POINTER FOR TASK PDB CHAIN FOR MVS *
(21C)	CHARACTER	2	*	Reserved
Transaction Routing parameters (DFHAPRT->DFHZIS2) & ATI routing for PF starts				
(21E)	BIT(8)	1	TCAAPRTF	Transaction Routing parameter flags
(21E)	1...		TCAPRIP	Priority is to be passed to the AOR
(21E)	.1..		TCASYSNP	Applid present
(21E)	..1.		TCARTST	Routable start
(21E)	...1		TCATRMNP	Terminal netname present
(21E)	 1111		*	Reserved
(21F)	UNSIGNED	1	TCATRPRI	Priority value to pass to AOR
(220)	ADDRESS	4	TCADSBA	DBCTL SCHEDULING BLOCK ADDRESS *
(224)	CHARACTER	4	TCADLUIB	USER INTERFACE BLOCK (UIB) *
(224)	ADDRESS	4	TCADLIBA	UIB ADDRESS
(228)	ADDRESS	4	TCAAPRET	return address for DETACH
(22C)	CHARACTER	8	TCAPLAN	DB2 plan in use if any

Table 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(234)	CHARACTER	8	TCATRMNE	Terminal netname
(23C)	CHARACTER	4	TCASUTOK	suspend/resume token for general AP use
(240)	ADDRESS	8	TCAEIUSA	A(EIUS). The user part of the EXEC CICS interface structure
(248)	CHARACTER	8	TCASYSNE	Applid of owning Terminal
CPI-C				
(250)	ADDRESS	4	TCACPCCN	base pointer for CPC chain
(254)	ADDRESS	4	TCATRU24	Head of TRUE save area
(258)	CHARACTER	1	TCAFCNOM	Copy of FCN OLDMODE
(259)	CHARACTER	3	*	Reserved
(25C)	ADDRESS	4	*	Reserved
FIELDS FOR USE BY DFHSRP (24 BYTES)				
(260)	CHARACTER	24	TCASRDAT	Fields for SRP use only
(260)	CHARACTER	8	TCASRPGM	Name of abended program
(268)	CHARACTER	8	TCASRPCD	Kernel error code xxx/yyyy
(268)	CHARACTER	3	TCASYABD	xxx
(26B)	CHARACTER	1	*	/
(26C)	CHARACTER	4	TCATRABD	yyyy
(270)	FULLWORD	4	TCASROFF	Offset of abend in program
(270)	ADDRESS	4	TCAKEDAD	-> Kernel error data copy
(274)	BIT(8)	1	TCASRFLG	SRP flag byte
(274)	1...		TCASRDMP	System dump required
(274)	.1..		TCAEMSIC	EMS deliberate prog check
(274)	..11		*	Reserved
(274)	.... 1...		TCASRAP	AP0001 abend issued by DFHSRP
(274)	.... .1..		TCACHKAD	EDF DELIBERATE ABEND
(274)	.... ..1.		TCAFCNFO	FCN abend on FO TCB
(274)	1		TCACNCHK	Channel storage check ... ... in progress
(275)	UNSIGNED	1	TCASRLOC	Abend in application?
(276)	BIT(16)	2	TCASREXC	EXC trace point id
FIELDS FOR THE REMOTE SYSTEM AND TRANSACTION NAMES				
(278)	CHARACTER	4	TCARMTRA	Remote Transaction name
(27C)	CHARACTER	4	TCARMSYS	Remote System name
FIELDS FOR COMMAND AUDIT				
(280)	CHARACTER	8	TCAWUIID	USERID PASSED FROM WUI
END OF SYSTEM AREA				

Table 542. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(288)	CHARACTER	0	TCAEND	TCA STORAGE AREA DISPLACEMENT

```
CONTROL BLOCK NAME = DFHTCUKC
DESCRIPTIVE NAME = CICS TS DFHKC USER OVERLAY OF THE DFHTCA
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1984, 2014
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Table 543.

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	36	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	CHARACTER	1	TCAKCRC	SYST.MACRO RTN.CODE FROM CHANGE FROM ATT/AVAIL/REDISP
(58)	1111 11..		*	
(59)	CHARACTER	1	TCAKCSRB	SECONDARY REQUEST BYTE
(5A)	CHARACTER	1	TCAKCRC2	Secondary response indicator (macro compatibility XMxx reason) *
(5B)	CHARACTER	1	TCATOMOP	Attach options
(5B)	1...		TCATOMCN	Conditional attach
(5B)	.1..		TCATOMEP	Entrypoint attach
(5B)	..1.		TCATOMST	Attach of a system task
(5B)	...1		TCATOTON	Tracking data override no
(5B)	.... 1...		TCATOTOY	Tracking data override yes
(5B)	.... .111		*	Reserved
(5C)	ADDRESS	4	TCAKCEPA	ENTRY POINT ADDRESS
(60)	CHARACTER	8	*	Reserved
(68)	CHARACTER	4	TCAKCDST	T.D. DESTINATION ID
(6C)	ADDRESS	4	TCAKCPA	ATTPARM address
(6C)	CHARACTER	4	TCAKCSYS	REMOTE SYSTEM IDENTIFICATION *
(70)	CHARACTER	4	TCAKCTI	TRANSACTION IDENTIFICATION
(74)	UNSIGNED	1	TCAKCPL	ATTPARM length
(75)	CHARACTER	2	*	RESERVED
(77)	BIT(8)	1	TCAKCFI	FACILITY CONTROL INDICATOR *
(77)	111.		*	RESERVED
(77)	...1		TCAKCAID	AID FACILITY MASK.

Table 543. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(77)	.... 1...		TCAKCDCM	DESTINATION CONTROL TABLE
(77)	.... .1..		TCAKCICM	NON-TERMINAL FACILITY MASK *
(77)	.... ..1.		TCAKCMCM	K C P MACRO FILE MASK
(77)	1		TCAKCTRM	TERMINAL FACILITY MASK
(78)	CHARACTER	4	TCAKCTA	TASK CONTROL AREA ADDRESS
(78)	ADDRESS	4	TCAKCFA	FACILITY CONTROL ADDRESS
(78)	ADDRESS	4	TCAKCPTR	FACILITY CONTROL ID

```
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TCAICTR
```

Table 544.

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	44	*	
(58)	CHARACTER	1	TCAICTR	TYPE OF REQUEST/RESPONSE
(59)	CHARACTER	1	*	RESERVED
(5A)	HALFWORD	2	TCAICMSC	msec field for delay
(5C)	CHARACTER	4	TCAICTEC	ICP 'POST' TIMER EVENT CONTROL ADDRESS
(5C)	ADDRESS	4	TCAICDA	ICP MACRO SERVICE-DATA ADDRESS
(60)	CHARACTER	8	TCAICQPX	REQUEST ID PREFIX
(60)	CHARACTER	8	TCAICQID	ICP REQUEST IDENTIFICATION
(68)	FULLWORD	4	TCAICRT	REQUESTED TIME INTERVAL OR EXPIRATION TIME-OF-DAY
(6C)	CHARACTER	4	TCAICFA	ICP FACILITY CONTROL ADDR.
(6C)	CHARACTER	4	TCAICTI	ICP TRANSACTION IDENT.
(70)	CHARACTER	4	TCAICUSA	ADDRESS OF US PARAMETER STORAGE WHICH IS 11 BYTE FIELD OF: 1 BYTE USERID LENGTH 10 BYTE FIELD FOR USERID

Table 544. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(75)	1...		TCAICHDR	DATA RETURNED BY IC GET CONTAINS A USER-BUILT HDR. (INTERNAL)
(75)	.1..		TCAICHSZ	FEPI start - startcode SZ
(75)	..1.		TCAICTKX	XM Transaction token flag
(75)	...1		TCAICRTC	Router commarea present
(75)	.... 1...		TCAICUSS	Userid is that of system
(75)	.... .1..		TCAICUSR	US domain parameter
(75)	.... ..1.		TCAICDFS	Deferred dynamic start
(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

```
CONTROL BLOCK NAME = DFHTCUTC
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Table 545.

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	40	*	ORIGIN TO COMMON COMMUNICATION AREA
This area (from TCATP_TRACE to TCATP_TRACE_LEN) is traced in some ZC level 1 trace formats				
(58)	CHARACTER	32	TCATP_TRACE	TCA parm list trace area
(58)	BIT(8)	1	TCATPAPR	APPLICATION REQUEST RESPONSE CODE
(58)	BIT(8)	1	TCATPLRC	LOCATE RETURN CODE FOR PAGE STATUS TERMINAL INTERPARTITION SESSION
(58)	1...		TCATPEB	END BRACKET RECEIVED (ISC) *
(58)	.1..		TCATPSNC	PREPARE/SPR RECEIVED (ISC) *
(58)	..1.		*	

Table 545. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(58)	...1		TCATPR10	CANCELLED DURING ALLOC
(58)	.... 1...		TCATPRC8	BAD REQUEST RETURN
(58)	.... .1..		TCATPRC4	POSSIBLE RETRY RETURN
(59)	BIT(8)	1	*	RESERVED
(5A)	BIT(8)	1	TCATPOS1	EXTERNAL OPERATOR REQUEST - byte 1
(5B)	BIT(8)	1	TCATPOS2	EXTERNAL OPERATOR REQUEST - byte 2
Overlaid by the LDC - level 4 For ZARQ (Application requests) - level 5 For ZISP - levels 6 and 7				
(5B)	BIT(8)	1	TCATPLDC	Logical Device Code
(5B)	1...		TCATPOER	ERASE REQUEST
(5B)	1...		TCATPQAF	ALLOC OP FREE
(5B)	1...		TCATPFSY	FREE OP implicit free
(5B)	.1..		TCATPOSS	SAVE TERMINAL STORAGE
(5B)	.1..		*	Reserved
(5B)	..1.		TCATPOLA	LINE ADDRESSING REQUEST
(5B)	..1.		TCATPQAR	ALLOC OP FREE AT RESTART
(5B)	...1		TCATPORR	READ REQUEST
(5B)	...1		TCATPQAU	ALLOC OP NOT PROTECTED AT
(5B)	.... 1...		TCATPODR	DISCONNECT REQUEST
(5B)	.... 1...		TCATPQUE	QUEUE REQUEST(0=NQ)
(5B)	.... .1..		TCATPOSR	SYNCHRONIZATION REQUEST
(5B)	.... .1..		*	Reserved
(5B)	.... ..1.		TCATPCVS	CONVERSE REQUEST
(5B)	.... ..1.		*	Reserved
(5B)	1		TCATPOWR	WRITE REQUEST
(5B)	1		TCATPIDT	ID IS CHAR (0=ADDR SPEC)
(5C)	BIT(8)	1	TCATPCS1	EXTERNAL CONTROL REQUEST - byte 1
For ZARQ (Application requests) - level 4 For ZSTU (Status change) - level 5				
(5C)	1...		TCATPNNI	NOATNI=YES
(5C)	1...		TCATPPG	PAGE
(5C)	.1..		TCATPNAB	NOABEND=YES
(5C)	.1..		TCATPAU	AUTOMATIC PAGING

Table 545. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5C)	..11 1...		*	reserved
(5C)	..1.		TCATPINP	INPUT
(5C)	...1		TCATPNOP	NO POLL
(5C)	.... 1...		TCATPSAI	AUTOMATIC INITIATION
(5C)	.... .1..		TCATPBPQ	BYP QUIESCE FOR PASS
(5C)	.... .1..		TCATPTSA	TRANSACTION
(5C)	11		*	reserved
(5C)	.... ..1.		TCATPINS	IN SERVICE
(5C)	1		TCATPOOS	OUT OF SERVICE
(5D)	BIT(8)	1	TCATPCS2	EXTERNAL CONTROL REQUEST - byte 2
For ZARQ (Application requests) - level 4 For ZSTU (Status change) - level 5				
(5D)	1...		TCATPCRB	READ BUFFER REQUEST
(5D)	1...		TCATNVTA	DON'T ISSUE VTAM CMDS
(5D)	.1..		TCATPCEU	ERASE ALL UNPROTECTED
(5D)	.1..		TCATALGI	REQUEST INTLOG
(5D)	..1.		TCATPCWL	WRITE LOCK REQUEST
(5D)	..1.		TCATNLGI	REQUEST NOINTLOG
(5D)	...1		TCATPCRL	READ LOCK REQUEST
(5D)	...1		TCATTFOR	FORCEPURGE
(5D)	.... 1...		TCATPCPY	COPY REQUEST
(5D)	.... 1...		TCATTPUR	PURGE TASK
(5D)	.... .1..		TCATPCPT	PRINT REQUEST
(5D)	.... .1..		TCATPREL	RELEASE
(5D)	.... ..1.		TCATPCNT	NOTRANSLATE REQUEST
(5D)	.... ..1.		TCATPRSO	RESYNCHRONIZATION OVERRIDE
(5D)	1		TCATPCPB	PSEUDO BINARY MODE
(5D)	1		TCATPACQ	ACQUIRE
(5E)	BIT(8)	1	TCATPOC1	OPERATION CONTROL BYTE 1
For ZARQ (Application requests) - see constants below For ZSTU (Status change) - see constants below				
(5F)	BIT(8)	1	TCATPOC2	OPERATION CONTROL BYTE 2
For ZARQ (Application requests) - level 4				
(5F)	1...		TCATPFRC	FORCE=YES
(5F)	.1..		TCATPWSR	WAIT ON INBOUND SIGNAL

Table 545. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5F)	..1.		TCATPLMP	LOGICAL DEVICE CODE (LDC) MNEMONIC PRESENT
(5F)	...1		TCATPFPD	FUNCTION MANAGEMENT HEADER (FMH) PROVIDED WITH DATA
(5F)	.... 1...		TCATPLWT	LAST WRITE FROM TASK
(5F)	.... .1..		TCATPOAO	OVERRIDE ASYNCHRONOUS OPERATION NOT USED
(5F)	.... ..1.		TCATPOSO	OVERRIDE SYNCHRONOUS OPERATION NOT USED
(5F)	1		TCATPWRO	WAIT REQUEST WITH OPERATION
(60)	CHARACTER	2	TCATPLDM	LOGICAL DEVICE MNEMONIC
(62)	BIT(8)	1	TCATPCON	CONNECTION TYPE FLAG
(62)	1111 111.		*	
(62)	1		TCATPNCM	NON-COMMUNICATION INDICATOR
(63)	BIT(8)	1	TCATPOC3	OPERATION CONTROL BYTE 3
For ZARQ (Application requests) - level 4 For ZLOC (Status change) - level 5				
(63)	1...		TCATPNEC	WRITE WITH CCOMPL=NO
(63)	1...		TCATTMID	TRMIDNT VALUE SUPPLIED
(63)	.1..		TCATPTTA	TCTTE ADDRESS SUPPLIED.
(63)	.1..		TCATSTAT	STATUS KEYWORD SUPPLIED
(63)	..1.		TCATPCND	CONDITIONAL REQUEST FLAG.
(63)	..1.		TCATSELC	SELECT KEYWORD SUPPLIED
(63)	...1		TCATPOWS	WRITE STRFIELD
(63)	...1		TCATTRMT	TRMTYPE SUPPLIED
(63)	.... 1...		TCATPTTO	TRANSP TIOA OBTAINED
(63)	.... 1...		TCATOPNW	OPTION=NOWAIT REQUESTED
(63)	.... .1..		TCATPDWR	DEFER REQUEST FLAG
(63)	.... .1..		TCATCMPN	TCTCOMP=NO REQUESTED
(63)	.... ..1.		TCATPINV	INVITE REQUEST FLAG

Table 545. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(63)	.... ..1.		TCATSIND	SCAN INDIRECTS, DOM'N=SYS
(63)	1		*	X'01' RESERVED
(63)	1		*	X'01' RESERVED
(64)	CHARACTER	20	TCATPPNM	PROGRAM NAME FIELD
(64)	ADDRESS	4	TCATPTA	TMNL ID OR A(FULL|MODEL TE)
(68)	CHARACTER	16	TCATPREQ	REQUEST ID PARAMETER.
(68)	CHARACTER	16	TCATPAID	AID ADDRESS
(68)	ADDRESS	4	TCATPLDA	LOGIC DEVICE CODE ELEMENT ADDRESS
(6C)	CHARACTER	12	TCATPRMT	REMOTENAME OF FOUND TERM'L
(6C)	ADDRESS	4	TCATPPFL	TERMINAL PROFILE ADDRESS
(70)	CHARACTER	8	TCATPAPL	APPLID OF REMOTE REGION
(70)	CHARACTER	4	TCATPSYS	SYSID OF REMOTE REGION
(74)	ADDRESS	4	TCATPSKA	A(SKELETON TCTTE)
(74)	ADDRESS	4	TCATPFS	FS parameters plist
TCATP_TRACE_LEN End of parm list trace area				
(78)	CHARACTER	8	TCATPZTR	ZC trace work area
(78)	CHARACTER	4	TCATPZT1	Copy TCT exit footprints
(7C)	ADDRESS	4	TCATPZT2	Copy TCT address

```
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Table 546.

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	32	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	CHARACTER	1	TCAPCTR	TYPE OF REQUEST / RESPONSE
(59)	CHARACTER	1	TCAPCSR	PROGRAM CONTROL SECONDARY REQUEST
(5A)	CHARACTER	2	*	Reserved
(5C)	CHARACTER	8	TCAPCPI	PROGRAM IDENTIFICATION
(5C)	CHARACTER	4	TCAPCERA	ABEND EXIT RETURN ENTRY ADDRESS

Table 546. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(64)	CHARACTER	4	TCAPCEA	LOADED PROGRAM ENTRY ADDRESS AND PC BROWSE ENTRY ADDRESS
(64)	CHARACTER	4	TCAPCAC	ABNORMAL TERMINATION CODE
(68)	ADDRESS	4	TCAPGENT	Program entry point (GLUE)
(6C)	ADDRESS	4	TCAPGTKN	Program token (GLUE)
(70)	CHARACTER	8	TCAPCEPI	Progam that abended APCT

```
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```

Table 547.

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	22	*	OVERLAY THE TCA COMMON COMMUNICATION AREA
(58)	CHARACTER	22	TCAPH	FOR ZEROING REQUEST BYTES
(58)	ADDRESS	4	TCAPHRC	ADDRESS OF RETURN CODE
(5C)	ADDRESS	4	TCAPHPSN	ADDRESS OF PRTNSET NAME
(60)	ADDRESS	4	TCAPHPN	ADDRESS OF PARTITION NAME
(64)	ADDRESS	4	TCAPHPID	ADDRESS OF PARTITION ID
(68)	ADDRESS	4	TCAPHTIO	ADDRESS OF TIOA
(6C)	CHARACTER	1	TCAPHTR	REQUEST TYPE
(6D)	CHARACTER	1	TCAPHRCV	RETURN CODE VALUE

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```

Table 548.

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	8	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	BIT(8)	1	TCAMSRC1	RETURN CODE BYTE ONE
(58)	1...		TCAMSRF	ROUTE FAILED - NO RESOLUTIONS

Table 548. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(58)	.1..		TCAMSRW	ROUTE WORKED - SOME RESOLUTIONS
(58)	..1.		TCAMSIET	INVALID ERROR TERMINAL
(58)	...1		*	
(58)	.... 1...		TCAMSMTL	MAP TOO LARGE
(58)	.... .1..		TCAMSCBM	I/O AREA CANNOT BE MAPPED
(58)	.... ..1.		TCAMSPRI	PAGE RETURNED INDICATOR
(58)	1		TCAMSIR	INVALID REQUEST
(59)	BIT(8)	1	TCAMSRC2	RETURN CODE BYTE TWO
(59)	1...		TCAMSTSE	TEMP STORAGE I/O ERROR
(59)	.1..		TCAMSRCD	REQUEST CHANGE DIRECN ERROR
(59)	..1.		TCAMSUXI	UNEXPECTED INPUT
(59)	...1		TCAMSIMN	INVALID LDC MNEMONIC
(59)	.... 1...		TCAMSIPS	INVALID PARTITION SET NAME
(59)	.... .1..		TCAMSIPN	INVALID PARTITION NAME
(59)	.... ..1.		TCAMSIPF	PARTNFAIL ERROR
(59)	1		TCAMSDSS	DATASET STATUS CHANGE
(5A)	BIT(8)	1	TCAMSRC3	RETURN CODE BYTE THREE
(5A)	11..		*	
(5A)	..1.		TCATSITM	TS ITEMERR code
(5A)	...1		TCAMSIGR	SPECIFIED 'REQID' IGNORED
(5A)	.... 1...		TCAMSEOC	END-OF-CHAIN IN LAST INPUT
(5A)	.... .1..		TCAMSEOD	END-OF-DATA-SET LAST INPUT
(5A)	.... ..1.		TCAMSIFH	INBOUND FMH IN LAST INPUT
(5A)	1		TCAMSOI	PAGE OVERFLOW INDICATOR
(5B)	BIT(8)	1	TCAMSRI1	RETURN INFORMATION BYTE ONE
(5C)	CHARACTER	4	TCAMSPOF	PAGEBLD OVERFLO INFORMATION
(5C)	HALFWORD	2	TCAMSPGN	CURRENT PAGE NUMBER

Table 548. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5E)	HALFWORD	2	TCAMSOCN	OVERFLOW CONTROL NUMBER

Table 549.

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	64	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	BIT(8)	1	TCAMSTR1	TYPE REQUEST BYTE ONE
(58)	1...		TCAMSTRR	TYPE = ROUTE
(58)	.1..		TCAMSEO	ERRTERM = ORIG
(58)	..1.		TCAMSETI	ERRTERM = TERMINAL ID
(58)	...1		TCAMSRI	INTRVAL = NUMERIC VALUE
(58)	.... 1...		TCAMSRT	TIME = NUMERIC VALUE
(58)	.... .1..		TCAMSRA	LIST = ALL
(58)	.... ..1.		TCAMSRSA	LIST = SYMBOLIC ADDRESS
(58)	1		TCAMSROC	OPCLASS = OPERATOR CLASS
(59)	BIT(8)	1	TCAMSTR2	TYPE REQUEST BYTE TWO
(59)	1...		TCAMSRTL	TITLE = SYMBOLIC ADDRESS
(59)	.1..		TCAMSOPT	PROPT = NLEOM
(59)	..1.		TCAMSRQI	REQID = ALPHANUMERIC VALUE
(59)	...1		TCAMSTLD	LDC = MNEMONIC OR YES
(59)	.... 1...		TCAMSIOT	IOTYPE = IMMED
(59)	.... .1..		TCAMSLPS	SEND PARTNSET
(59)	.... ..1.		TCAMSRIN	RECV INTO EXEC COMMAND
(59)	1		TCAMSTRG	TYPE = PURGE
(5A)	BIT(8)	1	TCAMSTR3	TYPE REQUEST BYTE THREE
(5A)	1...		TCAMSLST	TYPE = LAST
(5A)	.1..		TCAMSRPT	RECEIVE PARTN
(5A)	..1.		TCAMSTRT	TYPE = TEXT
(5A)	...1		TCAMSTC	CURSOR = NUMBER
(5A)	.... 1...		TCAMSTCW	CTRL = ANY 3270 WCC
(5A)	.... .1..		TCAMSTMN	MAP = MAP NAME
(5A)	.... ..1.		TCAMSTSA	MSETADR = SYMBOLIC ADDRESS OR PSETADR = ADDRESS

Table 549. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5A)	1		TCAMSTSN	MAPSET = MAP SET NAME
(5B)	BIT(8)	1	TCAMSTR4	TYPE REQUEST BYTE FOUR
(5B)	1...		*	
(5B)	.1..		TCAMSTDN	DATA = NO
(5B)	..1.		TCAMSTRS	TYPE = SAVE
(5B)	...1		TCAMSTMA	MAPADR = SYMBOLIC ADDRESS
(5B)	.... 1...		TCAMSTRW	TYPE = WAIT
(5B)	.... .1..		TCAMSTRM	TYPE = MAP
(5B)	.... ..1.		TCAMSTRE	TYPE = ERASE
(5B)	1		TCAMSTRI	TYPE = IN
(5C)	BIT(8)	1	TCAMSTR5	TYPE REQUEST BYTE FIVE
(5C)	1...		TCAMSTRB	TYPE = PAGEBLD
(5C)	.1..		TCAMSTOF	OFLOW = SYMBOLIC ADDRESS
(5C)	..1.		TCAMSTEU	TYPE = ERASEAUP
(5C)	...1		TCAMSTFF	TYPE = FORMFEED
(5C)	.... 1...		TCAMSTRLOC	TYPE = LOCATE_MAP
(5C)	.... .1..		TCAMSTRO	TYPE = OUT
(5C)	.... ..1.		TCAMSTRF	TYPE = STORE
(5C)	1		TCAMSTRU	TYPE = RETURN
(5D)	BIT(8)	1	TCAMSTR6	TYPE REQUEST BYTE SIX
(5D)	1...		TCAMSTRP	TYPE = PAGEOUT
(5D)	.1..		TCAMSTCA	CTRL = AUTOPAGE
(5D)	..1.		TCAMSTCP	CTRL = PAGE
(5D)	...1		TCAMSTCK	CTRL = RETAIN
(5D)	.... 1...		TCAMSTCR	CTRL = RELEASE
(5D)	.... .1..		TCAMSWBC	WTBRK = CURRENT
(5D)	.... ..1.		TCAMSWBA	WTBRK = ALL
(5D)	1		TCAMSEPO	EODPURG = OPER
(5E)	BIT(8)	1	TCAMSTR7	TYPE REQUEST BYTE SEVEN
(5E)	1...		TCAMSTRX	TYPE = TEXTBLD
(5E)	.1..		TCAMSTH	HEADER = SYMBOLIC ADDRESS
(5E)	..1.		TCAMSTT	TRAILER = SYMBOLIC ADDRESS
(5E)	...1		TCAMSTJ	JUSTIFY = FIRST, LAST, OR VALUE
(5E)	.... 1...		TCAMSOPR	API SPECIFIES OUTPARTN

Table 549. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5E)	.... .1..		TCAMSAPR	API SPECIFIES ACTPARTN
(5E)	.... ..1.		TCAMSPGS	PGA SUPPLIED WITH DATA
(5E)	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
(5F)	1...		TCAMSIPR	API SPECIFIES INPARTN
(5F)	.1..		TCAMSMGM	MSR OPTION SPECIFIED
(5F)	..1.		TCAMSEIC	EXEC INTERFACE COMMAND
(5F)	...1		TCAMSTFP	FMHPARM = YES OR PARM
(5F)	.... 1...		TCAMSRDA	RDATT = SYMBOLIC ADDRESS
(5F)	.... .1..		TCAMSWRB	WRBRK = SYMBOLIC ADDRESS
(5F)	.... ..1.		TCAMSSIG	SIGNAL
(5F)	1		TCAMSMGC	SEND CONTROL
(60)	CHARACTER	4	TCAMSTA	TITLE ADDRESS
(60)	ADDRESS	4	TCAMSIOA	ALTERNATE I/O AREA ADDRESS
(64)	CHARACTER	4	TCAMSFSC	FIELD SEPARATOR CHARACTERS
(64)	CHARACTER	0	TCABMSFB	WCC AND FLAG BYTE
(64)	CHARACTER	1	TCAMSWCC	WRITE CONTROL CHARACTERS
(65)	BIT(8)	1	TCAMSJ	JUSTIFY = FIRST, LAST, OR VALUE
(66)	CHARACTER	2	TCAMSRPL	RETURNED LENGTH FROM RECEIVE PARTN
(66)	HALFWORD	2	TCABMSCP	CURSOR POSITION
(68)	CHARACTER	8	TCABMSMN	MAP NAME
(68)	CHARACTER	8	TCAMSPSN	PARTITION SET NAME
(68)	ADDRESS	4	TCABMSMA	MAP ADDRESS
(68)	ADDRESS	4	TCAMSHDR	HEADER ADDRESS
(68)	ADDRESS	4	TCAMSRLA	ROUTE OR RETURNED PAGE LIST ADDRESS
(6C)	ADDRESS	4	TCAMSTRL	TRAILER ADDRESS
(6C)	ADDRESS	4	TCABMSDA	ADS descriptor address
(6C)	CHARACTER	4	TCAMSRTI	TIME OR INTERVAL OF TIME
(70)	CHARACTER	8	TCAMSMSA	MAP SET OR PARTNSET ADDRESS

Table 549. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 550.

Offset Hex	Type	Len	Name (Dim)	Description
(8C)	STRUCTURE	20	*	ORIGIN TO COMMON CONTROL REGISTER STORAGE
REGISTER STORAGE				
(8C)	FULLWORD	4	* (4)	OVERLAID BY BMS REQUEST BYTES
(9C)	FULLWORD	4	TCAMSRS	BMS REGISTER SAVE AREA

```
CONTROL BLOCK NAME = DFHTCUSP
DESCRIPTIVE NAME = CICS TS DFHSP User Overlay of the DFHTCA
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      Restricted Materials of IBM
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```

Table 551.

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	11	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	BIT(8)	1	TCASPTR	SYNC POINT REQUEST
(58)	1...		*	Reserved
(58)	.1..		TCASPREP	SEND PREPARE
(58)	..11		*	Reserved
(58)	.... 1...		TCASPROL	TYPE=ROLLBACK
(58)	.... .1..		TCASPRAB	No remote rollback abend
(58)	.... ..1.		TCASPEXP	Explicit EXEC SYNCPOINT
(58)	1		TCASPUSR	TYPE=USER
(59)	CHARACTER	3	*	Reserved
(5C)	ADDRESS	4	TCASPSDA	Address of RMRO parameter area for DFHSP PHASE_1/2 calls
(60)	CHARACTER	2	*	Reserved
(62)	CHARACTER	1	TCASPRC	RETURN CODE

```
CONTROL BLOCK NAME = DFHTCUDC
DESCRIPTIVE NAME = CICS TS DFHDC USER OVERLAY OF THE DFHTCA
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
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                                    same as TCADCRS
```

Table 552.

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	16	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	CHARACTER	2	TCADCTR	TYPE OF REQUEST
REQUEST BYTE 1				
(58)	1...		TCADCCSA	DUMP THE CSA
(58)	.1..		TCADCTCA	DUMP THE TCA
(58)	..1.		TCADCPGM	DUMP THE PROGRAM AREAS
(58)	...1		TCADCTRT	DUMP THE TRACE TABLE
(58)	.... 1...		TCADCIOA	DUMP TERMINAL I/O AREAS
(58)	.... .1..		TCADCTRN	DUMP TRANSACTION AREAS
(58)	.... ..1.		*	RESERVED
(58)	1		TCADCSEG	DUMP USER SPECIFIED AREA
REQUEST BYTE 2				

Table 552. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(59)	1...		*	RESERVED
(59)	.1..		TCADCSIT	DUMP THE SIT
(59)	..1.		TCADCPPT	DUMP THE PPT
(59)	...1		*	RESERVED
(59)	.... 1...		TCADCPCT	DUMP THE PCT
(59)	.... .1..		TCADCTCT	DUMP THE TCT
(59)	.... ..1.		TCADCFCT	DUMP THE FCT
(59)	1		TCADCDCT	DUMP THE DCT
(5A)	HALFWORD	2	TCADCNB	DUMP CONTROL NUMBER OF BYTES
(5C)	ADDRESS	4	TCADCSA	DUMP CONTROL STORAGE ADDRESS
(60)	CHARACTER	4	*	RESERVED
(64)	CHARACTER	4	TCADCDC	DUMP IDENTIFICATION CODE

```
CONTROL BLOCK NAME = DFHTCUDL
DESCRIPTIVE NAME = CICS DL/I TCA Communication Area Overlay
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1983, 2010
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 553.

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

Table 553. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 TS DFHTD USER OVERLAY OF THE DFHTCA
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```

Table 554.

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	32	*	overlay on the TCA Common Control Communication Area
(58)	BIT(8)	1	TCATDTR	- type of request / response
(58)	1...		*	- reserved
(58)	.1..		TCATDPUT	- TYPE=PUT
(58)	..11 1111		*	- reserved
(59)	CHARACTER	3	*	- reserved
(5C)	CHARACTER	4	TCATDDI	queue id - either N(queue) or A(DCTE)
(60)	CHARACTER	24	TCATDROA	- CTYPE=... overlay area

Table 555.

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 556.

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	8	*	overlay area for DFHTD CTYPE=OPEN, ..., PUT, ...
(60)	ADDRESS	4	TCATDDA	- A(DCTE) or 0 - in each case TCATDDI contains N(queue)
(64)	ADDRESS	4	TCATDOCP	- A(TDOC parameter list)
(64)	ADDRESS	4	TCATDTDP	- A(TDTD parameter list)

```
CONTROL BLOCK NAME = DFHTCUTS
DESCRIPTIVE NAME = CICS TS DFHTS User Overlay of the DFHTCA
     Licensed Materials - Property of IBM
```

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Table 557.

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 *
(58)	1...		TCATSGET	get(q) request
(58)	.1..		TCATSPUT	put(q) request
(58)	..1.		TCATSREL	purge/release request
(58)	...1		TCATSADR	address supplied on get
(58)	...1		TCATSCND	conditional request
(58)	.... 1...		TCATSENT	entry no. supplied on get
(58)	.... 1...		TCATSMST	main storage request
(58)	.... .1..		TCATSUPD	update request
(58)	.... ..1.		TCATSSYS	system request
(58)	1		TCATSQUE	queue type request
(59)	BIT(8)	1	TCATSTR2	TYPE OF REQUEST (SECONDARY) *
(59)	1...		TCATSICE	append ice
(59)	.1..		TCATSPUN	put unique
(59)	..1.		TCATSWRM	warm start restore
(59)	...1		TCATSEMR	emergency start restore
(59)	.... 1...		TCATSBMS	class=bms
(59)	.... .1..		TCATSTRM	storage class=terminal
(59)	.... ..1.		TCATSFLB	flush buffers
(59)	1		TCATSES2	ESCAPE BIT (TCATSTR3 VALID) *
(5A)	CHARACTER	2	*	Reserved
(5C)	ADDRESS	4	TCATSDA	TEMPORARY STORAGE DATA ADDRESS *
(60)	CHARACTER	8	TCATSDI	TEMPORARY DATA IDENTIFICATION
(68)	HALFWORD	2	TCATSRN	TEMPORARY STORAGE RECORD NUMBER
(6A)	CHARACTER	1	TCATSTR3	TYPE OF REQUEST(TERTIARY)
(6A)	1...		TCATSHDO	HEADER PRESENT IN OUTPUT DATA
(6A)	.1..		TCATSHLL	REQUEST ISSUED BY HLL - I.E. BY DFHETS
(6A)	..1.		TCATSEXT	EXTENDS TCA AFTER TCATSSTA

Table 557. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6A)	...1		TCATSPRV	PRIVILEGED REQUEST - DO NOT WAIT FOR OPEN-FOR-BUSINESS
(6A)	.... 1...		TCATSINI	CTYPE=INITIALIZE REQUEST
(6A)	.... .1..		TCATSWTI	CTYPE=WAITINIT REQUEST
(6A)	.... ..1.		TCATSRST	RESTART TASK
(6A)	1		TCATSGDB	DWE Recovery
(6B)	CHARACTER	1	TCATSRS2	2ND RESPONSE BYTE
(6B)	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.
(74)	1...		TCATSLRE	long record extn queue
(74)	.1..		TCATSLRH	long record header
(74)	..1.		TCATSLRU	long record header update
(74)	...1 1111		*	reserved
(75)	CHARACTER	1	*	reserved
(76)	HALFWORD	2	TCATSTNR	TOTAL NUMBER OF RECORDS
(78)	CHARACTER	0	*	

```
CONTROL BLOCK NAME = DFHTCUDI
DESCRIPTIVE NAME = CICS TS DFHDI USER OVERLAY OF THE DFHTCA
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```

Table 558.

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	24	*	
(58)	CHARACTER	2	TCADIRC	CURRENT RETURN CODE
(58)	BIT(8)	1	TCADIRC1	CLASS OF ERROR
(58)	111.		*	
(58)	...1		TCADIQSN	UNKNOWN SENSE ERROR
(58)	.... 1...		TCADIQFU	FUNCTION ERROR
(58)	.... .1..		TCADIQDS	DESTINATION CHANGE RESPONSE
(59)	BIT(8)	1	TCADIRC2	VALUE OF ERROR CODE
(5A)	BIT(8)	1	TCADIFL1	OPERATION TYPE

Table 558. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5B)	BIT(8)	1	TCADIFL2	OPERATION FLAGS
(5B)	1...		TCADIFNV	VOLADDR SPECIFIED
(5B)	.1..		TCADIFNM	SELECT SPECIFIED
(5B)	..1.		TCADIFNP	PROFILE SPECIFIED
(5B)	...1		TCADIFND	DSN NOT SPECIFIED
(5C)	BIT(8)	1	TCADIFL3	OPERATION FLAGS
(5C)	1...		TCADIFNF	DEFRESP=YES
(5C)	.1..		TCADIFSS	TYPE=SAVE SPECIFIED
(5C)	..1.		TCADIFNK	KEY SPECIFIED
(5C)	...1		TCADIFNR	RRN SPECIFIED
(5C)	.... 1...		TCADIFKN	KEYNUMBER SPECIFIED
(5C)	.... .1..		*	
(5C)	.... ..1.		TCADIFRR	RESERVED
(5C)	1		TCADIFWT	WAIT REQUESTED OR DEFAULTED
(5D)	BIT(8)	1	TCADIFL4	OPERATION FLAGS RESERVED FOR FUTURE USE
(5E)	BIT(8)	1	TCADINRS	NUMBER OF RECORDS IN REQUEST
(5F)	BIT(8)	1	TCADISEL	SELECT VALUE
(60)	CHARACTER	4	TCADIRNA	RECORD ID
(60)	ADDRESS	4	TCADIKYA	KEY ADDRESS
(64)	ADDRESS	4	TCADIDNA	DATA SET NAME ADDRESS
(68)	ADDRESS	4	TCADIVNA	VOLUME NAME ADDRESS
(6C)	BIT(8)	1	TCADIDSP	DATA STREAM PROFILE
(6D)	CHARACTER	1	*	RESERVED
(6E)	HALFWORD	2	TCADIKYN	KEYNUMBER VALUE
(70)	CHARACTER	0	TCADIPND	END OF PLIST MARKER

Constants

Table 559.

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				

Table 559. (continued)

Len	Type	Value	Name	Description
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
THE FOLLOWING BELONG TO FIELD TCATCTR				
1	HEX	10	TCATOMX	attach request
1	HEX	40	TCATWM	wait request
1	HEX	08	TCATRM	TASK RESUME MASK
1	HEX	05	TCACEM	CONDITIONAL ENQUEUE MASK *
1	HEX	02	TCATDM	TASK DEQUEUE MASK
1	HEX	01	TCATEM	TASK ENQUEUE MASK
1	HEX	31	TCADUPQ	DUPLICATE ENQUEUE RESPONSE *
1	HEX	32	TCATCONQ	COND ENQ FAILED RESP
1	HEX	00	TCATCOK	COND ENQ SUCCESSFUL RESP *
1	HEX	2C	TCAPROFL	LOCATE PROFILE
1	HEX	2D	TCAPROB	BROWSE PROFILES
1	HEX	2E	TCAPROBU	BROWSE PROFILES UNLOCK PREVIOUS
1	HEX	2F	TCAKCREP	REPLACE PCT ELEMENT
1	HEX	2F	TCAKCSRQ	KCP SECONDARY REQUEST
THE FOLLOWING BELONG TO FIELD TCAPURGI				
1	HEX	BF	TCASNPRG	STALL NO PURGE MASK
EXIT XSRAB ABEND RECOVERY OPTION (TCAPCARO) VALUES				
1	HEX	00	TCAPCAGO	Abend ASRB, don't cancel exits
1	HEX	C3	TCAPCANC	Abend ASRB, cancel exits
1	HEX	C1	TCAPCAAC	Terminate CICS
STORAGE TYPE HIT BY ASRA 0C4 (TCAPCSTG) VALUES				
1	HEX	00	TCANOHIT	No hit or not 0C4
1	HEX	01	TCACDSA	CDSA hit
1	HEX	02	TCAECDSA	ECDSA hit

Table 559. (continued)

Len	Type	Value	Name	Description
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
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

Table 559. (continued)

Len	Type	Value	Name	Description
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
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

Table 559. (continued)

Len	Type	Value	Name	Description
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
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

Table 559. (continued)

Len	Type	Value	Name	Description
1	HEX	06	TCATPERR	ISSUE-ERROR request
1	HEX	07	TCATPABN	ISSUE-ABEND request
1	HEX	08	TCATPSHU	SHUNT request
ZLOC REQUEST FLAGS				
1	HEX	01	TCATPLOC	LOCATE REQUEST
1	HEX	02	TCATPATI	AUTOMATIC TASK INITIATION
1	HEX	05	TCATPUNL	UNLOCK REQUEST
1	HEX	08	TCATPLDR	LOGICAL DEVICE CODE REQUEST
1	HEX	20	TCATPSYN	SYNC-POINT REQUEST
1	HEX	21	TCATPRCY	RECOVER REQUEST
1	HEX	10	TCATPXLT	TRANSLATE ID TO UNIQUENAME (REQUEST
ZDET REQUEST FLAGS				
1	HEX	10	TCATPDET	DETACH REQUEST
ZSTU REQUEST FLAGS				
1	HEX	02	TCATPFOR	FORCEPURGE
1	HEX	03	TCATPPUR	TASK PURGE REQ(TCATPTA=TCA)
1	HEX	04	TCATPTST	STATUS REQUEST
THE FOLLOWING REFER TO FIELD TCATPOS2 ZLOC REQUEST SETTINGS WITH CTYPE=LOCATE, 3 BITS SPECIFY THE FORM OF SEARCH ARGUMENT: THE INTERPRETATION OF THE 2 LOW-ORDER BITS IS MAINTAINED IN THE FOLLOWING, FOR COMPATIBILITY WITH CALLS IN OLD MODULES.				
1	HEX	00	TCATPLCL	LOCAL DOMAIN IE THIS CICS.
1	HEX	08	TCATPSTM	THE SYTEMS ENTRIES.
1	HEX	10	TCATPREM	REMOTE DOMAIN (ALL REGIONS)
1	HEX	18	TCATPGBL	ALL REGIONS, LOCAL & REMOTE
1	HEX	20	TCATPNIB	TERMINAL|SESSION, IDENTIFIED VIA
1	HEX	28	TCATPSES	SESSIONS, DEPENDENT ON SPECIFIED
1	HEX	30	TCATPGRP	LUC SESSIONS, DEPENDENT UPON A
1	HEX	38	TCATPMOD	MODE GROUP ENTRIES, DEPENDENT UPON
1	HEX	40	TCATPLUC	LUC SYSTEM OR SESSION DOMAIN
1	HEX	48	TCATPOOL	POOL TERMINALS DOMAIN

Table 559. (continued)

Len	Type	Value	Name	Description
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
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 *

Table 559. (continued)

Len	Type	Value	Name	Description
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
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				

Table 559. (continued)

Len	Type	Value	Name	Description
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)
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

Table 559. (continued)

Len	Type	Value	Name	Description
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.
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

Table 559. (continued)

Len	Type	Value	Name	Description
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
1	HEX	44	TCADIQLD	DESTINATION NAME LENGTH
1	HEX	45	TCADIQIV	INVALID VOLUME
1	HEX	46	TCADIQLV	VOLUME NAME LENGTH ERROR
1	HEX	47	TCADIQTT	TRANSMIT DATASET ATERM
1	HEX	48	TCADIQAV	ACTIVE DESTINATION SELECTED
1	HEX	60	TCADIQTS	TEMPORARY STORAGE ERROR
1	HEX	F1	TCADIQUF	UNEXPECTED SENSE CODE RECV
1	HEX	F2	TCADIQUA	INVALID INPUT RECEIVED
1	HEX	F3	TCADIQUI	UNSUPPORTED INPUT RECEIVED
THE FOLLOWING BELONG TO THE BYTE TCADIFL1				
1	HEX	01	TCADIFOA	TYPE=ADD
1	HEX	02	TCADIFOE	TYPE=ERASE
1	HEX	03	TCADIFOR	TYPE=REPLACE
1	HEX	04	TCADIFAB	TYPE=ABORT
1	HEX	05	TCADIFOQ	TYPE=QUERY
1	HEX	06	TCADIFEN	TYPE=END
1	HEX	07	TCADIFIR	TYPE=RECEIVE
1	HEX	08	TCADIFNT	TYPE=NOTE
1	HEX	09	TCADIFDT	TYPE=DETACH
1	HEX	0A	TCADIFIB	TYPE=ATTACH
1	HEX	0B	TCADIFOS	TYPE=SEND
1	HEX	0C	TCADIFCK	TYPE=WAIT
1	HEX	0D	TCADIFCA	CTYPE=ABORT
1	HEX	00	TCADIRLE	RELEASE LEVEL

TCADY - Task Control Area - System Area

```
DESCRIPTIVE NAME = TASK CONTROL AREA - SYSTEM AREA
FUNCTION = The DFHTCADY structure is repeated to provide
           the offsets when it is addressed separately.
```

Table 560.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	392	DFHTCADY	
SYSTEM AREA				
(0)	CHARACTER	0	DFHSYTCA	
(0)	CHARACTER	8	TCACPROG	Current program name
TASK CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSKC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHKC TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHKC system overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1985, 2014 STATUS = 7.1.0				
(8)	CHARACTER	4	TCATXNUM	TXN MGR transaction num
(8)	BIT(8)	1	*	X'00'
(9)	CHARACTER	3	TCAKCTTA	TASK IDENTIFICATION NUM
(C)	CHARACTER	8	TCASPOOL	TCA subpool id
(14)	ADDRESS	4	*	Reserved
(18)	ADDRESS	4	TCARSTSK	RESUME TASK'S TCA ADDRESS
(1C)	ADDRESS	4	TCADWLBA	DEFERRED WORK LIST BEGIN ADDRESS
INTERVAL CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSIC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHIC TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHIC System Overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1984, 2014 STATUS = 7.1.0 INTERVAL CONTROL SECTION				
(20)	ADDRESS	4	TCAICEAD	INTERVAL CONTROL ELEMENT ADDRESS
(24)	ADDRESS	4	*	Reserved
PROGRAM CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSPC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHPC TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS Section used by PROGRAM CONTROL Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1983, 2012 STATUS = 7.1.0				

Table 560. (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)	ADDRESS	4	*	Reserved
(30)	CHARACTER	16	TCAPCTWA	PROGRAM CONTROL WORK AREA
(30)	ADDRESS	8	TCAPCHS	HLL Save Area
TCAPCDSA IS THE HEAD OF THE CHAIN OF DYNAMIC STORAGE USED BY ASSEMBLER APPLICATION PROGRAMS TO MAKE THEM REENTRANT.				
(38)	ADDRESS	8	TCAPCDSA	Dynamic Storage Hdr
(40)	ADDRESS	4	TCALEDT	Address of data to be added to the transaction dump
(44)	CHARACTER	8	TCAPCIPN	Name of invoking program after DPL from client
TRANSIENT DATA SECTION				
CONTROL BLOCK NAME = DFHTCSTD NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHTD TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHTD system overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1984, 2014 STATUS = 7.1.0 TRANSIENT DATA SECTION				
(4C)	ADDRESS	4	TCAIDAA	TD INPUT AREA
BASIC MAPPING SUPPORT				
CONTROL BLOCK NAME = DFHTCSBM NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHBMS TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHBMS System Overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1993, 2016 STATUS = 7.1.0				
(50)	ADDRESS	4	TCAOSPWA	OUTPUT SERVICE PROCESSOR WORK AREA ADDRESS (BMS)
(54)	CHARACTER	3	*	Reserved
(57)	BIT(8)	1	TCADLII	DL/I INDICATOR
(57)	1...		TCADLISI	DL/I SCHEDULING INITIATED
(57)	.111 1111		*	Reserved
RECOVERY / RESTART SECTION				

Table 560. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
CONTROL BLOCK NAME = DFHTCSSP NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHSP TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHSP SYSTEM OVERLAY OF THE DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1985, 2010 STATUS = 7.1.0 RECOVERY / RESTART SECTION				
(58)	BIT(8)	1	TCAZLUWD	TASK'S LOGICAL UNIT OF WORK (LUW) DEFINITION
(58)	1...		TCAZAKPT	Activity keypoint
(58)	.111 1111		*	Reserved
(59)	BIT(8)	1	TCAZLUWT	TASK'S LUW STATUS
(59)	1...		TCAZRRD	A READ HAS OCCURRED IN THIS LUW
(59)	.1..		TCAZRWRT	A WRITE HAS OCCURRED IN THIS LUW
(59)	..1.		TCAZINDT	Next SHUNT is 'in-doubt'
(59)	...1 1...		*	Reserved
(59)	.... .1..		TCAZDLIC	DL/I-SYNCHRONOUS 4 COMMUNICATION ESTABLISHED
(59)	11		*	Reserved
(5A)	BIT(8)	1	TCABRPS	Rollback status
(5A)	1...		*	RESERVED
(5A)	.1..		TCATXBCK	TEXCI BACKOUT
(5A)	..1.		TCABRPSR	Backout-Reqd prog state
(5A)	...1 1111		*	Reserved
(5B)	CHARACTER	1	*	Reserved
(5C)	ADDRESS	4	TCADWASV	SAVE ADDR OF DWE CHN.
(60)	CHARACTER	4	*	Reserved
(64)	CHARACTER	4	TCAORABC	ORIGINAL ABEND CODE
(64)	CHARACTER	4	TCADBABC	ABEND CODE OF APPLICATION.
(68)	BIT(8)	1	TCATRTO	TERMINAL READ TIME OUT VALUE
(69)	BIT(8)	1	TCAFLAGS	MISCELLANEOUS FLAGS
(69)	1...		*	Reserved
(69)	.1..		TCANOTRC	SUPPRESS TRACE FOR TASK
(69)	..1.		*	Reserved
(69)	...1		TCASZUSE	FEPI Access in Task
(69)	.... 1...		*	Reserved
(69)	.... .1..		TCAUKCAL	MAKE CALL IN USER KEY

Table 560. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(69)	11		*	Reserved
(6A)	BIT(8)	1	TCASCS	SCREEN SIZE SELECTION ETC
(6A)	1...		TCAFASTL	FAST LINK to DFHMIRS
(6A)	.111		*	
(6A)	.... 1...		TCASCSZ	ALTERNATE SCREEN SIZE
(6A)	.... .1..		*	
(6A)	.... ..1.		TCAPRTCM	BMS TEXT PRINTER COMPATIBILITY
(6A)	1		TCATCABT	DFHACP abending flag
(6B)	BIT(8)	1	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	TCAIIIRE	III task return addr
(88)	ADDRESS	8	TCAREGPT	EXEC CICS regs
(90)	FULLWORD	4	TCAXXTCB	XPTCB or SJTCB blk addr
(94)	ADDRESS	4	TCATBLD	Transaction build
(98)	CHARACTER	4	TCAKCTTI	Assigned transaction id
(9C)	ADDRESS	4	TCATCUCN	TCTTE USER CHAIN FIELD.
(A0)	ADDRESS	4	TCAXFS23	XFSTG FOR TRANSFORMATION 2 AND 3
(A4)	ADDRESS	4	TCARSBA	ADDRESS OF REMOTE SCHEDULING BLOCK
(A8)	CHARACTER	4	TCAKCOID	ID WHICH ORIGINATED TASK
(AC)	BIT(8)	1	TCADLIST	DLI STATUS INFORMATION
(AC)	1...		TCAUIBAQ	UIB ACQUIRED
(AC)	.111		*	Reserved
(AC)	.... 1...		TCAEXDLI	EXEC DLI
(AC)	.... .1..		*	Reserved
(AC)	.... ..1.		TCAREMOT	REMOTE
(AC)	1		TCADBCTL	DBCTL

Table 560. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(AD)	CHARACTER	2	TCAACMSG	DFHACP MSG NUMBER
(AF)	BIT(8)	1	TCAAPFLG	AP DOMAIN FLAGS
(AF)	1...		TCARSREQ	RESUME REQUIRED
(AF)	.1..		TCAXMSOT	APXMI should invoke APXM
(AF)	..1.		TCAROUTE	Transaction route attach has been sent to a remote CICS system
(AF)	...1		TCADSAUT	disable audit SPI if
(AF)	.... 1...		TCATSUSP	DFHAPIN suspend
(AF)	.... .1..		TCACSDAI	processing EXEC CSD request *
(AF)	11		*	Reserved
(B0)	CHARACTER	3	*	Reserved
(B3)	BIT(8)	1	TCAAAM	APPLICATION ADDRESSING MODE NB BITS 1 - 6 OF BYTE TCAAAM MUST BE ZERO
(B3)	1...		TCAAAM31	31-BIT MODE
(B3)	.1..		TCAAAM64	64-BIT MODE
(B4)	ADDRESS	4	*	Reserved
(B8)	CHARACTER	4	TCACRABC	CURRENT ABEND CODE
(B8)	CHARACTER	4	TCAPCABC	CURRENT ABEND CODE
(BC)	CHARACTER	3	*	Reserved
(BF)	CHARACTER	1	TCAIACB	ABEND CONTROL BLOCK STATUS *
(C0)	ADDRESS	4	TCAPCACB	ABEND CONTROL BLOCK ADDRESS
(C4)	CHARACTER	4	TCASENSE	SENSE FIELDS
(C4)	CHARACTER	2	TCASS1	SYSTEM SENSE
(C6)	CHARACTER	2	TCAUS1	USER MSG NO.
(C8)	ADDRESS	4	TCATIEBA	TIE CHAIN FOR API ROUTER
(CC)	ADDRESS	4	TCADMTLA	ADDRESS OF CSD MANAGER TASK LOCAL STORAGE
(D0)	FULLWORD	4	TCATRRC	Transaction Routing RC
(D4)	CHARACTER	3	*	Reserved
(D7)	CHARACTER	5	TCAJVM	JVM information
(D7)	BIT(8)	1	TCACJVMF	DFHCJVM flags
(D7)	1...		*	Reserved
(D7)	.1..		*	Reserved
(D7)	..1.		TCAJVMXT	System.exit from JVM

Table 560. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(D7)	...1 1111		*	Reserved
(D8)	CHARACTER	4	TCAJVMTK	Token for JVM instance
(DC)	ADDRESS	4	TCAPCXA	PROGRAM LOAD POINT ADDRESS
(E0)	CHARACTER	8	TCATRRSN	RESOURCE NAME
BASIC MAPPING SUPPORT FAST PATH FIELDS.				
(E8)	CHARACTER	8	TCABMMSN	SUFFIXED NAME OF MOST RECENTLY LOADED BMS MAPSET
(F0)	ADDRESS	4	TCABMMSA	ADDRESS OF MOST RECENT BMS MAPSET
(F4)	CHARACTER	1	TCABMMW	WIDTH OF MOST RECENT BMS MAP
(F5)	CHARACTER	1	TCABMMH	HEIGHT OF MOST RECENT BMS MAP
(F6)	CHARACTER	1	TCABMMC	COLUMN POSITION MOST RECENT BMS MAP
(F7)	CHARACTER	1	TCABMML	LINE POSITION MOST RECENT BMS MAP
LU6.2 INFORMATION				
(F8)	ADDRESS	4	TCAALUCX	ADDRESS OF LU6.2 EXTENSION
(FC)	FULLWORD	4	TCATMRLP	TMP read lock list addr.
(100)	CHARACTER	4	TCAICREQ	REQID from an IC START
TASK CONTROL - TABLE MANAGER INTERFACE				
(104)	BIT(8)	1	TCAALFLG	Flag byte used by DFHALP
(104)	1...		TCAALRES	A RESUME is required
(104)	.111 1111		*	Reserved
(105)	CHARACTER	3	*	Reserved
(108)	ADDRESS	4	TCADOMPM	USED as plist addr
(10C)	CHARACTER	8	TCATRIDQ	TRACE ID QUALIFIER
TRANSIENT DATA				
CONTROL BLOCK NAME = DFHTC2TD NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHTD TYPE=SYSTEMTCA DESCRIPTIVE NAME = CICS TS DFHTD system overlay of the DFHTCA Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 1984, 2014 STATUS = 7.1.0 TRANSIENT DATA - NEW 1.7 FIELDS				
(114)	CHARACTER	4	TCADSTID	TRANSIENT DATA DESTID
SPECIAL FEATURES				
(118)	ADDRESS	4	TCAPSDBA	BASE POINTER FOR TASK PDB CHAIN FOR MVS *
(11C)	CHARACTER	2	*	Reserved

Table 560. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
Transaction Routing parameters (DFHAPRT->DFHZIS2) & ATI routing for PF starts				
(11E)	BIT(8)	1	TCAAPRTF	Transaction Routing parameter flags
(11E)	1...		TCAPRIP	Priority is to be passed to the AOR
(11E)	.1..		TCASYSNP	Applid present
(11E)	..1.		TCARTST	Routable start
(11E)	...1		TCATRMNP	Terminal netname present
(11E)	 1111		*	Reserved
(11F)	UNSIGNED	1	TCATRPRI	Priority value to pass to AOR
(120)	ADDRESS	4	TCADSBA	DBCTL SCHEDULING BLOCK ADDRESS *
(124)	CHARACTER	4	TCADLUIB	USER INTERFACE BLOCK (UIB) *
(124)	ADDRESS	4	TCADLIBA	UIB ADDRESS
(128)	ADDRESS	4	TCAAPRET	return address for DETACH
(12C)	CHARACTER	8	TCAPLAN	DB2 plan in use if any
(134)	CHARACTER	8	TCATRMNE	Terminal netname
(13C)	CHARACTER	4	TCASUTOK	suspend/resume token for general AP use
(140)	ADDRESS	8	TCAEIUSA	A(EIUS). The user part of the EXEC CICS interface structure
(148)	CHARACTER	8	TCASYSNE	Applid of owning Terminal
CPI-C				
(150)	ADDRESS	4	TCACPCCN	base pointer for CPC chain
(154)	ADDRESS	4	TCATRU24	Head of TRUE save area
(158)	CHARACTER	1	TCAFCNOM	Copy of FCN OLDMODE
(159)	CHARACTER	3	*	Reserved
(15C)	ADDRESS	4	*	Reserved
FIELDS FOR USE BY DFHSRP (24 BYTES)				
(160)	CHARACTER	24	TCASRDAT	Fields for SRP use only
(160)	CHARACTER	8	TCASRPGM	Name of abended program
(168)	CHARACTER	8	TCASRPCD	Kernel error code xxx/yyyy
(168)	CHARACTER	3	TCASYABD	xxx
(16B)	CHARACTER	1	*	/
(16C)	CHARACTER	4	TCATRABD	yyyy
(170)	FULLWORD	4	TCASROFF	Offset of abend in program
(170)	ADDRESS	4	TCAKEDAD	-> Kernel error data copy
(174)	BIT(8)	1	TCASRFLG	SRP flag byte
(174)	1...		TCASRDMP	System dump required

Table 560. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(174)	.1..		TCAEMSIC	EMS deliberate prog check
(174)	..11		*	Reserved
(174)	.... 1...		TCASRAP	AP0001 abend issued by DFHSRP
(174)	.... .1..		TCACHKAD	EDF DELIBERATE ABEND
(174)	.... ..1.		TCAFCNFO	FCN abend on FO TCB
(174)	1		TCACNCHK	Channel storage check ... ... in progress
(175)	UNSIGNED	1	TCASRLOC	Abend in application?
(176)	BIT(16)	2	TCASREXC	EXC trace point id
FIELDS FOR THE REMOTE SYSTEM AND TRANSACTION NAMES				
(178)	CHARACTER	4	TCARMTRA	Remote Transaction name
(17C)	CHARACTER	4	TCARMSYS	Remote System name
FIELDS FOR COMMAND AUDIT				
(180)	CHARACTER	8	TCAWUIID	USERID PASSED FROM WUI
END OF SYSTEM AREA				
(188)	CHARACTER	0	TCAEND	TCA STORAGE AREA DISPLACEMENT

ZRPL - CICS VTAM RPL extension

```
CONTROL BLOCK NAME = DFHTCLPS
DESCRIPTIVE NAME = CICS TS VTAM RPL and CICS Extension
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1989, 1999
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 561.

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	*	
(20)	1...		ZRPLZCL	Exit being called from ZDSP
(20)	.1..		ZRPLECB	ECB to be posted by ZDSP
(20)	..1.		ZRPLNHT	No HTA used with request
(20)	...1		ZRPLLRQ	Long-term SRB
(20)	.... 1...		ZRPLSRB	RPL executed in SRB mode
(20)	.... .1..		ZRPLQIP	RPL on completion que for ZRLP
(20)	.... ..1.		ZRPLNRC	Notify when on completion queue
(20)	1		ZRPLNRE	Caller handles No-TCT errs
(21)	BIT(8)	1	*	
(21)	1...		ZRPLERR	ZHPCH must call exit (ZSYX/ZLEX)
(22)	CHARACTER	2	*	Reserved
(24)	CHARACTER	0	*	Alignment

TCPRA - Receive any control element

```
BI-LINGUAL Control Block
========================================================================


DESCRIPTIVE NAME = CICS TS Receive Any Control Element


FUNCTION =
```

```
Receive Any Control Elements (RACE) are obtained at initialisation
time by DFHZRPL.
Each element is a control block used when processing a
Receive Any RPL. The RACE contains the ECB and a pointer to the
RPL. RACEs are contained in a pool pointed to by the TCTVRVRA field
of the terminal control table prefix.



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```

```
=====================================================================
Receive Any Pool
=====================================================================
```

Table 562.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	DFHTCPRA	
(0)	CHARACTER	4	TCTVRAPS	Receive Any Pool start !
(0)	UNSIGNED	1	TCTVRAB	Receive Any control byte !
(0)	1...		TCTVRRS	Receive Specific required !
(0)	.1..		TCTVRQP	Purge receive queue !
(0)	..1.		TCTVRAG	TIOA GETMAIN required !
(0)	...1		TCTVLRP	Last RPL in pool flag !
(0)	.... 1...		TCTVRAI	RAIA GETMAIN required !
(0)	.... .1..		TCTVROL	Overlength data GETMAIN rqd. !
(0)	.... ..1.		TCTVRGM	RPL GETMAIN required !
(0)	1		TCTVRAA	Receive Any not active !
(1)	UNSIGNED	1	TCTVRAB2	Receive Any control byte 2 !
(1)	1...		TCTVWBC	Waiting for BID completion !
(1)	.1..		TCTVCMR	Command response outstanding !
(1)	..1.		TCTVRSN	Data from RECEIVE SPECIFIC NQ!
(1)	...1		TCTVSRA	Stop issuing RECEIVE ANY !
(1)	.... 1...		TCTVIAP	Invalid TCTTE address passed !
(1)	.... .1..		TCTVSAS	Send asyn req outstanding
(1)	.... ..1.		TCTVEXC	*exc* trace already writn

Table 562. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	1		TCTVCFO	CLSDST force issued
(2)	HALFWORD	2	TCTVRAGN	Number of bytes for GETMAIN !
(4)	ADDRESS	4	TCTVRAL	Receive Any RPL address !
(8)	UNSIGNED	4	TCTVRAEB	Receive Any ECB
(8)	1...		TCTVRAEB_WAITING	ECB in waiting state
(8)	.1..		TCTVRAEB_POSTED	ECB in posted state
(8)	BIT(30) POS(3)	4	*	
(C)	ADDRESS	4	TCTVRAF1	Reserved
(10)	ADDRESS	4	TCTVRAF2	Reserved
(14)	ADDRESS	4	TCTVRAF3	Reserved
(18)	CHARACTER	8	TCTVRATI	TOD at time send issued

TCRWE - Remote install work element

```
CONTROL BLOCK NAME = DFHTCRWE
DESCRIPTIVE NAME = CICS/ESA Remote Install Work Element
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     (C) Copyright IBM Corp. 1990, 1995
FUNCTION = Store remote install/remote delete data for use by
           module DFHZATS. The DSECT is used exclusively by
           DFHZTSP DFHCRS and DFHZATS.
           The WE contains:
           FIELD LENGTH
           ===== ======
           Request type 1 byte
           ECB 1 byte
           Reserved 2 bytes
           Terminal ID 4 bytes
           Remote system ID 4 bytes
           TCSE address 4 bytes
           Netname 8 bytes
           Pointer to BPS 4 bytes
           New TCTTE address 4 bytes
           Token 8 bytes
LIFETIME = Storage is obtained by a GETMAIN issued by the calling
           module (DFHZTSP or DFHCRS) and released by a FREEMAIN
           following completion or failure of the remote install or
           remote delete. In the event of the calling program
           ABENDing before completion of the remote install or
           delete storage is released by DFHZATS.
STORAGE CLASS = Shared
LOCATION = The address is placed in TCAFCAAA for retrieval by
           DFHZATS
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = NONE
   MODULE TYPE = DSECT
-------------------------------------------------------------------
   PLS DECLARATION OF THE REMOTE WORK ELEMENT
```

Table 563.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	TCTRWE	
(0)	CHARACTER	1	RWETYPE	Request type
(1)	CHARACTER	1	RWEECB	ECB
(1)	1...		RWEIHA	Initiating program has ABENDed
(1)	.1..		RWEPOST	TCTTE built OK
(1)	..1.		RWESHA	Remote install prog. ABENDed
(1)	...1		RWEDUP	Duplicate TCTTE found
(1)	.... 1...		*	Reserved
(1)	.... .1..		RWETOK	TCTTE has a token
(1)	.... ..1.		RWEBITM	RT bit map used
(1)	1		*	Reserved
(2)	BIT(8)	1	RWE_FLAG	Input flags
(2)	1...		RWERSE	Remote system entry
(2)	.1..		RWESTERM	Shipped terminal definition
(2)	..1.		RWE_VT	Virtual Terminal
(3)	CHARACTER	1	RWEPAD	Reserved
(4)	CHARACTER	52	RWEVAR	
(4)	CHARACTER	4	RWETERM	Terminal ID
(8)	CHARACTER	4	RWESID	Remote system ID
(C)	ADDRESS	4	RWESADDR	TCSE address
(10)	CHARACTER	8	RWENETN	Netname
(18)	ADDRESS	4	RWEBPS	Address of BPS
(1C)	ADDRESS	4	RWETCTAD	New TCTTE address
(20)	CHARACTER	8	RWETOKEN	Token
(28)	CHARACTER	8	RWECORID	Correlation Id of terminal
(30)	CHARACTER	8	RWENETOR	TOR Netname

Constants

Table 564.

Len	Type	Value	Name	Description
1	HEX	08	RWEINST	Install requested
1	HEX	04	RWEDEL	Remote delete request
1	HEX	02	RWEMDEL	Mass delete request
1	HEX	01	RWEFDEL	Mass flag request

TCTFX - Terminal control table prefix

```
CONTROL BLOCK NAME = DFHTCTFS
DESCRIPTIVE NAME = CICS TS TERMINAL CONTROL TABLE PREFIX
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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
     R132566 710 161011 HDAFDRB: Add things for BMS performance
```

Table 565.

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 565. (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
(5D)	1...		*	80
(5D)	.1..		*	40
(5D)	..1.		*	20
(5D)	...1		*	10
(5D)	.... 1...		TCTVUSFD	08 ACB USERFLD supported
(5D)	.... .1..		*	04
(5D)	.... ..1.		*	02
(5D)	1		TCTVLUNS	01 Resource ID vector
(5E)	BIT(8)	1	TCTVLVL2	Function support byte 2
(5E)	1...		*	80
(5E)	.1..		*	40
(5E)	..1.		*	20
(5E)	...1		TCTVXRFS	10 VTAM API is XRF capable
(5E)	.... 1...		TCTVCLSS	08 CLSDST sense codes supptd
(5E)	.... .1..		TCTVSSON	04 Sending SONCODE supported
(5E)	.... ..1.		TCTVSLHO	02 SETLOGON HOLD supported
(5E)	1		*	01
(5F)	BIT(8)	1	TCTVLVL3	Function support byte 3
(5F)	1...		TCTV31BA	80 31-bit addr support
(5F)	.1..		TCTVQRN	40 Queued response NOTFN
(5F)	..1.		*	20
(5F)	...1		TCTVUVAR	10 INQUIRE USERVAR supp.
(5F)	.... 1...		*	08
(5F)	.... .1..		*	04
(5F)	.... ..1.		*	02
(5F)	1		*	01
(60)	BIT(8)	1	TCTVLVL4	Function support byte 4
(60)	1...		*	80
(60)	.1..		TCTVPLUS	40 Per. Sess. terminals supported
(60)	..1.		*	20

Table 565. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(60)	...1		*	10
(60)	.... 1...		TCTVPLUT	08 Per. Sess. APPC, LU61 & terminals supported
(60)	.... .1..		*	04
(60)	.... ..1.		*	02
(60)	1		*	01
(61)	BIT(8)	1	TCTVLVL5	Function support byte 5
(61)	1...		*	80
(61)	.1..		*	40
(61)	..1.		*	20
(61)	...1		*	10
(61)	.... 1...		*	08
(61)	.... .1..		*	04
(61)	.... ..1.		*	02
(61)	1		*	01
(62)	BIT(8)	1	TCTVLVL6	Function support byte 6
(62)	1...		*	80
(62)	.1..		*	40
(62)	..1.		TCTVIDS	20 3270 IDS API supp
(62)	...1		*	10
(62)	.... 1...		*	08
(62)	.... .1..		*	04
(62)	.... ..1.		*	02
(62)	1		*	01
(63)	BIT(8)	1	TCTVLVL7	Function support byte 7
(63)	1...		*	80
(63)	.1..		*	40
(63)	..1.		*	20
(63)	...1		*	10
(63)	.... 1...		*	08
(63)	.... .1..		*	04
(63)	.... ..1.		*	02
(63)	1		*	01
(64)	BIT(8)	1	TCTVPNTK	Print key value
(65)	BIT(8)	1	TCTVEODI	BSAM End of Device Ind
(66)	UNSIGNED	2	TCTVSKLN	Number of remote terminals
(68)	ADDRESS	4	TCTVSKAD	Address of 'REMOTE' index
(68)	ADDRESS	4	TCTVPOOL	'Til TCRP. then anchor for chain of PIPELINE POOLS
(6C)	ADDRESS	4	TCTVMDAD	Address of model terminal entries

Table 565. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(92)	1...		TCTVHPOA	80 HPO active in system
(92)	.1..		TCTVSLS	40 DFHZSLS entered
(92)	..1.		TCTV_RA_STALL	20 All RAs stuck
(92)	...1		TCTVSLR	10 Shutdown LR CNOS in prog
(92)	.... 1...		TCTVSHM	08 Shutdown message issued
(92)	.... .1..		TCTVSLG	04 SETLOGON quiesce issued
(92)	.... ..1.		TCTVSHU	02 DFHZSHU control flag
(92)	1		TCTVNATF	01 No attaches this dispatch
(93)	BIT(8)	1	TCTVSDST	Shutdown stage Shutdown Quiesce codes ... Move in stages from one to another as stage complete X'00' No shutdown, Etc...
(94)	BIT(8)	1	TCTVSCSW	Start up & close down switch
(94)	1...		TCTVDC	80 TPEND exit invoked
(94)	.1..		TCTVDO	40 DYNAMIC OPEN invoked
(94)	..1.		TCTVVSG	20 VTAM TCTTEs generated
(94)	...1		TCTVOA	10 ACB open
(94)	.... 1...		TCTVVFQ	08 VTAM is quiesced
(94)	.... .1..		TCTVVTHA	04 VTAM ABENDED
(94)	.... ..1.		TCTVVTHQ	02 Quick VTAM close
(94)	1		TCTVVTHO	01 Orderly VTAM close

Table 565. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
TCTVVTQS EQU TCTVVTHO+TCTVVTHQ+TCTVVTHA VTAM quiescing.				
(95)	BIT(8)	1	TCTVRESP	SYS + resp level used byte
(95)	1...		TCTVFC	80 FORCECLOSE requested
(95)	.1..		TCTVAF	40 ACB close failed
(95)	..1.		TCTVCIQ	20 CICS INIT'D ZC CLOSE
(95)	...1		TCTVIDSU	10 IDS API supported
(95)	.... 1...		TCTVFME	08 Use FME outbound
(95)	.... .1..		TCTVRRN	04 Use RRN outbound
(95)	.... ..1.		TCTVISC	02 ISC modules loaded
(95)	1		TCTVBFQ	01 Non VTAM quiesce
(96)	BIT(8)	1	TCTVSQUE	System service queue controls
(96)	1...		TCTVNAC	80 NACP already scheduled
(96)	.1..		*	40
(96)	..1.		TCTVVAP	20 VTAM authorised path
(96)	...1		TCTVVRZ	10 RPL for ZDSP from ZHPRX
(96)	.... 1...		TCTVXNP	08 New work for NACP
(96)	.... .1..		TCTVNSU	04 DFHZNAC suspended
(96)	.... ..1.		TCTVNOP	02 OPDLIM NOT REQ.
(96)	1		*	01
(97)	BIT(8)	1	TCTVAPPL	Length of APPLID
(98)	CHARACTER	8	TCTVAPPN	VTAM APPLID
TCTV_TRACE_LEN End of prefix trace area				
(A0)	ADDRESS	4	TCTVLUN	Address of VTAM LU name
(A4)	ADDRESS	4	TCTVIRCH	Address of first IRC TCSE
(A4)	ADDRESS	4	TCTV_MRO_HEAD	Alternative name for TCTVIRCH
(A8)	ADDRESS	4	TCTVSLUT	Address of LDC lookup-table
(AC)	CHARACTER	3	TCTVNQTI	TASKID with TCTI NAMESPACE lock
(AF)	BIT(8)	1	*	XRF bit
(AF)	1...		TCTVXBC	80 DFHTCBP completed
(AF)	.1..		TCTVXRT	40 CEMT P SHUT TAKEOVER
(AF)	..1.		TCTVXTS	20 Terminal sw scan begun
(AF)	...1		*	10
(AF)	.... 1...		*	08
(AF)	.... .1..		*	04
(AF)	.... ..1.		*	02
(AF)	1		*	01

Table 565. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B0)	HALFWORD	2	TCTVXSBC	No. STANDBY BOUND sessions
(B2)	CHARACTER	2	TCTVCUID	Current/last XRF catch up ID.
(B4)	ADDRESS	4	TCTVMGRP	Address of first mode entry
3270 command constant area				
(B8)	CHARACTER	0	*	Alignment
(B8)	BIT(8)	1	TCTV32EA	Erase unprotected '6F'
(B9)	BIT(8)	1	TCTV32RB	Read buffer 'F2'
(BA)	BIT(16)	2	TCTV32PT	Print 'F1F8'
(BC)	BIT(16)	2	TCTV32P4	Print model one 'F1D8'
(BE)	HALFWORD	2	TCTVSLCT	LDC look-up count
(C0)	ADDRESS	4	TCTVTRTA	Address of translate tables
OS Console Support area				
(C4)	ADDRESS	4	TCTVSECB	System communication ECB
(C8)	ADDRESS	4	TCTVCSCL	Cmnd scheduler commun. list
(CC)	ADDRESS	4	TCTVWLSE	Wait list entry
(D0)	ADDRESS	4	TCTVCCE	First Console Control Element
(D4)	ADDRESS	4	TCTVCTCT	First Console TCTTE
(D8)	ADDRESS	4	TCTVCDME	Dummy ECB
(DC)	ADDRESS	4	TCTVCWA	Console Work Area
(E0)	CHARACTER	8	TCTVJBNM	CICS system jobname
OS Console flags				
(E8)	BIT(8)	1	TCTVCONF	Console flag byte
(E8)	1...		*	80
(E8)	.1..		*	40
(E8)	..1.		TCTV_CCE_TASK	20 ZCNA task loop reqd.
(E8)	...1		TCTV_CCE_ATI	10 ZCNA ATI loop reqd.
(E8)	.... 1...		TCTVCFQ	08 Quiesce is COMPLETE
(E8)	.... .1..		TCTVCSQ	04 Quiesce IN PROGRESS
(E8)	.... ..1.		TCTVCNE	02 DFHZCNC is ACTIVE
(E8)	1		TCTVCAC	01 Console abnormal condition
(E9)	CHARACTER	3	*	Reserved
END OF COMMON SECTION				
(EC)	FULLWORD	4	TCTVSDXT	TC Shudown, Threshold Expiration Time
(F0)	ADDRESS	4	TCTVRVRA	Addr of 'RVCE ANY' RPL pool

Table 565. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(F4)	ADDRESS	4	TCTVLNIB	Address of NIB list (INC IRC)
(F8)	ADDRESS	4	TCTVCNIB	Fixed NIB for LOGON X
(FC)	ADDRESS	4	TCTVACBA	Address of VTAM ACB/EXLST
(100)	ADDRESS	4	TCTVCRPL	CLSDST RPL for LOGON X
(104)	ADDRESS	4	TCTVSLDC	System default LDC table
(108)	ADDRESS	4	TCTVSLSS	SETLOGON START save area
(108)	ADDRESS	4	TCTVASRR	Save area for ACTIVATE SCAN
(10C)	ADDRESS	4	TCTVTCTE	End of TCT
Chain pointers for TCP				
(110)	CHARACTER	0	*	Double word alignment VTAM Activate process chain
(110)	FULLWORD	4	TCTVAA1	First entry
(114)	FULLWORD	4	TCTVAA2	Last entry VTAM Activate queueing chain
(118)	FULLWORD	4	TCTVAA3	First entry
(11C)	FULLWORD	4	TCTVAA4	Last entry LOGGING/ERROR queue chains
(120)	ADDRESS	4	TCTV_LU61_HEAD	LU61 system chain
(124)	ADDRESS	4	TCTV_REMDEL_HEAD	RemDel system chain
(128)	FULLWORD	4	TCTCATWE	Console autoinst WE
(12C)	FULLWORD	4	TCTZGINE	DFHZGIN RPL ELEMENTS
(130)	FULLWORD	4	TCTVSRQ	System error Q for NACP First on queue
(134)	FULLWORD	4	TCTVSRQE	System error queue for NACP Last on queue
(138)	FULLWORD	4	TCTVPOAC	Previous TCTTE on Act. chain
(13C)	FULLWORD	4	TCTVRPLA	RPL QUICK-CELL chain anchor First on free queue
(140)	UNSIGNED	1	TCTV_ZBLX_ERR_OFFSET	error offset in SCIP
(141)	CHARACTER	7	*	Reserved
VTAM control area pointers				
(148)	ADDRESS	4	TCTVMNIB	Address of model NIBS
(14C)	ADDRESS	4	TCTVRPL2	Address of RPL for VTAM 3270
(150)	ADDRESS	4	TCTVRPLS	Address of RPL for RESETSR
(154)	ADDRESS	4	TCTVXQOA	Anchor for XRF TRACKINQ Q'S

Table 565. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(158)	HALFWORD	2	TCTVRPLN	RPL length
(15A)	HALFWORD	2	TCTVDOC	Dynamic open count
Process control switches				
(15C)	UNSIGNED	1	TCTVSDWT	TC Shutdown Wait from SIT TCSWAIT
(15D)	BIT(8)	1	*	TC Shutdown Flag Byte
(15D)	1...		TCTVSDUB	80 Action from SIT TCSACTN On = UNBIND Off = NONE or FORCE
(15D)	.1..		TCTVSDTFO	40 Action from SIT TCSACTN On = FORCE Off = NONE or UNBIND
(15D)	..1.		TCTVSDTX	20 Threshold Expired On = TC Shutdown end time expired (sessions hung) Off = TC Shutdown end time not expire
(15D)	...1		TCTVSDTD	10 Threshold Disabled On = TC Shutdown threshold disabled (no msgs produced) Off = TC Shutdown threshold enabled (msgs produced)
(15D)	.... 1...		TCTVSDTD6	08 Threshold Disabled for LU62 and LU61 On = TC Shutdown threshold disabled (no msgs produced) Off = TC Shutdown threshold enabled (msgs produced)
(15D)	.... .1..		TCTVSDTI	04 Treshold Intiated On = TS Shutdown initiated and end time calculated Off = TC Shutdown not initiated, and no end time
(15D)	.... ..1.		TCTVRAPLF	02 On = RAPOOL FORCE
(15D)	1		TCTV_RA_2118_ISSUED	01 On if RA STALL
(15E)	HALFWORD	2	TCTVRMAX	'RCVE ANY' max size
(160)	HALFWORD	2	TCTVRMIN	'RCVE ANY' min size
(162)	CHARACTER	2	TCTVRASW	'RCVE ANY' stat work area PL2
(164)	CHARACTER	2	TCTVRAHC	'RCVE ANY' high water mark PL2
(166)	CHARACTER	2	TCTVOCC	OPNDST/CLSDST reqt limit PL2
(168)	CHARACTER	4	TCTVRANT	No. times high water hit PL4
(16C)	FULLWORD	4	TCTVAPCC	Act. process chain DOS CCB

Table 565. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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.				
(200)	FULLWORD	4	TCTVRARP	'RCVE ANY' RPL Q for ZHPRX
(204)	FULLWORD	4	TCTVRINC	'RCVE ANY' RPL CDS counter
AUTOINSTALL data				
(208)	FULLWORD	4	TCTVMXWE	Limit of concurrent requests
(20C)	FULLWORD	4	TCTVACWE	Number currently active
(210)	ADDRESS	4	TCTVANWE	Address of first WE ON chain
(214)	BIT(8)	1	TCTVADFG	Flag Byte
(214)	1...		TCTVADEN	80 external ENA|DIS indicator
(214)	.1..		TCTVADIN	40 internal ENA|DIS indicator
(214)	..1.		TCTVADDF	20 delayed delete failed
(214)	...1		TCTVNONO	10 CLSDST PASS no notify
(214)	.... 1...		TCTVAIRU	08 TCTTE can be reused (AILDELAY ¬= 0)
(214)	.... .1..		TCTVSLHI	04 SETLOGON HOLD done
(214)	.... ..1.		TCTVAITR	02 Trace Autoinstall
(215)	CHARACTER	8	TCTVAXIT	User program name
(21D)	BIT(8)	1	TCTVAICN	Console autoinstall
(21D)	1...		TCTVAICE	80 external ENA|DIS
(21D)	.1..		TCTVAICA	40 external AUTO
(21D)	..1.		TCTVAICY	20 external YES|NO
AUTOINSTALL Statistics information				

Table 565. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(21E)	HALFWORD	2	TCTVADSH	Number of times max value reached
(220)	FULLWORD	4	TCTVADRJ	Number of requests rejected
(224)	FULLWORD	4	TCTVADLO	Number of delete's
(228)	HALFWORD	2	TCTVADAT	Total number of requests attempted
(22A)	HALFWORD	2	TCTVADPK	Peak concurrent requests
(22C)	HALFWORD	2	TCTVADPX	Incidence of peak requests
Fully Qualified LU Name				
(22E)	BIT(8)	1	TCTVQLUL	Length of fully qualified LU name
(22F)	CHARACTER	17	TCTVQLUN	Fully qualified LU name
RSA for entry to TCP				
(240)	CHARACTER	72	TCTVKRSA	Reg save area KCP to TCP
RSA for VTAM exit calls				
(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

Table 565. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2FC)	FULLWORD	4	TCTVER23	Register 3
(300)	FULLWORD	4	TCTVER24	Register 4
(304)	FULLWORD	4	TCTVER25	Register 5
(308)	FULLWORD	4	TCTVER26	Register 6
(30C)	FULLWORD	4	TCTVER27	Register 7
(310)	FULLWORD	4	TCTVER28	Register 8
(314)	FULLWORD	4	TCTVER29	Register 9
(318)	FULLWORD	4	TCTVER2A	Register 10
(31C)	FULLWORD	4	TCTVER2B	Register 11
(320)	FULLWORD	4	TCTVER2C	Register 12
(324)	CHARACTER	1	TCTVERS2_FLAG	Flag byte for RSA
(324)	1111 111.		*	Reserved
(324)	1		TCTVERS2_IN_USE	This RSA is in use.
(325)	CHARACTER	7	*	Reserved
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

Table 565. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(388)	CHARACTER	0	TCTVRSEA	RSA stack entry ending address

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TCTVRSAZ EQU (TCTVRSEA-TCTVRSBA) size of one save area = 80
```

Table 566.

Offset Hex	Type	Len	Name (Dim)	Description
(338)	STRUCTURE	822	*	
(338)	CHARACTER	320	*	4 save areas for TCP calls
TC task ECBS				
(478)	ADDRESS	4	TCTVINIT	TC initialisation TCA Address (posted by TCRP)
(47C)	ADDRESS	4	TCTVSTAT	
(47C)	ADDRESS	4	TCTVCECB	TC restart completion ECB
(480)	ADDRESS	4	TCTVOECB	TC open for business ECB
(480)	BIT(8)	1	*	
(480)	1...		*	
(480)	.1..		TCTVOPST	TC open for business post bit *
(484)	BIT(8)	1	TCTVRSTC	TC restart return code
(485)	CHARACTER	1	TCTVSTYP	TC restart start-type
(486)	HALFWORD	2	TCTVXREN	Current XRF reconn. try-number
(488)	UNSIGNED	1	TCTVSAPL	APPLID length
(489)	CHARACTER	8	TCTVSAPN	VTAM APPLID
(491)	BIT(8)	1	*	
(491)	1...		TCTVLSY	80 Local system entry exists
(491)	.1..		TCTVRCC	40 Reading CICS Catalog
(491)	..1.		TCTVALT	20 TCRP was an alternate
(491)	...1		TCTVUALC	10 TCTUA ANY|BELOW
(491)	.... 1...		TCTVALTT	08 Alternate tracking
(491)	.... .1..		*	
(491)	.... ..1.		*	
(491)	1		TCTVUAKY	01 indicates CICS key
(492)	HALFWORD	2	TCTVXPLC	Pending S/B logons count
(494)	ADDRESS	4	TCTVXPLE	Pending S/B logons ECB
XRF Terminal cleanup statistics				
(498)	HALFWORD	2	TCTVX001	CLEANUP ACTION=NONE
(49A)	HALFWORD	2	TCTVX002	CLEANUP ACTION=CLEAR/SDT
(49C)	HALFWORD	2	TCTVX003	CLEANUP ACTION=UNBIND

Table 566. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(4D0)	1...		TCTVTRA	80 - All exits traced
(4D0)	.1..		TCTVTRX	40 - Non term. exits traced
(4D0)	..1.		*	20 - reserved
(4D0)	...1		*	10 - reserved
(4D0)	.... 1...		*	08 - reserved
(4D0)	.... .1..		*	04 - reserved
(4D0)	.... ..1.		*	02 - reserved
(4D0)	1		*	01 - reserved
(4D1)	CHARACTER	3	*	Word Alignment
Postponed autoinstall logon fields				
(4D4)	ADDRESS	4	TCTVAPWE	Postponed Autoinstall work element anchor
(4D8)	FULLWORD	4	TCTVADQC	Postponed Autoinstall work current count
(4DC)	FULLWORD	4	TCTVADQT	Total number of postponed logons
(4E0)	HALFWORD	2	TCTVADQK	Peak concurrent postponed logons
(4E2)	HALFWORD	2	TCTVADQX	Incidence of postponed peak logons
Schedule Restart Delete fields				
(4E4)	UNSIGNED	4	TCTVAECB	Schedule restart delete ECB

Table 566. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(508)	1...		TCTV_PRSS_AVAILABLE	VTAM support available for persistent sessions
(508)	.1..		TCTV_PRSS_SUBSET	VTAM 3.4.0 is in use
(508)	..1.		TCTV_PRSS_PRED_ TAKEOVER	Predatory takeover
(508)	...1		TCTV_PRSS_PRED_VICTIM	Current takeover victim
(508)	.... 1...		TCTV_PRSS_VTAM_ABEND	VTAM abend occurred
(508)	.... .1..		TCTV_PSTYPE_OFF	PSTYPE=NOPS specified
(508)	.... ..1.		TCTV_PSTYPE_MNPS	PSTYPE=MNPS = on PSTYPE=SNPS = off
(509)	UNSIGNED	1	TCTVPRB2	Byte 2 of Per. Sess flags
(509)	1...		TCTV_ZGRP_FAILED	SII1 notify SIJ1 of fail
(509)	.1..		TCTV_RA_DONE	RA initiation done
(50A)	UNSIGNED	1	TCTVPRB3	Byte 3 of Per. Sess flags
(50B)	UNSIGNED	1	TCTVPRB4	Byte 4 of Per. Sess flags
Persistent sessions related fields				
(50C)	FULLWORD	4	TCTV_PRSS_CHUNK	Per. Sess. NIBLIST size
(510)	FULLWORD	4	TCTV_PRSS_INQUIRE_ THRESHOLD	NIBs for CO TCB
(514)	FULLWORD	4	TCTV_PRSS_UNBIND_ THRESHOLD	NIBS FOR ZGUB CO
(518)	BIT(64)	8	TCTV_ZCNIBLST_TOKEN	Subpool token - Per. Sess.
(520)	FULLWORD	4	TCTV_ZGRP_FIN_ECB	ZGRP finished
(524)	FULLWORD	4	TCTV_PSDI	PSDI value in seconds
(528)	ADDRESS	4	TCTV_PRSS_RPL_POOL_ PTR	RPL Pool for Per. Sess.
(52C)	ADDRESS	4	TCTV_PRSS_UNBIND_ RPLS_PTR	RPL pool within above
(530)	ADDRESS	4	TCTV_FIRST_NIBLIST_ PTR	First NIBLIST in chain
(534)	ADDRESS	4	TCTV_PRSS_LNKTABLE_ PTR	Per. Sessions LINK table

Table 566. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
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
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				

Table 566. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5C4)	CHARACTER	8	TCTV_CESC_TIME	Time at which CESC runs
(5CC)	UNSIGNED	1	TCTV_CESC_FUNCTION	Func code passed to CESC
(5CD)	BIT(8)	1	TCTV_CESC_FLAGS	CESC flags
(5CD)	1...		TCTV_CESC_SCHEDULED	CESC is scheduled
(5CD)	.111 1111		*	Reserved
(5CE)	UNSIGNED	2	*	Reserved
Entry point addresses for ZC domain subroutines				
(5D0)	ADDRESS	4	*	DFHZGxx entry point
(5D4)	ADDRESS	4	TCTV_ZGRP	DFHZGRP entry point
(5D8)	ADDRESS	4	TCTV_ZGSL	DFHZGSL entry point
(5DC)	ADDRESS	4	TCTV_ZGUB	DFHZGUB entry point
(5E0)	ADDRESS	4	TCTV_ZGCC	DFHZGCC entry point
(5E4)	ADDRESS	4	TCTV_ZGPC	DFHZGPC entry point
(5E8)	ADDRESS	4	TCTV_ZGDA	DFHZGDA entry point
(5EC)	ADDRESS	4	TCTV_ZGCN	DFHZGCN entry point
(5F0)	ADDRESS	4	TCTV_ZGCA	DFHZGCA entry point
(5F4)	ADDRESS	4	TCTV_ZGAI	DFHZGAI entry point
VTAM Statistics.				
(5F8)	FULLWORD	4	TCTLUNUM	Current no of LUs
(5FC)	FULLWORD	4	TCTLUHWM	HWM no of LUs
Prefix fields for Remote delete timeout mechanism.				
(600)	FULLWORD	4	TCTV_IDLE_COUNT	Total reuse count
(604)	CHARACTER	8	TCTV_MAXIMUM_IDLETIME	Max skeleton idle time
(60C)	CHARACTER	8	TCTV_TOTAL_IDLETIME	Max total idle time
(614)	FULLWORD	4	TCTV_REMDINT	Shipped delete interval
(618)	FULLWORD	4	TCTV_REMDIDLE	Shipped delete idle time
(61C)	FULLWORD	4	TCTV_SKELETONS_BUILT	# of skeletons built
(620)	FULLWORD	4	TCTV_SKELETONS_ CURRENT	# of skeletons installed
(624)	FULLWORD	4	TCTV_SKELETONS_ DELETED	# deleted
(628)	FULLWORD	4	TCTV_FLAG_DELETES	# times CRMF called
(62C)	FULLWORD	4	TCTV_REMDELS_IN	Remote deletes in
(630)	FULLWORD	4	TCTV_REMDELS_OUT	Remote deletes out
(634)	FULLWORD	4	TCTV_REMDEL_DELETES	Remote deletes out
PS signon retention storage				
(638)	CHARACTER	8	TCTV_PSTIM	Time of system failure
(640)	CHARACTER	8	TCTV_PSTTOKEN	Saved timer token
(648)	BIT(8)	1	TCTV_PSSIGN_FLGS	PS signon retention flags
(648)	1...		TCTV_CATLG_ON_ SHUTDOWN	Catalog on shutdown when PSDI = 0

Table 566. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(648)	.1..		TCTV_CATLG_NOT_NEEDED	Don't catalog on shutdown when PSDI > 0
(649)	CHARACTER	3	*	Reserved
Further DFHZLGX work areas				
(64C)	FULLWORD	4	TCTV_ZLGX_TNADDR_ LENGTH	Used during autoinstall
(650)	ADDRESS	4	TCTV_ZLGX_CV64_PTR	Used during autoinstall
(654)	CHARACTER	8	TCTV_ZLGX_WORK1	For CVD of TNADDR
(65C)	CHARACTER	8	TCTV_ZLGX_WORK2	For EDMK of TNADDR
(664)	CHARACTER	9	TCTVST81	ISTVACBV vector area
(66D)	BIT(8)	1	TCTVVTFL	Flag byte for VTAM
(66D)	1...		TCTVVIDS	IDS support available
(66D)	.111 1111		*	Reserved
(66E)	CHARACTER	0	TCTPFXLN	Length of TCT PREFIX

Constants

Table 567.

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
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	

Table 567. (continued)

Len	Type	Value	Name	Description
	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 TS Terminal Control Table Line Entry.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1987, 2015
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 568.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	112	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	96	*	

Table 568. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10)	CHARACTER	12	*	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	12	*	TCAM OVERLAY
(10)	CHARACTER	4	*	
(14)	ADDRESS	4	TCTLEOQ	output TCTLE address
(18)	CHARACTER	1	TCTLEFL	TCAM flags
(18)	1...		TCTLEFL1	POOL=YES specified
(18)	.1..		TCTLESNA	TCAM SNA
(18)	..1.		TCTLEFL3	reserved
(18)	...1		TCTLEFL4	reserved
(18)	.... 1...		TCTLEFL5	deact queue
(19)	CHARACTER	3	*	
(10)	CHARACTER	96	*	BTAM OVERLAY
(10)	CHARACTER	1	TCTLESM1	remote status message byte one
(11)	CHARACTER	1	TCTLESM2	remote status message byte two
(12)	UNSIGNED	2	TCTLETRC	residual count
(14)	CHARACTER	1	TCTLECC	command code
(15)	CHARACTER	3	TCTLETLA	terminal list address
(18)	CHARACTER	1	TCTLESF	status flags
(19)	CHARACTER	1	TCTLERLN	relative line number
(1A)	CHARACTER	1	TCTLERSP	response to addressing
(1B)	CHARACTER	1	TCTLELRC	response to VRC / LRC
(1C)	CHARACTER	1	TCTLETPO	TP - OP code
(1D)	CHARACTER	1	TCTLEES	error status
(1E)	CHARACTER	2	TCTLECSW	CSW status
(20)	ADDRESS	4	TCTLEALP	current addressing list pointer
(24)	CHARACTER	3	*	reserved
(27)	CHARACTER	1	TCTLELRL	local terminal index
(28)	CHARACTER	2	*	reserved
(2A)	UNSIGNED	2	TCTLEOL	output length
(2C)	CHARACTER	4	TCTLEOA	ouput area
(30)	BIT(8)	1	TCTLESI	line status indicator
(30)	1...		TCTLESEP	error pending indicator
(30)	.1..		TCTLESAK	dial line acknowledgement
(30)	..1.		TCTLESPO	line perm out of service
(30)	...1		TCTLESIR	interruptable read initiated

Table 568. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(30)	.... 1...		TCTLESLC	switched line connected
(30)	.... .1..		TCTLESTR	terminal read initiated
(30)	.... ..1.		TCTLESLI	line initiated
(30)	1		TCTLESOS	line out of service
(31)	BIT(8)	1	TCTLEMI	multiple indicator byte
(31)	1...		TCTLELPI	last line in pool indicator
(31)	.1..		TCTLEMWL	wrap list indicator
(31)	..1.		TCTLETCM	access method is TCAM
(31)	...1		TCTLEMFP	first pool line indicator
(31)	.... 1...		TCTLEMET	error task initiated indicator
(31)	.... .1..		TCTLEATA	telecommunication access method
(31)	.... ..1.		TCTLEAGA	local line
(31)	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
(40)	1...		TCTLEFLO	read lock
(40)	.1..		TCTLEFWL	wrap list feature
(40)	..1.		TCTLEFSC	station control feature
(40)	...1		TCTLEFCK	checking feature
(40)	.... 1...		TCTLEFBR	buffer receive feature
(40)	.... .1..		TCTLEFAP	auto poll feature
(40)	.... ..1.		TCTLEFAC	auto call feature
(40)	1		TCTLEFAA	auto answer feature
(44)	ADDRESS	4	TCTLETEA	active term table entry address
(48)	BIT(8)	1	*	
(48)	1...		*	
(48)	.1..		TCTLEPUI	purging data request indicator
(48)	..1.		TCTLEDP2	term already connected purge
(48)	...1		TCTLEDP1	term out of service purge
TCTLEDP1+TCTLEDP2 = TCTLEDP3 ... term in nopoll status purge				
(48)	 1111		*	
(49)	BIT(8)	1	TCTLECL	Line Class
(49)	1...		TCTLELS	line scan indicator

Table 568. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(49)	.11.		*	
(49)	...1		TCTLECBS	bisynchronous
(49)	 1111		*	
(4A)	CHARACTER	2	TCTLELE	number of transmission errors
(4C)	ADDRESS	4	TCTLEECA	line error chain address
(50)	UNSIGNED	1	TCTLELEC	line error count
(51)	CHARACTER	3	TCTLEPP	previous polling list pointer
(54)	ADDRESS	4	TCTLEPA	terminal pool address
(54)	ADDRESS	4	TCTLEEA	Line Entry ending address
(58)	ADDRESS	4	TCTLEETE	error terminal entry pointer
(5C)	CHARACTER	8	TCTLEBAA	bi-sync auxiliary area
(64)	CHARACTER	2	TCTLEBRA	bi-sync response I/O area
(66)	CHARACTER	1	TCTLEBTO	last bi-sync type of operation
(67)	BIT(8)	1	TCTLEBEI	bi-sync event indicators
(68)	BIT(8)	1	TCTLESBI	BSC line status
(69)	BIT(8)	1	TCTLEIBS	index byte savearea
(6A)	BIT(8)	1	TCTLERPS	rotational poll savearea
(6B)	BIT(8)	1	*	indicator byte
(6B)	11..		*	
(6B)	..1.		TCTLEMLU	line in use mask
(6B)	...1 1111		*	reserved
(6C)	UNSIGNED	2	TCTLESWL	3270 segment size
(6E)	CHARACTER	2	*	reserved

TCTTE - TCT terminal entry

Table 569.

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				

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7)	CHARACTER	1	TCTTETS	Terminal status
(7)	1...		TCTTEATP	Dummy TCTTE for APT
(7)	.1..		TCTTESRO	READ only
(7)	..1.		TCTTESPO	Permanent OUT OF SERVICE
(7)	...1		TCTTESQC	Terminal QUIESCING
(7)	.... 1...		TCTTESNP	RECEIVE only
(7)	.... .1..		TCTTESAT	AUTO TRANSACTION initiate
(7)	.... ..1.		TCTTESTA	Terminal ATTENDED
(7)	1		TCTTESOS	OUT OF SERVICE
OPERATION DATA				
(8)	ADDRESS	4	TCTTESC	Address of first TIOA for any one task
(C)	ADDRESS	4	TCTTEDA	Address of TIOA
(10)	ADDRESS	4	TCTTECA	Address of TCA using this terminal, else 0 if no TCA is currently available
(14)	CHARACTER	4	TCTE_TRANNUM	Trannum of transaction running with this term facility
TCTE_TRACE_1_LEN End of TCTTE trace area 1				
(18)	ADDRESS	4	TCTTECIA	Address of USER AREA
(1C)	BIT(8)	1	TCTTECIL	Length of USER AREA
(1D)	BIT(8)	1	*	Storage allocation
(1D)	1...		TCTTEPCR	PASSBOOK present on read
(1D)	1...		TCTTERMC	WRITE resend message
(1D)	.1..		TCTTEPCW	PASSBOOK present on WRITE
(1D)	.1..		TCTTERMS	Re-send message scheduled
(1D)	..1.		TCTTERMI	Re-send message control
(1D)	..1.		TCTTERMT	Re-send message transparent
(1D)	...1		TCTTERMQ	Re-send message queued
(1D)	...1		TCTTEEOD	End of DATASET
(1D)	.... 1...		TCTEMOPU	Unattended mode
(1D)	.... .1..		TCTTEOFC	End of file
(1D)	.... ..1.		TCTRO2	WRITE break occurred
(1D)	1		TCTRO1	READ attention occurred
(1E)	CHARACTER	1	*	Reserved
(1F)	BIT(8)	1	*	Reserved
(20)	ADDRESS	4	TCTTERVT	Address
(20)	FULLWORD	4	TCTTEDES	TCAM destination name

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(24)	CHARACTER	1	TCTTERC	(Packed decimal)
(24)	CHARACTER	1	TCTTETCM	TCAM OPTCD flag
OPERATOR DATA CONTROL INFORMATION				
(25)	CHARACTER	3	TCTTEOI	Operator identification
(28)	CHARACTER	3	TCTTENLI	National Language in use
(2B)	UNSIGNED	1	TCTTEOP	Operator priority
VTAM FMH BUILD AREA				
(2C)	CHARACTER	2	TCTEFMH1	FMH area for 3600 DEVICES
(2C)	BIT(8)	1	TCTEVTC	Type code name definition
(2C)	1111		TCTEVTCT	Logical device code
(2C)	.... 1...		*	
(2C)	.... .1..		TCTEOFP	OUTPUT format PARM present
(2C)	.... ..1.		TCTEIFP	INPUT format PARM present
(2C)	1		TCTEFPP	FORMS parameter present type code STRG ALLOC
(2D)	BIT(8)	1	*	
(2D)	BIT(8)	1	TCTEVLDC	Logical device code
DATA STREAM TYPE				
(2E)	BIT(8)	1	TCTETDST	DATA STREAM type byte
(2E)	1...		TCTESCSB	SCS basic DATASTREAM indicator (GRAPHICS + NL)
(2E)	.1..		*	
(2E)	..1.		*	
(2E)	...1		*	
(2E)	.... 1...		TCTEAIDP	AID present in TCTTE
(2E)	.... .1..		TCTEASC7	ASCII-7 indicator
(2E)	.... ..1.		TCTEASC8	ASCII-8 indicator
(2E)	1		TCTETTSI	3270 DATA STREAM indicator
SESSION CHARACTERISTICS CONTINUED				
(2F)	CHARACTER	1	TCTEILUC	LUC SESSION indicator
(2F)	BIT(8)	1	TCTESEST	TCTTE SESSION status
(2F)	1...		TCTESLGI	1=CICS SIMLOGON OK (INTLOG) 0=CICS SIMLOG not allowed (NO INTLOG)
(2F)	.1..		TCTESLGT	Remember INTLOG value
(2F)	..1.		TCTEACT	This is an APPC terminal
(2F)	...1		TCTESOPR	Operative

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2F)	.... 1...		TCTELUC	This is an LUC expression
(2F)	.... .1..		TCTEFPX	FAST PATH XFORMER in use
(2F)	.... ..1.		TCTEFCTK	FC Token allowed
(2F)	1		TCTE_CLONE	APPC clone
TERMINAL DEPENDENT OVERLAY AREA The following field is 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
(33)	1...		TCTTEFSP	SELECTOR PEN
(33)	.1..		TCTTELPR	LOCAL PRINT function
(33)	..1.		TCTTEFDK	DUAL case keyboard
(33)	...1		TCTTEFTU	UPPER case TRANSLATE
(33)	.... 1...		TCTTEFCV	COPY valid
(33)	.... .1..		TCTTEFAA	AUDIBLE ALARM
(33)	.... ..1.		TCTTEFP7	Print eligible printer
(33)	1		TCTTEFPA	Model 3 printer adapter
(34)	CHARACTER	8	TCTTELUN	LUNAME in CLSDST PASS
(34)	UNSIGNED	1	TCTEDMYE	dummy overlay - error cde
(35)	CHARACTER	5	TCTEDMMN	dummy overlay - mod name
(3A)	UNSIGNED	1	TCTEDMGC	dummy overlay - getmn rc
(3B)	CHARACTER	1	*	dummy overlay - reserved
2980 DEFINITIONS Terminal Dependent Overlay				
(30)	CHARACTER	5	TCTE2980	2980 definitions
(30)	BIT(8)	1	*	Reserved
(31)	BIT(8)	1	*	Reserved
(32)	BIT(8)	1	TCTTESID	2980 station ID
(33)	BIT(8)	1	TCTTETAB	2980 TAB factor
(34)	BIT(8)	1	TCTTETID	2980 Model 4 TELLER ID
3600 BINARY SYNCHRONOUS DEFINITIONS Terminal Dependent Overlay				

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(30)	CHARACTER	12	TCTE3600	3600 definitions
(30)	CHARACTER	8	*	Reserved
(38)	BIT(8)	1	TCTTEDLM	End of input delimiter
(39)	CHARACTER	3	*	
OS CONSOLE SUPPORT Terminal Dependent Overlay				
(30)	CHARACTER	12	TCTEOS	OS definitions
(30)	ADDRESS	4	TCTTECCE	Console control element
(30)	1...		TCTTEPL	Error console
(30)	BIT(31) POS(2)	4	*	Reserved
(34)	FULLWORD	4	TCTTEMID	message identification
(38)	FULLWORD	4	TCTTECNI	Console identification
VTAM DEFINITIONS				
(3C)	CHARACTER	0	TCTTEVDA	Area
(3C)	CHARACTER	4	TCTESIDI	Data
(40)	CHARACTER	4	TCTESIDO	Data
(44)	CHARACTER	3	TCTTECRE	Extension
NOTE: X'80' is restricted because of arithmetic manipulations in COBOL				
(44)	BIT(8)	1	TCTEUSE1	Byte storage allocation
(44)	1...		*	restricted due to COBOL arith
(44)	.1..		TCTEFMH	FMH received test mask
(44)	..1.		TCTEEOC	EOC, OC received test mask
(44)	...1		TCTEASE	SESSION Error notified
(44)	.... 1...		TCTESIG	SIGNAL received test mask
(44)	.... .1..		TCTEUFRT	Free the TCTTE(EB received)
(44)	.... ..1.		TCTEUCOM	User should SYNC POINT now
(44)	1		TCTERCDI	REQCD condition
(45)	BIT(8)	1	*	
(46)	BIT(8)	1	TCTETXTF	3270 TEXT feature flag byte
(46)	1...		TCTE327E	3270 Extended range
(46)	.1..		TCTEAPTX	APL TEXT feature
(46)	..1.		TCTETXKB	TEXT keyboard
(46)	...1		TCTEAPKB	APL keyboard
(46)	.... 1...		TCTETXPR	3288 TEXTPRINT
(46)	.... .1..		TCTETXT6	KATAKANA
(46)	.... ..1.		TCTETXT7	Reserved
(46)	1		TCTETXT8	Reserved

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
3270 SIZE DEFINITIONS				
(47)	BIT(8)	1	TCTE32SF	3270 size flags
(47)	1...		TCTEWA	Alternate size can be used
(47)	.1..		TCTEALW	Alternate size is in use
(47)	..1.		TCTELEWA	Alternate size used last
(47)	...1		TCTEEWN	EW/EWA needed next
(47)	.... 1...		*	3270 - Reserved
(47)	.... .1..		TCTTE_ROUTABLE_START	Routable START
The following 2 BIT definitions are for TRANSACTION ROUTING use				
(47)	.... ..1.		TCTECRTF	Caller is running the first transaction of a ROUTING SESSION
(47)	1		TCTECERT	Caller is running an EXPLICIT ROUTING SESSION
(48)	HALFWORD	2	TCTEDSCZ	3270 default screen size
(4A)	UNSIGNED	1	TCTEDSCL	3270 default size rows
(4B)	UNSIGNED	1	TCTEDSCC	3270 default size columns
(4C)	HALFWORD	2	TCTEASCZ	3270 alternate screen size
(4E)	UNSIGNED	1	TCTEASCL	3270 alternate size rows
(4F)	UNSIGNED	1	TCTEASCC	3270 alternate size columns
3270 EXTENDED FEATURES				
(50)	BIT(8)	1	TCTE32EF	3270 extended features
(50)	1...		TCTTEEDS	EXT DATA STREAM supported
(50)	.1..		TCTTECOL	COLOUR supported
(50)	..1.		TCTTEPSS	PSS supported
(50)	...1		TCTTEHIL	HILIGHT supported
(50)	.... 1...		TCTTEVAL	VALIDATION supported
(50)	.... .1..		TCTTEPRN	PARTITIONS supported
(50)	.... ..1.		TCTTEMSR	MSR CONTROL supported
(51)	BIT(8)	1	TCTE32E2	3270 extended features #2
(51)	1...		TCTTEFRL	Field OUTLINING supported
(51)	.1..		TCTTEMIX	MIXED field supported
(51)	..1.		TCTTEBTR	Background transparency
(51)	...1 11..		*	Reserved
(51)	.... ..1.		TCTTERMP	Reply mode structured field in query reply
(51)	1		TCTTESA	Set Attribute supported.
(52)	BIT(8)	1	TCTE32E3	3270 extented features
(52)	1...		TCTTEQYA	QUERY always

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(52)	.1..		TCTTEQYC	QUERY COLD-STARTS only
(52)	..1.		TCTTEQYN	QUERY next LOGON
(52)	...1		TCTTEQYP	QUERY pending
(52)	 1111		*	
Extended User INFORMATION field				
(53)	BIT(8)	1	TCTEUSE2	Byte storage allocation
(53)	1...		TCTEABP	ABEND is pending
(53)	.1..		TCTEUERR	0889 SENSE REC'D mask
(53)	..1.		TCTEUCFM	User should CONFIRM now
(53)	...1		TCTEUSRB	User should ROLL BACK now
(53)	.... 1...		TCTESRBR	ROLLBACK rec'd from other side
(53)	.... .1..		TCTEUNUL	No User data ID received
(53)	.... ..1.		TCTEUSMD	User flag in SEND mode
(53)	1		TCTEURCV	User flag in RECEIVE mode must issue a RECEIVE
(54)	CHARACTER	4	TCTTEUSE	End of User area
SYSTEM AREA STARTS HERE GENERAL INFORMATION				
(54)	HALFWORD	2	TCTTETEL	Table entry length
(56)	HALFWORD	2	TCTTETEN	Terminal entry number
(58)	ADDRESS	4	TCTEDIBA	Data interchange block address
(5C)	ADDRESS	4	TCTESNEX	Addr of Signon Extension
(60)	CHARACTER	11	TCTESCUR	Security level
(60)	CHARACTER	4	*	
(60)	UNSIGNED	2	TCTECSG1	CGCSGID-1
(62)	UNSIGNED	2	TCTECSG2	CGCSGID-2
(64)	BIT(8)	1	TCTESCFL	Security flag byte
(64)	1...		TCTEGNXT	GNTRAN next transid
(64)	.1..		*	Reserved
(64)	..1.		TCTETOBF	Timeout BID failed
(64)	...1		TCTESCFM	Preset signon error field
(64)	.... 1...		TCTESCST	Timeout SIGN-OFF is allowed
(64)	.... .1..		TCTESCLG	SIGNOFF = LOGOFF
(64)	.... ..1.		TCTESTAR	Trans Access Revoked
(64)	1		TCTESCTO	Timeout signoff required
(65)	CHARACTER	4	TCTEELGM	A(EXTRACTED LOGON DATA)
(69)	BIT(8)	1	*	

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(69)	1...		TCTEMROS	Shippable definition
(69)	.1..		TCTEMROP	Ship done to someone
(69)	..1.		TCTTETMC	TMP action taken for TCTE
(69)	...1		TCTESKSH	Save on restart dataset that definition shipped
(69)	.... 1...		TCTENTA	Notify received.
(69)	.... .1..		TCTEIRFR	TEDA->TIOA is free for reuse
(69)	.... ..1.		TCTERMDL	Remdel scheduled
(69)	1		TCTTETSC	TMP action taken for TCSE
(6A)	BIT(8)	1	TCTEANDX	SNA-ASCII direction indicator
(6A)	1111 1...		*	Reserved
(6A)	.... .1..		TCTES7TX	S/7 no RETRANSLATE indicator
(6A)	.... ..1.		TCTEASCO	Output (EBCDIC to ASCII)
(6A)	1		TCTEASCI	Input (ASCII to EBCDIC)
(6B)	BIT(8)	1	TCTEUCTB	Index for translate table
(6C)	ADDRESS	4	TCTENIBA	Address of NIB descriptor
(6C)	ADDRESS	4	TCTTERLA	Address of RELAY LINK TCTTE, if this TCTTE is a SURROGATE.
(6C)	ADDRESS	4	TCTTETA	The physical address and terminal device for the write MACRO instruction
(6C)	BIT(8)	1	TCTTEGU	Relative line number
(70)	ADDRESS	4	TCTTESKA	Address of SKELETON TCTTE, if this TCTTE is a SURROGATE.
(70)	ADDRESS	4	TCTERPLA	RPL address
(70)	ADDRESS	4	TCTTELEA	LINE ENTRY address
(74)	ADDRESS	4	TCTTERST	Addr of tran restart Extn
(78)	ADDRESS	4	TCTTETEA	Address of BMS extension
(7C)	CHARACTER	4	TCTTETC	Terminal transaction code
(80)	ADDRESS	4	TCTEEILR	A(EIP'S last held TIOA)
(84)	ADDRESS	4	TCTEEIEX	A(EXEC terminal CB ETCB)
(84)	ADDRESS	4	TCTTESUA	Address of SURROGATE TCTTE if this TCTTE's a RELAY LINK
(88)	ADDRESS	4	TCTTEEIA	Exec interface PARM addr
(8C)	ADDRESS	4	TCTTECTK	Channel Token
(90)	BIT(8)	1	TCTTECHN	Channel properties
(90)	1...		TCTECHAN	Other end of MRO link supports channels

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(90)	.1..		TCTEEWLM	supports EWLM correlators
(90)	..1.		TCTE_CHAN_SENT_FMH	DFHAPCR has sent FMHs
(90)	...1		TCTE_IPIC_CHAN_ WAITING	Chan to be received
(90)	.... 1...		TCTEICRX	supports ICRX's
(90)	.... .1..		TCTEODRP	supports Origin Data prop
(90)	.... ..1.		TCTEXCHAN	Other end of MRO link supports transaction channel
(90)	1		*	Reserved
(91)	BIT(8)	1	TCTTESYP	System properties
(91)	1...		TCTESTIX	Start supports ICRX
(91)	.1..		TCTEACTX	Initial app ctxt suprt
(91)	..1.		TCTECACX	Current app ctxt suprt
(91)	...1 1111		*	Reserved
(92)	CHARACTER	2	*	Reserved
(94)	ADDRESS	4	TCTE_IPIC_SESSION_ TOKEN	IPIC Session token
(98)	ADDRESS	4	TCTTEUCN	ISC User ownership chain
(9C)	ADDRESS	4	TCTTEIST	ISC INTERSYSTEM table address
(A0)	BIT(8)	1	TCTTEEDF	EDF debug mode
(A1)	CHARACTER	1	TCTEMRST	MRO/LU6.1 Apl State-cur
(A2)	CHARACTER	1	TCTEMRSV	MRO/LU6.1 Apl State-prev
(A3)	CHARACTER	1	*	
(A3)	1111		TCTEMRSX	MRO/LU6.1 Indicators
(A3)	1...		TCTENNQI	IMS Session Indicator
(A3)	.111		*	Reserved
(A3)	 1111		TCTTEDII2	DYNAMIC INSTALL flags
(A3)	.... 111.		*	Reserved
(A3)	1		TCTEDAB	Autoinstall delete abend
(A4)	BIT(8)	1	TCTTEDII	DYNAMIC INSTALL indicators. *
(A4)	1...		TCTTEDAP	Pending DYNAMIC ADD
(A4)	.1..		TCTTEDDP	Requires deleting
(A4)	..1.		*	Reserved
(A4)	...1		*	Reserved
(A4)	.... 1...		*	Reserved
(A4)	.... .1..		*	Reserved
(A4)	.... ..1.		TCTPNDAC	Pending AUTOCONNECT
(A4)	1		TCTETRAN	Transient terminal
(A5)	BIT(8)	1	*	DYNAMIC INSTALL indicatorS-2 *

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A5)	1...		TCTEDELP	AUTOINSTALL ZACT has issued INITIATE
(A5)	.1..		TCTEDELQ	AUTOINSTALL delete after a restart
(A5)	..1.		TCTELUSM	Special LUS 1st session
(A5)	...1		TCTENDEL	AUTOINSTALL do not delete
(A5)	.... 1...		TCTEXDEL	on if ZCLX or ZNSP run and action=simlogon
(A5)	.... .1..		TCTECLG	CLSDST & LOGON in progress
(A5)	.... ..1.		TCTEPSN	Awaiting CLSDST PASS notification
(A5)	1		TCTEDZIP	CATD delete in progress
(A6)	CHARACTER	4	TCTEXTOK	ZXQO token
(AA)	HALFWORD	2	TCTEEIDL	Length of residual data
(AC)	HALFWORD	2	TCTTECCU	Physical hardware address
(AE)	CHARACTER	1	TCTESONS	SON code for SCIP
Terminal read timeout VALUE				
(AF)	BIT(8)	1	TCTTEDPO	Sense0831 count
(B0)	BIT(8)	1	TCTTESCV	Storage violation count
This byte is used by surrogates to record the state of the relay link				
(B1)	CHARACTER	1	TCTE_RELAY_LINK_ STATUS	
(B1)	1...		TCTE_IPIC_RELAY_LINK	Relay link is IPIC
(B1)	.1..		TCTE_IPIC_IS7_SENT	IS7 sent over IPIC link
(B1)	..1.		TCTE_IPIC_IS7_ RECEIVED	IS7 received on IPIC link
(B1)	...1		*	reserved bit 3
(B1)	.... 1...		*	reserved bit 4
(B1)	.... .1..		TCTE_RECOV_STATUS_ DEFERRED	No recovery status yet
(B1)	.... ..1.		TCTE_RELAY_LINK_ ACTIVE	Relay link is active
(B1)	1		TCTE_RELAY_LINK_ ASSIGNED	Relay link is assigned
(B2)	UNSIGNED	2	TCTETRTO	Read Timeout Value
The following field is 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

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B8)	HALFWORD	2	TCTTELPL	(Terminal type is CARD READER or LINE PRINTER)
(BA)	BIT(8)	1	TCTTEPRC	Event (terminal type if SYSTEM/7 support
(BB)	UNSIGNED	1	*	NON-VTAM Reserved
PIPELINE Statistics				
(B4)	CHARACTER	8	TCTTEZ2	PIPELINE statistics
(B4)	HALFWORD	2	TCTETCNT	Total throw-away count
(B6)	HALFWORD	2	TCTESCNT	Number of times (consecutive throw-away count)
(B8)	HALFWORD	2	TCTECCNT	Current throw-away count
(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	*	
(CC)	1...		*	Reserved
(CC)	.1..		TCTTEPEP	DFHPEP is executing
(CC)	..1.		TCTECLRQ	CLSDST on INSERV req
(CC)	...1		TCTEPABP	Purge abend pending
(CC)	.... 1...		TCTETABP	Timeout abend pending
(CC)	.... .1..		TCTE_CONFDATA_YES	Suppress user data
(CC)	.... ..1.		TCTEDIBS	DIB is inactive
(CC)	1		TCTTEGWI	A GET WAIT has been issued *
TERMINAL CONTROL INDICATORS				

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(CD)	BIT(8)	1	TCTTETC1	Byte name definition
(CD)	1...		TCTTECLT	Last terminal in group
(CD)	.1..		TCTTECPF	Compatible terminal
(CD)	..1.		TCTTECUI	Control unit OUT OF SERVICE
(CD)	...1		TCTTEPOS	Control unit PERMANENTLY OUT OF SERVICE
(CD)	.... 1...		TCTTESUS	Task is suspended by ZC
(CD)	.... .1..		TCTTECTC	Terminal connected
(CD)	.... ..1.		TCTTECRS	Skip terminal read
(CD)	1		TCTTECSF	Skip flag status indicator
(CE)	BIT(8)	1	TCTTEIO	Internal operation req byte
OPERATION STATUS				
(CE)	1...		TCTTEONR	NEGATIVE response
(CE)	.1..		TCTTEOAO	AUTO output message
(CE)	..1.		TCTTEOAT	AUTO output transaction
(CE)	...1		TCTTECG	Conditional GETMAIN for read attention
(CE)	.... 1...		TCTTEOGA	GRAPHIC attention indicator
(CE)	.... 1...		TCTTERPI	READ pending
(CE)	.... .1..		TCTTEOIC	TIME control transaction
(CE)	.... ..1.		TCTTEOTI	TASK to be initiated
(CE)	1		TCTTEXAC	Transparent transaction
(CE)	1		TCTTESCW	SEGMENTED write
(CF)	BIT(8)	1	TCTTEIO2	Byte 2 name definition
(CF)	1...		TCTTECAI	Permanent transaction code
(CF)	.1..		*	
(CF)	..1.		*	
(CF)	...1		*	reserved
(CF)	.... 1...		TCTERORT	Initiate restart task
(CF)	.... .1..		TCTERORN	Notify terminal
(CF)	.... ..1.		TCTEROCS	Restart for CICS LOGON
(CF)	1		TCTEROS	Restart to SIMLOGON
ACCESS METHOD FLAGS				
(D0)	BIT(8)	1	TCTEAMIB	Access method flags
OPERATION REQUESTS				
(D1)	BIT(8)	1	TCTTEOS	External operation request
(D1)	1...		TCTTEOER	Erase
(D1)	.1..		TCTTEOSS	Save terminal storage

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(D1)	..1.		TCTTEOLA	Line addressing request
(D1)	...1		TCTTEORR	Read
(D1)	.... 1...		TCTTEODR	Disconnect
(D1)	.... .1..		TCTTEOSR	Wait
(D1)	.... ..1.		TCTTECVS	Converse
(D1)	1		TCTTEOWR	Write
OPERATION MODIFIERS				
(D2)	BIT(8)	1	TCTTECS	External control request
(D2)	1...		TCTTERBI	Read buffer
(D2)	.1..		TCTTEEUI	Erase all unprotected
(D2)	..1.		TCTTEOWL	Write lock
(D2)	...1		TCTTEORL	Read lock
(D2)	.... 1...		TCTTECYI	Copy
(D2)	.... .1..		TCTTERPR	
(D2)	.... ..1.		TCTTETRM	Transparent mode
(D2)	.... ..1.		TCTTENTR	No translate
(D2)	1		TCTTEPBM	PSEUDO-BINARY mode
(D2)	1		TCTTETRY	BISYNCH transparency
(D3)	BIT(8)	1	TCTTEOC	Byte 2 storage allocation
(D3)	1...		TCTEDRR	Write with DEF RESP requested *
(D3)	.1..		TCTTETWW	TCAM write WORK flag
(D3)	..1.		TCTRA2	Write BREAK analysis request
(D3)	...1		TCTRA1	Read ATTN analysis request
(D3)	.... 1...		TCTTECBW	COMMON BUFFER request
(D3)	.... .1..		TCTTEPBK	PASSBOOK request
(D3)	.... ..1.		TCTTEOFR	END OF FILE request
(D3)	1		TCTTEWCI	Control char supplied
(D4)	BIT(8)	1	TCTEOCB	Byte 3 storage allocation
(D4)	1...		TCTEFRC	Write with FORCE=YES
(D4)	.1..		TCTEWSR	Wait until SIGNAL received
(D4)	..1.		TCTELMP	LDC mnemonic present
(D4)	...1		TCTEFPD	FMH provided with data
(D4)	.... 1...		TCTELST	LAST write from task
(D4)	.... .1..		TCTEORAS	IMMED option
(D4)	.... ..1.		TCTEORSY	DELAY option
(D5)	BIT(8)	1	TCTEIKPC	Byte 4 storage allocation
(D5)	1...		*	Reserved
(D5)	.1..		*	Reserved

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(D5)	..1.		TCTESFU	SPP ISSUE TC free at USR SP
(D5)	...1		TCTESFR	SPP ISSUE TC free if RSTRT
(D5)	.... 1...		*	
(D5)	.... .1..		TCTEPH1	SYNCPOINT PHASE 1 done
(D5)	.... ..1.		TCTEPH2	SYNCPOINT PHASE 2 done
(D6)	BIT(8)	1	TCTEOC3	Byte 5 storage allocation
(D6)	1...		TCTENEC	Write with CCOMPL=NO
(D6)	.1..		*	
(D6)	..1.		TCTEHDA	User handles all conditions
(D6)	..1.		TCTTECND	COND request
(D6)	..1.		TCTECND	COND request
(D6)	...1		TCTTEOWS	Write structured field
(D6)	.... 1...		TCTTETTO	TRANSP TIOA obtained
(D6)	.... .1..		TCTEDWP	Defer requested
(D6)	.... .1..		TCTTEDWR	Defer requested
(D6)	.... ..1.		TCTTEINV	Invite requested
(D6)	1		TCTEDRD	Defer load
(D7)	BIT(8)	1	TCTEOC4	Byte 6 storage allocation
(D7)	1...		*	
(D7)	.1..		*	
(D7)	..1.		*	
(D7)	...1		*	
(D7)	.... 1...		*	
(D7)	.... .1..		TCTEBYPQ	Byp quiesce for PASS
(D7)	.... ..1.		TCTENOA	NOABEND requested
(D7)	1		TCTEINN	TERMERR flag byte
(D8)	BIT(8)	1	TCTETSU	TCTTE terminal sharing use
(D8)	1...		TCTESUR	Used as a SURROGATE
(D8)	.1..		TCTERLX	Used as a RELAY LINK on transaction side
(D8)	..1.		TCTERLT	Used as a RELAY LINK on terminal side
(D8)	...1		TCTETRT	Used as terminal for remote transaction
(D8)	.... 1...		TCTEMDL	Is a model TCTTE
(D8)	.... .1..		TCTERTNT	TCTTE nominated transaction to be routed
(D8)	.... ..1.		TCTERTE	Running routing transaction (CRTE)
(D8)	1		TCTEERT	Running under an explicit

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(D9)	BIT(8)	1	TCTEERAF	3270 Error MSG flags ROUTING SESSION
(D9)	1...		TCTEERAL	Error MSGS on last line
(D9)	.1..		TCTEERAI	Intensify 3270 error MSGS
(D9)	..1.		TCTEPROP	Propagate abend towards TOR
(DA)	BIT(8)	1	TCTEERAH	3270 Error MSG HILIGHT ATTR
(DB)	BIT(8)	1	TCTEERAC	3270 Error MSG COLOR ATTR
(DC)	CHARACTER	4	TCTESYID	SYSID of transaction owning system
(E0)	BIT(8)	1	TCTETSU2	Terminal sharing usage
(E0)	1...		TCTESPRR	SYNC POINT must be sent to terminal owning system
(E0)	.1..		TCTERTEC	ROUTING SESSION cancelled if this is a surrogate:
(E0)	..1.		TCTTEMBI	model owns BIND-IMAGE
(E0)	...1		TCTTEMND	model owns NIB-DESCRIPTOR
(E0)	.... 1...		TCTERTBC	Back-end CRTE cancel
(E0)	.... .1..		TCTETECH	Supports channels
(E0)	.... ..1.		TCTEIPCT	IPIC CRTE from TOR
(E0)	1		TCTEIPCA	IPIC CRTE into AOR
(E1)	BIT(8)	1	TCTETSU3	General bits
(E1)	1...		TCTTEUIP	Limited update-in-place
(E1)	.1..		TCTECDSY	SAVED TCTECDSV if on
(E1)	..1.		TCTEUCTR	Translate TRANID to U/C
(E1)	...1		TCTE_STORAGE_FREEZE	Indicates when all terminal storage should be retained
(E1)	.... 1...		TCTTESRE	scheduled RESETSR
(E1)	.... .1..		TCTELXS	Logon crossed simlog
(E1)	.... ..1.		TCTEOPSE	TCTTEOI value set by SET TERM OPERID
(E1)	1		TCTEDTR	Dyn Router requires abend notification
(E2)	UNSIGNED	2	TCTTERTK	RTT entry key
(E4)	UNSIGNED	1	TCTTEEN	POLL list entry number
(E5)	CHARACTER	1	TCTTETP	Terminal priority
(E6)	BIT(8)	1	*	Trace bits
(E6)	1...		TCTETRX	Exit trace active

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(E6)	.1..		TCTETRS	Standard or special trace OFF = STAN, ON = SPECIAL
(E6)	..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
(F0)	1...		TCTTE_START_DATA_ HEADER	Header in data
(F0)	.1..		TCTTE_START_DATA	Just data
(F0)	..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
(F7)	1...		TCTERZS	Requeststream session
(F7)	.1..		TCTERZJS	Requeststream join sess
(F7)	..1.		TCTE_RZ_INVITE_DONE	APTC issued invite
(F8)	ADDRESS	4	TCTE_USER_TOKEN	Notify user token
(F8)	ADDRESS	4	TCTE_RQSBLKA	Addr of Requeststream Blk
(FC)	CHARACTER	4	*	Not used - available
The following field is overlayed by: TCTTEX1 : Bisynchronous Data TCTETCM1 : TCAM Area				
(100)	CHARACTER	12	TCTTEX0	SNA System Area
BISYNCHRONOUS DATA				
(100)	CHARACTER	12	TCTTEX1	BISYNCH data
(100)	CHARACTER	4	TCTTEBSB	BISYNCH data begin addr
(100)	HALFWORD	2	TCTTEBDL	BISYNCH data area length
(102)	BIT(8)	1	*	Reserved
(103)	BIT(8)	1	*	Reserved
(104)	ADDRESS	4	*	Reserved
(108)	ADDRESS	4	TCTTEBIA	Blocked input record addr
(10C)	CHARACTER	0	TCTTEBEA	Address
TCAM AREA (OS)				
(100)	CHARACTER	12	TCTETCM1	TCAM area
(100)	HALFWORD	2	TCTTETML	Minimum length TIOA TCAM
(102)	BIT(8)	1	*	Reserved

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(120)	1...		*	
(120)	.1..		TCTTEWKF	Work factor
(120)	..1.		*	
(120)	...1		*	Reserved
(120)	.... 1...		TCTTESEG	SEGMENTED write
(120)	.... .1..		TCTTEPBI	PASSBOOK inserted on POLL
(120)	.... ..1.		TCTTEAAI	Station address in use
(120)	1		TCTTEXLT	Data translate
(121)	BIT(8)	1	TCTTETTV	VECTOR
3270 DISPLAY DATA Terminal dependent extension overlay area				
(120)	CHARACTER	25	TCTTEY2	3270 display area
(120)	ADDRESS	4	*	Reserved
(124)	HALFWORD	2	*	Reserved
(126)	BIT(8)	1	TCTTEDOC	Byte 1 Storage Allocation
(127)	BIT(8)	1	*	Reserved
(128)	BIT(8)	1	TCTTEDOS	Byte 2 storage allocation
(128)	1...		TCTTEDBI	Device BUSY
(128)	.1..		*	Reserved
(128)	..1.		*	Reserved
(128)	...1		*	Reserved
(128)	.... 1...		TCTTERKI	Keyboard
(128)	.... .1..		*	Reserved
(128)	.... ..1.		TCTTEIRF	INTERVENTION required
(128)	1		*	Reserved
3270 SEGMENTED WRITE AREA				

Table 569. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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				
(120)	CHARACTER	15	TCTTEY5	3600 extension area
(120)	FULLWORD	4	*	Reserved
(124)	ADDRESS	4	*	Reserved
(128)	ADDRESS	4	*	Reserved
(12C)	HALFWORD	2	*	Reserved
(12E)	BIT(8)	1	TCTTEMFL	3600 BSC control flags
(12E)	1...		TCTTEMWR	Write pending
(12E)	.1..		TCTTEMTD	Output segment built
(12E)	..1.		TCTTEMSG	SEGMENTED write

SNA SYSTEM AREA

Table 570.

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				

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 *
(10C)	ADDRESS	4	TCTENEXT	Address next TCTTE(session) *
(10C)	ADDRESS	4	TCTE_NEXT_APPC_SURROG	Next PS APPC surrog
(110)	CHARACTER	4	TCTETRND	ISC transaction ID
(114)	BIT(8)	1	TCTE_SENSE_RC	Reason for 084C0000
(115)	BIT(8)	1	TCTESPS	ISC SYNC POINT flags
(115)	1...		TCTESPSH	ISC SHUNT received
(115)	.1..		TCTESPAB	ISC ISSUE ABEND received
(115)	..1.		TCTESPER	ISC ISSUE ERROR received
(115)	...1		TCTESPRB	ISC SYNC ROLLBACK received *
(115)	.... 1...		TCTESPSS	ISC SYNC PT request sent
(115)	.... .1..		TCTESPID	ISC IN DOUBT indicator
(115)	.... ..1.		TCTESPSR	received
(115)	1		TCTESPPR	ISC PREPARE received
(116)	BIT(8)	1	TCTESPSA	ADDITIONAL SYNC PT flags
(116)	1...		*	
(116)	.1..		TCTESPRP	Sent PREPARE
(116)	..1.		TCTESPRC	Sent 'PREPARE INVITE'
(116)	...1		TCTESPRL	Sent 'PREPARE REQUEST EB'
(116)	.... 1...		TCTERPRC	Received 'PREPARE INVITE'
(116)	.... .1..		TCTERPRL	Received 'PREPARE REQUEST EB'
SYNCH POINT status - not PROTOCOL FLAGS, but AUW LIFETIME				

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(117)	BIT(8)	1	TCTESPST	SYNC point status
(117)	1...		*	
(117)	.1..		*	
(117)	..1.		*	
(117)	...1		*	
(117)	.... 1...		*	
(117)	.... .1..		*	
(117)	.... ..1.		*	
(117)	1		TCTESPUN	Session is known to not have done PROTECTED ACTIONS
(118)	BIT(8)	1	TCTESARB	
(118)	1...		*	Reserved
(118)	.1..		*	Reserved
(118)	..1.		*	Reserved
(118)	...1		*	Reserved
(118)	.... 1...		*	Reserved
The next flag only used if TCSEAR0I is on (new rules)				
(118)	.... .1..		TCTESARR	State after Rollback flag On = go to Receive Off = go to Send
(118)	.... ..1.		*	Reserved
(118)	1		*	Reserved
(119)	BIT(8)	1	*	Reserved
(11A)	BIT(8)	1	*	Reserved
(11A)	1...		TCTESABC	ABORT completely
(11A)	.1..		TCTESABR	ABORT received
(11A)	..1.		TCTESABS	ABORT sent
(11A)	...1		TCTESABP	ABORT pending
(11A)	.... 1...		*	
(11A)	.... .1..		*	
(11A)	.... ..1.		TCTEEMX	ERP MSG expected
(11A)	1		TCTESER	Error processing state
(11B)	CHARACTER	1	TCTEATPN	Attached process memory
(11C)	ADDRESS	4	TCTEMII	MESSAGE INSERT information address
The BIT definitions in the following field match the BIT assignments in BYTES 16 and 17 of the LU6 BIND IMAGE				
(120)	CHARACTER	2	TCTEARC	Information
(120)	BIT(8)	1	TCTEARC1	Arch Info 1 X'80' and X'40' Reserved

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(120)	1...		*	
(120)	.1..		*	
(120)	..1.		TCTESYSM	System message model
(120)	...1		TCTESCHM	SCHEDULER model
(120)	.... 1...		TCTEQM	QUEUE model
(120)	.... .1..		TCTELFM	LINEAR FILE model
(120)	.... ..1.		TCTEDL1M	DL/1 model
(120)	1		TCTEFDM	FILE DEFINITION model
(121)	BIT(8)	1	TCTEARC2	Arch Info 2
(121)	1...		TCTEOPCM	OPERATOR CONTROL model Other bits reserved
(122)	BIT(8)	1	TCTEISC1	ISC flags
(122)	1...		TCTE1RY	CICS is PRIMARY
(122)	.1..		TCTE2RY	CICS is SECONDARY
(122)	..1.		TCTEDYN	PRI/SEC is DYNAMIC
(122)	...1		*	
(122)	.... 1...		TCTEWIN	LUC CONTENTION WINNER
(122)	.... .1..		TCTELSE	LUC CONTENTION LOSER
(122)	.... ..1.		*	
(122)	1		TCTEBCL	BINDING as CONTENTION LOSER
(123)	BIT(8)	1	TCTENEPS	NEPCLASS static definition
(124)	CHARACTER	2	TCTESQNS	sequence number BUCKETS
(124)	HALFWORD	2	TCTESQIP	PHYSICAL INBOUND sequence number
(126)	HALFWORD	2	TCTESQOP	PHYSICAL OUTBOUND sequence number
(128)	HALFWORD	2	TCTESQIL	LOGICAL INBOUND sequence number
(12A)	HALFWORD	2	TCTESQOL	LOGICAL OUTBOUND sequence
(12C)	HALFWORD	2	TCTESQR1	OUR BB SEQ no sent
(12E)	HALFWORD	2	TCTESQR2	HIS BB SEQ no sent
TCTE_TRACE_3_LEN End of TCTTE trace area 3				
ATTACH REQUIRED FIELDS				
TASK REQUEST COLLECTOR (1)				
(130)	BIT(8)	1	TCTETRC1	Byte 2 storage allocation
TASK REQUEST COLLECTOR (2)				
(131)	BIT(8)	1	TCTETRC2	Byte 3 Storage Allocation
(131)	1...		*	
(131)	.1..		*	

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(131)	..1.		*	
(131)	...1		TCTEOCC	OUTBOUND chain control
(131)	.... 1...		*	
(131)	.... .1..		TCTEMI	Message INTEGRITY(POSITIVE response)
(131)	.... ..1.		*	
(131)	1		TCTEOWO	ONE WRITE ONLY indicator
(132)	BIT(8)	1	TCTESUP1	Required features (1)
(133)	BIT(8)	1	TCTESUP2	Required features (2)
(134)	BIT(8)	1	TCTENSP1	Unsupported features (1)
(135)	BIT(8)	1	TCTENSP2	Unsupported features (2)
(136)	CHARACTER	5	TCTEJINF	GROUP next 5 bytes together KCP uses TCTEJINF for copy from PCT
JOURNALLING & I/O definition (NOTE - CONCATENATION with following 2 fields by TCTEJINF)				
(136)	BIT(8)	1	TCTEJSA	JOURNALLING and I/O def
(136)	1...		TCTEFHA	All FMH'S to APPLN program
(136)	1...		TCTEEXNO	EXTRACT=NO
(136)	.1..		TCTEFHE	EODS FMH'S to APPLN program
(136)	.1..		TCTEEXAT	EXTRACT=ATTACH
(136)	..1.		TCTEAIO	ASYNCHRONOUS I/O
(136)	...1		TCTESIO	SYNCHRONOUS I/O
(136)	.... 1...		TCTEFHD	DFHDIP to process FMH
(136)	.... .1..		TCTELRQ	Transaction requires logical record
(136)	.... ..1.		TCTEIMJ	Automatic message JOURNALLING on INPUT
(136)	1		TCTEOMJ	Automatic message JOURNALLING on OUTPUT
(137)	BIT(8)	1	TCTEXTOP	EXTRACT options
(138)	BIT(8)	1	TCTEOPT2	EXTRA options
(138)	1...		TCTESRAQ	RAQ=YES specified
(138)	.1..		TCTETUCT	UC translate required
(138)	..1.		*	
(138)	...1		*	
(138)	.... 1...		*	

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(138)	.... .1..		*	
(138)	.... ..1.		*	
(138)	1		*	
(139)	BIT(8)	1	TCTEJID	JOURNALLING JOURNAL ID
(13A)	BIT(8)	1	TCTENEPC	Node error program class ID
end of COPIED FIELDS from PCT				
(13B)	BIT(8)	1	*	
(13B)	1...		TCTENBD	NIB disabled - ZCLS cleanup needed
(13B)	.1..		TCTECRQ	Real CLSDST reqd
(13C)	CHARACTER	4	TCTEIRET	Access method RETCODE
(140)	CHARACTER	8	TCTENET	Applid of TOR
(140)	CHARACTER	8	TCTE_TITOKEN	token for remote delete
Communications Recovery Services storage				
(148)	CHARACTER	38	CR_STORAGE	
Access method independent Communications Recovery Services storage				
(148)	CHARACTER	20	CR_COMMON_STG	
Access method dependent Communications Recovery Services storage				
(15C)	CHARACTER	12	CR_OVERLAY_STG1	
(15C)	CHARACTER	2	*	
(15E)	CHARACTER	9	*	
(167)	CHARACTER	1	*	Round up to next halfword
(168)	CHARACTER	6	CR_OVERLAY_STG2	
(16E)	CHARACTER	2	*	reserved
(170)	CHARACTER	19	TCTE_TNADDR	TN3270 client address
(170)	CHARACTER	16	TCTE_IPV6_TPADDR	IPv6 TP address
(170)	CHARACTER	4	TCTE_TPADDR	IPv4 TP address
(174)	CHARACTER	12	*	Rest of IPv6 addr
(180)	UNSIGNED	2	TCTE_PORT	port
(182)	UNSIGNED	1	TCTE_TPADDR_TYPE	IP address type
(183)	CHARACTER	13	TCTE_RES_SNA1	Reserved
Overlays for Access Methods start here - extend above here Keep in step with DFHTCTZE and the LARGE definition in 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

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
ACTIVATE CHAIN REQUESTS				
(1D8)	CHARACTER	4	TCTEACR	Activate request bytes
(1D8)	BIT(8)	1	TCTEACR1	Byte 1 storage allocation
(1D8)	1...		TCTECGR	GETMAIN
(1D8)	.1..		TCTECFR	FREEMAIN
(1D8)	..1.		TCTECAT	ATTACH
(1D8)	...1		TCTECRC	ASYNCH return of control
(1D8)	.... 1...		TCTECRR	RESUME
(1D8)	.... .1..		TCTERCS	RECEIVE SPECIFIC
(1D8)	.... ..1.		*	Reserved
(1D8)	1		*	Reserved
(1D9)	BIT(8)	1	TCTEACR2	Byte 2 storage allocation
(1D9)	1...		TCTECSS	SEND SYNC data flow
(1D9)	.1..		TCTECSA	SEND ASYNCH commands
(1D9)	..1.		TCTECSC	SESSIONC
(1D9)	...1		TCTECSR	SEND response
(1D9)	.... 1...		TCTECRS	RESETSR
(1D9)	.... .1..		TCTEBYP	Delay ACTIVATE SCAN of TCTTE
(1D9)	.... ..1.		TCTECXA	EXIT added
(1D9)	1		TCTECDT	DETACH
(1DA)	BIT(8)	1	TCTEACR3	Byte 3 Storage Allocation
(1DA)	1...		TCTECOR	OPNDST
(1DA)	.1..		TCTECCT	CLSDST
(1DA)	..1.		TCTECTI	Automatic task initiate
(1DA)	...1		TCTECSL	SIMLOGON

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1DA)	.... 1...		TCTECRY	RESYNCH
(1DA)	.... .1..		TCTECEA	NACP
(1DA)	.... ..1.		TCTEDEL	AUTOINSTALL activate scan primed for delete
(1DA)	1		TCTECKR	Send response to command
(1DB)	BIT(8)	1	TCTEACR4	Byte 4 Storage Allocation
(1DB)	1...		TCTETRA	TRACE ENTRY required
(1DB)	.1..		TCTESDL	SEND SYNC LUTYPE 6.2
(1DB)	..1.		TCTERVL	RECEIVE SPEC LUTYPE 6.2
(1DB)	...1		TCTEXRC	XRF Session state analys.
(1DB)	 1111		*	ZACT reserved
(1DC)	BIT(8)	1	TCTERIND	Internal error indicators
(1DC)	1...		TCTERFB	VTAM FEEDBACK available
(1DC)	.1..		TCTERLS	SEND required after LUS
(1DC)	..1.		TCTERLR	RECEIVE required after LUS
(1DC)	...1		TCTESRV	REMEMBER user RECEIVE flag
(1DC)	.... 1...		TCTECDH	HARD SIGNAL RCD received
(1DC)	.... .1..		*	reserved
(1DC)	.... ..1.		TCTERDS	RECEIVE req'd after dvend
(1DC)	1		TCTERDR	SEND required after dvend
(1DD)	BIT(8)	1	TCTEVPAC	V-PACING constant
(1DE)	BIT(8)	1	*	reserved
(1DF)	BIT(8)	1	TCTEVIR1	Byte 1 storage allocation
PACING AND RU COUNT BYTES VTAM INTERNAL REQUESTS for ZSDS ROUTINE				
(1DF)	1...		TCTECHS	CHASE
(1DF)	.1..		TCTECNCL	CANCEL
(1DF)	..1.		TCTEQCM	QUIESCE complete
(1DF)	...1		TCTECBD	BID
(1DF)	.... 1...		TCTELUS	Logical unit status
(1DF)	.... .1..		TCTESXC	SEND COMMAND EXCEPTION
(1DF)	.... ..1.		TCTERTR	RTR
(1DF)	1		TCTETBIS	BIS SEND REQUEST
(1E0)	BIT(8)	1	TCTEVIR2	Byte 2 storage allocation
(1E0)	1...		TCTECLR	CLEAR
(1E0)	.1..		TCTESDT	Start data traffic

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1E0)	..1.		TCTESTSN	SET AND TEST sequence number
(1E0)	...1		TCTESNU	SEND zero data length
(1E0)	.... 1...		TCTEDR2	DR2 requested
(1E0)	.... .1..		TCTESAB	STAND ALONE BB required for 3270
(1E0)	.... ..1.		TCTEBSS	BEGIN BRACKET request
(1E0)	1		TCTEESS	END BRACKET request
(1E1)	BIT(8)	1	TCTEVIR3	Byte 3 Storage Allocation
(1E1)	1...		TCTERSP	RECEIVE SPECIFIC
(1E1)	.1..		TCTEWDA	SEND DATA
(1E1)	..1.		TCTESCM	SEND COMMAND
(1E1)	...1		TCTEORSP	SEND RESP type 0=+ VE 1=-VE
(1E1)	.... 1...		TCTEDCA	Change to CA mode
(1E1)	.... .1..		TCTERAT	Read attention
(1E1)	.... ..1.		TCTECWT	CTYPE wait request
(1E1)	1		TCTESXD	SEND DATA EXCEPTION
(1E2)	BIT(8)	1	TCTEVIR4	Byte 4 storage allocation
(1E2)	1...		TCTECRP	GETMAIN - RPL
(1E2)	.1..		TCTECTA	GETMAIN - TIOA
(1E2)	..1.		TCTECRAS	GETMAIN - RECEIVE ANY
(1E2)	...1		TCTEGNB	GETMAIN - NIB/BIND
(1E2)	.... 1...		TCTEGBF	GETMAIN - BUFFLST
(1E2)	.... .1..		TCTEGLC	GETMAIN - LUC control blocks
(1E3)	BIT(8)	1	TCTEVIR5	Byte 5 storage allocation
(1E3)	1...		TCTERPL	FREEMAIN - RPL
(1E3)	.1..		TCTECFA	FREEMAIN - all
(1E3)	..1.		TCTECFS	FREEMAIN - specific
(1E3)	...1		TCTEFNB	FREEMAIN - NIB/BIND
(1E3)	.... 1...		TCTEFBF	FREEMAIN - BUFFLST
(1E3)	.... .1..		TCTEFLC	FREEMAIN - LUC control blocks
(1E3)	.... ..1.		TCTEFNL	FREEMAIN - EXTR'D LOGON data
(1E3)	1		TCTEFRS	FREEMAIN - RPL specific
(1E4)	BIT(8)	1	TCTEVIR6	Byte 6 storage allocation
(1E4)	1...		TCTECTS	Use symbol name for CLSDST
(1E4)	.1..		TCTECVI	IMMEDIATE availability
(1E4)	..1.		TCTECVD	DEFERRED availability

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1E4)	...1		TCTEPAS	CLSDST pass
(1E4)	.... 1...		TCTECVR	BID rejected
(1E4)	.... .1..		TCTEBWD	BIDDING with data
(1E4)	.... ..1.		TCTEPRT	RTR SEND pending
(1E4)	1		TCTESWT	XRF SWITCH required
(1E5)	BIT(8)	1	TCTERSRR	Byte 7 storage allocation
(1E5)	11..		TCTERCMO	CONTINUE mode
(1E5)	..11 1...		*	
(1E5)	.... .1..		TCTERUB	Reject RU until BB
(1E5)	11		TCTERMOD	RECEIVE mode
SYSTEM SERVICE QUEUE FLAG				
(1E6)	BIT(8)	1	TCTEISSQ	Byte storage allocation
(1E6)	1...		TCTESNQ	System error queue
(1E6)	.1..		*	Reserved
(1E6)	..1.		*	Reserved
(1E6)	...1		TCTEOPQ	On Activate Process Queue
(1E6)	.... 1...		*	
(1E6)	.... .1..		*	
(1E6)	.... ..1.		*	
(1E6)	1		*	
EMW REQUEST AND STATUS FLAGS				
(1E7)	BIT(8)	1	TCTEEMF	Byte Storage Allocation
(1E7)	1...		TCTEPUR	PURGE request
(1E7)	.1..		TCTESEM	SEND MESSAGE request
(1E7)	..1.		TCTESNR	SEND NEGATIVE response
(1E7)	...1		*	
(1E7)	.... 1...		*	
(1E7)	.... .1..		*	
(1E7)	.... ..1.		TCTEEMW	Error message writer active
(1E7)	1		*	
RECEIVE flags				
(1E8)	BIT(8)	1	*	Byte storage allocation
(1E8)	1...		TCTERVR	RECEIVE a response
(1E8)	.1..		TCTERVD	RECEIVE data
(1E8)	..1.		TCTERBP	BID PURGE in progress
(1E8)	...1		TCTERRU	RECEIVE and PURGE ONE RU
(1E8)	.... 1...		TCTEXSC	SDT after clear required
(1E8)	.... .1..		TCTEXPU	XRF RECEIVE PURGE

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1E8)	.... ..1.		TCTEQRQ	QRI-type response is queued *
(1E8)	1		TCTENRQ	NORMAL response is queued
(1E9)	BIT(8)	1	TCTEIXRP	XRF Flags
(1E9)	1...		TCTEXNR	XRF Term not Recovered
(1E9)	.1..		TCTEXRM	XRF Recovery Msg reqd
(1E9)	..1.		TCTEXRT	XRF Recovery Tranact reqd
(1E9)	...1		TCTEXPT	XRF Purge task
(1E9)	 1111		TCTEXCC	Cleanup Action flags
(1E9)	.... 1...		TCTEXNO	Cleanup Action is NONE
(1E9)	.... .1..		TCTEXEB	Cleanup Action is SEND-EB
(1E9)	.... ..1.		TCTEXCL	Cleanup Action is CLEAR/SDT *
(1E9)	1		TCTEXUB	Cleanup Action is UNBIND
	ASYNCH REQUEST FLAGS for use BY ZSDA /ZSAX only			
(1EA)	BIT(8)	1	*	ASYNCHRONOUS request byte
(1EA)	1...		*	
(1EA)	.1..		*	
(1EA)	..1.		TCTERSH	Request SHUTDOWN
(1EA)	...1		TCTEESG	E-SIGNAL
(1EA)	.... 1...		TCTETSBI	SBI SEND request
(1EA)	.... .1..		TCTERLSQ	RELEASE QUIESCE
(1EA)	.... ..1.		TCTEQEOC	QUIESCE at end of chain
(1EA)	1		TCTERSD	Request SHUTDOWN
(1EB)	BIT(8)	1	TCTELTEC	LOSTERM Error code
	LRP REQUEST AND STATUS FLAGS			
(1EC)	BIT(8)	1	TCTELRPF	Byte Storage Allocation
(1EC)	1...		TCTELRP	Logical REC PRESENTATION
(1EC)	.1..		TCTELRD	Deblock in progress
(1EC)	..1.		TCTELRN	No delimiter in input unit
(1EC)	...1		*	
(1EC)	.... 1...		TCTELRC	SAVE flag for EOC indicator
(1EC)	.... .1..		TCTELRZ	SAVE flag for EODS indicator
	VTAM PROCESS STATUS OPERATION IN PROGRESS			
(1ED)	BIT(8)	1	TCTEVTPS	Byte storage allocation
(1ED)	1...		TCTECIP	COMMAND in progress

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1ED)	.1..		TCTEDIP	DATA in progress
(1ED)	..1.		TCTEAIP	ATI BID in progress
(1ED)	...1		TCTENIP	NACP in progress
(1ED)	.... 1...		TCTERSI	RESYNCH/RECOVERY in progress
(1ED)	.... .1..		TCTECAP	CHAIN ASSEMBLY in progress
(1ED)	.... ..1.		TCTERNW	INPUT JOURNAL required flag
(1ED)	1		TCTECCV	1=TASK VIA AVAIL, 0=VIA INPUT
(1EE)	BIT(8)	1	TCTEVOP2	Byte 2 Storage Allocation
(1EE)	1...		TCTEDRQ	Data required after STAND ALONE FMH
(1EE)	.1..		*	Reserved
(1EE)	..1.		TCTEQE2	RESP + to REQ2 outstanding
(1EE)	...1		TCTENND	No normal data flow allowed
(1EE)	.... 1...		TCTERAQ	READ-AHEAD QUEUEING required
(1EE)	.... .1..		TCTERAD	READ-AHEAD DATA available
(1EE)	.... ..1.		TCTERAP	READ-AHEAD PURGE required
(1EE)	1		TCTERVP	RECEIVE PURGE required
NODE SESSION STATUS				
(1EF)	BIT(8)	1	TCTEVTSS	Node session status one byte
(1EF)	111.		TCTENIS	Node is now is session
(1EF)	1...		TCTELOS	LOGGED on
(1EF)	.1..		TCTEOPD	OPNDST
(1EF)	..1.		TCTENSD	Start data traffic sent
(1EF)	...1		TCTESLP	SIMLOGON in progress
(1EF)	.... 1...		TCTEREO	RESPONSE outstanding
(1EF)	.... .1..		*	Reserved
(1EF)	.... ..1.		TCTESHP	SHUTDOWN sent by CICS
(1EF)	1		TCTERELR	RELEASE request received
(1F0)	BIT(8)	1	TCTEVTS2	Node session status byte 2
(1F0)	1...		TCTENQS	Node QUIESCED by CICS
(1F0)	.1..		TCTEHQS	CICS QUIESCED by node
(1F0)	..1.		TCTECSM	Mode (CS=X'20' CA= ¬ X'20')

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1F0)	...1		TCTEOLD	OVERLENGTH data
(1F0)	.... 1...		TCTEBPE	BRACKET PROTOCOL required
(1F0)	.... .1..		TCTEERS	EMERGENCY restart
(1F0)	.... ..1.		TCTEPSA	PREVIOUS SESSION ABEND
(1F0)	1		TCTERPR	RESYNCHRONIZATION required
SESSION CHARACTERISTICS				
(1F1)	BIT(8)	1	TCTEVISC	Byte storage allocation
(1F1)	1...		TCTEERL	Eligible to be released
(1F1)	.1..		TCTIQSL	SIMLOGON to be queued
(1F1)	..1.		TCTEDRI	Eligible to be disconnected
(1F1)	...1		TCTEXCA	Current session is XRF-capable *
(1F1)	.... 1...		TCTEXCM	EXC. RESP. Commands valid
(1F1)	.... .1..		TCTEXRE	Take-over must reconnect by switch or BIND as appropriate *
(1F1)	.... ..1.		TCTEXCS	Last OPNDST was OPTCD=BACKUP *
(1F1)	1		TCTECAR	Chain assembly requested by terminal
PENDING EVENT STATUS				
(1F2)	BIT(8)	1	TCTEVIPS	Byte storage allocation
(1F2)	1...		TCTEORRN	Pending RRN response
(1F2)	.1..		TCTEOFME	Pending FME response
(1F2)	..1.		TCTEBNS	BIND TIME security undefined
(1F2)	...1		TCTEPRA	Awaiting POSITIVE response
(1F2)	.... 1...		TCTEOEXM	Response (0=+ VE & -VE 1=-VE)
(1F2)	.... .1..		*	Reserved
(1F2)	.... ..1.		TCTEQRI	QRI type response
(1F2)	1		TCTEDEF	DEFINITE response send in progress (was TCTEDRS)
(1F3)	BIT(8)	1	TCTEVIP2	Byte 2 storage allocation
(1F3)	1...		TCTEWGS	Task Awaiting for INBOUND SIGNAL
(1F3)	.1..		TCTELGX	LOGON EXIT in progress
(1F3)	..1.		*	Reserved
(1F3)	...1		TCTECDS	CHANGE DIRECTION sent

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1F3)	.... 1...		TCTECMT	RESPOND POSITIVE to SPR
(1F3)	.... .1..		TCTESQA	Start task REQ no active request
(1F3)	.... ..1.		TCTESEO	EXCEPTION response outstanding
(1F3)	1		TCTECDV	CHANGE DIRECTION save TIOA
BRACKET PROTOCOL STATUS				
(1F4)	BIT(8)	1	TCTEVBPS	Byte Storage Allocation
(1F4)	1...		TCTEINB	In BRACKET state
(1F4)	.1..		TCTEBBP	BEGIN BRACKET pending
(1F4)	..1.		TCTEEEB	BB EB sent state
(1F4)	...1		TCTEBBS	BEGIN BRACKET sent
(1F4)	.... 1...		TCTEEBS	END BRACKET sent
(1F4)	.... .1..		TCTEBBR	BEGIN BRACKET received
(1F4)	.... ..1.		TCTEBBA	BEGIN BRACKET receive
(1F4)	1		TCTEBTB	BETWEEN BRACKETS
EXTENDED BRACKET STATE FLAGS				
(1F5)	BIT(8)	1	*	
(1F5)	1...		TCTERTP	RTR pending state
(1F5)	.1..		TCTEBRT	BID TO BE RETRIED indicator
(1F5)	..1.		TCTEBRP	BIDDING in progress
(1F5)	...1		TCTEBRS	REBID if necessary
(1F5)	.... 1...		TCTETBR	TERMINATE BRACKET
(1F5)	.... .1..		TCTEEBM	END BRACKET memory flag
(1F5)	.... ..1.		TCTEEBR	EB received
(1F5)	1		TCTEBEB	BB EB received state
ZRAC flag byte				
(1F6)	BIT(8)	1	*	
(1F6)	1...		TCTERNU	NULL RU / LUS 6 received
(1F6)	.1..		TCTERCM	Command received
(1F6)	..1.		TCTERDT	Data received
(1F6)	...1		TCTERRS	Response received
(1F6)	.... 1...		TCTEBSC	BIND security complete
(1F6)	.... .1..		TCTERAE	ZRAC to EXECUTE
(1F6)	.... ..1.		TCTERAN	ZRAC possibly to RUN
(1F6)	1		TCTESKI	ZRAC to SKIP
TRANSMISSION PROTOCOL STATUS				

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1F7)	BIT(8)	1	TCTEVTP	Byte storage allocation
(1F7)	1...		TCTESMP	SEND mode pending
(1F7)	.1..		TCTEPRC	Processing chain state
(1F7)	..1.		TCTESMA	SEND mode assumed
(1F7)	...1		TCTESMD	SEND mode
(1F7)	.... 1...		TCTEECN	OUTBOUND processing chain state
(1F7)	.... .1..		TCTEABD	ABNORMAL END condition
(1F7)	.... ..1.		TCTERMD	RECEIVE mode
(1F7)	1		TCTECPG	CHAIN PURGED indicator
CLSDEST STATUS				
(1F8)	BIT(8)	1	TCTECLST	CLSDEST status byte
(1F8)	1...		TCTESBIS	SBI sent
(1F8)	.1..		TCTEMTO	TERM issued SHUTDOWN
(1F8)	..1.		TCTEBISI	BIS SEND in progress
(1F8)	...1		TCTEFBIS	First BIS was sent by us
(1F8)	.... 1...		*	
(1F8)	.... .1..		TCTESBIR	SBI received
(1F8)	.... ..1.		TCTEBISS	BIS sent
(1F8)	1		TCTEBISR	BIS received
SEND RESPONSE TO COMMAND REQUEST				
(1F9)	BIT(8)	1	*	
(1F9)	1...		TCTEKNE	SEND NEGATIVE response
(1F9)	.1..		TCTEKSD	SEND SDT response
(1F9)	..1.		TCTEKBD	SEND BIND response
(1F9)	...1		TCTEKCA	SEND SMD response CA mode
(1F9)	.... 1...		TCTEKST	SEND STSN response
(1F9)	.... .1..		TCTESUS	Suspend activate scan
(1F9)	.... ..1.		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
(1FE)	1...		TCTEACC1	ACC field 1 required
(1FE)	.1..		TCTEACC2	ACC field 2 required

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1FE)	..1.		TCTEACC3	ACC field 3 required
(1FE)	...1		TCTEACC4	ACC field 4 required
(1FE)	.... 1...		TCTEACC5	ACC field 5 required
(1FE)	.... .1..		TCTEACC6	ACC field 6 required
(1FE)	.... ..1.		TCTEACC7	ACC field 7 required
(1FE)	1		TCTEACC8	ACC field 8 required
The following byte is in the SAME format as the BIND RU				
(1FF)	CHARACTER	1	TCTESSPL	SPL, LU_SVC byte DEF
(1FF)	1...		*	
(1FF)	.1..		TCTESP2	--- all
(1FF)	..1.		TCTESP1	--- commit
(1FF)	...1		TCTERS1	--- restart supported
(1FF)	.... 1...		*	SECONDARY REINIT
(1FF)	.... .1..		*	PRIMARY REINIT
(1FF)	.... ..1.		TCTEPAR	PARALLEL SESSION
(1FF)	1		TCTECNO	CNOS supported
(200)	BIT(8)	1	TCTEL62A	LUTYPE 6.2 MISCELLANY
(200)	1...		TCTESBB	CURR BB SEQ NO = OURS
(200)	.1..		TCTENIT	We Init'd session
(200)	..1.		TCTEESR	ext. sec. recvd in BIND
(200)	...1		TCTENOBB	No BB for this allocate
(200)	.... 1...		*	
(200)	.... .1..		*	
(200)	.... ..1.		TCTE_LR	Limited Resource
(200)	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	*	
(211)	1...		TCTEXON	No tracking
(211)	.1..		TCTEXOD	Cleanup : Send END BRACKET *

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(211)	..1.		TCTEXOC	Cleanup : Issue CLEAR cmd
(211)	...1		TCTEXOR	Cleanup : UNBIND session
(211)	.... 1...		TCTEXOT	Unconditional UNBIND
(211)	.... .1..		TCTEXNN	RecovNotify = None
(211)	.... ..1.		TCTEXNM	RecovNotify = Message
(211)	1		TCTEXNT	RecovNotify = Transaction
XRF Flags, gathered up from other areas				
(212)	BIT(8)	1	*	Misc XRF Bits
(212)	1...		TCTEXNG	NETNAME removed from TMP
(212)	.1..		TCTEXSB	OPNDST is to be STANDBY
(212)	..1.		TCTEXSW	XRF Analyse R(Switch)
(212)	...1		TCTEXNC	XRF ZNAC Recovery Process
(212)	.... 1...		*	Reserved
(212)	.... .1..		*	Reserved
(212)	.... ..1.		TCTEXS1	Takeover signon flag OFF = NOFORCE, ON = FORCE
(212)	1		TCTEXRO	XRF - 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
(213)	1...		TCTE_SIMLOG_RQD	SIMLOGON reques
(213)	.1..		TCTE_QALL_RQD	QALL option
(213)	..1.		TCTE_QSESSLIM_RQD	QSESSLIM option
(213)	...1		TCTE_QNOTENAB_RQD	QNOTENAB OPTION
(213)	.... 1...		TCTE_RELREQ_RQD	RELREQ option
(213)	.... .111		*	Reserved
SESSION FUNCTIONS DEFINITION				
(214)	FULLWORD	4	*	Ensure alignment
(214)	BIT(8)	1	TCTETSPB	Terminal session pool byte
(214)	1...		TCTEXSL	Standby LOGON pending
(214)	.1..		TCTESPLI	Pool/session leader
(214)	..1.		TCTETPSI	Session terminal indicator
(214)	...1		TCTECLE	CLSDST cleanup ended
(214)	.... 1...		TCTEPTI	Pool terminal indicator
(214)	.... .1..		TCTEXSN	Standby session counted
(215)	BIT(8)	1	*	
(215)	1...		TCTEPTBI	Indicator

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(215)	.1..		TCTEPRQ	PROGRAM request indicator
(215)	..1.		TCTEOWCI	ON WRITE COMPLETEDIND.
(215)	...1		TCTENCD	CD NOT REQUIRED
(215)	.... 1...		TCTE_ZCNIBISC	Nib gotten from ZCNIBISC
(215)	.... .1..		TCTERLM	Resume after LUSTAT
(215)	.... ..1.		TCTE_REM_EOD	Remember no EOD sup't
(215)	1		TCTE_REM_FRI	Remember No FMH req'd
(216)	BIT(8)	1	TCTESFFB	Session feature flag byte
(216)	1...		TCTECSNI	CSSN feature indicator
(216)	.1..		TCTEFUP	Pass FMH to User
(216)	..1.		TCTESNS	SIMLOGON INVALID indicator
(216)	...1		TCTELIRI	LUSTATUS sent after IR
(216)	.... 1...		TCTEVTSI	VTAM supported 3270 indicator
(216)	.... .1..		TCTECPMI	3270 COMPATIBILITY mode IND
(216)	.... ..1.		TCTEGMMI	GOOD MORNING message required
(216)	1		TCTERYCF	RECOVERY requires CLSDST
(217)	BIT(8)	1	*	Session function definition
(217)	1...		TCTECSRI	COLD START request indicator
(217)	.1..		TCTEEOD	No EOD support indicator
(217)	..1.		TCTENOCI	No output chain support IND
(217)	...1		TCTENASI	No ATI support terminal
(217)	.... 1...		TCTENFRI	No FMH required indicator
(217)	.... .1..		TCTENFSI	No FMH support terminal
(217)	.... ..1.		TCTESEB	END BRACKET on every write
(217)	1		TCTESDA	CONTINUE ANY on every write
(218)	BIT(8)	1	TCTESD2	Byte Storage Allocation
(218)	1...		TCTESDBP	HALF-DUPLEX FLIP-FLOP
(218)	.1..		TCTESDEM	EMW - type session
(218)	..1.		TCTESDLD	LDC - type session
(218)	...1		TCTENQCI	No QEC supported on output
(218)	.... 1...		TCTESDED	SEND EB with DEFINITE response required

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(218)	.... .1..		TCTESDIS	INBOUND SIGNAL supported
(218)	.... ..1.		TCTESBDI	LONG TYPE1 FMH supported
(218)	1		TCTETRC	Trace ACTIVATE SCAN
(219)	BIT(8)	1	TCTESD3	Byte Storage Allocation
(219)	1...		TCTES2EB	SECONDARY can SEND EB
(219)	.1..		TCTESRPI	SENDER ERP RESPONSIBILITY
(219)	..1.		TCTESBIF	SBI/BIS supported
(219)	...1		TCTEFNSP	SPR supported
(219)	.... 1...		TCTEFNPR	PREPARE supported
(219)	.... .1..		TCTEFLUS	LUSTAT SENDING supported
(219)	.... ..1.		TCTEFST	FAST PATH session
(219)	1		TCTENCK	BB, EB supported
(21A)	CHARACTER	2	TCTEINSH	
(21A)	BIT(8)	1	TCTESD4	Byte Storage Allocation
(21A)	1...		TCTENDT	No SDT supported
(21A)	.1..		TCTENSH	No SHUTD support
(21A)	..1.		TCTEQRS	QRI response supported
(21A)	...1		TCTECDX	SEND CD with RQE
(21A)	.... 1...		TCTEBID	NULL RU with BB = BID
(21A)	.... .1..		TCTESDN	SIGNAL will drive NACP
(21A)	.... ..1.		TCTEESC	Enforce HARD SIGNAL RCD
(21A)	1		TCTECON	Contention logical unit
(21B)	BIT(8)	1	TCTESD5	Byte Storage Allocation
(21B)	1...		TCTERIB	RESET state is INB
(21B)	.1..		TCTEPSS	PRIMARY SEND state at session initiation
(21B)	..1.		TCTEL06	NULL RU = LUSTAT 0006
(21B)	...1		TCTESQI	QRI supported
(21B)	.... 1...		TCTEL07	LUSTAT 0007 not THR ZNAC
(21B)	.... .1..		*	
(21B)	11		TCTESTL	SECONDARY RECEIVE STACK where B'00' = 1-Level where B'01' = 2-Level where B'10' is Reserved where B'11' = 3-level
(21C)	BIT(8)	1	*	byte storage allocation

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(21C)	1...		TCTEEBX	EB DEFINITE if OUTSTAND REQ
(21C)	.1..		TCTERIR	CICS responsible for reinitiation
(21C)	..1.		TCTERIN	CICS may not Reinitiate
(21C)	...1		TCTESTR	Do not send RTR
(21C)	.... 1...		TCTERIS	Re-initiate pending
(21C)	.... .1..		TCTENBK	Bracket(No)
(21D)	BIT(8)	1	TCTELSB	LU-type subsetting flags B *
(21D)	1...		TCTELS25	LU-type subsetting bit 25
(21D)	.1..		TCTELS26	LU-type subsetting bit 26
(21D)	..1.		TCTELS27	LU-type subsetting bit 27
(21D)	...1		TCTELS28	LU-type subsetting bit 28
(21D)	.... 1...		TCTELS29	LU-type subsetting bit 29
(21D)	.... .1..		TCTELS30	LU-type subsetting bit 30
(21D)	.... ..1.		TCTELS31	LU-type subsetting bit 31
(21D)	1		TCTELS32	LU-type subsetting bit 32
(21E)	BIT(8)	1	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
(224)	1...		TCTEEXI	EXCEPTIONAL input received
(224)	.1..		TCTEXIP	EXCEPTIONAL input program in progress
(224)	..1.		TCTEPRP	PRINT command in progress
(224)	...1		TCTEINT	INTERVENTION required
(224)	.... 1...		TCTERRT	RESTORE read with TEXT
(224)	.... .1..		TCTERRI	RESTORE read indicator
(224)	.... ..1.		TCTECPY	PRINTTO=(X, COPY)
(224)	1		TCTECPA	ALTPRT=(X, COPY)
MISCELLANEOUS control information.				
(225)	BIT(8)	1	*	
(225)	1...		TCTEHOR	Handling own errors
(225)	.1..		TCTEWPD	BMS input passthrough
(225)	..1.		TCTERED	EDS FMH received
(225)	...1		TCTEF12	Awaiting receipt of FMH 12
(225)	.... 1...		TCTEDLG	LOGON with OPNDST active

Table 570. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(225)	.... .1..		TCTETIA	Send buffer is a TIOA
(225)	.... ..1.		TCTEBIR	BIND received
(225)	1		TCTEUBR	UNBIND received
Persistent Sessions State machine - see constants for values				
(226)	BIT(8)	1	TCTE_PRSS	Persistent Sessions State
Generic resource flags				
(227)	BIT(8)	1	TCTE_GR_FLAGS	Generic Resource flags
(227)	1...		TCTE_GR_LOGGEDON_BY_ MEMBERNAME	terminal used member name to log on
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 571.

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	*	
This is the token returned by ADD_LINK, and represents &rm..s link state. It is supplied to &rm..on subsequent calls. ----------				
(148)	BIT(32)	4	CR_CURRENT_LINK	
This field is used to keep &rm..s token for a link which we have deleted but not forgotten (ie. the conversation has gone out of bracket, but the implicit forget flow has not been received yet). In addition to this field, there is a flag to indicate that we have set FORGET(NO) in response to PERFORM_COMMIT, and are therefore obliged to inform &rm..that he can forget the link status on the next inbound flow (or that he must remember the link status if the session is lost). Also, there is a flag to indicate that the session is a 'dummy', in the sense that a DFHRMLNM ADD_LINK has not been issued for the session. This happens for MRO sessions which are used to perform bind processing (DFHCRR). Bind sessions do not need recovery manager actions, and do not participate in syncpoint (even in failure situations). There can be many concurrent bind sessions at start of day, and if we were to issue ADD_LINKs for all of them, then RM could be swamped. ----------				
(14C)	BIT(32)	4	CR_PENDING_LINK	
(150)	1...		CR_FORGET_NEEDED	
(150)	.1..		CR_DUMMY_LINK	
(150)	..11 1111		*	
The PENDING mechanism for adding/setting links is managed by a new piece of state, CR_PEND_RECOVERY_STATUS, associated with the session. ----------				
(151)	UNSIGNED	1	CR_PEND_RECOVERY_ STATUS	
(152)	STRUCTURE IsA(RMC_ COMMON_ LOGNAME)	9	*	
(152)	CHARACTER	9	CR_LOGNAME	
(152)	UNSIGNED	1	CR_LOGNAME_LEN	

Table 571. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(153)	CHARACTER	8	CR_LOGNAME_DATA	
(15B)	STRUCTURE IsA(REMEMBERED_ STATE)	1	*	
(15B)	1...		CR_2PC_SESS_FAIL	sess fail sending Prepare|SPR
(15B)	.1..		CR_SHUNT_RECEIVED	
(15B)	..1.		CR_ABORT_RECEIVED	
(15B)	...1		CR_ABORT_FORBIDDEN	
(15C)	STRUCTURE IsA(RMC_ SHARED_ IRC61)	9	*	
(15C)	STRUCTURE IsA(SEQUENCE_ NUMBERS)	9	*	
(15C)	CHARACTER	8	CR_SEQ_NOS	
(15C)	CHARACTER	4	CR_BACKOUT_SEQ_NOS	
(15C)	HALFWORD	2	CR_BACKOUT_SEQ_INPUT	
(15E)	HALFWORD	2	CR_BACKOUT_SEQ_OUTPUT	
(160)	CHARACTER	4	CR_COMMIT_SEQ_NOS	
(160)	HALFWORD	2	CR_COMMIT_SEQ_INPUT	
(162)	HALFWORD	2	CR_COMMIT_SEQ_OUTPUT	
(164)	11..		CR_UOW_DISPOSITION	NOTE - MUST be 1st 2 bits of byte for ASM
(165)	STRUCTURE IsA(RMC_ SHARED_ IRC62)	2	*	
(165)	STRUCTURE IsA(RESYNC_ TYPE)	1	*	
(165)	11..		CR_RESYNC_TYPE	What resync type is partner?
(166)	STRUCTURE IsA(RECOVERY_ PROTOCOL)	1	*	
(166)	1...		CR_PROTOCOL	

Table 572.

Offset Hex	Type	Len	Name (Dim)	Description
(168)	STRUCTURE	1	CR_LU62	

Table 572. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(168)	STRUCTURE IsA(RMC_ LU62_ SPECIFIC)	1	*	
(168)	STRUCTURE IsA(PA_ RELIABILITY)	1	*	
(168)	1...		CR_RELIABILITY_VOTE	Determined by inbound. rqc

Table 573.

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	*	
(168)	1...		CR_LU61_INBOUND_ PREPARE	
(168)	.1..		CR_LU61_INBOUND_SPR	
(169)	STRUCTURE IsA(LU61_ RESYNC_ CONTROL)	1	*	
(169)	1...		CR_LU61_RESYNC_ REQUIRED	
(169)	.1..		CR_LU61_PARTNER_COLD	
(169)	..1.		CR_LU61_RESYNC_DONE	
(169)	...1		CR_LU61_SECOND_STSN_ EXPECTED	

Table 574.

Offset Hex	Type	Len	Name (Dim)	Description
(168)	STRUCTURE	6	CR_IRC	
(168)	STRUCTURE IsA(RMC_ IRC_ SPECIFIC)	6	*	
(168)	STRUCTURE IsA(IRC_ BIND_ STATE)	1	*	
(168)	111.		CR_BIND_LEG_NUM	Which conversation leg is it? NOTE- leg num must be first 3 bits of byte
(168)	...1		CR_BIND_LOGGING	Is bind logging done yet?

Table 574. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 575.

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 576.

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 577.

Offset Hex	Type	Len	Name (Dim)	Description
(190)	STRUCTURE	176	*	OVERLAY access method-specific IRC Overlay area
(190)	CHARACTER	3	TCTESRHI	INBOUND request header
(190)	CHARACTER	1	TCTESRI1	1st byte
(190)	1...		TCTESRSP	=1 for RESPONSE =0 for REQUEST
(190)	.1..		TCTESDFC	=1 for data flow control header
(190)	..1.		*	
(190)	...1		*	
(190)	.... 1...		TCTESFI	Format IND. =1 if FMH present

Table 577. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(190)	.... .1..		TCTESSDI	=1 when sense data present
(191)	CHARACTER	1	TCTESRI2	2nd byte
(191)	1...		TCTESDR1	DEFINITE response 1
(191)	.1..		*	
(191)	..1.		TCTESDR2	DEFINITE response 2
(191)	...1		TCTESERI	EXCEPTION response
(191)	...1		TCTESRTI	0= for + VE response, 1= for -VE
(192)	CHARACTER	1	TCTESRI3	M-M BRACKET byte
(192)	1...		TCTESBBI	BEGIN BRACKET indicator
(192)	.1..		TCTESEBI	END BRACKET indicator
(192)	..1.		TCTESCDI	CHANGE DIRECTION indicator
(193)	CHARACTER	3	TCTESRHO	OUTBOUND request header
(193)	CHARACTER	1	TCTESRO1	1st byte. Bits as TCTESRI1
(194)	CHARACTER	1	TCTESRO2	2ND byte. Bits as TCTESRI2
(195)	CHARACTER	1	TCTESRO3	3RD byte. Bits as TCTESRI3
(196)	HALFWORD	2	*	Reserved
(198)	BIT(8)	1	TCTESRQ	IRC request flags
(198)	1...		TCTESQWR	WRITE request
(198)	.1..		TCTESQSY	WAIT request
(198)	..1.		TCTESQRD	READ request
(198)	...1		*	
(198)	.... 1...		*	
(198)	.... .1..		TCTESQSG	Segmented data
(198)	.... ..1.		TCTESQAT	ATTACH
(198)	1		TCTESQWP	WRITE pending
(199)	BIT(8)	1	*	Misc. IRC flags
(199)	1...		TCTE_USE_MRO_BITMAP	Session name in BITMAP
(19A)	BIT(8)	1	TCTESBRS	BRACKET status byte
(19B)	BIT(8)	1	*	Reserved
(19C)	CHARACTER	4	*	Reserved monitoring field
(1A0)	FULLWORD	4	TCTETHNO	THREAD NO. for IRC SVC
(1A4)	FULLWORD	4	TCTETHID	THREAD ID for IRC SVC
(1A8)	ADDRESS	4	TCTESCCB	Address of SCCB for THREAD
(1AC)	CHARACTER	4	TCTEIRDA	data for switch
(1AC)	ADDRESS	4	TCTEIRRA	Address of RH
(1B0)	FULLWORD	4	TCTEIRRL	Length of RH
(1B4)	ADDRESS	4	TCTEIRTA	Address of LU6.2 FMH

Table 577. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1B8)	FULLWORD	4	TCTEIRTL	Length of LU6.2 FMH
(1BC)	ADDRESS	4	TCTEIRFA	Address of FMH
(1C0)	FULLWORD	4	TCTEIRFL	Length of FMH
(1C4)	FULLWORD	4	TCTEIRTT	OTHER-system LEVEL-indicator *
(1C8)	CHARACTER	4	TCTEIRFS	Flags bytes
(1C8)	BIT(8)	1	TCTEIRF1	Flag byte one
(1C8)	1...		TCTEIRGI	GET DATA ALREADY issued
(1C8)	.1..		TCTEIRSR	SESSION RECOVERY performed
(1C8)	..1.		TCTEIRWL	Have issued write last
(1C8)	...1		TCTEIRJL	JUST allocated
(1C8)	.... 1...		TCTEIRCO	Control on other side
(1C8)	.... .1..		TCTEIRDP	Data to be processed
(1C8)	.... ..1.		TCTEIRUT	Tell IOR to use TIOA
(1C8)	1		TCTEIRAO	AVAIL outstanding
(1C9)	BIT(8)	1	TCTEIRF2	Flag byte two
(1C9)	1...		TCTEIRCD	CD on this side
(1C9)	.1..		TCTEIRXM	CROSS-MEMORY in use
(1C9)	..1.		TCTEIRAA	CRNP ATTACH SEC check failed *
(1C9)	...1		TCTEIRDL	WRITE LAST issued but EB deferred *
(1C9)	.... 1...		TCTERRSS	Transactional EXCI suppt
(1C9)	.... .1..		TCTETXBK	TEXCI BACKOUT IF ABEND
(1CA)	CHARACTER	2	*	Reserved
(1CC)	ADDRESS	4	TCTEURAD	MVS UR address
(1D0)	BIT(8)	1	TCTEIRST	BIN status
(1D0)	1...		*	Reserved
(1D0)	.1..		TCTEIRBN	EXCI session
(1D0)	..1.		*	RESERVED for TRANS. EXCI
(1D0)	...1		TCTE_UR_INIT_NEEDED	UR client INIT needed
(1D0)	.... 1...		TCTE_UR_BIND_NEEDED	UR client BIND needed
(1D1)	CHARACTER	3	*	for alignment
(1D4)	FULLWORD	4	TCTEICRA	ICRX address
(1D8)	ADDRESS	2	TCTEICRL	ICRX length
(1DA)	CHARACTER	57	*	Reserved
(213)	CHARACTER	0	TCTEGET4	Length for IRC Conv.
LUWID, in the FORM of LL00ID (for possible WTO)				

Table 577. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 578.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	336	DFHTCTSE	
(0)	CHARACTER	8	*	
AID CHAIN HEADER FIELDS				
(8)	ADDRESS	4	TCSEDAID	Pointer to dummy AID
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
(15)	1...		TCSELUC	This is a LUC system
(15)	.1..		TCSELU6	This is a LU6 system
(15)	..1.		TCSEMRO	This is a MRO system
(15)	...1		TCSESNG	Feature=SINGLE
(15)	.... 1...		TCSESHU	SHUTDOWN in progress
(15)	.... .1..		TCSEXLA	XLNaction parameter. On=Force
(15)	.... ..1.		TCSESUR	Surrogate

Table 578. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(15)	1		TCSECNS	CHANGE_NO_SESS supported
(16)	HALFWORD	2	TCSELEN	Entry length
(18)	CHARACTER	8	TCSESID	System NETWORK name
(20)	CHARACTER	8	TCSE_SECURITYNAME	Catlg'd SECURITYNAME
(28)	CHARACTER	8	TCSEMM	Shared database conversations *
(28)	ADDRESS	4	TCSESES1	LUC only - 1st session
(28)	ADDRESS	4	TCSEVC1	VTAM - Primary sessions
(2C)	ADDRESS	4	TCSEMODE	LUC only - mode ENTRY
(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
(33)	1...		TCSETRAN	Transient system
(33)	.1..		TCSE_CLONE	Cloned system
(33)	..1.		TCSE_CATLG_NO	AI not catalogued
(33)	...1		TCSE_IMPLICIT_DELETE	AI delete
(33)	.... 1...		TCSE_DELETE_AT_ RESTART	AI delete after EMER
(33)	.... .1..		TCSE_DELETE_SCHEDULED	AI DFHIC CATD sched
(33)	.... ..1.		TCSE_DELETE_STARTED	AI DFHZATD started
(33)	1		TCSE_DELETE_AND_LOGON	AI BIND during delete
(34)	ADDRESS	4	TCSE_TFUS_PTR	-> Secure Extension
(38)	CHARACTER	12	*	Reserved
SYSTEM ENTRY - VTAM SPECIFIC CURRENT STATISTICS				
(44)	UNSIGNED	2	TCSEALL	Number of AID'S in CHAIN
(46)	HALFWORD	2	TCSESALL	Number of non-specific AID
(48)	HALFWORD	2	TCSEBID	Number of BIDS in progress
(4A)	HALFWORD	2	TCSE2RY	Secondaries currently used
(4C)	UNSIGNED	2	TCSERTK	RTT entry number.
HIGH WATER MARKS				
(4E)	HALFWORD	2	TCSESTAM	Maximum number of allocates outstanding
(50)	HALFWORD	2	TCSE2HWM	Secondaries used
(52)	HALFWORD	2	TCSEBHWM	Maximum number of BIDS
ACCUMULATORS				
(54)	FULLWORD	4	TCSES2	ATI'S SAT. by secondaries
(58)	FULLWORD	4	TCSES1	ATI'S SAT. by primaries

Table 578. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(98)	1...		TCSE_GR	Both sides GR registered
(98)	.1..		TCSE_GRNAME_CONN	1 = TCSESID is GR name TCSEX62N membername 0 = TCSESID membername TCSEX62N is GR name
(98)	..1.		TCSE_USE_OUR_MEMBER_ NAME	Partner used our member name
(98)	...1		TCSE_MSG179_ISSUED	ZC0179 Msg Issued
(98)	.... 1...		TCSE_CATLG_DONE	Defined connection with affinity is catalogued
(98)	.... .1..		TCSE_MSG177_ISSUED	Msg ZC0177 issued
(98)	.... ..1.		TCSE_RUN_ZGCH	Affinity has to be ended
(99)	BIT(8)	1	TCSE_MISC	Miscelaneous
(99)	1...		TCSESSRE	Shunt received since restart
(99)	.1..		TCSE_SD_HANG_REPORTED	on if ZC2352 written
(99)	..1.		TCSEUDU	Use default user
(99)	...1		TCSE_CNOS_SHUT	CNOS shutdown processed

Table 578. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(99)	.... 1...		TCSE_CNOS2	CNOS inst 2 processed
(99)	.... .1..		TCSE_CHECK_IPIC_AIDS	Check for IPIC AIDs
(9A)	HALFWORD	2	TCSE1RY	Primaries currently used
(9C)	HALFWORD	2	TCSE1HWM	Peak number of Primaries used
(9E)	HALFWORD	2	TCSEARC8	Allocates after RC8 XZIQUE
(A0)	ADDRESS	4	TCSENEXT	Address of next TCTSE
(A4)	CHARACTER	5	*	
(A4)	UNSIGNED	2	TCSENQCT	ENQ count for task
(A6)	CHARACTER	3	TCSENQTI	Task id of ENQ holder
(A9)	BIT(8)	1	TCSEDII	DYNAMIC INSTALL inds
(A9)	1...		TCSEDAP	DYNAMIC ADD pending
(A9)	.1..		TCSEDDP	DYNAMIC DELETE pending
(A9)	..1.		TCSEPNAC	Pending AUTOCONNECT
(A9)	...1		*	Reserved
(A9)	.... 1...		TCSEORIS	Indirect System not ready
(A9)	.... .1..		TCSEPNOS	Pending ¬INSERVICE
(A9)	.... ..1.		TCSEPNLG	Pending CREATESESS
(A9)	1		TCSEPNAA	Pending AUTOCONNECT ALL
(AA)	CHARACTER	2	TCSEINUC	(Packed) Indirect system count
(AC)	ADDRESS	4	TCSE_REMDEL_CHAIN	Address next REMDEL system
(AC)	ADDRESS	4	TCSESKA	Skeleton address
(B0)	UNSIGNED	2	TCSESRTK	Saved RTT entry number e.g. for APPC terminals
(B2)	BIT(8)	1	TCSEDII2	DYNAMIC INSTALL inds
(B2)	1...		TCSERDLR	Remote delete required
(B2)	.1..		TCSETMC	TMP action taken for TCTS
(B2)	..1.		TCSEMROP	SHIP done to this system
(B2)	...1		TCSEMROG	We got shipped remotes
(B2)	.... 1...		TCSECRRD	Remote reset done
(B2)	.... .1..		TCSECRSR	DFHCRS running
(B2)	.... ..1.		TCSEUIP	Ltd. XRF update-in-place
(B2)	1		TCSEACT	Remote APPC defined as
(B3)	CHARACTER	1	TCSEDII3	
(B3)	1...		TCSECSRE	Contact with partner since restart
(B3)	.1..		TCSERC8	RC8 from XZIQUE
(B3)	..1.		TCSEQLIM	Queue limit set?

Table 578. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B3)	...1		TCSEQTIM	Max queue time set
The following indicate revised rules for LU6.2 Sync-Pointing Next flag says whether revised rules for Conversation Correlators and State-after-Rollback are used				
(B3)	.... 1...		TCSEAR0I	On = FQCC is supported
Off = FQCC is not supported				
(B3)	.... .1..		TCSECRTE	CRTE activity flag
(B3)	.... ..1.		TCSEPGIP	Purge in progress
(B3)	1		TCSE_SYSTEM_ SUPPORTS_TIMEOUT	timeout supported
(B4)	HALFWORD	2	TCSEALIM	CEDA allocate queue limit
(B6)	HALFWORD	2	TCSEACNT	Queued Allocates processed
(B8)	CHARACTER	8	TCSEAQTS	Time alloc Queue began
(C0)	CHARACTER	4	TCSETAQ	Number of allocates queued
(C4)	CHARACTER	4	TCSEALRJ	QLIMIT alloc.s rejected
(C8)	FULLWORD	4	TCSESTPC	Number of PC requests
(CC)	CHARACTER	2	TCSE_SUPPORTS_ FUNCTION	Function string
(CC)	BIT(8)	1	TCSE_SUPPORTS_FLG1	Flag1
(CC)	1...		TCSE_ROUTABLE_START	Routable START
(CC)	.1..		TCSE_REQUESTSTREAMS	Requeststreams
(CD)	BIT(8)	1	TCSE_SUPPORTS_FLG2	Flag2
(CE)	CHARACTER	2	TCSE_RESERVED	Reserved
(D0)	CHARACTER	8	TCSE_LINK_CHAN_SENT	LINK CHANNEL bytes sent
(D8)	CHARACTER	8	TCSE_LINK_CHAN_RCVD	LINK CHANNEL bytes rcvd
(E0)	CHARACTER	8	TCSE_STRT_CHAN_SENT	START CHANNEL bytes sent
(E8)	CHARACTER	8	TCSE_STRT_CHAN_RCVD	START CHANNEL bytes rcvd
(F0)	CHARACTER	8	TCSE_TSHR_CHAN_SENT	Number of bytes of terminal sharing channels sent
(F8)	CHARACTER	8	TCSE_TSHR_CHAN_RCVD	Number of bytes of terminal sharing channels rcvd
(100)	FULLWORD	4	TCSE_LINK_CHAN	Number of LINK CHANNEL
(104)	FULLWORD	4	TCSE_STRT_CHAN	Number of START CHANNEL
(108)	FULLWORD	4	TCSE_TSHR_CHAN	Number of terminal sharing channel requests
(10C)	FULLWORD	4	TCSE_RSVD2	Reserved
(110)	OBJECT	64	TCSE_RESSIG	Resource Signature
(110)	CHARACTER	64	DFHAMSIG_INSTANCE	Resource Signature

Table 578. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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	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 579.

Offset Hex	Type	Len	Name (Dim)	Description
(150)	STRUCTURE	92	*	
(150)	CHARACTER	8	*	Reserved
(158)	CHARACTER	8	TCSEX62N	XRF specific name or
(158)	CHARACTER	8	TCSEX61N	GR name or member name
(160)	BIT(8)	1	*	
(160)	1...		TCSEPSF	PSH flag bytes supported
(160)	.1..		TCSEWRS	No sessions bound. Scan for resync at next contact *
(160)	..1.		TCSEXLD	EXCHANGE LOGNAME done
(160)	...1		TCSEPRA	Presumed Abort support
(160)	.... 1...		TCSE_LR	Limited Resource
(160)	.... .1..		TCSEANB	ACQ but No Bound sessions
(160)	.... ..1.		TCSE_PRSS_RECOV	Per. Sess. Recovery rqd
(160)	1		TCSE_XLN_COLD	Hot/Cold XLN failure
(161)	UNSIGNED	1	TCSE_VTAM_MISC	Miscellaneous flag

Table 579. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(161)	1...		TCSE_ALIAS_IN_USE	VTAM Aliasing
(161)	.1..		TCSE_DIFF_NETWORK	Alias from diff netid
(161)	..1.		TCSE_POSS_INVAL_ALIAS	May need deleting
(162)	BIT(8)	1	*	LU6.2 Security flag
(162)	1...		TCSEPNAR	Partner SPM not active
(162)	.1..		TCSE_PRSS_REC_ACT	Track pers. resources
(162)	..1.		TCSE_PRSS_REL_CONN	Release connection
(162)	...1		TCSE_CLPEND	XLNaction race control
(162)	.... 1...		TCSEFBN	Sessions already bound
(162)	.... .1..		TCSEBTCH	Batched Resync support
(162)	.... ..1.		TCSECAL	CONNECT=ALL
(162)	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: :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				
(163)	BIT(8)	1	TCSE_ATTACH_SEC	LU6.2 Security Flags
(163)	1...		TCSE_MY_UP	Local UP setting
(163)	.1..		TCSE_MY_AV	Local AV setting
(163)	..1.		TCSE_MY_PV	Local PV setting
(163)	...1		TCSE_HIS_UP	Remote UP setting
(163)	.... 1...		TCSE_HIS_AV	Remote AV setting
(163)	.... .1..		TCSE_HIS_PV	Remote PV setting
(163)	11		*	Reserved
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
(16C)	1...		TCSETOIP	Time Out In Progress flag
(16C)	.111 1111		*	Reserved

Table 579. (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
(170)	1...		TCSE_REL_REQD	Connection in shutdown
(170)	.1..		TCSE_PRSS_PS_REQD	State record not found
(170)	..1.		TCSE_LR_CATLGED	LR bit set in global cat
(170)	...1		TCSE_PRSS_OPNDST_ RESTORE_FAILED	
(170)	.... 1...		TCSE_PRSS_WAS_ SHUTTING	Unbind all
(170)	.... .111		*	Reserved
(171)	BIT(24)	3	*	Reserved for alignment
(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
(18E)	1...		TCSECCIN	CCIN has been run
(18E)	.111 1111		*	Reserved
(18F)	UNSIGNED	1	TCSEXLNC	XLN retry counter
(190)	ADDRESS	4	TCSE_CCINDATA_PTR	PTR CICS client data
(194)	ADDRESS	4	TCSE_LU61_CHAIN	Next LU61 system
(198)	BIT(8)	1	TCSE_CQP_FLAGS	Flags for Connection Quiesce protocol
(198)	1...		TCSE_CQP_SUPPORTED	CQP supported
(198)	.1..		TCSE_ENDAFFIN_REQD	CQP requested ENDAFFIN
(198)	..1.		TCSE_CQPI_COMPLETE	Inbound CQP complete
(198)	...1		TCSE_CQPO_ATTACHED	Outbound CQP attached
(198)	.... 1...		TCSE_CQP_COMPLETE	CQP has completed
(198)	.... .1..		TCSE_CQP_FAILED	CQP has failed
(198)	11		*	reserved
(199)	CHARACTER	3	*	reserved for alignment
(19C)	CHARACTER	8	TCSE_NETID	Network 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 580.

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 581.

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
(158)	1...		*	Reserved
(158)	.1..		TCSEIRNC	Not connected
(158)	..1.		TCSEIRMD	PRI/SEC MISMATCH DIAGNOSED *
(158)	...1		TCSEIDEF	Defined to IRC
(158)	.... 1...		TCSEIRXM	Cross Memory acceptable
(158)	.... .1..		TCSEIRSF	FIRST ATTACH OK
(158)	.... ..1.		TCSEINBT	EXCI connection
(158)	1		TCSEIAID	We need USERSEC=IDENTIFY
(159)	BIT(8)	1	TCSEIRF2	Flags
(159)	1...		TCSEIRXU	Cross Memory in use
(159)	.1..		TCSEIRIC	Outbound connects initiated * for this sys since connections last severed
(159)	..1.		TCSEIRXC	XCF connection
(159)	...1		TCSEIRCQ	CONNECT work element already queued
(15A)	CHARACTER	8	TCSESTOD	Latest CONNECT timestamp
(162)	CHARACTER	2	*	Reserved
(164)	CHARACTER	0	TCSEGET3	Length for ZC Install

SYSTEM ENTRY - INDIRECT ROUTE

Table 582.

Offset Hex	Type	Len	Name (Dim)	Description
(150)	STRUCTURE	8	*	
(150)	ADDRESS	4	TCSEINDA	Address of another system entry, on route to remote region.

Table 582. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 583.

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
(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				

Table 583. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(40)	FULLWORD	4	TCMES2	LUC ATI'S SAT by WINNERS
(44)	FULLWORD	4	TCMES1	LUC ATI'S SAT by LOSERS
(48)	FULLWORD	4	TCMESBID	Number of BIDS sent
ISC LINK STATISTICS				
(4C)	FULLWORD	4	TCMESTAS	Number of allocates for LINK
(50)	FULLWORD	4	TCMESTAQ	Number of allocates QUEUED
(54)	FULLWORD	4	TCMESTAF	Allocates failing - LINK SHUT
(58)	FULLWORD	4	TCMESTAO	Allocates failing - OTHER
(5C)	FULLWORD	4	TCMESTAG	Generic allocs satisfied
(60)	FULLWORD	4	TCMESTAP	Specific allocs satisfied
(64)	BIT(8)	1	TCMEICOM	Comms failure flags
(64)	1...		TCMENWF	Network Failure
(64)	.111 1111		*	RESERVED
(65)	BIT(8)	1	TCMEDII	DYNAMIC INSTALL indicators
(65)	1...		TCMEDAP	DYNAMIC ADD pending
(65)	.1..		TCMEDDP	DYNAMIC DELETE pending
(65)	..1.		TCMEPNAC	Pending AUTOCONNECT
(65)	...1 1...		*	TCME - Reserved
(65)	.... .1..		TCMEPNOS	Pending ¬INSERVICE
(65)	.... ..1.		TCMEPNLG	Pending CREATESESS.
(65)	1		TCMEPNAA	Pending AUTOCONNECT all
(66)	BIT(8)	1	TCMEDII2	DYNAMIC INSTALL indicators
(66)	1...		*	RESERVED
(66)	.1..		TCMEUIP	Update in place
(66)	..11 1111		*	RESERVED
(67)	CHARACTER	1	*	TCME - Reserved
(68)	HALFWORD	2	TCMEPMAX	Potential LOCAL_MAX_ALLOW
(6A)	HALFWORD	2	TCMEPMCO	Potential MAX CON_WINNERS
(6C)	ADDRESS	4	TCMEDPGR	Address of MACRO version
(70)	BIT(8)	1	TCMEIFG1	Flags - 1
(70)	1...		TCMELSM	LU SERVICES MANAGER TCTME
(70)	.1..		TCMETDY	TCPLR TIDYUP to run?

Table 583. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(70)	..1.		TCMECON	CONNECT=AUTO
(70)	...1		TCMECNO	initial CNOS sent
(70)	.... 1...		TCMEBCL	CICS to BIND CON_LOSERS
(70)	.... .1..		TCMEPCN	Postponed CNOS needed
(70)	.... ..1.		TCMEOUT	Mode group OUT OF SERVICE
(70)	1		TCMECLO	Mode group TEMP. CLOSED
(71)	BIT(8)	1	TCMEIFG2	Flags - 2
(71)	1...		TCMETRM	Performing TERMINATION
(71)	.1..		TCMEACT	ACTIVATE SCAN flag
(71)	..1.		TCMESHU	SHUTDOWN in progress
(71)	...1		TCMEINT	Initial CNOS x'chge done
(71)	.... 1...		TCMEERR	Permanent Error in mode group
(71)	.... .1..		TCMER12	RC12 issued by XZIQUE
(71)	.... ..1.		TCME_LOCK_DENIED	Busy on CNOS target sys
(71)	1		TCMEPGIP	Purge in progress
(72)	HALFWORD	2	TCMEACNT	Queued Allocates processed
(74)	HALFWORD	2	TCMEAR12	Allocates after RC12
(76)	HALFWORD	2	TCMEQPCT	XZIQUE purge mode count
(78)	CHARACTER	8	TCMEAQTS	Time alloc Queue began
(80)	ADDRESS	4	TCME_LOCK_TOKEN	LM token for CNOS lock
(84)	HALFWORD	2	TCME_ORD_COUNT	Outstanding remote deactivation count
(86)	HALFWORD	2	TCME_WTL_COUNT	Expected unbinds for Winner-To-Loser switch
(88)	HALFWORD	2	TCME_LTW_COUNT	Expected unbinds for Loser-To-Winner switch
(8A)	CHARACTER	0	TCMEGET	Length for ZC Install

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DESCRIPTIVE NAME = TCTTE BMS Extension
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Table 584.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	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

Table 584. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5)	1...		TCTTEOBO	OBOPID specified
(5)	.1..		TCTTETFV	VERTICAL format feature
(5)	..1.		TCTTETFH	FORM FEED feature
(5)	...1		TCTTENRA	DON'T route with LIST = ALL
(5)	.... 1...		TCTTENR	NEVER route to this terminal
(5)	.... .1..		TCTTEFMP	User FMH PARAMS supported
(5)	.... ..1.		TCTTEOBF	OUTBOARD FORMATTING support data
(5)	1		TCTTETFM	2780 MULTI-RECORD feature
(6)	BIT(8)	1	*	
(6)	1...		TCTTELDC	BMS LDC device
(6)	.1..		*	
(6)	..1.		*	
(6)	...1		*	
(6)	.... 1...		*	
(6)	.... .1..		*	
(6)	.... ..1.		*	
(6)	1		TCTTETFF	HORIZONTAL format feature
(7)	UNSIGNED	1	TCTTEPGL	3270 default PAGE size ROWS *
(8)	UNSIGNED	1	TCTTEPGC	3270 default PAGE size COLS *
(9)	UNSIGNED	1	TCTEAPGL	3270 alternate PAGE size ROWS *
(A)	UNSIGNED	1	TCTEAPGC	3270 alternate PAGE size COLS *
(B)	BIT(8)	1	TCTTEPGB	Terminal Paging Status
(B)	1...		TCTTEPGP	TRMSTAT=PAGE
(B)	.1..		TCTTEPGR	TRMSTAT TEMP INVERTED
(B)	..1.		TCTTEPGD	DISPLAY status
(B)	...1		TCTTEPGI	DISPLAY status task
(B)	.... 1...		TCTTEPGG	CONVERSATIONAL pages
(B)	.... .1..		TCTTEPGO	Some MCB has EODPURG=OPER
(B)	.... ..1.		TCTTEPG3	Terminal is 3270
(B)	1		TCTTEPGA	PURGE BMS PAGE after ATNI

Table 584. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	BIT(8)	1	TCTTETF3	Flag bits
(33)	1...		TCTTESMF	Send Map flag
(33)	.111 1111		*	reserved
(34)	ADDRESS	4	TCTTEBFL	BMS Checking table
(38)	CHARACTER	0	TCTTEEXE	End of extension

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DESCRIPTIVE NAME = TCTTE Special Features Extension
```

Table 585.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	TCTTEPSE	
(0)	UNSIGNED	1	TCTTEQLN	Extension length
(1)	BIT(8)	1	TCTTEQSL	Printer RSL
(2)	CHARACTER	2	TCTTEQPT	Printer type, X'32XX'
(4)	CHARACTER	8	TCTTEQST	Spooling target printer
(4)	CHARACTER	8	TCTTEQSD	Spooling printer dest.ID *
(C)	CHARACTER	4	TCTTEQF	Spooling forms ID
(10)	ADDRESS	4	TCTTEQAP	Spooling control block address *
(14)	HALFWORD	2	TCTTEQLC	Spooling line-up counter
(16)	CHARACTER	1	TCTTEQCL	Spooling device class
(17)	BIT(8)	1	*	Spooling flag byte
(17)	1...		TCTTEQPM	No printed messages *
(18)	CHARACTER	4	*	Reserved *
(1C)	CHARACTER	0	TCTTEPXE	End of SYS.SPOOLING EXTN.

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DESCRIPTIVE NAME = TCTTE LUTYPE6.2 Extension
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Table 586.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	236	TCTTELUC	Start of LUC Extension
This area (from TCTE_LUCX_TRACE to TCTE_LUCX_TRACE_LEN) is traced in some ZC level 1 trace formats				
(0)	CHARACTER	64	TCTE_LUCX_TRACE	LUCX trace area
(0)	CHARACTER	1	*	
(0)	UNSIGNED	1	TCTTELUL	Length of extension
(1)	CHARACTER	3	TCTESTAT	LU 6.2 state bytes
(1)	BIT(8)	1	TCTELUC1	Flag byte 1
(1)	1...		TCTEPLL	PARTIAL LL count set
(1)	.1..		TCTECEBS	CEB to be sent
(1)	..1.		TCTECEBR	CEB received
(1)	...1		TCTECCDS	CD to be sent
(1)	.... 1...		TCTECCDR	CD received
(1)	.... .1..		TCTECDR2	DR2 to be sent
(1)	.... ..1.		TCTECDR1	DR1 to be sent
(1)	1		TCTESDR	Remember DR1 RQD
(2)	BIT(8)	1	TCTELUC2	Flag Byte 2
(2)	1...		TCTEFMS	FMH to be sent
(2)	.1..		TCTEFMR	FMH received
(2)	..1.		TCTEDEX	-ER* received
(2)	...1		TCTERCR	-ZLSX given return code
(2)	.... 1...		TCTEBUF	buffer type RECEIVE
(2)	.... .1..		TCTERCL	ZRVL recalled by ZRLX
(2)	.... ..1.		TCTELLK	LL set by caller
(2)	1		TCTEIMP	IMPLICIT SEND
(3)	BIT(8)	1	TCTELUC3	Flag Byte 3
(3)	1...		TCTELUN	LUSTAT for NULL RU
(3)	.1..		TCTUAXFI	TCTUA XFRMD from TOR
(3)	..1.		TCTELIC	Resp to LUSTAT CEB, RQD2 o/s
(3)	...1		TCTERES	Response to be sent
(3)	.... 1...		TCTEAHB	ATT FMH generated
(3)	.... .1..		TCTERQD2	SEND with RQD2
(3)	.... ..1.		TCTERQD1	SEND with RQD1
(3)	1		TCTERQE	SEND with ER1
(4)	ADDRESS	4	*	reserved (was TCTEURDA)
(8)	ADDRESS	4	*	reserved (was TCTEPURD)
(C)	ADDRESS	4	*	reserved (was TCTEHURD)
(10)	CHARACTER	1	TCTESPL	CONV SYNCPOINT level
(11)	CHARACTER	1	TCTECVT	Conversation type

Table 586. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(11)	1...		*	
(11)	.1..		*	
(11)	..1.		*	
(11)	...1		*	
(11)	.... 1...		*	
(11)	.... .1..		*	
(11)	.... ..1.		*	
(11)	1		TCTEMAPD	"MAPPED"
(12)	UNSIGNED	1	TCTEPLLC	PARTIAL LL count
(13)	UNSIGNED	1	TCTECCL	CONV. CORRELATOR length
(14)	CHARACTER	8	TCTECC	Conversation CORRELATOR
(1C)	ADDRESS	4	TCTESBA	SEND buffer address
(20)	FULLWORD	4	TCTESBL	SEND buffer length
(24)	ADDRESS	4	TCTESBDA	next slot in SEND buffer
(28)	FULLWORD	4	TCTESBDL	DATE length in SEND BFR
(2C)	ADDRESS	4	TCTERBA	RECEIVE buffer address
(30)	FULLWORD	4	TCTERBL	RECEIVE buffer length
(34)	ADDRESS	4	TCTERDA	Next slot in RECV buffer
(38)	FULLWORD	4	TCTERBDL	Data length in RECV buffer
(3C)	HALFWORD	2	TCTELLC	LL count
(3E)	HALFWORD	2	TCTENLLC	New LL count
(3E)	UNSIGNED	1	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
(56)	1111 11..		*	Reserved
(56)	.... ..1.		TCTECPIC	conversation is CPIC
(56)	1		TCTENCPC	conversation is not CPIC
(57)	CHARACTER	1	*	Miscellaneous bits
(57)	1...		TCTEIIR	Interested in responses

Table 586. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(57)	.1..		TCTE_PRSS_MATCHED	TCTTE matched to NIB
(57)	..1.		TCTE_PRSS_REJ_ATTACH	Reject attach flag
(57)	...1		TCTE_PRSS_REM_SCHED	Remote schedule flag
(57)	.... 1...		TCTENRI	Not Receive Immediate
(57)	.... .1..		TCTE_FLOW_FORGET	Forget flow required
(57)	11		*	reserved
(58)	ADDRESS	4	TCTERCSA	RECEIVE SET address
(5C)	ADDRESS	4	TCTELHNP	-> TCTTE
(60)	CHARACTER	1	TCTESIL	SESSION INSTANCE length
(61)	CHARACTER	8	TCTESII	SESSION INST identifier
(69)	CHARACTER	3	TCTESECA	Reserved
(6C)	ADDRESS	4	*	Reserved
(70)	CHARACTER	8	TCTETPWA	BIND security work area
(78)	CHARACTER	1	TCTESONC	CLSDST SON code
(79)	CHARACTER	2	TCTESSNS	System sense code
(7B)	CHARACTER	2	TCTEUSNS	User sense code
(7D)	CHARACTER	1	TCTETLD	ETL Deferred Data Flag
(7D)	1...		TCTETLDD	ETL is deferring the data
(7D)	.111 1111		*	unused
(7E)	HALFWORD	2	TCTE_BID_SEQ	Persistent Sessions BB seqno. save area
(80)	CHARACTER	32	TCTEBLST	Buffer list
(A0)	CHARACTER	8	TCTEPENC	Primary encrypted seed
(A8)	FULLWORD	4	TCTEPCLK	Previous TOD clock bits for LU62 bind
(AC)	ADDRESS	4	TCTERPLB	Second RPL
(B0)	FULLWORD	4	TCTEMINL	Minimum ll to receive
(B4)	BIT(8)	1	TCTEVOP3	Operation in progress
(B4)	1...		TCTERIP	Receive in progress
(B5)	BIT(8)	1	TCTERPBS	LU62 RPL_B state machine
(B6)	BIT(8)	1	TCTE_BID_STATUS	Persistent Sessions status for LU62 recovery
(B7)	BIT(8)	1	TCTE_RESP_STATUS	Persistent sessions status recovery
(B8)	CHARACTER	8	TCTESEED	BIND PASSWORD seed sent in bnd
(C0)	CHARACTER	8	TCTERSED	BIND PASSWORD seed RCVD in bnd
(C8)	ADDRESS	4	TCTERERA	LU62 RPL_in_error address
(CC)	ADDRESS	4	TCTERBLA	Logical LU62 recv buf addr
(D0)	UNSIGNED	4	TCTERBLL	Logical LU62 recv buf len
(D4)	ADDRESS	4	TCTECPCA	CPC address

Table 586. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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

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DESCRIPTIVE NAME = TCTTE NIB Descriptor Extension
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Table 587.

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
(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.				

Table 587. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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	*	
(40)	1...		TCTEPSES	And its value
(40)	.1..		TCTENBLE	NEG BIND specified
(40)	..1.		TCTENBLR	NEGOTIABLE response required
(40)	...1		TCTETNNB	TRY not NEG BIND
(40)	.... 1...		TCTE_ALIAS_IN_USE	VTAM Alias found
(40)	.... .1..		TCTE_DIFF_NETWORK	Alias from diff network
(40)	.... ..1.		TCTE_POSS_INVAL_ALIAS	May need deleting
(41)	BIT(8)	1	TCTEERPV	Error processing REASONCODE
(42)	CHARACTER	16	TCTESQP	Session QUALIFIER PAIR
(42)	CHARACTER	1	TCTESQPL	Length of SQP field
(43)	BIT(8)	1	*	SQP field ID - X'01'
	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	*	
(53)	1...		TCTNNTMC	TMP action taken for TCNT
(54)	ADDRESS	4	TCTENNCH	-> Next in NETNAME chain
(58)	CHARACTER	8	TCTE_LOGON_LOGMODE	LOGMODE name from VTAM LOGON exit.

Table 587. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 588.

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 589.

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 590.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	TCTEDMWE	Logon work element
(0)	ADDRESS	4	TCTEDMCH	Chain field to next WE
(4)	BIT(8)	1	TCTEDMER	Error type byte 1
(4)	1...		TCTEDMCL	CLSDST failed - logon exit
(4)	.1..		TCTEDMRA	Receive any error - ZRAC
(4)	..1.		*	Reserved
(4)	...1		TCTEDMLG	VTAM detected logic error
(4)	.... 1...		TCTEDMSM	Issue storage message
(4)	.... .1..		TCTEDMSL	Negative resp to BIND fail
(4)	.... ..1.		TCTEVTMQ	VTAM Quiescing
(4)	1		TCTEVTMP	VTAM Predatory takeover
(5)	BIT(8)	1	TCTEDME2	Error type byte 2
(5)	1...		TCTEDMPD	TCTTE Delete pending
(5)	.1..		TCTEDMAX	AUTOINSTALL max reached

Table 590. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5)	..1.		TCTEDMGF	O/S getmain failed
(5)	...1		TCTEDMUL	Unknown LU LOGON
(5)	.... 1...		TCTEDMAI	Autoinstall inactive
(5)	.... .1..		TCTEDMIT	Invalid LOGON token
(5)	.... ..1.		TCTEDMRY	Terminal recovery in prog
(5)	1		*	Reserved
(6)	CHARACTER	17	TCTEDMQN	Qualified network name
(6)	CHARACTER	8	TCTEDMNN	NETNAME
(E)	CHARACTER	1	TCTEDMDT	'.' SEPARATOR
(F)	CHARACTER	8	TCTEDMSQ	2NDARY SESSION QUALIFIER
(17)	CHARACTER	4	TCTEDMID	Termid
(1B)	CHARACTER	1	TCTEDMMI	Module instance ID
(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 591.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	64	DFHTCTSK	
(0)	CHARACTER	4	TCTSKID	Terminal identifier (local).
(4)	CHARACTER	1	TCTSKTT	Fits under TCTTETT, and contains TCTTESKE.
(5)	CHARACTER	1	*	
(5)	1...		TCTSKSIF	System Entry is inflight
(5)	.1..		TCTSKAIP	Aids in progress
(5)	..1.		TCTSKNDL	Don't delete me
(5)	...1		TCTSKSHI	Definition shipped in
(5)	.... 1...		TCTSKSAN	TCTSKSYS holds a name
(5)	.... .1..		TCTSKINF	Skeleton is inflight
(5)	.... ..1.		TCTSKPSH	Definition is shippable
(5)	1		TCTSKSHO	Definition shipped out
(6)	CHARACTER	1	*	
(6)	1...		TCTSKDDP	Delete started
(6)	.1..		TCTSK_VIRTUAL_ TERMINAL	CICS Client skel
(6)	..1.		TCTSK_VT_BITMAP_USED	CICS assigned name
(6)	...1		TCTSK_RT_BITMAP_USED	CICS assigned RT name
(6)	.... 1...		TCTSKNDF	TCTSKNET was defaulted
(6)	.... .1..		TCTSK_VT_SO_CAPABLE	signon support for this virtual terminal
(6)	.... ..1.		TCTSKIPC	Used by IPIC connection
(6)	1		*	Reserved
(7)	UNSIGNED	1	*	Reserved.
(8)	ADDRESS	4	TCTSKSYS	Owning system's TCTSE. or name
(C)	CHARACTER	4	TCTSKHID	Terminal ID in own 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 592.

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 593.

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	*	

Table 593. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(30)	CHARACTER	8	TCSE_CAPABILITIES_ PARM	
(30)	FULLWORD	4	TCSE_CAPABILITIES_ LENGTH	
(34)	UNSIGNED	1	TCSE_CAPABILITIES_ PARM_TYPE	
(35)	BIT(8)	1	TCSE_ENVIRON	
(35)	1111 11..		*	
(35)	.... ..1.		TCSE_EBCDIC	
(35)	1		TCSE_BIGENDIAN	
(36)	BIT(16)	2	TCSE_CLIENT_ CAPABILITIES	
(36)	BIT(8)	1	*	
(36)	1...		TCSE_EXIT_PROCESSING	
(36)	.1..		TCSE_TRANSLATE_ CAPABLE	
(36)	..1.		TCSE_DELETE_ENTRIES	
(36)	...1		TCSE_TCTUA_COMMAREA	
(36)	 1111		*	
(37)	BIT(8)	1	*	
(38)	CHARACTER	10	TCSE_SECURITY_PARM	
(38)	FULLWORD	4	TCSE_SECURITY_LENGTH	
(3C)	UNSIGNED	1	TCSE_SECURITY_PARM_ TYPE	
(3D)	UNSIGNED	1	TCSE_ECIATTACH_USERID	
(3E)	UNSIGNED	1	TCSE_ECIATTACH_ PASSWORD	
(3F)	UNSIGNED	1	TCSE_EPIATTACH_USERID	
(40)	UNSIGNED	1	TCSE_EPIATTACH_ PASSWORD	
(41)	UNSIGNED	1	TCSE_CTINATTACH_REQS	
(42)	HALFWORD	2	TCSE_CTIN_INSTALL_ COUNT	

```
======================================================================

CTIN data which is hung from the virtual terminal surrogate TCTTE
pointed to by TCTE_CTINDATA_PTR.

======================================================================
```

Table 594.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	19	TCTE_CTINDATA	
(0)	CHARACTER	8	TCTE_CODEPAGE_TOKEN	
(8)	CHARACTER	10	TCTE_CODEPAGE	
(12)	BIT(8)	1	TCTE_VT_INDICATOR	
(12)	1...		TCTE_VT_UNINSTALL	VT being uninstalled
(12)	.111 1111		*	reserved

Constants

Table 595.

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
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

Table 595. (continued)

Len	Type	Value	Name	Description
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
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

Table 595. (continued)

Len	Type	Value	Name	Description
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
1	HEX	D0	TCTERPM	Retry PROTOCOL MSG
1	HEX	04	TCTE_TPADDR_IPV4	IPv4
1	HEX	06	TCTE_TPADDR_IPV6	IPv6
1	DECIMAL	0	CR_PEND_RECOVERY_ IGNORE	
1	DECIMAL	1	CR_PEND_RECOVERY_ NECESSARY	
1	DECIMAL	2	CR_PEND_RECOVERY_ UNNECESSARY	
0	BIT	00	CR_UOW_COLD	
0	BIT	01	CR_UOW_COMMITTED	
0	BIT	10	CR_UOW_BACKED_OUT	
0	BIT	11	CR_UOW_INDOUBT	
0	BIT	11	CR_UOW_DISPOSITION_ MASK	
0	BIT	0	PRESUMED_ABORT	
0	BIT	1	PRESUMED_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	

Table 595. (continued)

Len	Type	Value	Name	Description
?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	
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	

Table 595. (continued)

Len	Type	Value	Name	Description
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	
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	

Table 595. (continued)

Len	Type	Value	Name	Description
1	HEX	01	TCTE_NIB_MATCHED	
1	HEX	02	TCTE_OPNDST_RESTORE_ COMPLETED	
1	HEX	20	TCTE_ZXRC_CLEANUP	
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
Used in TCSEDSP (DATA-STREAM)				
1	HEX	40	TCSEDSLM	LMS
1	HEX	30	TCSEDSST	Structured field
1	HEX	20	TCSEDS32	3270

Table 595. (continued)

Len	Type	Value	Name	Description
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	
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

Table 595. (continued)

Len	Type	Value	Name	Description
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

```
DESCRIPTIVE NAME = CICS TS TCT Transaction Work Area
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      (C) Copyright IBM Corp. 1985, 1994
FUNCTION = This DSECT defines the Transaction Work Area for the
           Terminal Control Transaction itself. This transaction
           responds to requests for terminal services.
```

Table 596.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHTCTWA	TWA address is in TCATWAAD
(0)	DBL WORD	8	TCTWA (0)	Start of TC TWA
(0)	ADDRESS	4	TCSPTA	Read terminal entry address
(4)	CHARACTER	1	TCPIND	Polling indicator
(5)	CHARACTER	3	TCERRSA	Terminal error code save area
(8)	ADDRESS	4	TCTXTPA	Terminal pool address
(C)	BITSTRING	1	TCTXLPAF (0)	Line in pool avail flag byte
(C)	1...		TCTXLPAV	"X'80'" Line in pool avail (3170L)
(C)	ADDRESS	4	TCTXLPA	1st line in pool pointer save
(10)	ADDRESS	4	TCTRNTA	Translate table address
(14)	ADDRESS	4	TCL3PTSV	Local 3270 poll terminal save
(18)	ADDRESS	4	TCTSPRA	Specific poll return address
(1C)	ADDRESS	4	TCTWLA	Active wait list address

Table 596. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	.1..		TWATEPI	"X'40'" Timer posted flag
(3C)	..1.		TWALSEI	"X'20'" Local line scan indicator
(3D)	BITSTRING	1	TWACFLAG	Compatibility control flags
(3D)	1		TWACDSCI	"X'01'" DAT scan complete indicator
(3D)	.... ..1.		TWACWSI	"X'02'" Wrapped screen indicator
(3D)	.... .1..		TWACSLI	"X'04'" Shortline indicator
(3D)	.... 1...		TWACSSFI	"X'08'" SMI character found indicator
(3D)	...1		TWACWSIT	"X'10'" Wrap screen pseudo ind tab
(3E)	HALFWORD	2	TWAC2260	Number of chars/line for 2260
(40)	HALFWORD	2	TWAC3270	Number of chars/line for 3270
(42)	HALFWORD	2	TWAFDLBA	First display LN begin address
(44)	HALFWORD	2	TWALDLBA	Last display line begin address
(46)	HALFWORD	2	TWAIBDL	Increment between display lines
(48)	HALFWORD	2	TWACNBEO	Number if bytes for erase
(48)	.... 11..		TWACAL	"*-TWAC2260" Compatible area length
(4A)	HALFWORD	2	TWACBAP	Current buffer address position
(4C)	HALFWORD	2	TWACLSA	Current line start address
(4E)	CHARACTER	256	TCTTT	Input data length T & T table
(50)	DBL WORD	8	RCLOCK	Time of day clock
(58)	FULLWORD	4	OCLOCK	Word to save internal clock
(5C)	FULLWORD	4	MSGNTNM (0)	
(5C)	ADDRESS	1		

Table 596. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	1..1 1...		MSGE0001	"*"
(75)	1..1 1...		MSGNTNME	"*"
----------				
(150)	FULLWORD	4	TWAXRPL (0)	
(150)	BITSTRING	1		V*1 request byte
(151)	BITSTRING	1		V*2 request byte modifier
(152)	BITSTRING	1		V*3 MVS System indicator
(153)	BITSTRING	1		V*4 response byte
(154)	BITSTRING	1		V*5 XRF
(155)	BITSTRING	1		V*6 TAKEOVR
(156)	CHARACTER	1		V*7 SURVEILLANCE
(157)	CHARACTER	1		V*8 signon status
(158)	CHARACTER	8	(0)	generic applid
(158)	CHARACTER	8	(0)	'time' xx ECB posted
(158)	CHARACTER	8	(0)	program name
(158)	CHARACTER	4		- domain id
(15C)	CHARACTER	4		- reserved
(160)	CHARACTER	8	(0)	specific applid
(160)	CHARACTER	4		- error id
(164)	FULLWORD	4		- global data address
(168)	FULLWORD	4	(0)	ADI
(168)	CHARACTER	4		- MVS id.
(16C)	FULLWORD	4	(0)	JESDI
(16C)	CHARACTER	4		- JES subsystem id.
(170)	FULLWORD	4	(0)	PDI
(170)	FULLWORD	4		Lower clock difference
(174)	FULLWORD	4		Upper clock difference
(178)	CHARACTER	8		XCF Sysplex name
(180)	CHARACTER	8		MVS System name
(188)	CHARACTER	4		MVS instance token
(188)		0	TCTWALEN	"*-TCTWA" TCP'S TWA Length
(0)	FULLWORD	4	TCRAFDA	First data record address

Table 596. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	.... ..1.		TCRAAREC	"X'02'" Re-entered ind. constant

TCTWE - VTAM Autoinstall work element

```
Bilingual Control block
=======================================================================

CONTROL BLOCK NAME = DFHTCTWE

DESCRIPTIVE NAME = CICS TS (VTAM) AUTOINSTALL WORK EMEMENT



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FUNCTION = Provide mapping for autoinstall work element components.

The DSECT is used solely within the ZCP DOMAIN.

There are as many WE's as there are autoinstall requests
in progress.

The WE is used to store the CINIT_RU or BIND so that the
logon may be attempted by DFHZATA.

If the WE contains a TCTTE address then this is a
Postponed autoinstall work 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=TCZCLSIN.

The WE is freed by DFHZATA when the request has been
processed.
```

```
STORAGE CLASS = USER(OS - SUBPOOL 1)

LOCATION = For unknown terminals, each WE is chained off the
previous one and the first one is anchored from
TCTVANWE in the TCT prefix. After the TCTTE is
built by DFHZATA for autoinstall-eligible devices,
the WE address is saved in TCTEAWEA. For known
terminals, DFHZLGX updates TCTEAWEA.

INNER CONTROL BLOCKS = NONE

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = NONE
MODULE TYPE = DSECT

-------------------------------------------------------------------

EXTERNAL REFERENCES = NONE

DATA AREAS = NONE

CONTROL BLOCKS = NONE

GLOBAL VARIABLES (MACRO PASS) = NONE

-------------------------------------------------------------------


PN= REASON REL YYMMDD HDXIII : REMARKS

===================================================================
===================================================================
AUTOINSTALL WORK - ELEMENT DSECT
===================================================================
```

Table 597.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHTCTWE	Autoinstall work element !
(0)	ADDRESS	4	TCTWECHN	- AWE chain field !
(4)	ADDRESS	4	TCTWE_VTAM_BIND	- address of VTAM read only bind
(8)	UNSIGNED	1	TCTWETYP	- Data type ID !
(9)	UNSIGNED	3	TCTWELEN	- Length of this block !
(C)	ADDRESS	4	TCTWETEA	- TCTTE ptr if PWE. !
(10)	CHARACTER	8	TCTWE_TEMPLATE_ NETNAME	- NETNAME of GR template
(18)	CHARACTER	8	TCTWE_NETNAME	- NETNAME for CICS use. Possible alias
(20)	CHARACTER	8	TCTWE_NETID	- Network ID
(28)	CHARACTER	8	TCTWE_REAL_NETNAME	- NETNAME from NRINPLU
(30)	CHARACTER	4	TCTWECID	- VTAM CID !
(34)	UNSIGNED	2	TCTWE_RPLSEQNO	- for opnsec !
(36)	UNSIGNED	1	*	- flag byte 1 !
(36)	1...		TCTWE_BIND_CLONING	- On if APPC bind input !

Table 597. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(36)	.1..		TCTWE_GR	- On if both sides are GR registered
(36)	..1.		TCTWE_GRNAME_CONN	- On if this GR conn is known by its GR name. Off if this is a GR known by its
(36)	...1		TCTWE_USE_OUR_ MEMBER_NAME	- On if partner knows us partner knows GR name
(36)	.... 1...		TCTWE_DIFF_NETWORK	- Exit found alias from
(36)	.... .1..		TCTWE_INSTALL_UDSS04	- inst Netname from udss04 in bind
(37)	UNSIGNED	1	*	- flag byte 1 !
(38)	HALFWORD	2	TCTWE_TNADDR_LENGTH	- length of tnaddr in AWE
(3A)	HALFWORD	2	TCTWECLN	- length of CINIT_RU or !
(3A)	HALFWORD	2	TCTWE_BIND_LENGTH	- length of APPC BIND !
(3C)	CHARACTER	*	TCTWECRU	- CINIT_RU or !
(3C)	CHARACTER	*	TCTWE_BIND	- APPC BIND !

Table 598.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	TCTWE_TNADDR_S	TNADDR string after CINIT
(0)	CHARACTER	1	*	
(1)	CHARACTER	*	TCTWE_TNADDR	IP addr, port, hostname

```
============================================================
Autoinstall Work Element - Console Overlay
============================================================
```

Table 599.

Offset Hex	Type	Len	Name (Dim)	Description
(30)	STRUCTURE	*	TCTCWE	Console work element
(30)	HALFWORD	2	TCTCWE_DATAL	- Length of input
(32)	UNSIGNED	1	TCTCWE_FLG	- Flag byte
(32)	1...		TCTCWE_EXT	- Ext cons support
(32)	.1..		TCTCWE_SEC	- Userid present
(32)	..1.		TCTCWE_SGN	- Sign-Off/Sign-On
(32)	...1 1111		*	Reserved
(33)	CHARACTER	1	*	Reserved
(34)	CHARACTER	8	TCTCWE_CART	- Saved CIBXCART
(3C)	CHARACTER	4	TCTCWE_CNID	- CIBXCNID|CIBXOCID
(40)	CHARACTER	8	TCTCWE_CNNM	- Saved CIBXCNNM
(40)	CHARACTER	1	TCTCWE_CONID	- Saved CIBCONID
(41)	CHARACTER	7	*	Reserved
(48)	CHARACTER	10	TCTCWE_USERID	- Userid signed on

Table 599. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(52)	HALFWORD	2	TCTCWE_USERID_LEN	- length of userid
(54)	CHARACTER	4	TCTCWE_TERMID	- Termid for signon
(58)	ADDRESS	4	TCTCWE_CHAIN	- Active WE chain
(5C)	CHARACTER	*	TCTCWE_DATA	- Input from console

TCX - TCA extension for LU6.2

```
CONTROL BLOCK NAME = DFHTCXDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS TCA Extension For LU6.2
FUNCTION =
This DSECT defines the Process Initialization Parameters (PIP)
and Transaction Program Name (TPN) used by EXEC CICS
CONNECT PROCESS and EXTRACT PROCESS for passing additional data
on LU6.2 attaches.
```

Table 600.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHTCXDS	,
(0)	FULLWORD	4		STGE ACNTG CONTROL DATA
(4)	ADDRESS	4		STGE ACNTG CHAIN ADDRESS
(8)	HALFWORD	2	TCAXPIPL	PIP LENGTH
(A)	CHARACTER	1	TCAXTPNL	TPN LENGTH
(B)	CHARACTER	64	TCAXTPN (0)	TPN
(0)	FULLWORD	4	TCAXPIP (0)	PIP DATA
(0)	CHARACTER	8	TCAXMODN (0)	MODENAME
(0)	11		TCAXGETL	"TCAXTPN-TCAXPIPL" PREFIX LENGTH FOR GETMAIN

TDCI - Transient data control intervals

```
 NAME OF MATCHING PL/S MODULE = NONE
 DESCRIPTIVE NAME = Transient Data Control Intervals
                    CICS/ESA AP Domain
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
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     (C) Copyright IBM Corp. 1983, 1991
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 601.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHTDCI	TD-VSAM CONTROL INT'VAL MAP
(0)	....		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
(10)	....		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)	...1		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:				

Table 601. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10)	....		TDRSINGL	"X'00'" RDF GIVES LENGTH OF SINGLE RECORD.
(11)	CHARACTER	2	TDLENREC	LENGTH OF RECORD
(11)	11		TDRDFLN	"*-TDRDF" LENGTH OF RDF
(13)	CHARACTER	4	TDCIDF (0)	CI DEFINITION FIELD
(13)	CHARACTER	2	TDOUS	OFFSET OF UNUSED SPACE
(15)	CHARACTER	2	TDLUS	LENGTH OF UNUSED SPACE (L'CI-L'(CIDF+ RDFS)-TDOUS))
(15)	.... .1..		TDCIDFLN	"*-TDCIDF" LENGTH OF CIDF
(15)	...1 .111		TDCIEND	"*" END OF CI

DUGS - Dump domain global ststistics

```
CONTROL BLOCK NAME = DFHTDGDS
NAME OF MATCHING PL/AS CONTROL BLOCK = DFHTDGPS
DESCRIPTIVE NAME = CICS TS Dump Domain Global Statistics
                   (Transaction dumps)
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1987, 1991
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 602.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHTDGDS	Transaction Dump Global Stats

Table 602. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	TDGLEN	Length of data area
(0)	.1.1 .111		TDGIDE	"87" Global system dump stats id mask
(2)	ADDRESS	2	TDGID	Dump Domain global stats id
(2)	1		TDGVERS	"X'01'" Stats version number mask
(4)	CHARACTER	1	TDGDVERS	Dump domain global stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	TRANS_DUMP_TAKEN	No. of transaction dumps taken
(C)	FULLWORD	4	TRANS_DUMP_SUPP	No. of transaction dumps supprsd
(C)	...1		TDGEND	"*"
(C)	...1		TDGCLEN	"*-DFHTDGDS" Length of DSECT

TDIA - Transient data input area

```
 DESCRIPTIVE NAME = Transient Data Input Area
                    CICS/ESA AP Domain
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1989, 2014
FUNCTION =
     Copybook DFHTDIPS provides structure DFHTDIA.
     DFHTDIA describes the format of Transient Data
     Input Areas (TDIAs) as used by CICS, each TDIA
     consists of a header, the description of which
     follows, and application defined data.
LIFETIME =
     TDIAs are allocated to hold data passed from
     Transient Data for
        EXEC CICS READQ TD QUEUE(...) SET(...)
     TDIAs (if allocated) are freed, at latest, at
     task termination.
     No more than one TDIA is allocated to a task.
STORAGE CLASS =
     TDIAs are allocated from either the USER24 or the
     USER31 task subpool.
LOCATION =
     The TDIA is addressed from TCZIDAA in the TCA.
INNER CONTROL BLOCKS =
     There are no inner control blocks.
NOTES :
 DEPENDENCIES =
     S/370
 RESTRICTIONS =
     There are no restrictions.
 MODULE TYPE =
     Control block definition.
```

Table 603.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHTDIA	Transient Data Input Area
(0)	CHARACTER	16	TDIA_PREFIX	- prefix
(0)	UNSIGNED	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

```
 DESCRIPTIVE NAME = CICS/MVS AP Domain
                    Transient Data Output Area
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1984, 1992
FUNCTION =
     Copybook DFHTDOPS provides structure DFHTDOA.
     DFHTDOA describes the format of Transient Data
     Output Areas (TDOAs) as used by CICS. Each TDOA
     consists of a header, the description of which
     follows, and application defined data.
LIFETIME =
     TDOAs may be allocated to hold data passed to
     Transient Data for
        DFHTD TYPE=PUT,DESTID=...
     however this is not essential.
     TDOAs (if allocated) are freed, at latest, at
     task termination.
STORAGE CLASS =
     TDOAs are allocated from CLASS=TRANSDATA storage,
     i.e. from task local AMODE(24) storage.
LOCATION =
     Application defined.
INNER CONTROL BLOCKS =
     There are no inner control blocks.
NOTES :
 DEPENDENCIES =
     S/370
 RESTRICTIONS =
     There are no restrictions.
 MODULE TYPE =
     Control block definition.
```

Table 604.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHTDOA	Transient Data Output Area
(0)	CHARACTER	8	TDOAPFX1	- storage accounting prefix
(0)	BIT(8)	1	TDOASCI	- class
(1)	BIT(8)	1	TDOASFI	- format
(2)	HALFWORD	2	TDOASAL	- length
(4)	ADDRESS	4	TDOASCA	- chain

Table 604. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8)	CHARACTER	4	TDOAPFX2	- variable record prefix
(8)	HALFWORD	2	TDOAVRL	- LL
(A)	HALFWORD	2	TDOAVBB	- BB
(C)	CHARACTER	*	TDOADBA	- data, length in TDOAVRL

DUTD - Dump domain transaction dump statistics

```
CONTROL BLOCK NAME = DFHTDRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHTDRPS
DESCRIPTIVE NAME = CICS TS Dump Domain Transaction Dump Stats
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1987, 1991
FUNCTION = A record containing Dump Domain Transaction Dump Stats
           (By dumpcode)
       This DSECT describes the statistics produced by the Dump
       Domain for each transaction dumpcode. There will be one
       instance of the data for each dumpcode for which statistics
       were requested.
       The data consists of a header plus a block of statistics
       for the Dump domain.
LIFETIME = Created when the Dump Domain is initialised and
           exists for the lifetime of the Dump Domain.
STORAGE CLASS =
LOCATION = User is passed a pointer to the storage
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
    DATA AREAS = None
    CONTROL BLOCKS = In Dump Domain
    GLOBAL VARIABLES (Macro pass) = None
-------------------------------------------------------------------
```

Table 605.

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
(0)	.1.1 .1.1		TDRIDE	"85" Transaction dump stats id mask
(2)	ADDRESS	2	TDRID	transaction dump stats id
(2)	1		TDRVERS	"X'01'" DSECT version number
(4)	CHARACTER	1	TDRDVERS	Domain data format version number
(5)	CHARACTER	3		Filler

Table 605. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	...1 11..		TDREND	"*"
(18)	...1 11..		TDRCLEN	"*-TDRLEN" Length

TDST - Transient data static storage

```
 DESCRIPTIVE NAME = Transient Data Static Storage.
                    %PRODUCT AP Domain
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1982, 2015
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 606.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	216	DFHTDST	
(0)	CHARACTER	16	TDST_PREFIX	prefix
(0)	HALFWORD	2	TDST_LENGTH	- length
(2)	CHARACTER	1	TDST_ARROW	- value - '>'
(3)	CHARACTER	3	TDST_DFH	- value - 'DFH'
(6)	CHARACTER	2	TDST_DOMID	- value - 'TD'
(8)	CHARACTER	8	TDST_BLOCK	- value - 'TDST '
(10)	CHARACTER	16	TDST_ENTRIES	entry points

Table 606. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10)	ADDRESS	4	TDST_TDANA	- TDA - extrapartition ...
(14)	ADDRESS	4	TDST_TDBNA	- TDB - intrapartition
(18)	ADDRESS	4	TDST_TDRM	- TD recovery manager
(1C)	ADDRESS	4	TDST_EXITLIST	- TD exitlist R30208A
(20)	CHARACTER	64	TDST_ETOKENS	subpool tokens
(20)	CHARACTER	8	TDST_G31	- general use - AMODE 31
(28)	CHARACTER	8	TDST_SDS	- real SDSCI - AMODE 24 - 4 DCTE types - AMODE 31
(30)	CHARACTER	8	TDST_EXTRA_DCTE_STG_ SUBPOOL	
(38)	CHARACTER	8	TDST_INTRA_DCTE_STG_ SUBPOOL	
(40)	CHARACTER	8	TDST_INDIR_DCTE_STG_ SUBPOOL	
(48)	CHARACTER	8	TDST_REMOTE_DCTE_ STG_SUBPOOL	
(50)	CHARACTER	8	TDST_IOB	- specific use - I/O buffers
(58)	CHARACTER	8	TDST_WCB	- specific use - MWCB pool
(60)	CHARACTER	16	TDST_GENBLKS	general control blocks
(60)	ADDRESS	4	TDST_MBCA_P	- A(buffer common area)
(64)	ADDRESS	4	TDST_MRCA_P	- A(string common area)
(68)	ADDRESS	4	*	- reserved
(6C)	ADDRESS	4	*	- reserved
(70)	CHARACTER	16	TDST_SPEBLKS	specific control blocks
(70)	ADDRESS	4	TDST_CXRF_P	- A(DCTE for CXRF)
(74)	ADDRESS	4	*	- reserved
(78)	ADDRESS	4	*	- reserved
(7C)	ADDRESS	4	*	- reserved
(80)	CHARACTER	4	TDST_STATUS	TD status
(80)	CHARACTER	1	TDSTFLG0	- DCT contains ...
(80)	1...		TDSTNTRA	- intrapartition
(80)	.1..		TDSTLREC	- logical recovery
(80)	..1.		TDSTPREC	- physical recovery
(80)	...1		*	- reserved
(80)	.... 1...		TDSTXTRA	- extrapartition
(80)	.... .1..		TDSTOPIN	- OPEN=INITIAL
(80)	.... ..1.		TDSTNDIR	- indirect
(80)	1		TDSTUSER	- entries that need Add_User *
(81)	CHARACTER	1	TDSTFLG1	- TD start up is ...
(81)	1...		TDSTCOLD	- cold
(81)	.1..		TDSTWARM	- warm

Table 606. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(81)	..1.		TDSTEMER	- emergency
(81)	...1		TDSTINOP	- DFHINTRA opened
(81)	.... 1...		TDST_CLOSED_FOR_REC	TD closed, warm keypointing
(81)	.... .1..		TDST_COLD_IN_PROGRESS	cold start in progress
(81)	.... ..1.		TDST_CLEAR_INTRA_ QUEUES	DCT=EMPTY reqd
(81)	1		TDFULLMSG	- TD0245 issued ?
(82)	CHARACTER	1	TDSTFLG2	
(82)	1111 111.		*	- reserved
(82)	1		TD0247MSG	- TD0247 issued ?
(83)	CHARACTER	1	TDSTFLG3	- reserved
(83)	BIT(8)	1	*	- reserved
(84)	CHARACTER	16	TDST_TD_INIT	TD initialization
(84)	CHARACTER	4	TDST_ECB	- ECB
(84)	1...		TDST_DCT_INST	- All DCTs installed
(84)	.1..		TDST_POST	- (CICS) wait/post bit
(84)	BIT(22) POS(3)	3	*	
(87)	CHARACTER	1	TDST_RESP	- return code
(87)	1...		TDST_RESP_DISASTER	- disaster
(87)	.1..		TDST_RESP_INVALID	- invalid
(87)	..1.		TDST_RESP_EXCEPTION	- exception
(87)	...1 1111		*	- reserved
(88)	CHARACTER	12	TDST_SRC	- suspended request chain
(88)	ADDRESS	4	TDST_TCA_P	- A(owning TCA) or 0
(8C)	ADDRESS	4	TDST_MWCB_P	- A(first MWCB) or 0
(90)	CHARACTER	4	*	- remove info PLX msg
(94)	CHARACTER	44	TDST_RECOVERY_DATA	Data aassociated with RM
(94)	CHARACTER	8	TDST_TDUA_STG_SUBPOOL	Stg subpool token
(9C)	CHARACTER	8	TDST_TDQUB_STG_ SUBPOOL	Stg subpool token
(A4)	CHARACTER	8	TDST_TDCUB_STG_ SUBPOOL	Stg subpool token
(AC)	CHARACTER	8	*	TDUA chain head
(AC)	ADDRESS	4	TDST_TDUA_FIRST	First TDUA
(B0)	ADDRESS	4	TDST_TDUA_LAST	Last TDUA
(B4)	ADDRESS	4	TDST_NQ_POOL_TOKEN	NQ pool token
(B8)	CHARACTER	8	TDST_LAST_CLEAR_TIME	Last time DCT=xx, EMPTY was specified
(C0)	CHARACTER	4	TDST_LM_TOKEN	Lock manager token
(C4)	CHARACTER	4	TDST_DIRECTORY_TOKEN	Dir Manager token
(C8)	FULLWORD	4	TDST_DCTE_INDIRECTS	Indirect DCTEs count
(CC)	ADDRESS	4	TDST_QR_TCB	Address QR TCB

Table 606. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(D0)	CHARACTER	4	TDST_INTRA_LM_TOKEN	INTRA LM token
(D4)	CHARACTER	4	*	For alignment
(D8)	CHARACTER	0	*	

TDUE - Transient data EXEC Parameter List

```
CONTROL BLOCK NAME = DFHTDUEC
DESCRIPTIVE NAME = CICS TS EXEC argument list for Transient
                             Data user exits.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1992, 1993
   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 607.

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 607. (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 608.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	TD_EID	
(0)	CHARACTER	1	TD_GROUP	'08'X for TD
(1)	CHARACTER	1	TD_FUNCT	'02'X for WRITEQ
'04'X for READQ '06'X for DELETEQ --- The existence bits (TD_BITS1) specify the parameters that are valid for this command. For example, TD_EXIST7 set on indicates that TD_ADDR7 is valid, meaning that it addresses a SYSID value. TD_ADDR0 is always valid and has no existence bit. TD_EXIST3 may be modified by a user exit program invoked for a READQ command with the SET option. TD_EXIST7 may be modified by a user exit program invoked for any TD request. None of the other bits may be modified. ---				
(2)	BIT(8)	1	TD_BITS1	
(2)	1...		TD_EXIST1	
(2)	1...		TD_QUEUE_V	
(2)	1...		TD_WRITEQ_QUEUE_V	
(2)	1...		TD_READQ_QUEUE_V	
(2)	1...		TD_DELETEQ_QUEUE_V	
(2)	.1..		TD_EXIST2	
(2)	.1..		TD_WRITEQ_FROM_V	
(2)	.1..		TD_READQ_SET_INTO_V	
(2)	..1.		TD_EXIST3	
(2)	..1.		TD_LENGTH_V	
(2)	..1.		TD_WRITEQ_LENGTH_V	
(2)	..1.		TD_READQ_LENGTH_V	
(2)	...1 11..		*	Reserved
(2)	.... ..1.		TD_EXIST7	
(2)	.... ..1.		TD_SYSID_V	
(2)	.... ..1.		TD_WRITEQ_SYSID_V	
(2)	.... ..1.		TD_READQ_SYSID_V	
(2)	.... ..1.		TD_DELETEQ_SYSID_V	
(2)	1		*	Reserved

Table 608. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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. ----------				
(5)	BIT(8)	1	TD_EIDOPT5	
(5)	1111 111.		*	Reserved
(5)	1		TD_READQ_SET_X	SET specified.
(6)	BIT(8)	1	TD_EIDOPT6	
(6)	BIT(8)	1	*	Reserved
(7)	BIT(8)	1	TD_EIDOPT7	
(7)	11..		*	Reserved
(7)	..1.		TD_READQ_NOSUSPEND_X	NOSUSPEND specified.
(7)	...1 1111		*	Reserved

```
The following definitions are for the rest of the arguments in
the EXEC parameter list, addressed by TD_ADDR1 - TD_ADDR7 in
TD_ADDR_LIST.
```

Table 609.

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 610.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	TD_DATA2	
(0)	ADDRESS	4	TD_READQ_SET	the SET address
(0)	CHARACTER	*	TD_READQ_INTO	the INTO area
(0)	CHARACTER	*	TD_WRITEQ_FROM	the FROM area

Table 611.

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 612.

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 613.

Len	Type	Value	Name	Description
Equate for TD_GROUP. All Transient Data requests have group code '08'				
1	HEX	08	TD_TRANDATA_GROUP	
Equates for TD_FUNCT values.				
1	HEX	02	TD_WRITEQ	Writeq
1	HEX	04	TD_READQ	Readq
1	HEX	06	TD_DELETEQ	Deleteq
Start of General Use Programming Interface. Equates for EIBRCODE values used by Transient Data.				
1	HEX	00	TD_OK_EIBRCODE	
1	HEX	01	TD_QZERO_EIBRCODE	
1	HEX	02	TD_QIDERR_EIBRCODE	
1	HEX	04	TD_IOERR_EIBRCODE	
1	HEX	08	TD_NOTOPEN_EIBRCODE	
1	HEX	10	TD_NOSPACE_EIBRCODE	
1	HEX	C0	TD_QBUSY_EIBRCODE	
1	HEX	D0	TD_SYSIDERR_EIBRCODE	
1	HEX	D1	TD_ISCINVREQ_EIBRCODE	
1	HEX	D6	TD_NOTAUTH_EIBRCODE	
1	HEX	D7	TD_DISABLED_EIBRCODE	
1	HEX	E0	TD_INVREQ_EIBRCODE	
1	HEX	E1	TD_LENGERR_EIBRCODE	
Equates for EIBRESP values used by Transient Data.				
1	DECIMAL	0	TD_OK_EIBRESP	
1	DECIMAL	23	TD_QZERO_EIBRESP	
1	DECIMAL	44	TD_QIDERR_EIBRESP	
1	DECIMAL	17	TD_IOERR_EIBRESP	
1	DECIMAL	19	TD_NOTOPEN_EIBRESP	
1	DECIMAL	18	TD_NOSPACE_EIBRESP	
1	DECIMAL	25	TD_QBUSY_EIBRESP	

Table 613. (continued)

Len	Type	Value	Name	Description
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 TS TEP commarea mapper and descriptor
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1989
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 614.

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				

Table 614. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	1...		LINEOS	"X'80'" Line out of service
(E)	.1..		NONPRGT	"X'40'" Non purgable task
(E)	..1.		TERMOS	"X'20'" Terminal out of service
(E)	...1		ABENDT	"X'10'" Abend transaction
(E)	.... 1...		ABORTWR	"X'08'" Abort write
(E)	.... .1..		RELTTIOA	"X'04'" Release TIOA
(E)	.... ..1.		SIGNOFF	"X'02'" Sign off terminal
Useful information. The fields below may be of use to the TEP or TET. All of the following fields are read only.				
(F)	CHARACTER	4	TEPCATID	Terminal ID
(14)	FULLWORD	4	TEPCATDB	Current time of day binary
(14)	...1 1...		TEPCADLN	"*-TEPCALDS" Length of this DSECT

TIE - Task interface element

```
CONTROL BLOCK NAME = DFHTIEPS
DESCRIPTIVE NAME = CICS TS Task Interface Element
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1994, 2010
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 615.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	128	DFHTIEDS	
(0)	CHARACTER	16	TIE_PREFIX	Standard Prefix
(0)	HALFWORD	2	TIE_LEN	Length (inc. work area)
(2)	CHARACTER	14	TIE_EYE	Eyecatcher
(2)	CHARACTER	6	TIE_EYE1	'>TIE--'
(8)	CHARACTER	8	TIE_EYE2	Resource Manager name
(10)	ADDRESS	4	TIECHNA	Addr next TIE on TCA chain
(14)	ADDRESS	4	TIEUTCA	Addr of our TCA (user TCA)
(18)	ADDRESS	4	TIETRUEP	Addr of current UEPAR plist for TRUE - for dump's use
(1C)	ADDRESS	4	TIESECBLK	Addr user security block
(20)	BIT(8)	1	TIESECFLG	Security flags
(20)	1...		TIENOSEC	Security inactive
(20)	.1..		*	Reserved
(20)	..1.		TIESEC	Security active for system
(20)	...1 1111		*	Reserved
(21)	BIT(8)	1	TIEEISFG	EIS settings for the TRUE
(21)	1...		TIEVALID	TIEEISFG settings are valid
(21)	.1..		TIEDAT31	True has DATALOCATION(ANY)
(21)	..1.		TIECEDFY	True has CEDF(YES)
(21)	...1		TIECICS	True has tdatakey(CICS)
(21)	 1111		*	Reserved
(22)	BIT(8)	1	TIETRACE	Trace flags for TRUE
(22)	1...		TIETRLV1	RMI level 1 trace active
(22)	.1..		TIETRLV2	RMI level 2 trace active
(22)	..11 1111		*	Reserved
(23)	BIT(8)	1	*	Reserved

Table 615. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(24)	UNSIGNED	4	TIEPBTOK	WLM PB token
(28)	FULLWORD	4	TIERCNT	TRUE recursion count
(2C)	ADDRESS	4	TIEEPAD	Addr of EIP transfer vector
Recovery Section of TIE. These fields are shared between DFHERM and DFHERMSP which is the RMI syncpoint processor called by Recovery Manager Domain				
(30)	CHARACTER	68	TIERECOV	Recovery section of TIE
(30)	CHARACTER	8	TIERTKN	Current UOW id
(38)	CHARACTER	27	TIE62UOW	Network wide (LU 6.2) UOWID
(53)	CHARACTER	1	*	filler to word align
(54)	CHARACTER	8	TIEEPN	Resource Manager name
(5C)	CHARACTER	8	TIERMQUA	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
(6C)	1...		TIEADDLK	RMLN ADD_LINK issued
(6C)	.1..		TIERNEC	Recovery(necessary) set
(6C)	..1.		TIESINGU	Single_updater(yes) set
(6C)	...1		TIESETTK	Set work token issued
(6C)	.... 1...		TIESETHR	Set heurism(yes) issued
(6C)	.... .1..		TIESETLI	SET_LINK LINK_ID issued
(6C)	.... ..1.		TIETRABD	True has abended
(6C)	1		TIENOLNK	Add_link too late
(6D)	BIT(8)	1	TIESYNCP	TRUE's syncpoint parms
(6D)	1...		TIESUPDR	TRUE understands single.. updater protocol
(6D)	.1..		TIEREADO	TRUE understands read-only protocol
(6D)	..11 1111		*	Reserved
(6E)	BIT(16)	2	*	Reserved
TIEFLAGS is the target of UEPFLAGS during RMI execution. It is initialised from the TRUE's interest profile in the EPB (EPBFLAGS). The first byte of TIEFLAGS is reserved for CICS/VS 1.5 compatibility.				
(70)	BIT(32)	4	TIEFLAGS	TRUE interest profile
(70)	BIT(8)	1	TIEFLAG0	Byte 0
(71)	BIT(8)	1	TIEFLAG1	Byte 1
(72)	BIT(8)	1	TIEFLAG2	Byte 2
(72)	111.		*	
(72)	...1		TIEMFEDF	Interest in EDF
(72)	.... 1...		*	

Table 615. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(72)	.... .1..		TIEMCTER	Interest in shutdown
(72)	.... ..1.		*	
(72)	1		TIEMTASK	Interest in task start/end
(73)	BIT(8)	1	TIEFLAG3	Byte 3
(73)	111.		*	
(73)	...1		TIEMSYNC	Interest in Syncpoint
(73)	.... 1...		TIEMRORM	Avoid unshunting
(73)	.... .1..		TIEMAPPL	Interest in API calls
(73)	.... ..1.		TIEMSPI	Interest in SPI calls
(73)	1		*	
End of Recovery Section				
(74)	HALFWORD	2	TIEGAL	Global work area length
(76)	HALFWORD	2	TIETAL	Task Local work area length
(78)	ADDRESS	4	TIEFREE	Free TIE forward chain
NOTE: The offset of TIELWAA must not be changed.				
(7C)	ADDRESS	4	TIELWAA	Address of LWA
End of the task Interface Element				
(80)	CHARACTER	0	TIEENDA	End of TIE
Start of TRUE's Task Local Work Area (if one exists)				
(80)	CHARACTER	0	TIELWA	Start of TRUE's work area - must be doubleword aligned.

Constants

Table 616.

Len	Type	Value	Name	Description
RMI Trace points DFHERMSP				
2	HEX	2500	ERMSP_ENTRY	ERMSP entry
2	HEX	2501	ERMSP_EXIT	ERMSP exit
2	HEX	2502	ERMSP_INV_FORMAT	Invalid format
2	HEX	2503	ERMSP_INV_RMRO_ FUNCTION	
				Invalid rmro function
2	HEX	2504	ERMSP_INV_RMLK_ FUNCTION	
				Invalid rmlk function
2	HEX	2505	ERMSP_RECOVERY	Recovery routine entered
2	HEX	2506	ERMSP_RMWTI_SET_FAIL	SET WORK_TOKEN from ERMSP has failed
2	HEX	2507	ERMSP_RMUWM_INQ_UOW_ FAIL	

Table 616. (continued)

Len	Type	Value	Name	Description
				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
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

Table 616. (continued)

Len	Type	Value	Name	Description
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
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	

Table 616. (continued)

Len	Type	Value	Name	Description
				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
2	HEX	2572	ERMRS_RMLN_SET_MARK_ FAIL	
				RMLN set mark from ERMRS failed
2	HEX	2573	ERMRS_XMAT_ATTACH_FAIL	
				attach from ERMRS has failed

TIOA - Terminal input/output area

```
 DESCRIPTIVE NAME = CICS TS TERMINAL INPUT/OUTPUT AREA
                    DUAL LANGUAGE DSECT
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1993, 2014
FUNCTION = DEFINES THE TERMINAL INPUT/OUTPUT AREA
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = 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 617.

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
(2)	UNSIGNED	2	TIOASAL	STORAGE ACCOUNTING AREA LENGTH
(4)	ADDRESS	4	TIOASCA	CHAIN ADDRESS OF NEXT TERMINAL STORAGE ENTRY FOR THIS TASK
(8)	HALFWORD	2	TIOATDL	TERMINAL DATA LENGTH
(A)	BIT(8)	1	TIOAWCI	WRITE CONTROL INDICATOR
(B)	CHARACTER	1	TIOACLCR	WCC OR CCC CHARACTER
(B)	BIT(8)	1	TIOALAC	LINE ADDRESS CONTROL
(C)	CHARACTER	0	TIOADBA	TERMINAL DATA BEGIN ADDRESS

TMELD - Table Manager Read Lock Block

```
CONTROL BLOCK NAME = DFHTMELD
NAME OF MATCHING PLS CONTROL BLOCK = LBSEG,LBLOCK SLOT (in DFHTMPPS)
DESCRIPTIVE NAME = CICS TS - Table Management Read Lock Block.
FUNCTION =
 The table management read lock block consists of a set of read
 locks and a count of locks assigned, on primary directory entries.
 Each time a task uses a locate function, a read lock on the
 primary directory entry, corresponding to the table entry found,
 is created by the locate function. A directory entry which has a
 read lock(s) can not be modified until the lock(s) is(are)
 released. Read locks are released at task termination or on
 specific request.
LIFETIME =
 The initial read lock block is allocated at AP domain transaction
 initialization, and release in AP domain transaction termination
 and so a lock block is part of the AP transaction 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 618.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHTMELD	,
(0)	ADDRESS	4	TMELPTR	POINTER TO NEXT BLOCK
(4)	ADDRESS	4	TMENUMRL	NUMBER OF LOCK SLOTS IN BLOCK
(4)	.... 1...		TMELKSTR	"*" START OF LOCK SLOTS
(8)	ADDRESS	4	TMELOCKG (2)	TABLE MANAGER LOCK
(10)	ADDRESS	4	TMELOCKF (2)	TABLE MANAGER LOCK
(18)	ADDRESS	4	TMELOCKE (2)	TABLE MANAGER LOCK
(20)	ADDRESS	4	TMELOCKD (2)	TABLE MANAGER LOCK
(28)	ADDRESS	4	TMELOCKC (2)	TABLE MANAGER LOCK
(30)	ADDRESS	4	TMELOCKB (2)	TABLE MANAGER LOCK
(38)	ADDRESS	4	TMELOCKA (2)	TABLE MANAGER LOCK
(40)	ADDRESS	4	TMELOCK9 (2)	TABLE MANAGER LOCK
(48)	ADDRESS	4	TMELOCK8 (2)	TABLE MANAGER LOCK
(50)	ADDRESS	4	TMELOCK7 (2)	TABLE MANAGER LOCK
(58)	ADDRESS	4	TMELOCK6 (2)	TABLE MANAGER LOCK
(60)	ADDRESS	4	TMELOCK5 (2)	TABLE MANAGER LOCK
(68)	ADDRESS	4	TMELOCK4 (2)	TABLE MANAGER LOCK
(70)	ADDRESS	4	TMELOCK3 (2)	TABLE MANAGER LOCK
(78)	ADDRESS	4	TMELOCK2 (2)	TABLE MANAGER LOCK
(80)	ADDRESS	4	TMELOCK1 (2)	TABLE MANAGER LOCK
(80)	1... 1...		TMELKEND	"*" END OF LOCK SLOTS
(80)	.... 1...		TMELKSIZ	"TMELOCK1-TMELOCK2" SIZE OF ONE LOCK SLOT
(80)	...1		TMENUMSL	"(TMELKEND-TMELKSTR)/TMELKSIZ" NUMBER OF SLOTS ACCORDING TO DSECT
(80)	1... 1...		TMELSIZE	"*-DFHTMELD" SIZE OF READ LOCK BLOCK

TMDEL - Table Manager Directory Element

```
CONTROL BLOCK NAME = DFHTMDEL
DESCRIPTIVE NAME = CICS TS Table Manager Directory Element
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      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1992, 1995
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 619.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DIRELEM	Directory element
Directory element information				
(0)	CHARACTER	28	DIREINFO	Directory element info.
(0)	ADDRESS	4	DIRTEA	Table entry address
(4)	ADDRESS	4	DIRHSCHN	Hash chain
(8)	ADDRESS	4	DIROWCHN	Ownership chain
(C)	ADDRESS	4	DIRPRIME	Ptr. to primary DE.
(10)	ADDRESS	4	DIRGNCHN	Get next chain pointer
(14)	ADDRESS	4	DIRGPCHN	Get previous chain ptr
(18)	UNSIGNED	1	DIRETTC	Table type code
(19)	BIT(8)	1	DIRSTATS	Status of directory entry
(19)	1...		DIRBFREE	Directory entry is free
(19)	.1..		DIRBTEAQ	DE is quiesced
(19)	..1.		DIRBFIXD	Table entry free forbidden
(19)	...1		*	Reserved
(19)	.... 1...		*	Reserved
(19)	.... .1..		*	Reserved

Table 619. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(19)	.... ..1.		DIRBADD	Uncommitted ADD request
(19)	1		DIRBDEL	Uncommitted DELETE request
(1A)	BIT(8)	1	DIRTYPE	Type of entry
(1A)	1...		DIRBPRIM	Primary entry
(1A)	.1..		DIRBALI	Alias entry
(1A)	..1.		DIRBINDX	Index entry
(1A)	...1 1111		*	Reserved
(1B)	BIT(8)	1	*	Reserved
Directory entry key				
(1C)	CHARACTER	*	DIRKEY	Key of this entry

TMDSG - Table Manager Directory Segment

```
CONTROL BLOCK NAME = DFHTMDSG
DESCRIPTIVE NAME = CICS TS Table Manager Directory Segment.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1992
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 620.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DIRSEG	Directory segment
Standard header				
(0)	CHARACTER	16	DIRHDR	Standard header
(0)	HALFWORD	2	DIRLNTH	Total length of table
(2)	CHARACTER	1	DIRARRW	Eye-catcher part 1: >
(3)	CHARACTER	3	DIRDFH	Eye-catcher part 2: DFH
(6)	CHARACTER	2	DIRTM	Eye-catcher part 3: TM
(8)	CHARACTER	8	DIREYEC	Block id: 'DIRSEG '
Directory segment information				
(10)	CHARACTER	8	DIRINFO	Directory segment info.
(10)	ADDRESS	4	DIRSGCHN	Next directory segment ptr.
(14)	HALFWORD	2	*	Reserved
(16)	HALFWORD	2	*	Reserved
(18)	CHARACTER	256	DIRELEMA (*)	Directory elements

TMRQ - Table Manager Parameter List

```
CONTROL BLOCK NAME = DFHTMRQ
DESCRIPTIVE NAME = CICS TS Table Manager Parameter List
    code and working storage for DFHTMP.
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS =
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
  CONTROL BLOCKS =
  GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 621.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	TMRQLIST	
(0)	UNSIGNED	4	TMRQTW1	Trace data
(0)	UNSIGNED	1	TMRQTR	Request type
(1)	BIT(8)	1	TMRQRM	Request modifier
(1)	1...		TMRQRMCM	Commit immediately
(1)	.1..		TMRQRMLL	Local lock operation
(1)	..1.		TMRQRMNC	Do not copy table entry
(1)	...1		TMRQRMNF	Entry storage fixed

Table 621. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	.... 1...		TMRQNOLK	Do not lock entry
(1)	.... .1..		TMRQRMCN	Conditional request
(1)	.... .1..		TMRQRNXB	Get Next Best
(1)	.... ..1.		TMRQRMUL	Getnext unlock
(1)	1		TMRQRMNU	Non-unique entries allowed
(1)	1		TMRQRBTE	Browse token exists
(2)	UNSIGNED	1	TMRQTTC	Table type code
(3)	UNSIGNED	1	TMRQRC	Response code
(4)	ADDRESS	4	TMRQKEYP	Address of key
(4)	HALFWORD	2	TMRQHASH	Initial hash table size
(8)	ADDRESS	4	TMRQATE	Address of table entry
(8)	ADDRESS	4	TMRQRLDA	Address of lock data list
(8)	HALFWORD	2	TMRQKEYL	Key length
(A)	HALFWORD	2	TMRQMLLN	Max average locate length
(C)	ADDRESS	4	TMRQALIP	Address of alias name
(C)	HALFWORD	2	*	Reserved
(E)	UNSIGNED	1	TMRQTTCP	Primary table type
(10)	ADDRESS	4	TMRQBRTK	Address of browse tok
(10)	HALFWORD	2	TMRQTEL	Table entry length
(10)	UNSIGNED	1	TMRULRC	Reason code (Unlock)

Constants

Table 622.

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

Table 622. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	15	TMRQTCNT	TCNT entries
1	DECIMAL	16	TMRQAITM	AITM entries
1	DECIMAL	17	TMRQSNT	SNT entries
1	DECIMAL	18	TMRQTCSE	TCSE entries
1	DECIMAL	19	TMRQTCSR	TCSR entries
1	DECIMAL	20	TMRQTCSI	TCSI entries
1	DECIMAL	21	TMRQTCSN	TCSN entries
1	DECIMAL	22	TMRQTCTR	TCTR entries
1	DECIMAL	23	TMRQTCSM	TCSM entries
1	DECIMAL	24	TMRQTCNR	TCNR entries
Request Byte Values				
1	DECIMAL	1	TMRQLOC	Locate
1	DECIMAL	2	TMRQGTN	Get Next
1	DECIMAL	3	TMRQGNA	Get Next Alias
1	DECIMAL	4	TMRQADD	Add
1	DECIMAL	5	TMRQDEL	Delete
1	DECIMAL	6	TMRQALI	Alias
1	DECIMAL	7	TMRQLOK	Lock
1	DECIMAL	8	TMRQULK	Unlock
1	DECIMAL	9	TMRQCRI	Create index
1	DECIMAL	10	TMRQNDX	Index
1	DECIMAL	11	TMRQQUI	Quiesce
1	DECIMAL	13	TMRQDWE	DWE
1	DECIMAL	14	TMRQRST	Reset
1	DECIMAL	15	TMRQUNQ	Unquiesce
1	DECIMAL	16	TMRQGSK	Get secondary key
Response Code Values				
1	DECIMAL	0	NORMRESP	Normal response
1	DECIMAL	4	NOTFND	Not found
1	DECIMAL	8	DUPFND	Duplicate found
1	DECIMAL	12	INVREQ	Invalid request
1	DECIMAL	16	TEBUSY	Table entry busy
1	DECIMAL	20	PROTECT	Protected entry
1	DECIMAL	24	RLHELD	Read lock held
1	DECIMAL	28	RLNOTED	Read lock noted
1	DECIMAL	32	NORLHELD	No read lock now

TMSKT - Table Manager Scatter Table

```
CONTROL BLOCK NAME = DFHTMSKT
DESCRIPTIVE NAME = CICS TS Table Manager Scatter Table.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1992, 1995
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 623.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	SKTTBLE	Scatter table
Standard header				
(0)	CHARACTER	20	SKTHDR	Standard header
(0)	FULLWORD	4	SKTLNTH	Total length of table
(4)	CHARACTER	1	SKTARRW	Eye-catcher part 1: >
(5)	CHARACTER	3	SKTDFH	Eye-catcher part 2: DFH
(8)	CHARACTER	2	SKTTM	Eye-catcher part 3: TM
(A)	CHARACTER	8	SKTEYEC	Block id: 'SCATTER '
(12)	HALFWORD	2	*	Reserved
Scatter table information				
(14)	CHARACTER	28	SKTINFO	Scatter table information
(14)	BIT(8)	1	SKTFLAG1	Flag byte 1
(14)	1...		SKTNUEA	Non-unique entries allowed
(14)	.111 1111		*	Reserved
(15)	BIT(8)	1	SKTFLAG2	Flag byte 2

Table 623. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(15)	BIT(8)	1	*	Reserved
(16)	UNSIGNED	1	SKTTTC	Table type code
(17)	UNSIGNED	1	SKTTTCP	Table type code for primary
(18)	HALFWORD	2	SKTDELN	Directory entry length
(1A)	HALFWORD	2	SKTKEYLN	Length of key
(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 624.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	SKTRANGES	Range Table
(0)	CHARACTER	8	SKTRNG_HEAD	Buffer to spot errors
(8)	CHARACTER	8	SKTRNGE (*)	Get Next Range Table
(8)	FULLWORD	4	SKTRNG_COUNT	Num of elems in rng-1
(C)	ADDRESS	4	SKTRNG_PTR	Pointer to rng start

TMS - Table Manager Static Storage Area

```
CONTROL BLOCK NAME = DFHTMSSA
DESCRIPTIVE NAME = CICS TS Table Manager Static Storage Area.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1992, 1996
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 625.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1124	TMSTATIC	Static storage for TMP
(0)	BIT(8)	1	*	Reserved
(1)	BIT(16)	2	*	Reserved
(3)	UNSIGNED	1	*	Reserved
(4)	FULLWORD	4	*	Reserved
Table types and position in TMATTV array 1- Reserved 2- Reserved 3- Reserved 4- PFT 5- FCT 6- Reserved 7- TCTE 8- TCTN 9- TCTS 10- AFCT 11- DSN 12- DSNA 13- PRT 14- Reserved 15- TCNT 16- AITM 17- SNT 18- TCSE 19- TCSR 20- TCSI 21- TCSN 22- TCTR 23- TCSM 24- TCNR				
(8)	CHARACTER	32	TMATTV (24)	Array of table info
(8)	ADDRESS	4	TMASKT	Address of scatter table
(C)	HALFWORD	2	TMNDESG	# elements per segment
(E)	HALFWORD	2	*	Reserved
(10)	FULLWORD	4	TMHSIZE	HASH table size
(14)	FULLWORD	4	TMCOUNT	Num. of entries
(18)	FULLWORD	4	TMTRIGR	Trigger value to rehash
(1C)	BIT(16)	2	TMBITS	Miscellaneous flags
(1C)	1...		TMREHASH	Re-hash of table required
(1C)	BIT(15) POS(2)	2	*	Reserved
(1E)	BIT(16)	2	*	Reserved

Table 625. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 (16)	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 (24)	
(460)	ADDRESS	4	TMLOCK_TOKEN	Lock token for TM
(464)	CHARACTER	0	TMSTATLN	Define end of block

TPE - Terminal partition extension

```
 DESCRIPTIVE NAME = CICS TS TERMINAL PARTITION EXTENSION
                    DUAL LANGUAGE DSECT
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1980, 2014
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
 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 626.

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
(2)	1...		*	
(2)	.1..		*	
(2)	..1.		*	
(2)	...1		*	Reserved
(2)	.... 1...		TPEVCHAR	CHARACTER CELL SIZE ON A PARTITION BASIS
(3)	CHARACTER	17	TPEPSETS	NAME FOR TERMINAL SHARING CODE TO SHIP PSET NAMES
(3)	CHARACTER	8	TPECPSET	UNSUFFIXED NAME OF THE CURRENT (OR APPLICATION) PARTITION SET
(3)	CHARACTER	6	TPECPST6	APPL PSET NAME FOR DFHEEI
(9)	CHARACTER	2	*	RESERVED
(B)	CHARACTER	9	TPETPSET	TERMINAL PARTITION SET
(B)	CHARACTER	8	TPELPSET	UNSUFFIXED NAME OF THE LOADED (OR TERMINAL) PARTITION SET ZERO IF TERMINAL IN BASE STATE. BLANK IF TERMINAL STATE IS IN DOUBT
(13)	BIT(8)	1	TPEFLG2	DYNAMIC FLAG BYTE
(13)	1...		TPELPER	TERMINAL PSET HAS AN ERROR MESSAGE PARTITION

TQR - Transient data statistics

```
CONTROL BLOCK NAME = DFHTQRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHTQRPS
DESCRIPTIVE NAME = CICS TS Transient Data Queue Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1995, 2014
       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 627.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHTQRDS	Transient Data Queue statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	TQRLEN	Length of data area
(0)	..1. 1.1.		TQRIDE	"0042" TD Queue resid statistics id mask
(2)	ADDRESS	2	TQRID	TD Queue resid statistics id
(2)	1		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

Table 627. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(25)	BITSTRING	1	TQRWAITA	Indoubt action (reject/queue)
(26)	CHARACTER	2		Reserved
(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
Intrapartition peak number of items in queue				
(BC)	FULLWORD	4	TQRPNITM	Peak no. of items in queue
(BC)	11..		TQREND	"*"
(BC)	11..		TQRCLEN	"*-TQRLEN" Length of dsect
Equates to test TD Queue type (TQRQTYPE).				
(BC)	1		TQRQTEXT	"1" Extrapartition Queue
(BC)	.... ..1.		TQRQTINT	"2" Intrapartition Queue
(BC)	11		TQRQTIND	"3" Indirect Queue
(BC)	.... .1..		TQRQTREM	"4" Remote Queue

Table 627. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
Equates to test TD Facilty type for ATI (TQRFTYPE).				
(BC)	....		TQRFTNA	"0" Not Applicable
(BC)	1		TQRFTTRM	"1" Terminal
(BC)	.... ..1.		TQRFTSYS	"2" System
(BC)	11		TQRFTNTE	"3" No terminal
Equates to test Extrapartition I/O type (TQRIOTYP).				
(BC)	....		TQRIONA	"0" Not Applicable
(BC)	1		TQRIOIN	"1" Input
(BC)	.... ..1.		TQRIOOUT	"2" Output
(BC)	11		TQRIORDB	"3" Readback
Equates to test Recovery type of queue (TQRRTYPE).				
(BC)	....		TQRRTNA	"0" Not Applicable
(BC)	1		TQRRTPH	"1" Physical recoverable
(BC)	.... ..1.		TQRRTLG	"2" Logical recoverable
(BC)	11		TQRRTNR	"3" Non-recoverable
Equates to test indoubt wait option for queue (TQRWAIT).				
(BC)	....		TQRWTNA	"0" Not Applicable
(BC)	1		TQRWTYES	"1" Queue supports indoubt waiting
(BC)	.... ..1.		TQRWTNO	"2" Does not support indoubt waiting
Equates to test indoubt wait action for queue (TQRWAITA).				
(BC)	....		TQRWANA	"0" Not Applicable
(BC)	1		TQRWAREJ	"1" Further requests will be rejected
(BC)	.... ..1.		TQRWAQUE	"2" Further requests will be queued
Equates to test change agent for queue (TQR_CHANGE_AGENT).				
(BC)	1		TQR_CSDAPI_CHANGE	"0001" CSD API
(BC)	.... ..1.		TQR_CSDBATCH_CHANGE	"0002" DFHCSDUP
(BC)	11		TQR_DREPAPI_CHANGE	"0003" DREP API
(BC)	.... .1..		TQR_CREATE_CHANGE	"0004" EXEC CREATE SPI
(BC)	.... .111		TQR_SYSTEM_CHANGE	"0007" SYSTEM
Equates to test install agent for queue (TQR_INSTALL_AGENT).				
(BC)	1		TQR_CSDAPI_INSTALL	"0001" CSD API
(BC)	.... .1..		TQR_CREATE_INSTALL	"0004" EXEC CREATE SPI
(BC)	.... .1.1		TQR_GRPLIST_INSTALL	"0005" GRPLIST
(BC)	.... .111		TQR_SYSTEM_INSTALL	"0007" SYSTEM

TQG - Transient data global statistics

```
CONTROL BLOCK NAME = DFHTQGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHTQGPS
DESCRIPTIVE NAME = CICS TS Global statistics for Transient data.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1995
FUNCTION = This data block describes the global transient data
           Statistics.
           The data described here is placed in storage by DFHAPST.
           This DSECT is also used by DFHSTUP and user programs to
           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 628.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHTQGDS	Transient data statistics (GLOBAL)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	TQGLEN	Length of data area
(0)	..1. 11.1		TQGIDE	"45" Transient data stats id mask

Table 628. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	ADDRESS	2	TQGID	Transient data id
(2)	1		TQGVERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	TQGDVERS	Statistics version number
(5)	CHARACTER	3		Reserved
	Intrapartition Buffer Stats			
(8)	FULLWORD	4	TQGANBFA	Number of Buffers
(C)	FULLWORD	4	TQGAMXIU	Peak containing valid data
(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
(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)	.11. 11..		TQGEND	"*"
(68)	.11. 11..		TQGCLEN	"*-TQGLEN" Length of DSECT

TRA - Trace domain - common structures

```
CONTROL BLOCK NAME = DFHTRA
DESCRIPTIVE NAME = CICS TS Trace Domain - Common structures
                   and constants
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1986, 2014
FUNCTION = Contains the structure for :-
             DFHTRA - TR anchor block
      TR domain Anchor Block storage definition
```

Table 629.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	528	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 (2)	Plist for DFHTRTCB subtask
(20)	UNSIGNED	4	TRA_INTTABSIZE	Internal trace table size
(24)	UNSIGNED	4	TRA_GUARD_SIZE	Size of table guard area
(28)	CHARACTER	16	TRA_TCBTOKEN	IARV64 TCB Token
(38)	CHARACTER	8	TRA_CELL_POOL_64	Trace 64-bit cell pool id
(40)	ADDRESS	8	TRA_INTTAB_PTR	
Address of start of table				
(48)	ADDRESS	8	TRA_ENDTAB_PTR	
1st byte after table				
(50)	ADDRESS	4	TRA_DFHTRAO_PTR	Aux output routines
(54)	ADDRESS	4	TRA_AUX_BUF_PTR	Aux trace buffer address
(58)	ADDRESS	4	TRA_AUX_DCB_PTR	Address of aux trace DCB
(5C)	UNSIGNED	4	TRA_AUX_DCB_LEN	Length of aux trace DCB
(60)	ADDRESS	4	TRA_AUX_DECB_PTR	Address of aux trace DECB
(64)	UNSIGNED	4	TRA_AUX_DECB_LEN	Length of aux trace DECB
(68)	CHARACTER	8	TRA_TIME_BASE	STCK at last local midnight *
(70)	CHARACTER	8	TRA_AUX_EXTENT	Current aux trace extent
(78)	UNSIGNED	1	TRA_AUTOSW_STATUS	Autoswitch status
(79)	UNSIGNED	1	TRA_AUX_STATUS	Auxiliary trace status
(7A)	UNSIGNED	1	TRA_AUX_INIT_STAT	Auxiliary trace initial status *

Table 629. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(7B)	UNSIGNED	1	*	Reserved
(7C)	BIT(32)	4	TRA_STATUS_FLAGS	Status flags
(7C)	1...		TRA_MASTER	Internal copy of master flag *
(7C)	.1..		TRA_INT_STATUS	Internal trace status
(7C)	..1.		TRA_GTF_STATUS	GTF trace status
(7C)	...1		TRA_LOCK_TABLE	Force use of table lock
(7C)	.... 1...		TRA_TRAP_ACTIVE	DFHTRAP active
(7C)	.... .1..		TRA_AUX_FIF	Next block first-in-file
(7C)	.... ..1.		TRA_AUX_EOF	Next block last-in-file
(7C)	1		TRA_AVAILABLE	Trace put available
(7D)	1...		TRA_TERMINATING	Trace domain terminating
(7D)	.1..		TRA_AUX_IO_PENDING	Output to aux pending
(7D)	..1.		TRA_AUX_DCB_DECB_OK	Acquired DCB/DECB initialised *
(7D)	...1		TRA_TRAO_RLSE_REQD	RELEASE DFHTRAO required
(7D)	.... 1...		TRA_PA_IN_CONTROL	Parameter Mgr in control
(7D)	.... .1..		TRA_TRAP_UNUSABLE	DFHTRAP has prog checked
(7D)	.... ..1.		TRA_TRAP_DISABLED	Requested disabled
(7D)	1		TRA_TRAP_INIT_STAT	DFHTRAP initial status
(7E)	1...		TRA_INITIALISING	Trace domain initialising
(7E)	.1..		TRA_AUX_STARTING	Aux trace starting
(7E)	..1.		TRA_RETAIN_AUX_DCB	Retain DCB for future use
(7E)	...1		TRA_FT_ERR_BEFORE	Prevent recurring FT errs
(7E)	BIT(12) POS(5)	2	*	Reserved
(80)	ADDRESS	8	TRA_TRAP_WA_PTR	
DFHTRAP work area pointer				
(88)	ADDRESS	4	TRA_DFHTRAP_PTR	DFHTRAP entry point
(8C)	ADDRESS	4	*	Reserved
(90)	ADDRESS	8	TRA_GTF_BUF_PTR	
Address of GTF buffer				
(98)	UNSIGNED	4	TRA_ATS_ECB	For aux subtask to wait on
(9C)	UNSIGNED	4	TRA_MAIN_ECB	For CICS TCBs to wait on
(A0)	CHARACTER	72	TRA_ATS_REGSAVE	Aux subtask register save
(E8)	UNSIGNED	1	TRA_TRAO_REQ	DFHTRAO request byte
(E9)	UNSIGNED	1	TRA_TRAO_RC	DFHTRAO return code
(EA)	CHARACTER	2	*	Reserved
(EC)	ADDRESS	4	TRA_TRAO_PARMS	TRAO parameter list
(F0)	ADDRESS	8	TRA_TRAO_BPTR	

Table 629. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
TR block to be written				
(F8)	UNSIGNED	4	TRA_AUX_TERMINATE_ECB	Aux tracing terminate ECB
(F8)	1...		TRA_AUX_TERM_ECB_WAIT	WAIT BIT
(F8)	.1..		TRA_AUX_TERM_ECB_POST	POST BIT
(F8)	..11 1111		*	Reserved
(F9)	CHARACTER	3	*	Reserved
(FC)	ADDRESS	4	TRA_ATS_TCB	Aux subtask TCB address
(100)	ADDRESS	4	TRA_SM_ISOLATION_ TOKEN	Isolation token
(104)	CHARACTER	0	TRA_PAD1	Pad to cache boundary
(104)	CHARACTER	252	*	
(200)	CHARACTER	16	TRA_NAB_INFO	Quadword used for space
(200)	ADDRESS	8	TRA_NAB	
Next byte in internal table@L2C				
(208)	UNSIGNED	8	TRA_AVLEN	Available in current block
(210)	CHARACTER	0	*	

Constants

Table 630.

Len	Type	Value	Name	Description
Values for TRA_TRAO_REQ				
1	DECIMAL	1	TRA_TRAO_TERM	
1	DECIMAL	2	TRA_TRAO_OPEN	
1	DECIMAL	3	TRA_TRAO_CLOSE	
1	DECIMAL	4	TRA_TRAO_WRITE	
1	DECIMAL	5	TRA_TRAO_CHECK	
Values for TRA_TRAO_RC				
1	DECIMAL	1	TRA_TRAO_OK	
1	DECIMAL	2	TRA_TRAO_INVALID	
1	DECIMAL	3	TRA_TRAO_OPEN_FAILED	
1	DECIMAL	4	TRA_TRAO_END_OF_EXTENT	
1	DECIMAL	5	TRA_TRAO_AUX_ABEND	
1	DECIMAL	6	TRA_TRAO_AUX_IO_ERROR	
1	DECIMAL	7	TRA_TRAO_DCB_NOT_FOUND	
Values for TRA_INT_STATUS				
0	BIT	1	TRA_INT_STARTED	
0	BIT	0	TRA_INT_STOPPED	
Values for TRA_AUX_STATUS				
1	DECIMAL	1	TRA_AUX_STARTED	

Table 630. (continued)

Len	Type	Value	Name	Description
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 TS Parameter List to DFHTRAP
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        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1984, 1991
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 631.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	120	DFHTRADS	DUMMY SECTION - PLIST TO TRAP

Table 631. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
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)
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

Table 631. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(34)	UNSIGNED	4	TRAD3L	Length of DATA3 information
(38)	ADDRESS	8	TRAD1A_64	64-bit address for DATA1
(40)	UNSIGNED	8	TRAD1L_64	64-bit length for DATA1
(48)	ADDRESS	8	TRAD2A_64	64-bit address for DATA2
(50)	UNSIGNED	8	TRAD2L_64	64-bit length for DATA2
(58)	ADDRESS	8	TRAD3A_64	64-bit address for DATA3
(60)	UNSIGNED	8	TRAD3L_64	64-bit length for DATA3
TRACSAAD - CSA address The address of the CSA or zero. This will only be zero for invocations of DFHTRAP early in initialisation (before the CSA has been set up).				
(68)	ADDRESS	4	TRACSAAD	CSA address
TRATCAAD - TCA address The address of the current TCA or zero. This will be zero when running under other than the quasi-reentrant TCB, or when running under a non-transaction manager type task.				
(6C)	ADDRESS	4	TRATCAAD	TCA address
TRARSAAD - Register save area address The address of the register save area that R13 will point to during the invocation of DFHTRAP.				
(70)	ADDRESS	8	TRARSAAD	RSA address
(78)	CHARACTER	0	TRAEND	Ending address

TRBL - Trace domain - common structures

```
CONTROL BLOCK NAME = DFHTRBL
DESCRIPTIVE NAME = CICS TS Trace Domain - Common structures
                   and constants
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      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1986, 2005
                                  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 632.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4096	DFHTRBL	Trace block
(0)	CHARACTER	32	TRBL_HEADER	Block header
(0)	CHARACTER	20	*	
(0)	CHARACTER	20	TRBL_CHAIN	
(0)	ADDRESS	8	TRBL_FWD	Forward chain
(8)	ADDRESS	8	TRBL_BWD	Backward chain

Table 632. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10)	ADDRESS	4	*	Reserved
(0)	CHARACTER	20	TRBL_AUX	Aux trace header
(0)	CHARACTER	3	TRBL_DATE	Date of trace start
(3)	CHARACTER	8	TRBL_APPLID	Specific APPLID
(B)	CHARACTER	1	TRBL_DATE_FORMAT	Date format
(C)	CHARACTER	8	*	Reserved
(14)	CHARACTER	4	TRBL_FLAGS	Flags - always zero in table
(14)	1...		TRBL_EOF	End-of-file block for aux
(14)	.1..		TRBL_FIF	First-in-file block for aux
(14)	BIT(30) POS(3)	4	*	Reserved
(18)	CHARACTER	8	TRBL_TIME_BASE	STCK at last local midnight
(20)	CHARACTER	4064	TRBL_DATA	Rest of block is data

Constants

Table 633.

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
 NAME OF MATCHING ASM CONTROL BLOCK = DFHTREN
 DESCRIPTIVE NAME = CICS trace entry
        Licensed Materials - Property of IBM
         Restricted Materials of IBM
        5655-Y04
        (C) Copyright IBM Corp. 1986, 2017
 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 634.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHTREN	Trace entry
(0)	CHARACTER	40	TREN_HEADER	Standard header
(0)	CHARACTER	2	TREN_MARKER	Eyecatcher '<>'
(2)	UNSIGNED	2	TREN_LEN	Length of entry inc. header
(4)	UNSIGNED	2	TREN_CALLER	Domain id of trace caller
(6)	UNSIGNED	2	TREN_POINTID	ID of trace point in domain
(8)	UNSIGNED	1	TREN_TYPE	Entry type
(8)	1...		*	The Top bits are used
(8)	.1..		*	for the release of the
(8)	..1.		*	trace.
(8)	...1		*	
(8)	.... 1...		*	The Bot Bits are used for
(8)	.... .1..		*	the type. The types are
(8)	.... ..1.		*	listed below.
(8)	1		*	
(9)	BIT(24)	3	TREN_TASK	Transaction manager task num
(C)	UNSIGNED	2	TREN_KE_NUM	Kernel task number
(E)	UNSIGNED	2	TREN_OWNING_DOM	Owning domain for system task
(10)	UNSIGNED	2	TREN_HEADER_LENGTH	Length of this header Offset of TREN_HEADER_LENGTH must not change. Add new header fields after this field
(12)	CHARACTER	5	TREN_TCB_ID	TCB ID
(17)	UNSIGNED	1	TREN_CPU_TYPE	CPU (CP, zAAP, zIIP)
(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 635.

Len	Type	Value	Name	Description
``` == Tren type constants. The Top Bits of TREN_TYPE will be used for the release. X'F?' equals R710 X'E?' equals R700 X'D?' equals R690 X'C?' equals R680 X'B?' equals R670 X'A?' equals R660 X'9?' equals R650 X'8?' equals R640 X'7?' equals R630 X'6?' equals R620 X'5?' equals R610 X'4?' equals R530 X'3?' equals R520 X'2?' equals R510 X'1?' equals R410 X'0?' equals R330 and below The Bottom Bits of TREN_TYPE will be used for the trace type. The types below will need to be updated for release. For example, the release after 5.1.0 will have the top bits set like this '2?'X. A new release field will also be added to the bottom. If a new TREN_TYPE is added, be sure to change GTF_TYPE_NUM in DFHTRFCA. == ```				
1	HEX	F0	TREN_TYPE_NORMAL	
1	HEX	FE	TREN_TYPE_LE_PIPI_EXIT	
1	HEX	FD	TREN_TYPE_RRS_CALL	
1	HEX	FC	TREN_TYPE_RRMS_EXIT	
1	HEX	FB	TREN_TYPE_DB2_SUBTASK	
1	HEX	FA	TREN_TYPE_DBCTL_ RESUME_EXIT	
1	HEX	F9	TREN_TYPE_RLS_QUIESCE_ EXIT	
1	HEX	F8	TREN_TYPE_EXCI	
1	HEX	F7	TREN_TYPE_LERADSYNAD_ HPO	
1	HEX	F6	TREN_TYPE_VTAM_EXIT_ HPO	
1	HEX	F5	TREN_TYPE_TP_END	
1	HEX	F4	TREN_TYPE_LERAD_SYNAD	
1	HEX	F3	TREN_TYPE_VTAM_EXIT	
1	HEX	F2	TREN_TYPE_MONITORING	
1	HEX	F1	TREN_TYPE_SDUMP_EXIT	
1	HEX	F0	TREN_TYPE_R710	
1	HEX	E0	TREN_TYPE_R700	
1	HEX	D0	TREN_TYPE_R690	
1	HEX	C0	TREN_TYPE_R680	

Table 635. (continued)

Len	Type	Value	Name	Description
1	HEX	B0	TREN_TYPE_R670	
1	HEX	A0	TREN_TYPE_R660	
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 636.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2616	DFHTRFCA	Trace formatting control area
Common data				
(0)	ADDRESS	4	TRFCA_PL_PTR	TRF_PRINT_LINE routine addr
(4)	ADDRESS	4	TRFCA_PBUF_PTR	132 character print buffer
(8)	UNSIGNED	4	TRFCA_ENTRY_COUNT	Count of entries processed
(C)	UNSIGNED	4	TRFCA_PRINT_COUNT	Count of entries printed
Parameters for DFHTRFPP				
(10)	ADDRESS	4	TRFCA_PARM_PTR	-> selective print parms
(14)	UNSIGNED	4	TRFCA_PARM_LEN	Length of print parms
(18)	ADDRESS	4	TRFCA_BUFF_PTR	-> TRFPP (4096n)byte buffer
The encoded form of the selective print parameters passed to DFHTUxxx or AMDUSREF.				
(1C)	CHARACTER	4	TRFCA_SEL_PRINT_FLAGS	Selective print flags
(1C)	1...		TRFCA_SEL_ACTIVE	Selection active ?
(1C)	.1..		TRFCA_TRFPP_INIT	DFHTRFPP initialisation flag
(1C)	..1.		TRFCA_PARM_ERR	Error in parameters
(1C)	...1		TRFCA_NOT_SELECTED	Trace not selected
(1C)	BIT(28) POS(5)	4	*	Reserved
(20)	ADDRESS	4	TRFCA_TERMLIST_PTR	Encoded TERMID list
(24)	ADDRESS	4	TRFCA_TERMTASK_PTR	Tasks at selected TERMIDs

Table 636. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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	*	
(62)	1...		TRFCA_TT510_LOAD_ FAILED	DFHTT510 not found
(62)	.1..		TRFCA_TT520_LOAD_ FAILED	DFHTT520 not found
(62)	..1.		TRFCA_TT530_LOAD_ FAILED	DFHTT530 not found
(62)	...1		TRFCA_TT610_LOAD_ FAILED	DFHTT610 not found
(62)	.... 1...		TRFCA_TT620_LOAD_ FAILED	DFHTT620 not found
(62)	.... .1..		TRFCA_TT630_LOAD_ FAILED	DFHTT630 not found
(62)	.... ..1.		TRFCA_TT640_LOAD_ FAILED	DFHTT640 not found
(62)	1		TRFCA_TT650_LOAD_ FAILED	DFHTT650 not found
(63)	CHARACTER	1	*	now used
(63)	1...		TRFCA_TT660_LOAD_ FAILED	DFHTT660 not found
(63)	.1..		TRFCA_TT670_LOAD_ FAILED	DFHTT670 not found
(63)	..1.		TRFCA_TT680_LOAD_ FAILED	DFHTT680 not found
(63)	...1		TRFCA_TT690_LOAD_ FAILED	DFHTT690 not found
(63)	.... 1...		TRFCA_TT700_LOAD_ FAILED	DFHTT700 not found
(63)	.... .1..		TRFCA_TT710_LOAD_ FAILED	DFHTT710 not found
(63)	11		*	Reserved
(64)	ADDRESS	4	*	PTR to CDURUN
(68)	ADDRESS	4	TRFCA_TT710_PTR	PTR to CDURUN 7.1
Storage used by DFHTRDUF and DFHTRFFE for the trace summary table.				

Table 636. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6C)	ADDRESS	4	TRFCA_SUMMARY_TABLE_ ADDRESS	
(70)	CHARACTER	20	TRFCA_LAST_ENTRY_TIME	Last trace time
(84)	CHARACTER	8	TRFCA_FIRST_ENTRY_ STCK	First trace STCK
`#Unused# area - New fields may be added here but offsets of of existing fields must be maintained`				
(8C)	CHARACTER	12	*	Available
(98)	UNSIGNED	4	TRFCA_LAST_BLOCKS	Blks to print from en
(9C)	CHARACTER	3	*	Reserved
(9F)	UNSIGNED	1	TRFCA_DAY	Day number
(A0)	UNSIGNED	1	TRFCA_MON	Month number
(A1)	UNSIGNED	1	TRFCA_YER	Year number
(A2)	UNSIGNED	1	TRFCA_PREV_HOURS	Hours in prev entry
(A3)	CHARACTER	1	TRFCA_DATE_FORMAT	Format of TRFCA_DATE
(A4)	ADDRESS	4	TRFCA_TCBIDLST_PTR	Encoded TCBID list
(A8)	ADDRESS	4	TRFCA_TCBADLST_PTR	Encoded TCBADDR list
`Storage used by TRFPRL - the print line routine`				
(AC)	CHARACTER	4	*	Flag word
(AC)	1...		TRFCA_SPACE	Space after print
(AC)	.1..		TRFCA_NEW_DAY	Midnight just happened
(AC)	BIT(30) POS(3)	4	*	Reserved
(B0)	ADDRESS	4	TRFCA_DUFSTG_PTR	DUF_STG ptr for DFHTRDUF
(B0)	ADDRESS	4	TRFCA_ABDPL_PTR	ABDPL ptr for AMDUSREF
(B4)	ADDRESS	4	TRFCA_PRDCB_PTR	Print DCB
(B8)	FULLWORD	4	TRFCA_PAGE_COUNT	Page count
(BC)	FULLWORD	4	TRFCA_LINE_COUNT	Line count
(C0)	FULLWORD	4	TRFCA_PAGE_SIZE	Number of lines/page
`Interpretation area and control fields`				
(C4)	ADDRESS	4	TRFCA_CDED_TOKEN	Translation routine token
(C8)	ADDRESS	4	TRFCA_IA_NAB	Next byte in interp area
(CC)	UNSIGNED	4	TRFCA_IA_LEN_LEFT	Length left in interp area
(D0)	CHARACTER	1024	TRFCA_IA	Interpretation area
`Warning the offset of the DFHTRIP must not change compatability with releases 3.3 and above this is for GTF multiple release. PARAMETERS FOR DFHXXTRI, MAPPED BY DFHTRIP. THE DATA FIELD ADDRESSES AND LENGTHS USED BY DFHTRFFD.`				
(4D0)	CHARACTER	300	TRFCA_TRIP	MUST MATCH DFHTRIP
(4D0)	CHARACTER	140	TRIP_CICS_WORKAREA	
(4D0)	ADDRESS	4	TRIP_FCA_PTR	
(4D4)	UNSIGNED	2	TRIP_POINTID	

Table 636. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 (8)	
(4F8)	CHARACTER	28	*	
(514)	FULLWORD	4	TRIP_FIELD_N (8)	
(534)	CHARACTER	28	*	
(550)	CHARACTER	12	TRIP_TRIB_PLIST	
(550)	ADDRESS	4	TRIP_DATA_P	
(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 (6)	
(588)	CHARACTER	8	TRFTW_FORMATTING_ NAME (6)	
(5B8)	CHARACTER	4	*	
(5BC)	CHARACTER	32	TRFTW_WIPE_AREA	
(5BC)	UNSIGNED	1	TRFTW_TRACE_TYPE	
(5BD)	BIT(8)	1	TRFTW_FLAGS	
(5BD)	1...		TRFTW_INTERPRETATION	
(5BD)	.1..		TRFTW_LOAD_FAILED	
(5BD)	..1.		TRFTW_NO_NAME	
(5BD)	...1		TRFTW_FEATURE_ABEND	
(5BD)	.... 1...		TRFTW_INT_OVERFLOW	
(5BD)	.... .111		*	
(5BE)	UNSIGNED	2	TRFTW_LEN_LEFT	
(5C0)	ADDRESS	4	TRFTW_NAB	
(5C4)	ADDRESS	4	TRFTW_DFHTRIB_ADDRESS	
(5C8)	ADDRESS	4	TRFTW_CDPFTAB_ADDRESS	
(5CC)	CHARACTER	8	TRFTW_MODULE_NAME	
(5D4)	CHARACTER	8	*	

Table 636. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5DC)	CHARACTER	32	*	
(5FC)	CHARACTER	188	*	UNUSED
(6B8)	CHARACTER	24	*	Unused
Various flags				
(6D0)	CHARACTER	4	*	
(6D0)	1...		TRFCA_INT_OVERFLOW	Interpretation overflow
(6D0)	.1..		TRFCA_EXTRA_LINE	Extra jobname line
(6D0)	..1.		TRFCA_FULL_ABBREV	For compablity
(6D0)	...1		TRFCA_LAST_BLOCK	Last trace blk indicator
(6D0)	.... 1...		TRFCA_GTF_TRACE	Doing a GTF trace
(6D0)	.... .1..		TRFCA_SELECT_ALL	Have requested ALL parms
(6D0)	.... ..1.		TRFCA_UPPERCASE_REQ	Output in uppercase
(6D0)	1		TRFCA_EXCEPTION	Only print exception tr
(6D1)	1...		TRFCA_PDX_TRACE	Doing a system dump tr
(6D1)	.1..		TRFCA_AUX_TRACE	Doing a AUX trace
(6D1)	..1.		TRFCA_FULL_TRACE	Full request
(6D1)	...1		TRFCA_ABBREV_TRACE	Abbreviated request
(6D1)	.... 1...		TRFCA_SHORT_TRACE	Short request
(6D1)	.... .1..		TRFCA_FULL_DO	Full completed
(6D1)	.... ..1.		TRFCA_ABBREV_DO	Abbreviated complete
(6D1)	1		TRFCA_SHORT_DO	Short complete
(6D2)	1...		TRFCA_TRACE_DONE_ ALREADY	Trace already printed
(6D2)	BIT(15) POS(2)	2	*	Available
(6D4)	ADDRESS	4	TRFCA_JOB_LINE_PTR	Ptr to jobname line buff
(6D8)	ADDRESS	4	TRFCA_INTERVAL_PTR	Time interval parameter.
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	64	*	
(6DC)	ADDRESS	4	TRFCA_FORMATTER_R710	Version 7 release 1
(6E0)	ADDRESS	4	TRFCA_FORMATTER_R700	Version 7 release 0
(6E4)	ADDRESS	4	TRFCA_FORMATTER_R690	Version 6 release 9
(6E8)	ADDRESS	4	TRFCA_FORMATTER_R680	Version 6 release 8
(6EC)	ADDRESS	4	TRFCA_FORMATTER_R670	Version 6 release 7
(6F0)	ADDRESS	4	TRFCA_FORMATTER_R660	Version 6 release 6
(6F4)	ADDRESS	4	TRFCA_FORMATTER_R650	Version 6 release 5
(6F8)	ADDRESS	4	TRFCA_FORMATTER_R640	Version 6 release 4
(6FC)	ADDRESS	4	TRFCA_FORMATTER_R630	Version 6 release 3

Table 636. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(700)	ADDRESS	4	TRFCA_FORMATTER_R620	Version 6 release 2
(704)	ADDRESS	4	TRFCA_FORMATTER_R610	Version 6 release 1
(708)	ADDRESS	4	TRFCA_FORMATTER_R530	Version 5 release 3
(70C)	ADDRESS	4	TRFCA_FORMATTER_R520	Version 5 release 2
(710)	ADDRESS	4	TRFCA_FORMATTER_R510	Version 5 release 1
(714)	ADDRESS	4	TRFCA_FORMATTER_R410	Version 4 release 1
(718)	ADDRESS	4	TRFCA_FORMATTER_R330	Version 3 release 3
(71C)	UNSIGNED	1	TRFCA_FREE_ BUFFER (15)	Subscript value of first free buffer for each type
(72B)	CHARACTER	5	*	Reserved
(730)	ADDRESS	4	TRFCA_RECORD_ BUFFER (15,5)	Pointers to segmented entry reconstruction areas - one per type AND region/ system
(85C)	ADDRESS	4	TRFCA_NEXT_ BYTE (15,5)	Ptrs to next free byte in reconstruction area
(988)	UNSIGNED	2	TRFCA_LEN_REM (15,5)	Length still to come continuation records
(A1E)	CHARACTER	8	TRFCA_DATE	Date
(A26)	CHARACTER	8	TRFCA_APPLID	Applid
(A2E)	CHARACTER	1	*	
(A2E)	1...		TRFCA_R620_LOAD_FAIL	DFHTR620 not found
(A2E)	.1..		TRFCA_R610_LOAD_FAIL	DFHTR610 not found
(A2E)	..1.		TRFCA_R530_LOAD_FAIL	DFHTR530 not found
(A2E)	...1		TRFCA_R520_LOAD_FAIL	DFHTR520 not found
(A2E)	.... 1...		TRFCA_R510_LOAD_FAIL	DFHTR510 not found
(A2E)	.... .1..		TRFCA_R410_LOAD_FAIL	DFHTR410 not found
(A2E)	.... ..1.		TRFCA_R330_LOAD_FAIL	DFHTR330 not found
(A2E)	1		TRFCA_R630_LOAD_FAIL	DFHTR630 not found
(A2F)	CHARACTER	1	*	
(A2F)	1...		TRFCA_R640_LOAD_FAIL	DFHTR640 not found
(A2F)	.1..		TRFCA_R650_LOAD_FAIL	DFHTR650 not found
(A2F)	..1.		TRFCA_R660_LOAD_FAIL	DFHTR660 not found
(A2F)	...1		TRFCA_R670_LOAD_FAIL	DFHTR670 not found
(A2F)	.... 1...		TRFCA_R680_LOAD_FAIL	DFHTR680 not found
(A2F)	.... .1..		TRFCA_R690_LOAD_FAIL	DFHTR680 not found
(A2F)	.... ..1.		TRFCA_R700_LOAD_FAIL	DFHTR700 not found
(A2F)	1		TRFCA_R710_LOAD_FAIL	DFHTR710 not found
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.				
(A30)	CHARACTER	8	*	Used area

Table 636. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A38)	CHARACTER	0	*	End of FCA

Structure of the core block containing record selection data

Table 637.

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 638.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	300	DFHTRIP	This must match TRFCA_TRIP
(0)	CHARACTER	140	TRIP_CICS_WORKAREA	
(0)	ADDRESS	4	TRIP_FCA_PTR	Format control area addr
(4)	UNSIGNED	2	TRIP_POINTID	Point id of entry
(4)	UNSIGNED	1	TRIP_POINTID_BYTE1	1st half of pointid
(5)	UNSIGNED	1	TRIP_POINTID_BYTE2	2nd half of pointid
(6)	UNSIGNED	1	*	Reserved
(7)	BIT(8)	1	TRIP_FIELD_T	Bitmap of TRIP_FIELD types '0'B=EBCDIC '1'B=ASCII
(8)	ADDRESS	4	TRIP_FIELD_P (8)	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 (8)	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

Table 638. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 (6)	
(B8)	CHARACTER	8	TRFTW_FORMATTING_ NAME (6)	
(E8)	CHARACTER	4	*	
(EC)	CHARACTER	32	TRFTW_WIPE_AREA	
(EC)	UNSIGNED	1	TRFTW_TRACE_TYPE	
(ED)	BIT(8)	1	TRFTW_FLAGS	
(ED)	1...		TRFTW_INTERPRETATION	
(ED)	.1..		TRFTW_LOAD_FAILED	
(ED)	..1.		TRFTW_NO_NAME	
(ED)	...1		TRFTW_FEATURE_ABEND	
(ED)	.... 1...		TRFTW_INT_OVERFLOW	
(ED)	.... .111		*	
(EE)	UNSIGNED	2	TRFTW_LEN_LEFT	
(F0)	ADDRESS	4	TRFTW_NAB	
(F4)	ADDRESS	4	TRFTW_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
    Licensed Materials - Property of IBM
     Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1995, 2010
FUNCTION = This is the header for a trace entry made by
           a Feature when the DFHTRFTM TRACE_PUT interface is
           used.
           It appears immediately after the TREN_HEADER for
           a Feature trace entry, as the first part of the
           TREN_DATA. The remaining trace entry data,
           supplied by the Feature as TRFT_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 639.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	94	TRFTE	Feature trace entry
(0)	UNSIGNED	2	TRFTE_HEADER_LEN	Feature trace header length - excludes the length of this field itself
(2)	CHARACTER	92	TRFTE_HEADER	Feature trace header
(2)	UNSIGNED	1	TRFTE_VERSION	Feature trace header version
(3)	UNSIGNED	1	*	SPARE
(4)	CHARACTER	30	TRFTE_COMPANY_NAME	Feature company name
(22)	CHARACTER	30	TRFTE_FEATURE_NAME	Feature name
(40)	CHARACTER	10	TRFTE_FEATURE_LEVEL	Feature release level
(4A)	CHARACTER	8	TRFTE_FORMATTING_ ROUTINE	Feature trace formatting routine
(52)	CHARACTER	9	TRFTE_ABBREV_NAME	Name for formatted trace
(5B)	BIT(8)	1	TRFTE_FLAGS	Feature trace entry flags
(5B)	1...		TRFTE_EXCEPTION_TRACE	Exception trace flag
(5B)	.111 1111		*	Spare
(5C)	CHARACTER	2	*	Spare

Table 640.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	108	TRFTW	FEATURE TRACE ENTRY
(0)	ADDRESS	4	TRFTW_FORMATTING_ ADDRESS (6)	STORED ADDR
(18)	CHARACTER	8	TRFTW_FORMATTING_ NAME (6)	STORED NAMES
(48)	CHARACTER	4	*	SPARE
(4C)	CHARACTER	32	TRFTW_WIPE_AREA	WIPED EACH CAL
(4C)	UNSIGNED	1	TRFTW_TRACE_TYPE	TYPES BELOW
(4D)	BIT(8)	1	TRFTW_FLAGS	
(4D)	1...		TRFTW_INTERPRETATION	FOREIGN CODE
(4D)	.1..		TRFTW_LOAD_FAILED	MVS LOAD
(4D)	..1.		TRFTW_NO_NAME	NO FORMAT

Table 640. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4D)	...1		TRFTW_FEATURE_ABEND	NO FORMAT
(4D)	.... 1...		TRFTW_INT_OVERFLOW	
(4D)	.... .111		*	SPARE
(4E)	UNSIGNED	2	TRFTW_LEN_LEFT	WORK AREA
(50)	ADDRESS	4	TRFTW_NAB	PTR WORK AREA
(54)	ADDRESS	4	TRFTW_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 641.

Len	Type	Value	Name	Description
Various constants used in the formatting				
2	DECIMAL	7	TRF_NUM_FIELDS	Maximum number of DATA..
2	DECIMAL	32	TRF_BPL	Number of bytes of data..
1	DECIMAL	15	GTF_TYPE_NUM	number of TREN_TYPEs
1	DECIMAL	0	TRFTW_ENTRY	ENTRY
1	DECIMAL	1	TRFTW_EXIT	EXIT
1	DECIMAL	2	TRFTW_EXCEPTION	EXCEPTION
1	DECIMAL	3	TRFTW_DATA	DATA
1	DECIMAL	4	TRFTW_EVENT	EVENT
1	DECIMAL	9	TRFTW_RUB	
1	DECIMAL	0	TRFTW_RC_OK	OK
1	DECIMAL	1	TRFTW_RC_OVERFLOW	Overflow
Values for TRIP_DATA_TYPE				
1	DECIMAL	0	TRI_CHAR	CHAR on DFHTRIBM
1	DECIMAL	1	TRI_HEX	HEX on DFHTRIBM
1	DECIMAL	2	TRI_DEC	DEC on DFHTRIBM
1	DECIMAL	3	TRI_BIN	BIN on DFHTRIBM
1	DECIMAL	4	TRI_CDPLIST	CDPLIST on DFHTRIBM
1	DECIMAL	5	TRI_ASCII	ASCII on DFHTRIBM
Values for TRIP_PLIST_TYPE				
1	DECIMAL	0	TRI_IN	IN on DFHTRIBM
1	DECIMAL	1	TRI_OUT	OUT on DFHTRIBM
Values for TRIP_SPACE				
1	DECIMAL	0	TRI_NO	NO on DFHTRIBM
1	DECIMAL	1	TRI_YES	YES on DFHTRIBM
2	DECIMAL	40960	TR_BLOCK_SIZE_TRAN_DU	

Table 641. (continued)

Len	Type	Value	Name	Description
				BLOCK SIZE USE BY TRXDF

TRFTE - Feature Trace Entry Header

```
CONTROL BLOCK NAME = DFHTRFTC
DESCRIPTIVE NAME = CICS/ESA (TR) Feature Trace Entry Header
    Licensed Materials - Property of IBM
     Restricted Materials of IBM
    5655-Y04
    (C) Copyright IBM Corp. 1995, 2010
FUNCTION = This is the header for a trace entry made by
           a Feature when the DFHTRFTM TRACE_PUT interface is
           used.
           It appears immediately after the TREN_HEADER for
           a Feature trace entry, as the first part of the
           TREN_DATA. The remaining trace entry data,
           supplied by the Feature as TRFT_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 642.

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

Table 642. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4A)	CHARACTER	8	TRFTE_FORMATTING_ ROUTINE	Feature trace formatting routine
(52)	CHARACTER	9	TRFTE_ABBREV_NAME	Name for formatted trace
(5B)	BIT(8)	1	TRFTE_FLAGS	Feature trace entry flags
(5B)	1...		TRFTE_EXCEPTION_TRACE	Exception trace flag
(5B)	.111 1111		*	Spare
(5C)	CHARACTER	2	*	Spare

Table 643.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	108	TRFTW	FEATURE TRACE ENTRY
(0)	ADDRESS	4	TRFTW_FORMATTING_ ADDRESS (6)	STORED ADDR
(18)	CHARACTER	8	TRFTW_FORMATTING_ NAME (6)	STORED NAMES
(48)	CHARACTER	4	*	SPARE
(4C)	CHARACTER	32	TRFTW_WIPE_AREA	WIPED EACH CAL
(4C)	UNSIGNED	1	TRFTW_TRACE_TYPE	TYPES BELOW
(4D)	BIT(8)	1	TRFTW_FLAGS	
(4D)	1...		TRFTW_INTERPRETATION	FOREIGN CODE
(4D)	.1..		TRFTW_LOAD_FAILED	MVS LOAD
(4D)	..1.		TRFTW_NO_NAME	NO FORMAT
(4D)	...1		TRFTW_FEATURE_ABEND	NO FORMAT
(4D)	.... 1...		TRFTW_INT_OVERFLOW	
(4D)	.... .111		*	SPARE
(4E)	UNSIGNED	2	TRFTW_LEN_LEFT	WORK AREA
(50)	ADDRESS	4	TRFTW_NAB	PTR WORK AREA
(54)	ADDRESS	4	TRFTW_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 644.

Len	Type	Value	Name	Description
1	DECIMAL	0	TRFTW_ENTRY	ENTRY
1	DECIMAL	1	TRFTW_EXIT	EXIT
1	DECIMAL	2	TRFTW_EXCEPTION	EXCEPTION
1	DECIMAL	3	TRFTW_DATA	DATA
1	DECIMAL	4	TRFTW_EVENT	EVENT
1	DECIMAL	9	TRFTW_RUB	

Table 644. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	0	TRFTW_RC_OK	OK
1	DECIMAL	1	TRFTW_RC_OVERFLOW	Overflow

TRGTW - Global trap working storage

```
CONTROL BLOCK NAME = DFHTRGTW
NAME OF MATCHING ASM CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Global Trap (DFHTRAP) Working Storage
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1988, 2014
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 645.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	889	DFHTRGTW	Global trap (DFHTRAP)..
(0)	CHARACTER	216	TRAP_REGSAVE	F7SA for DFHTRAP
(D8)	CHARACTER	120	TRAP_PLIST	DFHTRADS storage
(150)	BIT(32)	4	TRAP_FLAGS	Trap return action flags
(150)	1...		TRAP_TRACE	Further trace entry required *
(150)	.1..		TRAP_DUMP	System dump required
(150)	..1.		TRAP_TRACE_64	Trace entry passing 64-bit data required
(150)	...1		TRAP_ABCICS	Abend CICS
(150)	.... 1...		TRAP_DISABLE	Disable the trap
(150)	.... .1..		TRAP_DUMP_WITH_LOCK	System dump holding lock
(150)	BIT(26) POS(7)	4	*	Reserved
(154)	CHARACTER	104	TRAP_TRPLIST	TRPT format parameter for requested entry
(1BC)	CHARACTER	160	TRAP_TRPLIST_64	TRP4 format parameter for requested entry
(25C)	CHARACTER	4	*	Reserved

Table 645. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(260)	CHARACTER	281	TRAP_WORK	Force D-word alignment for..
(260)	CHARACTER	16	TRAP_WORK_EYEC	'DFHTRAP_WORKAREA' eyecatcher
(270)	CHARACTER	265	TRAP_WORKAREA	Work area for DFHTRAP

TSG - Temporary Storage Domain Statistics

```
CONTROL BLOCK NAME = DFHTSGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHTSGPS
DESCRIPTIVE NAME = CICS TS Temporary Storage statistics record.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1995
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 646.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHTSGDS	Temp storage statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	TSGLEN	Length of data area
(0)	..11		TSGIDE	"0048" TS stats mask
(2)	ADDRESS	2	TSGID	TS stats id
(2)	1		TSGVERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	TSGDVERS	TS stats version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	TSGSTA5F	PUT/PUTQ main storage requests
(C)	FULLWORD	4	TSGNMG	GET/GETQ main storage requests
(10)	FULLWORD	4		Retired
(14)	FULLWORD	4	TSGSTA7F	PUT/PUTQ aux storage requests

Table 646. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(18)	FULLWORD	4	TSGNAG	GET/GETQ aux storage requests
(1C)	FULLWORD	4	TSGQNUMH	Peak TS names in use
(20)	FULLWORD	4	TSGQINH	Entries in longest Queue
(24)	HALFWORD	2		Reserved
(26)	HALFWORD	2		Reserved
(28)	FULLWORD	4	TSGSTA3F	Times queue created
(2C)	FULLWORD	4		Reserved
(30)	FULLWORD	4	TSGCSZ	Control interval size
(34)	FULLWORD	4	TSGSTABF	Writes more than control interval
(38)	FULLWORD	4	TSGNCI	CIs in TS dataset
(3C)	FULLWORD	4	TSGNCIAH	Peak CIs used
(40)	FULLWORD	4	TSGSTA8F	Times aux store exhausted
(44)	HALFWORD	2	TSGNBCA	No. TS Buffers
(46)	HALFWORD	2		Reserved
(48)	FULLWORD	4	TSGBWTN	No. Buffer waits
(4C)	FULLWORD	4	TSGBUWTH	Peak users waiting on buffer
(50)	FULLWORD	4	TSGTWTN	Buffer writes
(54)	FULLWORD	4	TSGTWTNR	Writes force for recovery
(58)	FULLWORD	4	TSGTRDN	Buffer reads
(5C)	FULLWORD	4	TSGTWTNF	Format writes
(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

Table 646. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	11.1		TSGEND	"*"
(CC)	11.1		TSGCLEN	"*-TSGLEN" Length of DSECT

TSIOA - Temporary Storage input/output area

```
CONTROL BLOCK NAME = DFHTSIOA
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Temporary Storage Input/Output Area.
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        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1993
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 647.

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

Table 647. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A)	HALFWORD	2		RESERVED
(A)	.... 11..		TSIOACAD	"*-DFHTSIOA" CONTROL AREA DISPLACEMENT
(A)	.... 11..		TSIOADBA	"*" DATA BEGINNING ADDRESS

TST - Temporary Storage table

```
CONTROL BLOCK NAME = DFHTSTDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHTSTPS
DESCRIPTIVE NAME = CICS TS Temporary Storage Table
    PN= REASON REL YYMMDD HDXIII : REMARKS
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       5655-Y04
       (C) Copyright IBM Corp. 1983, 1998
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 648.

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

Table 648. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
HEADER EXTENSION IS PRESENT IF TSTHDXBM IS SET IN THIS FLAG BYTE				
(13)	BITSTRING	1		RESERVED
(14)	ADDRESS	4	TSTADDSH	A(1ST SHARED POOL ENTRY) OR 0 IF NONE PRESENT
COMMON PART				
(0)	HALFWORD	2	TSTLL	LENGTH OF ENTRY
(2)	BITSTRING	1	TSTFL	FLAG DESCRIBING ENTRY
(2)	1...		TSTRCVBM	"X'80'" RECOVERABLE
(2)	.1..		TSTRMTBM	"X'40'" REMOTE
(2)	..1.		TSTRNMBM	"X'20'" REMOTE PREFIX GIVEN
(2)	...1		TSTRSLBM	"X'10'" RESOURCE SECURITY LEVEL CHK
(2)	.... 1...		TSTSHRBM	"X'08'" SHARED POOL ENTRY
(2)	.... .1..		TSTMIGBM	"X'04'" MIGRATE FLAG (1 IF MIGRATE=YES)
(2)	.... ..1.		TSTHDXBM	"X'02'" HEADER EXTENSION ENTRY
(2)	1		TSTLSTBM	"X'01'" =1 FOR LAST ENTRY
(3)	FULLWORD	1		RESERVED
(4)	BITSTRING	1		RESERVED
(5)	BITSTRING	1	TSTPL	PREFIX LENGTH-1
(6)	CHARACTER	8	TSTPRFX (0)	PREFIX
(6)	CHARACTER	8	TSTPOOL (0)	POOL NAME IN SHARED POOL ENTRY
(6)	CHARACTER	4		FIRST FOUR BYTES
(A)	CHARACTER	4		LAST FOUR - INCLUDED ONLY WHEN PREFIX GREATER THAN FOUR BYTES, OR REMOTE
REMOTE ONLY				
(E)	CHARACTER	4	TSTSYS	REMOTE SYSTEM ID
REMOTE AND TSTRNMBM=1 ONLY				
(12)	CHARACTER	8	TSTRPFX	REMOTE PREFIX (TSTPL GIVES ACTUAL LENGTH-1)

TSUE - Temporary Storage EXEC Parameter List

```
CONTROL BLOCK NAME = DFHTSUEC
DESCRIPTIVE NAME = CICS TS EXEC parameter list for Temporary
                              Storage user exits.
     Licensed Materials - Property of IBM
```

```
      Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1992, 1998
   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 649.

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 650.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	9	TS_EID	
(0)	CHARACTER	1	TS_GROUP	'0A'X for TS
(1)	CHARACTER	1	TS_FUNCT	'02'X for WRITEQ
'04'X for READQ '06'X for DELETEQ --- The existence bits (TS_BITS1) specify the parameters that are valid for this command. For example, TS_EXIST7 set on indicates that TS_ADDR7 is valid, meaning that it addresses a SYSID value. TS_ADDR0 is always valid and has no existence bit. A user exit program at XTSEREQ can set the TS_EXIST7 bit on or off for all TS commands. All other changes will be ignored. ---				
(2)	BIT(8)	1	TS_BITS1	
(2)	1...		TS_EXIST1	QUEUE/QNAME -
(2)	1...		TS_QUEUE_V	ALWAYS SET
(2)	1...		TS_WRITEQ_QUEUE_V	
(2)	1...		TS_READQ_QUEUE_V	
(2)	1...		TS_DELETEQ_QUEUE_V	
(2)	.1..		TS_EXIST2	
(2)	.1..		TS_WRITEQ_FROM_V	
(2)	.1..		TS_READQ_SET_INTO_V	
(2)	..1.		TS_EXIST3	
(2)	..1.		TS_LENGTH_V	
(2)	..1.		TS_WRITEQ_LENGTH_V	
(2)	..1.		TS_READQ_LENGTH_V	
(2)	...1		TS_EXIST4	
(2)	...1		TS_READQ_NUMITEMS_V	
(2)	.... 1...		TS_EXIST5	
(2)	.... 1...		TS_WRITEQ_ITEM_ NUMITEMS_V	
(2)	.... 1...		TS_READQ_ITEM_V	
(2)	.... .1..		*	
(2)	.... ..1.		TS_EXIST7	
(2)	.... ..1.		TS_SYSID_V	
(2)	.... ..1.		TS_WRITEQ_SYSID_V	
(2)	.... ..1.		TS_READQ_SYSID_V	
(2)	.... ..1.		TS_DELETEQ_SYSID_V	
(2)	1		*	Reserved
(3)	BIT(16)	2	*	Reserved

Table 650. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
---------- 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	
(5)	1...		TS_QNAME_X	QNAME, otherwise QUEUE
(5)	.111 111.		*	Reserved
(5)	1		TS_READQ_SET_X	SET, otherwise INTO
(6)	BIT(8)	1	TS_EIDOPT6	
(6)	BIT(8)	1	*	Reserved
(7)	BIT(8)	1	TS_EIDOPT7	
(7)	111.		*	Reserved
(7)	...1		TS_WRITEQ_NOSUSPEND_X	NOSUSPEND
(7)	.... 1...		*	
(7)	.... 1...		TS_WRITEQ_MAIN_X	MAIN, otherwise AUXILIARY
(7)	.... 1...		TS_READQ_ITEM_X	ITEM
(7)	.... .1..		*	
(7)	.... .1..		TS_WRITEQ_REWRITE_X	REWRITE
(7)	.... .1..		TS_READQ_NUMITEMS_X	NUMITEMS
(7)	11		*	
(8)	BIT(8)	1	TS_EIDOPT8	
(8)	1...		*	
(8)	1...		TS_WRITEQ_ITEM_X	ITEM, otherwise NUMITEMS
(8)	.111 1111		*	

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by TS_ADDR1 - TS_ADDR7 in TS_ADDR_LIST.

Table 651.

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 652.

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 653.

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 654.

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 655.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	TS_DATA4	
(0)	HALFWORD	2	TS_READQ_NUMITEMS	NUMITEMS value for READQ

Table 656.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	TS_DATA5	
(0)	HALFWORD	2	TS_WRITEQ_NUMITEMS	NUMITEMS value for WRITEQ
(0)	HALFWORD	2	TS_ITEM	the ITEM value
(0)	HALFWORD	2	TS_WRITEQ_ITEM	
(0)	HALFWORD	2	TS_READQ_ITEM	

Table 657.

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	

Table 657. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	4	TS_READQ_SYSID	
(0)	CHARACTER	4	TS_DELETEQ_SYSID	

Constants

Table 658.

Len	Type	Value	Name	Description
Equate for TS_GROUP. All Temporary Storage requests have group code '0A'				
1	HEX	0A	TS_TEMPSTOR_GROUP	
Equates for TS_FUNCT values.				
1	HEX	02	TS_WRITEQ	WRITEQ
1	HEX	04	TS_READQ	READQ
1	HEX	06	TS_DELETEQ	DELETEQ
Start of General Use Programming Interface. Equates for EIBRCODE values used by Temporary Storage.				
1	HEX	00	TS_OK_EIBRCODE	
1	HEX	20	TS_INVREQ_EIBRCODE	
1	HEX	04	TS_IOERR_EIBRCODE	
1	HEX	D1	TS_ISCINVREQ_EIBRCODE	
1	HEX	01	TS_ITEMERR_EIBRCODE	
1	HEX	E1	TS_LENGERR_EIBRCODE	
1	HEX	08	TS_NOSPACE_EIBRCODE	
1	HEX	D6	TS_NOTAUTH_EIBRCODE	
1	HEX	02	TS_QIDERR_EIBRCODE	
1	HEX	D0	TS_SYSIDERR_EIBRCODE	
1	HEX	03	TS_LOCKED_EIBRCODE	
Equates for EIBRESP values used by Temporary Storage.				
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.				

Table 658. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	0	TS_OK_EIBRESP2	OK
1	DECIMAL	101	TS_NOTAUTH_EIBRESP2	NOTAUTH
1	DECIMAL	0	TS_LOCKED_EIBRESP2	LOCKED *-*-**-**-**-**-**-**-**-* *-*-**-**-**-**-**-**-**-* *-*-* End of General Use **-* *-* Programming Interface *-* *-*-*-**-**-**-**-**-**-*-*-*

TTP - Terminal type parameter

```
DESCRIPTIVE NAME = CICS TS Terminal Type Parameter
      Licensed Materials - Property of IBM
       Restricted Materials of IBM
      5655-Y04
      (C) Copyright IBM Corp. 1980, 2014
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
 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 659.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHTTPCM	DUMMY SECTION PART 1 - TTP
(0)	DBL WORD	8		STORAGE ACCOUNTING INFORMATION; STORAGE CLASS=USER
(0)	.... 1...		TTPSTRT	"*"

Table 659. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8)	CHARACTER	8	TTPCBID	TTP SELF IDENTIFICATION. SET TO 'DFHTTPDS' WHEN TTP CREATED
(8)	...1		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'
(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 *

Table 659. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(38)	ADDRESS	4	TTPTFMA	TAB FORMAT MAP ADDRESS
(3C)	CHARACTER	2	TTPEAVAF (0)	VALID DEST ATTRIBUTES
(3C)	BITSTRING	1	TTPEAVAL	VALID ATTRS FOR DEST--BYTE1
(3D)	BITSTRING	1	TTPEAVA2	VALID ATTRS FOR DEST--BYTE2
(3E)	BITSTRING	1	TTPEAVA3	RESERVED
(3F)	CHARACTER	2	TTPEAUSF (0)	DATASTREAM ATTRIBUTES
(3F)	BITSTRING	1	TTPEAUSE	ATTRS USED IN DATASTREAM--BYTE1
(40)	BITSTRING	1	TTPEAUS2	ATTRS USED IN DATASTREAM--BYTE2
(41)	BITSTRING	1	TTPEAUS3	RESERVED
EQUATES FOR TTPEAVAL AND TTPEAUSE				
(41)	1...		TTPEXTDS	"X'80'" IN TTPEAVAL: EXTENDED DATASTREAM SUPPORTED BY DESTINATION IN TTPEAUSE: EXTENDED ATTRS PRESENT FOR SOME MAP IN CURRENT PAGE
(41)	.1..		TTPEACOL	"X'40'" COLOUR ATTR SUPPORTED/USED
(41)	..1.		TTPEAPSS	"X'20'" PSS ATTR SUPPORTED/USED
(41)	...1		TTPEAHLT	"X'10'" HILIGHT ATTR SUPPORTED/USED
(41)	.... 1...		TTPEAVLD	"X'08'" VALIDATION ATTRIBUTES SUPPORT / USED
(41)	.... .1..		TTPEAPRT	"X'04'" PARTITIONS SUPPORTED
(41)	.... ..1.		TTPEAMSR	"X'02'" MSR SUPPORTED/USED
(41)	1		TTPEAAPR	"X'01'" ACTIVATE PARTITION USED
EQUATES FOR TTPEAVA2 AND TTPEAUS2				
(41)	1...		TTPEAFRL	"X'80'" OUTLINE ATTR SUPPORTED/USED
(41)	.1..		TTPEAMIX	"X'40'" SOSI ATTR SUPPORTED/USED
(41)	..1.		TTPEABTR	"X'20'" BACKGROUND TRANSP SUPP/USED
(41)	1		TTPEASA	"X'01'" SA SUPPORTED/USED

Table 659. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(42)	CHARACTER	1	TTPASUFX	ALTERNATE SUFFIX FROM TCTTE
(43)	CHARACTER	1	TTPTSQUL	TEMPORARY STORAGE QUALIFICATION
	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)	..1.		TTPTFMH	"X'20'" HORIZONTAL TABS
(5F)	.1..		TTPTFMV	"X'40'" VERTICAL TABS
(60)	BITSTRING	1	TTPIND01 (0)	TTP INDICATOR ONE
(60)	BITSTRING	1	TTPREQ	PAGE BUILD REQUEST CONTROL BYTE
(60)	1...		TTPTXTO	"X'80'" TEXTBLD PAGE OVERFLOW
(60)	.1..		TTP3270	"X'40'" 3270 INDICATOR
(60)	..1.		TTPSM	"X'20'" TTPMLN CONTAINS A SUFFIXED NAME
(60)	...1		TTPTXTB	"X'10'" TEXTBLD DATA IN BUFFER

Table 659. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(60)	.... 1...		TTPERAS	"X'08"' ERASE WITH WRITE
(60)	.... .1..		TTPML1	"X'04"' ML1 TO BE CALLED
(60)	.... ..1.		TTPJL	"X'02"' JUSTIFY = LAST
(60)	1		TTPJF	"X'01"' JUSTIFY = FIRST
(61)	BITSTRING	1	TTPIND02	TTP INDICATOR TWO
(61)	1...		TTPOFIP	"X'80"' TEXTBLD OVERFLOW IN PROCESS
(61)	.1..		TTPMAPIP	"X'40"' MAPPING IN PROCESS
(61)	..1.		TTPHDRJP	"X'20"' HEADER JUST PROCESSED
(61)	...1		TTPALARM	"X'10"' USER SAID CTRL=ALARM -- SO DSB SETS ALARM IN 3601 FMH
(61)	.... 1...		TTPWWW	"X'08"' WAIT WHEN WRITING THIS PAGE
(61)	.... .1..		TTPPFODO	"X'04"' A PAGE WAS FORCED OUT DURING PAGEBLD OVERFLOW
(61)	.... ..1.		TTPLDCDF	"X'02"' DEFAULT TTP FOR LOGICAL DEVICE CODE PROCESSING
(61)	1		TTPNXDC	"X'01"' NO INITIAL DDC ON PAGE 1
(62)	BITSTRING	1	TTPIND03	TTP INDICATOR THREE
(62)	1...		TTPMLDC	"X'80"' TTP HAS MULTIPLE LDC'S OR PARTITIONS
(62)	.1..		TTPDIRCT	"X'40"' THIS IS A DIRECT TTP
(62)	..1.		TTPTRAN	"X'20"' 3270 TRANSPARENCY NEEDED
(62)	...1		TTPTRAND	"X'10"' 3270 TRANSPARENCY ALLOWED FOR IN TIOA
(62)	.... 1...		TTPWSFYS	"X'08"' WSF NEEDED FOR THIS PAGE
(62)	.... .1..		TTPDOOBF	"X'04"' DOING OUTBOARD FORMATTING
(62)	.... ..1.		TTPEAU	"X'02"' ERASE ALL UNPROTECTED
(62)	1		TTPFMHYS	"X'01"' FMH PRESENT IN THIS PAGE
(63)	BITSTRING	4	TTPPFWRK (0)	PAGE FORMATTING WORK AREA
TTPPFWRK'S FIELDS ARE SEQUENCE SENSITIVE TO THE FIELDS IN OSPPFWRK				
(63)	BITSTRING	1	TTPPFCL	CURRENT LINE POINTER

Table 659. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	...1 111.		TTPMXFMP	"30" MAXIMUM NUMBER OF FMH PARAMETERS PER PAGE IS 30
(6A)	BITSTRING	1	TTPIND06	TTP INDICATOR SIX
(6A)	1...		TTPASCSZ	"X'80'" TTP FOR ALTERNATE SCREEN SIZE
(6B)	BITSTRING	1	TTPIND04	TTP INDICATOR FOUR
(6B)	1...		TTP36OBF	"X'80'" 3650 OBF NEEDED FOR THIS PAGE
(6B)	.1..		TTPWSOBF	"X'40'" WSF OBF NEEDED FOR THIS PAGE
(6B)	..1.		TTPNUSED	"X'20'" DIRECT TTP IS NOT USED
(6B)	...1		TTPPRTN	"X'10'" THIS TTP IS FOR A PARTITION
(6B)	.... 1...		TTPTPRT	"X'08'" TERM SUPPORTS PARTITIONS M32 BUILDS 3270E OUTBOUND
(6B)	.... .1..		TTPMODOR	"X'04'" OBF MAP HAS BEEN RELOCATED
(6B)	.... ..1.		TTPMAP1	"X'02'" THE FIRST MAP IN A CHAIN OF MAP COPIES IS BEING HANDLED
(6B)	1		TTPMHCRT	"X'01'" A MAP HEADER EXTENSION AREA MUST BE CREATED
(6C)	HALFWORD	2	TTPSCSZ (0)	SCREEN SIZE (MINIMUM)
(6C)	CHARACTER	1	TTPSCSL	SCREEN SIZE LINES
(6D)	CHARACTER	1	TTPSCSC	SCREEN SIZE COLUMNS
(6E)	CHARACTER	13	TTPATTR (0)	ATTRIBUTE WORK AREA
(6E)	CHARACTER	1	TTPFA	3270 ATTRIBUTE
(6F)	CHARACTER	12	TTPXATTR (0)	EXTENDED ATTRIBUTE WORK AREA
(6F)	CHARACTER	1	TTPCOL	COLOUR ATTRIBUTE

Table 659. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(70)	CHARACTER	1	TTPPSS	PSS ATTRIBUTE
(71)	CHARACTER	1	TTPHL	HIGHLIGHT ATTRIBUTE
(72)	CHARACTER	1	TTPVAL	VALIDATION ATTRIBUTE
(73)	CHARACTER	1	TTPOUTLN	OUTLINE ATTRIBUTE
(74)	CHARACTER	1	TTPSOSI	SOSI ATTRIBUTE
(75)	CHARACTER	1	TTPBKTRN	BACKGROUND TRANSPARENCY ATTR
(76)	CHARACTER	5		RESERVED
(7B)	CHARACTER	12	TTPTXAT (0)	EXTENDED ATTRIBUTE WORK AREA FOR TEXT BUILD
(7B)	CHARACTER	1	TTPTCOL	COLOUR ATTRIBUTE (TEXT BUILD)
(7C)	CHARACTER	1	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)	1...		TTPPGPGB	"X'80"' PAGE BUILD ON THIS LDC/PARTN
(87)	.1..		TTPPGTXB	"X'40"' TEXT BUILD ON THIS LDC/PARTN
(87)	..1.		TTPPGNSC	"X'20"' SEND COMMAND OTHER THAN SEND CONTROL ON THIS PAGE
(87)	...1		TTP16BIT	"X'10"' PAGE HAS 14- OR 16-BIT SBAS
(87)	.... 1...		TTPFF	"X'08"' FORM FEED REQUESTED
(87)	.... .1..		TTPATSKP	"X'04"' NO ATTR FOR TEXT PRINTER
(87)	.... ..1.		TTPNOSC	"X'02"' REMOVE SO / SI CHARS IN DATA
(87)	1		TTPKA	"X'01"' KATAKANA TERMINAL
(88)	CHARACTER	1	TTPOPPID	PID OF OUTPUT PARTITION
(89)	CHARACTER	2	TTPAPNM	NAME OF ACTIVE PARTITION

Table 659. (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 660.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHTTPRE	DUMMY SECTION PART 2 - TTP
(0)	CHARACTER	8	TTPRCBID	TTP SELF IDENTIFICATION. SET TO 'DFHTTPDS' WHEN TTPRE CREATED
(8)	ADDRESS	4	TTPRLCHA	ADDRESS OF NEXT ROUTE LIST SEGMENT
(8)	.... 11..		TTPRL	"*" START OF ROUTE LIST
(8)	.... 1...		RLENTRY	"8" NUMBER OF TCTTE ADDRESSES IN 1 SEGMENT OF ROUTE LIST
(8)	.... 11..		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
(13)	1...		TTPREREM	"X'80'" REMOTE TERMINAL
(14)	CHARACTER	3	TTPOPID	OPERATOR IDENTIFICATION
(17)	BITSTRING	1	TTPSF	PAGING STATUS FLAG ONLY

Table 660. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(17)	1...		TTPSFPG	"TCTTEPGP" PAGING STATUS
REMAINING BIT VALUES IN 'TTPSF' UNAVAILABLE				
(18)	CHARACTER	8	TTPDSN	DESTINATION NAME
(18)	..1.		TTPRLEE	"*" ROUTE LIST ENTRY END
(18)	...1 .1..		TTPRLEL	"TTPRLEE-TTPRLES" ROUTE LIST ENTRY LENGTH
(20)	BITSTRING	4	TTPSEEND	SINGLE ENTRY STOPPER
(C)	CHARACTER	0	(0)	ROUTE LIST
(AC)	BITSTRING	4	TTPRLEND	ROUTE LIST STOPPER
(AC)	11.. 11..		TTPLENSE	"(TTPCMEND-TTPSTRT)+ (TTPRLEE-DFHTTPRE)+ L'TTPSEEND" LENGTH OF SINGLE ENTRY TTP
(AC)		0	TTPLEN	"(TTPCMEND-TTPSTRT)+ (*-DFHTTPRE)" LENGTH OF TTP
DEVICE DEPENDENCE SUFFIX (DDS)/MAP SET SUFFIX (MSS) EQUATES				
(AC)	11.. ...1		DSCRLP	"C'A'" CRLP - DEVICE DEPEND SUFFIX
(AC)	11.. ...1		MSCRLP	"C'A'" MAP SET SUFFIX
(AC)	11.. ..1.		DSTAPE	"C'B'" TAPE - DEVICE DEPEND SUFFIX
(AC)	11.. ..1.		MSTAPE	"C'B'" MAP SET SUFFIX
(AC)	11.. ..11		DSDISK	"C'C'" DISK - DEVICE DEPEND SUFFIX
(AC)	11.. ..11		MSDISK	"C'C'" MAP SET SUFFIX
(AC)	11.. .1..		DSTWX	"C'D'" TWX - DEVICE DEPEND SUFFIX
(AC)	11.. .1..		MSTWX	"C'D'" MAP SET SUFFIX
(AC)	11.. .1.1		DS1050	"C'E'" 1050 - DEVICE DEPEND SUFFIX
(AC)	11.. .1.1		MS1050	"C'E'" MAP SET SUFFIX
(AC)	111. ..1.		DSF22601	"C'S'" RESERVED
(AC)	111. ..1.		MSF22601	"C'S'" RESERVED
(AC)	111. ..11		DSF22602	"C'T'" RESERVED
(AC)	111. ..11		MSF22602	"C'T'" RESERVED
(AC)	11.. .11.		DS2740	"C'F'" 2740 WO/BUFFRECV-DEVICE DEPEND SUFFIX
(AC)	11.. .11.		MS2740	"C'F'" 2740 WO/BUFFRECV-MAP SET SUFFIX

Table 660. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(AC)	11.. 1...		DS2740BR	"C'H"' 2740 W/BUFFRECV-DEVICE DEPEND SUFFIX
(AC)	11.. .11.		MS2740BR	"C'F"' MAP SET SUFFIX
(AC)	11.. .111		DS2741	"C'G"' 2741 - DEVICE DEPEND SUFFIX
(AC)	11.. .111		MS2741	"C'G"' MAP SET SUFFIX
(AC)	11.. 1..1		DS2770	"C'I"' 2770 - DEVICE DEPEND SUFFIX
(AC)	11.. 1..1		MS2770	"C'I"' MAP SET SUFFIX
(AC)	11.1 ...1		DS2780	"C'J"' 2780 - DEVICE DEPEND SUFFIX
(AC)	11.1 ...1		MS2780	"C'J"' MAP SET SUFFIX
(AC)	11.1 1...		DS2980M4	"C'Q"' 2980 MOD 4 - DEVICE DEPEND SUFFIX
(AC)	11.1 1..1		MS2980M4	"C'R"' MAP SET SUFFIX
(AC)	11.1 1...		DS2980	"C'Q"' 2980 - DEVICE DEPEND SUFFIX
(AC)	11.1 1...		MS2980	"C'Q"' MAP SET SUFFIX
(AC)	11.1 .1.1		DS327PM1	"C'N"' 3270-1 PRINTER - DEVICE DEPEND SUFFIX
(AC)	11.1 .1.1		MS327PM1	"C'N"' DEVICE DEPEND SUFFIX
(AC)	11.1 .11.		DS327PM2	"C'O"' 3270-2 PRINTER - DEVICE DEPEND SUFFIX
(AC)	11.1 .11.		MS327PM2	"C'O"' MAP SET SUFFIX
(AC)	11.1 ..11		DS3270M1	"C'L' 3270 MOD 1 - DEV DEP SUFFIX
(AC)	11.1 ..11		MS3270M1	"C'L' MAP SET SUFFIX
(AC)	11.1 .1..		DS3270M2	"C'M"' 3270 MOD 2 - DEV DEP SUFFIX
(AC)	11.1 .1..		MS3270M2	"C'M"' MAP SET SUFFIX
(AC)	111. .1..		DS3601	"C'U"' 3601 - DEVICE DEPEND SUFFIX
(AC)	111. .1..		MS3601	"C'U"' MAP SET SUFFIX
(AC)	111. 1..1		DS327PHC	"C'Z"' 3650/3275HC PRINTER - DEVICE DEPEND SUFFIX
(AC)	111. 1..1		MS327PHC	"C'Z"' MAP SET SUFFIX
(AC)	111. .111		DS3270HC	"C'X"' 3650/3270HC - DEVICE DEPEND SUFFIX
(AC)	111. .111		MS3270HC	"C'X"' MAP SET SUFFIX
(AC)	111. .11.		DS3650UP	"C'W"' 3650UP - DEVICE DEPEND SUFFIX
(AC)	111. .11.		MS3650UP	"C'W"' MAP SET SUFFIX

Table 660. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(AC)	111. .1.1		DS3653	"C'V'" 3653 - DEVICE DEPEND SUFFIX
(AC)	111. .1.1		MS3653	"C'V'" MAP SET SUFFIX
(AC)	11.1 ..1.		DS3780	"C'K'" 3780 - DEVICE DEPEND SUFFIX
(AC)	11.1 ..1.		MS3780	"C'K'" MAP SET SUFFIX
(AC)	11.1 .111		DSINTLU	"C'P'" INT LU DEVICE DEPEND SUFFIX
(AC)	11.1 .111		MSINTLU	"C'P'" MAP SET SUFFIX
(AC)	111. 1...		DSBCHLU	"C'Y'" BCH LU DEVICE DEPEND SUFFIX
(AC)	111. 1...		MSBCHLU	"C'Y'" MAP SET SUFFIX

UEACD - User exit application context

```
CONTROL BLOCK NAME = DFHUEACD
DESCRIPTIVE NAME = CICS TS User Exit Application Context DSECT
   Licensed Materials - Property of IBM
    Restricted Materials of IBM
   5655-Y04
   (C) Copyright IBM Corp. 2014
FUNCTION =
       This DSECT maps the information provided by Loader
       to the LDLD User Exits :
       XLDLOAD - Global User Exit called before a program load
                 request.
       XLDELETE - Global User Exit called before a program
                  delete request.
LIFETIME =
       DFHLDLD supplies the information for this DSECT before
       the global User Exits around program load and delete
       are called.
       The information provided is valid for a single invocation
       of the exit only.
LOCATION =
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None.
-------------------------------------------------------------------
    User Exit Application Context Information Control Block
```

Table 661.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHUEACD	
(0)	CHARACTER	64	UEACPLNM	Platform Name
(40)	CHARACTER	64	UEACAPNM	Application Name
(80)	FULLWORD	4	UEACMAJN	Major Version Number
(84)	FULLWORD	4	UEACMINN	Minor Version Number
(88)	FULLWORD	4	UEACMICN	Micro Version Number

UEFD - User exit file and dataset information

```
CONTROL BLOCK NAME = DFHUEFDS
DESCRIPTIVE NAME = CICS TS User Exit File and Dataset Information
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1990, 1995
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 662.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHUEFDS	
(0)	CHARACTER	8	UEFLNAME	File Name
(8)	CHARACTER	44	UEDSNAME	Data Set Name
This byte contains the servreq settings for the File				
(34)	BITSTRING	1	UEFSERV	Servreqs Indicator
(34)	..11 .1..		UEFDSRI	"UEFSERV" Read Indicator
(34)	1...		UEFRDIM	"X'80'" Read Valid
(34)	..11 .1..		UEFDSUPD	"UEFSERV" Read Update Indicator
(34)	..1.		UEFUPDIM	"X'20'" Update Valid
(34)	..11 .1..		UEFDSADD	"UEFSERV" Write New Record Indicator
(34)	...1		UEFADDIM	"X'10'" Add Valid
(34)	..11 .1..		UEFDSDI	"UEFSERV" Deletion Validity Indicator
(34)	.... 1...		UEFDELIM	"X'08'" Delete Valid
(34)	..11 .1..		UEFBRWSE	"UEFSERV" Browse Validity Indicator
(34)	.... ..1.		UEFBRZIM	"X'02'" Browse Valid
Flags indicating Automatic Journalling and Logging Options				

Table 662. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(35)	BITSTRING	1	UEFDSJL	Journalling and Logging Indicator
(35)	..11 .1.1		UEFDSJRO	"UEFDSJL" Journal Read Only Indicator
(35)	1...		UEFJRO	"X'80'" Journal Read Only
(35)	..11 .1.1		UEFDSJRU	"UEFDSJL" Journal Read for Update Ind
(35)	.1..		UEFJRU	"X'40'" Journal Reads for Update
(35)	..11 .1.1		UEFDSJWU	"UEFDSJL" Journal Write Updates Ind
(35)	..1.		UEFJWU	"X'20'" Journal Write Updates
(35)	..11 .1.1		UEFDSJWA	"UEFDSJL" Journal Write Adds Indicator
(35)	...1		UEFJWA	"X'10'" Journal Write Adds
(35)	..11 .1.1		UEFDSJDS	"UEFDSJL" Dsname has been Journalled Ind
(35)	.... 1...		UEFJDSN	"X'08'" Dsname has been Journalled
(35)	..11 .1.1		UEFDSJSY	"UEFDSJL" Synchronous Reads Journal Ind
(35)	.... .1..		UEFJSYN	"X'04'" Synchronous Reads Journal
(35)	..11 .1.1		UEFDSJAS	"UEFDSJL" Asynchronous Writes Jrnl Ind
(35)	.... ..1.		UEFJASY	"X'02'" Asynchronous Writes Journal
A further automatic Journalling Option (VSAM only)				
(36)	BITSTRING	1	UEFDSVJL	VSAM Journalling Indicator
(36)	.1..		UEFJWAC	"X'40'" Write Add Complete
Journal to be used for Automatic Journalling				
(37)	BITSTRING	1	UEFDSJID	User Journal Id
Access Method Indicator				
(38)	BITSTRING	1	UEFDSACC	Access Method
(38)	1...		UEFVSAM	"X'80'" Vsam
(38)	.1..		UEFBDAM	"X'40'" Bdam
(38)	..1.		UEFDTBL	"X'20'" Data table
(38)	...1		UEFDTUM	"X'10'" User data table
(38)	.... ..1.		UEFCFDT	"X'02'" Coupling Facility Data Table
Recovery Attributes of Base Cluster				
(39)	BITSTRING	1	UEFBCRV	Recovery Attrs of Base Cluster

Table 662. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(39)	..1.		UEFBCFR	"X'20'" Forward Recovery
(39)	...1		UEFBCLOG	"X'10'" Logging
(39)	.... 1...		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			
(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)	..1.		UEFBCUNA	"X'20'" Data set marked unavailable
(61)	CHARACTER	3		Reserved
	Address of read only copy of ACB This address is only set up when calling the XFCSREQC user exit after the completion of a successful OPEN request. This field contains zero in all other cases. Note: If UEFDTBL and 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 TS (UE) User Exit Program Block DSECT
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1992, 2003
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 663.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	112	DFHEPB	EPB CONTROL BLOCK
(0)	CHARACTER	4	EPBSAA	STORAGE ACCOUNTING AREA
(4)	ADDRESS	4	EPBCHAIN	ADDRESS OF NEXT EPB
(8)	CHARACTER	8	EPBEPN	NAME OF EXIT PROGRAM
(10)	ADDRESS	4	EPBEPA	ADDRESS OF EXIT PROGRAM
(14)	ADDRESS	4	EPBGAA	ADDRESS OF GLOBAL AREA
(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

Table 663. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2C)	BIT(8)	1	*	
(2C)	1...		UESTART	X'80'
(2C)	.111 1111		*	reserved
(2D)	UNSIGNED	3	*	reserved
(30)	HALFWORD	2	EPBACNT	ACTIVATION COUNT
(32)	HALFWORD	2	EPBTAL	LENGTH OF TASK AREA
(34)	BIT(8)	1	EPBFLAGS	FLAG-BYTE
(34)	1...		UENODEL	X'80' prog loaded by user - do not delete when disabling
(34)	.1..		*	X'40' reserved
(34)	..1.		UEDISABL	X'20' entryname is disabled
(34)	...1		UERESYNC	X'10' exec resync issued
(34)	.... 1...		UELINKAM	X'08' linkeditmode specified
(34)	.... .1..		UEIDWAIT	X'04' indoubtwait specified
(34)	.... ..1.		UEPURGE	X'02' purgeable specified
(34)	1		*	reserved
(35)	CHARACTER	3	*	Reserved
(38)	FULLWORD	4	EPBBIND	INTEREST PROFILE
(3C)	CHARACTER	8	EPBEMN	LOAD-MODULE NAME
(44)	CHARACTER	8	EPBQUAL	Qualifier to TRUE's name
(4C)	CHARACTER	8	EPBTSPTK	TIE STORAGE SUBPOOL TOKEN
(54)	ADDRESS	4	EPBTIEA	Addr of TIE resvd for shutdwn
(58)	ADDRESS	4	EPBPGTKN	Program Token
(5C)	CHARACTER	8	EPBENTIM	Time EPB built
(64)	CHARACTER	2	EPBTPGMM	TRUE's program_mode
(66)	CHARACTER	2	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 664.

Len	Type	Value	Name	Description
Length of the EPB control block				
2	DECIMAL	112	EPBLEN	EPB length

UEPL - User Exit Program Link

```
CONTROL BLOCK NAME = DFHUEPLC
                                                    (progeny of DFHUEPLC)
DESCRIPTIVE NAME = CICS TS (UE) User Exit Program Link DSECT
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1992, 1998
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 665.

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
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS USER EXIT MACRO CALL, TYPE=RM
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1992
FUNCTION =
       Exercise the DFHUEXIT TYPE=RM option.
       This is part of the CICS User Exits support
       The DFHUEXIT TYPE=RM gives the programmer access to the
       parameter list for a task related user exit (TRUE).
       An instance of the control block represents one task
       related user exit.
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS = This copybook calls DFHUEXIT TYPE=RM
NOTES :
```

```
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES = Not applicable
     DATA AREAS = This copybook generates an entry in Data Areas
         Manual for DFHUEXIT TYPE=RM.
     CONTROL BLOCKS = Not applicable
     GLOBAL VARIABLES (Macro pass) = Not applicable
-------------------------------------------------------------------
```

Table 666.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHUEPAR	
(0)	ADDRESS	4	UEPEXN	ADDRESS OF EXIT NUMBER
(4)	ADDRESS	4	UEPGAA	ADDRESS OF GLOBAL AREA ((ZERO=NO WORK AREA)
(8)	ADDRESS	4	UEPGAL	ADDRESS OF GLOBAL AREA LENGTH
(C)	ADDRESS	4	UEPCRCA	ADDRESS OF CURRENT RETURN-CODE
(10)	ADDRESS	4	UEPTCA	(reserved)
(14)	ADDRESS	4	UEPCSA	(reserved)
(18)	ADDRESS	4	UEPEPSA	ADDRESS OF REGISTER SAVE AREA FOR USE BY EXIT PROGRAM
(1C)	ADDRESS	4	UEPHMSA	ADDRESS OF SAVE AREA USED FOR HOST MODULE'S REGISTERS
END OF RETURN CODE EQUATES				
(1C)	1...		UERTPREP	"X'80'" PREPARE
(1C)	.1..		UERTCOMM	"X'40'" COMMIT UNCONDITIONALLY
(1C)	..1.		UERTBACK	"X'20'" BACKOUT
(1C)	...1		UERTDGCS	"X'10'" LOST TO CICS INITIAL START
(1C)	.... 1...		UERTDGNK	"X'08'" RM SHOULD NOT BE IN-DOUBT
(1C)	.... .1..		UERTWAIT	"X'04'" RM WILL HAVE TO WAIT FOR OUTCOME
(1C)	.... ..1.		UERTRSYN	"X'02'" RESYNC
(1C)	1		UERTLAST	"X'01'" LAST COMMIT/ABORT IN THREAD
(1C)	1...		UERTONLY	"X'80'" RM IS ONLY UPDATER - TRUE CAN PERFORM SINGLE PHASE COMMIT

Table 666. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	.1..		UERTELUW	"X'40'" RM IS READ ONLY - TRUE CAN INVOKE RM WITH END LUW CALL.
(1C)	.... .1..		UERFPREP	"4" VOTE-YES
(1C)	.... 1...		UERFBACK	"8" VOTE-NO
(1C)	.... 11..		UERFNLOG	"12" VOTE-YES-BUT-DO-NOT-LOG
(1C)	.... .1..		UERFDONE	"4" COMMIT/ABORT COMPLETE
(1C)	.... 1...		UERFHOLD	"8" REMEMBER COMMIT/ABORT
(1C)	.... .1..		UERFOK	"4" SINGLE PHASE (UERTONLY): COMMITTED OK
(1C)	.... 1...		UERFBOUT	"8" SINGLE PHASE (UERTONLY): BACKED OUT
(1C)	1...		UERTEOTR	"X'80'" END OF THREAD
(1C)	.1..		UERTSOTR	"X'40'" START OF TASK
(1C)	1... ..1.		UERTRTTR	"X'82'" no longer used
(1C)	.1.. ..1.		UERTRTST	"X'42'" no longer used
(1C)	.... .1..		UERFEOTR	"4" CALL UNDERSTOOD
(1C)	1...		UERTCONN	"X'80'" EXTERNAL RESOURCE MANAGER IS
(1C)	.1..		UERTNCON	"X'40'" EXTERNAL RESOURCE MANAGER IS NOT
(1C)	1...		UERTCORD	"X'80'" CICS Orderly Termination
(1C)	.1..		UERTCIMM	"X'40'" CICS Immediate Termination
(1C)	..1.		UERTCABY	"X'20'" CICS ABEND (Retry possible - TCBs Dispatchable)
(1C)	...1		UERTCABN	"X'10'" CICS ABEND (Retry NOT possible - TCBs Dispatchable)
(1C)	1		UERTOPCA	"X'01'" Operator Cancel (Retry NOT possible - TCBs NOT dispatchable)
(20)	ADDRESS	4	UEPURID	ADDRESS OF LUW-ID
(24)	ADDRESS	4	UEPTAA	ADDRESS OF TASK AREA
(28)	ADDRESS	4	UEPTAL	ADDRESS OF TASK AREA LENGTH
(2C)	ADDRESS	4	UEPEIB	ADDRESS OF CURRENT EIB
(30)	ADDRESS	4	UEPFLAGS	ADDRESS OF FLAGWORD

Table 666. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(34)	ADDRESS	4	UEPRMSTK	ADDRESS OF KERNEL STACK ENTRY
(38)	ADDRESS	4	UEPUOWDS	ADDRESS OF LU6.2 UNIT OF WORK ID
(3C)	ADDRESS	4	UEPSECFLG	ADDRESS OF USER SECURITY BLOCK FLAG
(3C)	1...		UEPNOSEC	"X'80'" SECURITY INACTIVE FOR THIS SYSTEM
(3C)	..1.		UEPSEC	"X'20'" SECURITY ACTIVE FOR THIS SYSTEM
(40)	ADDRESS	4	UEPSECBLK	ADDRESS OF ADDRESS OF USER SECURITY BLOCK
(44)	ADDRESS	4	UEPRMQUA	ADDRESS OF RM QUALIFIER
(48)	FULLWORD	4	UEPCALAM	ADDRESS OF CALLER AMODE INDICATION BYTE
(48)	1...		UEPCAM31	"X'80'" INDICATES ORIGINAL CALLER WAS AMODE 31
(4C)	ADDRESS	4	UEPSYNCA	ADDRESS OF PARMS PASSED TO SYNC PT.
(4C)	1...		UEPSUPDR	"X'80'" RM UNDERSTANDS SINGLE UPDATER PROTOCOL
(4C)	.1..		UEPREADO	"X'40'" RM IS READ ONLY FOR THIS LUW
(50)	ADDRESS	4	UEPTIND	ADDRESS OF CALLER'S TASK INDICATORS
(50)	1...		UEPTANY	"X'80'" DATA LOCATION ANY
(50)	.1..		UEPTCICS	"X'40'" TASKDATAKEY = CICS
The following indicator is set after a failure to switch to the TCB expected by the TRUE. This is used only when the caller is Sync-Point or End_of_Task. All other callers are Abended.				
(50)	..1.		UEPTUTCB	"X'20'" UNEXPECTED TCB
(50)	CHARACTER	0	UEPTQR	"C'QR', 2" QUASI-REENTRANT (QR) TCB
(50)	CHARACTER	0	UEPTCO	"C'CO', 2" CONCURRENT (CO) TCB
(50)	CHARACTER	0	UEPTRO	"C'RO', 2" RESOURCE_OWNING (RO) TCB
(50)	CHARACTER	0	UEPTFO	"C'FO', 2" FILE_OWNING (FO) TCB

Table 666. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(50)	CHARACTER	0	UEPTSZ	"C'SZ', 2" FEPI (SZ) TCB
(50)	CHARACTER	0	UEPTRP	"C'RP', 2" RP MODE TCB
(50)	CHARACTER	0	UEPTL8	"C'L8', 2" AN OPEN TCB, CICS KEY
(50)	CHARACTER	0	UEPTL9	"C'L9', 2" AN OPEN TCB, USER KEY
(50)	CHARACTER	0	UEPTSO	"C'SO', 2" SOCKETS TCB
(50)	CHARACTER	0	UEPTSL	"C'SL', 2" SOCKETS LISTENER TCB
(50)	CHARACTER	0	UEPTSP	"C'SP', 2" SSL PTHREAD OWNING TCB
(50)	CHARACTER	0	UEPTS8	"C'S8', 2" SSL TCB
(50)	CHARACTER	0	UEPTTP	"C'TP', 2" THREAD OWNING TCB
(50)	CHARACTER	0	UEPTT8	"C'T8', 2" THREAD TCB, CICS KEY
(50)	CHARACTER	0	UEPTJ8	"C'J8', 2" A JAVA TCB
(50)	CHARACTER	0	UEPTJ9	"C'J9', 2" A JAVA TCB, USER KEY
(50)	CHARACTER	0	UEPTJM	"C'JM', 2" A MASTER JVM TCB
(50)	CHARACTER	0	UEPTD2	"C'D2', 2" CICS-DB2 HOUSEKEEPING TCB
(50)	CHARACTER	0	UEPTEP	"C'EP', 2" EVENT PROCESSING TCB
(50)	CHARACTER	0	UEPTJS	"C'JS', 2" JOBSTEP TCB
(54)	ADDRESS	4	UEPPBTOK	ADDRESS OF CALLER'S PB TOKEN
(58)	ADDRESS	4	UEPTRCE	Address of trace flag byte
(58)	1...		UEPTRLV1	"X'80'" RMI Level 1 trace active
(58)	.1..		UEPTRLV2	"X'40'" RMI Level 2 trace active
(5C)	FULLWORD	4	UEPRMEND (0)	END of TYPE=RM Plist
(5C)	.1.1 11..		UEPRMLEN	"UEPRMEND-UEPEXN" Length of TYPE=RM Plist
THE FOLLOWING EQU DEFINITIONS RELATE TO THE OBJECT THAT IS ADDRESSED BY UEPFLAGS, NOT TO UEPFLAGS ITSELF.				
(5C)	....		UEF0OFFS	"0" FIRST BYTE ...
FIRST BYTE IS RESERVED FOR CICS/VS 1.5 COMPATIBILITY				
(5C)	1		UEF1OFFS	"1" SECOND BYTE
(5C)	.... ..1.		UEF2OFFS	"2" THIRD BYTE
(5C)	.... ..1.		UEFDTASK	"UEF2OFFS" BYTE-DISPL = 2
(5C)	.... .111		UEFPTASK	"7" BIT-POSITN = 7

Table 666. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5C)	1		UEFMTASK	"X'01'" BIT-MASK
(5C)	.... ..1.		UEFDCTER	"UEF2OFFS" BYTE-DISPL = 2
(5C)	.... .1.1		UEFPCTER	"5" BIT-POSITION = 5
(5C)	.... .1..		UEFMCTER	"X'04'" BIT-MASK
(5C)	.... ..1.		UEFDFEDF	"UEF2OFFS" BYTE-DISPL = 2
(5C)	11		UEFPFEDF	"3" BIT-POSITION = 3
(5C)	...1		UEFMFEDF	"X'10'" BIT-MASK
(5C)	.... ..1.		UEFDSWAE	"UEF2OFFS" BYTE-DISPL = 2
(5C)	.... ..1.		UEFPSWAE	"2" BIT-POSITION = 2
(5C)	..1.		UEFMSWAE	"X'20'" BIT-MASK
(5C)	.... ..1.		UEFDCON	"UEF2OFFS" BYTE-DISPL = 2
(5C)	1		UEFPCON	"1" BIT-POSITION = 1
(5C)	.1..		UEFMCON	"X'40'" BIT-MASK
(5C)	11		UEF3OFFS	"3" FOURTH BYTE
(5C)	11		UEFDSPI	"UEF3OFFS" BYTE-DISPL = 3
(5C)	.... .11.		UEFPSPI	"6" BIT-POSITN = 6
(5C)	.... ..1.		UEFMSPI	"X'02'" BIT-MASK
(5C)	11		UEFDAPPL	"UEF3OFFS" BYTE-DISPL = 3
(5C)	.... .1.1		UEFPAPPL	"5" BIT-POSITN = 5
(5C)	.... .1..		UEFMAPPL	"X'04'" BIT-MASK
(5C)	11		UEFDSYNC	"UEF3OFFS" BYTE-DISPL = 3
(5C)	11		UEFPSYNC	"3" BIT-POSITN = 3
(5C)	...1		UEFMSYNC	"X'10'" BIT-MASK

DUMMY SECTION FOR ROUTING FLAGS

Table 667.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHUEFLG	
(0)	BITSTRING	4		

DUMMY SECTION FOR ROUTING ARGUMENT

Table 668.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHUERTR	
(0)	BITSTRING	1	UERTFGP	FUNCTION GROUP

Table 668. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	BITSTRING	1	UERTFID	ORIGIN-IDENTIFIER
(1)	.... ..1.		UERTAPPL	"31-(UEFDAPPL*8+ UEFPAPPL)" FROM API
(1)	.... ..1.		UERTFAPI	"UERTAPPL" FROM API
(1)	.... ..1.		UERTAPI	"UERTAPPL" FROM API
(1)	1		UERTSPI	"31-(UEFDSPI*8+ UEFPSPI)" FROM SPI
(1)	.... .1..		UERTSYNC	"31-(UEFDSYNC*8+ UEFPSYNC)" FROM SP-MGR
(1)	.... 1...		UERTTASK	"31-(UEFDTASK*8+ UEFPTASK)" FROM TASK-MGR
(1)	.... 1.1.		UERTCTER	"31-(UEFDCTER*8+ UEFPCTER)" FROM CICS-TERMINATION
(1)	.... 11..		UERTFEDF	"31-(UEFDFEDF*8+ UEFPFEDF)" FROM CEDF
(1)	.... 111.		UERTFCON	"31-(UEFDCON*8+ UEFPCON)" FROM context mgt (START)
(1)	.... 11.1		UERTSWAE	"31-(UEFDSWAE*8+ UEFPSWAE)" FROM Switch appl env
(1)	..1.		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)	.... .1..		UERTRLEN	"UERTREND-UERTFGP" Length of recursive section

DUMMY SECTION FOR workload manager call

Table 669.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHUECON	,
(0)	ADDRESS	4	UECON_EXEC_PLIST_PTR	Address of EXEC CICS START parameter list described by copy book DFHICUED
(4)	ADDRESS	4	UECON_CORRELATOR_PTR	Address of 512 byte area in which an
ARM correlator can be placed				
(8)	ADDRESS	4	UECON_ICRX_PTR	Address of ICRX in task storage

Table 669. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C)	FULLWORD	4	UECON_ICRX_LEN	Length of ICRX in task storage
(10)	ADDRESS	4	UECON_ADAPTER_ID_PTR	Address of a 64 byte area into which
	an adapter identifier can be placed			
(14)	ADDRESS	4	UECON_ADAPTER_DATA1_ PTR	Address of a 64 byte area into
	which adapter data can be placed			
(18)	ADDRESS	4	UECON_ADAPTER_DATA2_ PTR	Address of a 64 byte area into
	which adapter data can be placed			
(1C)	ADDRESS	4	UECON_ADAPTER_DATA3_ PTR	Address of a 64 byte area into
	which adapter data can be placed			
(20)	ADDRESS	4	UECON_FLAGS	Address of a 1-byte flag
(20)	1...		UECON_ADAPTER_DATA_ON	"X'80"' Adapter data already be set
EXITID EQU-LIST - Global User Exit Number				
(20)	1		XTCIN	"1"
(20)	.... ..1.		XTCOUT	"2"
(20)	11		XTCATT	"3"
(20)	.... .1..		XTCTIN	"4"
(20)	.... .1.1		XTCTOUT	"5"
(20)	.... .11.		XDSBWT	"6"
(20)	.... .111		XDSAWT	"7"
(20)	.... 1...		XLGSTRM	"8"
(20)	.... 1..1		XDUREQ	"9"
(20)	.... 1.1.		XDUCLSE	"10"
(20)	.... 1.11		XDUOUT	"11"
(20)	.... 11..		XMEOUT	"12"
(20)	.... 11.1		XFCREQ	"13"
(20)	.... 111.		XFCREQC	"14"
(20)	 1111		XTSPTOUT	"15"
(20)	...1		XGMTEXT	"16"
(20)	...1 ...1		XMNOUT	"17"
(20)	...1 ..1.		XRCINIT	"18"
(20)	...1 ..11		XRCINPT	"19"
(20)	...1 .1..		XICREQ	"20"
(20)	...1 .1.1		XICEXP	"21"
(20)	...1 .11.		XISLCLQ	"22"
(20)	...1 .111		XPCFTCH	"23"
(20)	...1 1...		XPCHAIR	"24"

Table 669. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	...1 1..1		XPCTA	"25"
(20)	...1 1.1.		XPCABND	"26"
(20)	...1 1.11		XPCREQ	"27"
(20)	...1 11..		XPCREQC	"28"
(20)	...1 11.1		XTDREQ	"29"
(20)	...1 111.		XTDIN	"30"
(20)	...1 1111		XTDOUT	"31"
(20)	..1.		XTSQRIN	"32"
(20)	..1. ...1		XTSQROUT	"33"
(20)	..1. ..1.		XTSPTIN	"34"
(20)	..1. ..11		XZCIN	"35"
(20)	..1. .1..		XZCOUT	"36"
(20)	..1. .1.1		XZCATT	"37"
(20)	..1. .11.		XZCOUT1	"38"
(20)	..1. .111		XXRSTAT	"39"
(20)	..1. 1...		XXDFA	"40"
(20)	..1. 1..1		XXDFB	"41"
(20)	..1. 1.1.		XXDTO	"42"
(20)	..1. 1.11		XSTOUT	"43"
(20)	..1. 11..		XDLIPRE	"44"
(20)	..1. 11.1		XDLIPOST	"45"
(20)	..1. 111.		XFCSREQ	"46"
(20)	..1. 1111		XEIIN	"47"
(20)	..11		XEIOUT	"48"
(20)	..11 ...1		XALTENF	"49"
(20)	..11 ..1.		XICTENF	"50"
(20)	..11 ..11		XDTAD	"51"
(20)	..11 .1..		XDTRD	"52"
(20)	..11 .1.1		XDTLC	"53"
(20)	..11 .11.		XSTERM	"54"
(20)	..11 .111		XSRAB	"55"
(20)	..11 1...		XFCSREQC	"56"
(20)	..11 1..1		XSZBRQ	"57"
(20)	..11 1.1.		XSZARQ	"58"
(20)	..11 1.11		XISCONA	"59"
(20)	..11 11..		XRSINDI	"60"
(20)	..11 11.1		XXMATT	"61"
(20)	..11 111.		XZIQUE	"62"
(20)	..11 1111		XTSEREQ	"63"
(20)	.1..		XTSEREQC	"64"

Table 669. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	.1.. ...1		XTDEREQ	"65"
(20)	.1.. ..1.		XTDEREQC	"66"
(20)	.1.. ..11		XICEREQ	"67"
(20)	.1.. .1..		XICEREQC	"68"
(20)	.1.. .1.1		XALCAID	"69"
(20)	.1.. .11.		XSNON	"70"
(20)	.1.. .111		XSNOFF	"71"
(20)	.1.. 1...		XRMIIN	"72"
(20)	.1.. 1..1		XRMIOUT	"73"
(20)	.1.. 1.1.		XAKUSER	"74"
(20)	.1.. 1.11		XFCNREC	"75"
(20)	.1.. 11..		XFCBFAIL	"76"
(20)	.1.. 11.1		XFCLDEL	"77"
(20)	.1.. 111.		XFCBOVER	"78"
(20)	.1.. 1111		XFCBOUT	"79"
(20)	.1.1		XFCVSDS	"80"
(20)	.1.1 ...1		XFCQUIS	"81"
(20)	.1.1 ..1.		XDUREQC	"82"
(20)	.1.1 ..11		XFCAREQ	"83"
(20)	.1.1 .1..		XFCAREQC	"84"
(20)	.1.1 .1.1		XEISPIN	"85"
(20)	.1.1 .11.		XEISPOUT	"86"
(20)	.1.1 .111		XNQEREQ	"87"
(20)	.1.1 1...		XNQEREQC	"88"
(20)	.1.1 1..1		XFAINTU	"89"
(20)	.1.1 1.1.		XBMIN	"90"
(20)	.1.1 1.11		XBMOUT	"91"
(20)	.1.1 11..		XBADEACT	"92"
(20)	.1.1 11.1		XLDLOAD	"93"
(20)	.1.1 111.		XLDELETE	"94"
(20)	.1.1 1111		XSNEX	"95"
(20)	.11.		XFCFRIN	"96"
(20)	.11. ...1		XFCFROUT	"97"
(20)	.11. ..1.		XICERES	"98"
(20)	.11. ..11		XPCERES	"99"
(20)	.11. .1..		XWBOPEN	"100"
(20)	.11. .1.1		XWBSNDO	"101"
(20)	.11. .11.		XWBAUTH	"102"
(20)	.11. .111		XAPADMGR	"103"
(20)	.11. 1...		XISQUE	"104"

Table 669. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	.11. 1..1		XWSPRROO	"105"
(20)	.11. 1.1.		XWSPRRWI	"106"
(20)	.11. 1.11		XWSPRROI	"107"
(20)	.11. 11..		XWSPRRWO	"108"
(20)	.11. 11.1		XWSRQRWO	"109"
(20)	.11. 111.		XWSRQROO	"110"
(20)	.11. 1111		XWSRQROI	"111"
(20)	.111		XWSRQRWI	"112"
(20)	.111 ...1		XWSSRRWO	"113"
(20)	.111 ..1.		XWSSRROO	"114"
(20)	.111 ..11		XWSSRROI	"115"
(20)	.111 .1..		XWSSRRWI	"116"
(20)	.111 .1.1		XISQLCL	"117"
(20)	.111 .11.		XFCRLSCO	"118"
(20)	.111 .111		XEPCAP	"119"

UETE - User Exit Table Entry

```
CONTROL BLOCK NAME = DFHUETEC
                                                (progeny of DFHUETEC)
DESCRIPTIVE NAME = CICS TS (UE) User Exit Table Entry DSECT
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1992, 1998
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 670.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	DFHUETE	

Table 670. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	UNSIGNED	1	UETEEXN	EXIT NUMBER
(1)	CHARACTER	1	*	RESERVED
(2)	HALFWORD	2	UETEDRC	DEFAULT RETURN-CODE
(4)	HALFWORD	2	UETEMRC	MAXIMUM RETURN-CODE
(6)	UNSIGNED	2	UETEFLGS	FLAG BYTES
(6)	UNSIGNED	1	UETEFLG1	FLAG1
(7)	BIT(8)	1	UETEFLG2	FLAG2
(7)	1...		UETEXCAP	Exit is EXEC capable
(7)	.1..		UETERCSV	May be called recursively
(7)	..11 1111		*	Reserved
(8)	ADDRESS	4	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 671.

Len	Type	Value	Name	Description
Possible values of UETEFLG1				
1	DECIMAL	0	UETEAPE	EXIT IN AP DOMAIN
1	DECIMAL	255	UETEALL	EXIT IN ALL DOMAINS (POSSIBLY)

UETH - User Exit Table Header

```
CONTROL BLOCK NAME = DFHUETHC
                                                (progeny of DFHUETHC)
DESCRIPTIVE NAME = CICS TS (UE) User Exit Table Header DSECT
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1992, 2000
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 672.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	176	DFHUETH	
(0)	UNSIGNED	4	UETHWA (32)	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 673.

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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	1...		UEPGANY	"X'80'" DATA LOCATION ANY
(20)	.1..		UEPGCICS	"X'40'" TASKDATAKEY = CICS
(20)	CHARACTER	0	UEPTQR	"C'QR', 2" QUASI-REENTRANT (QR) TCB
(20)	CHARACTER	0	UEPTCO	"C'CO', 2" CONCURRENT (CO) TCB
(20)	CHARACTER	0	UEPTRO	"C'RO', 2" RESOURCE_OWNING (RO) TCB
(20)	CHARACTER	0	UEPTFO	"C'FO', 2" FILE_OWNING (FO) TCB
(20)	CHARACTER	0	UEPTSZ	"C'SZ', 2" FEPI (SZ) TCB
(20)	CHARACTER	0	UEPTRP	"C'RP', 2" RP MODE TCB
(20)	CHARACTER	0	UEPTL8	"C'L8', 2" AN OPEN TCB, CICS KEY
(20)	CHARACTER	0	UEPTL9	"C'L9', 2" An OPEN TCB, USER KEY
(20)	CHARACTER	0	UEPTSO	"C'SO', 2" SOCKETS TCB
(20)	CHARACTER	0	UEPTSL	"C'SL', 2" SOCKETS LISTENER TCB
(20)	CHARACTER	0	UEPTSP	"C'SP', 2" SSL PTHREAD OWNING TCB
(20)	CHARACTER	0	UEPTS8	"C'S8', 2" SSL TCB
(20)	CHARACTER	0	UEPTTP	"C'TP', 2" THREAD OWNING TCB
(20)	CHARACTER	0	UEPTT8	"C'T8', 2" THREAD TCB, CICS KEY
(20)	CHARACTER	0	UEPTX8	"C'X8', 2" XPLINK TCB, CICS KEY
(20)	CHARACTER	0	UEPTX9	"C'X9', 2" XPLINK TCB, USER KEY
(20)	CHARACTER	0	UEPTD2	"C'D2', 2" CICS-DB2 HOUSEKEEPING TCB
(20)	CHARACTER	0	UEPTEP	"C'EP', 2" EVENT PROCESSING TCB
(20)	CHARACTER	0	UEPTJS	"C'JS', 2" JOBSTEP TCB
(24)	ADDRESS	4	UEPSTACK	ADDRESS OF KERNEL STACK ENTRY
(28)	ADDRESS	4	UEPXSTOR	ADDRESS OF STORAGE FOR XPI PARAMETERS
(2C)	ADDRESS	4	UEPTRACE	ADDRESS OF TRACE FLAG
(2C)	1...		UEPTRON	"X'80'" TRACE FLAG ON

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2C)	....		UERCNORM	"X'00'" CONTINUE NORMAL PROCESSING
(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)	1		UEPFLOG	"X'01'" file log attribute
(3C)	ADDRESS	4	UEPFAIL	ADDRESS OF THE FAILURE REASON CODE
VALID VALUES FOR UEPFAIL ARE:				
(3C)	1		UEPATTF	"X'01'" FILE LOG ATTRIBUTE MISMATCH
(3C)	.... ..1.		UEPBWOF	"X'02'" BWO ATTRIBUTE MISMATCH
(40)	ADDRESS	4	UEPOPEN	ADDRESS OF ACTION FLAG
XFCAREQ PARAMETERS VALID RETURN CODES FOR XFCAREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPCLPS	ADDRESS OF COMMAND LEVEL PLIST
(34)	ADDRESS	4	UEPFATOK	ADDR OF TOKEN TO PASS TO REQC EXIT
(38)	ADDRESS	4	UEPRCODE	ADDRESS OF COPY OF EIBRCODE
(3C)	ADDRESS	4	UEPRESP	ADDRESS OF COPY OF EIBRESP

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(4C)	ADDRESS	4	UEPRSRCE	ADDRESS OF COPY OF EIBRSRCE
(50)	ADDRESS	4	UEPFSHIP	ADDRESS OF FUNCTION SHIP AREA

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
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				
(30)	ADDRESS	4	UEPFSREQ	ADDRESS OF FILE STATE REQUEST BYTE
VALID VALUES FOR UEPFSREQ ARE: First byte				
(30)	1		UEPFSOPN	"X'01'" Open File Request
(30)	.... ..1.		UEPFSCLS	"X'02'" Close File Request

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(30)	11		UEPFSENB	"X'03'" Enable File Request
(30)	.... .1..		UEPFSDIS	"X'04'" Disable File Request
(30)	.... .1.1		UEPFSCAN	"X'05'" Cancel Close File Request
Second byte - meaning depends on type of request Values for open				
(30)	....		UEPFSNOP	"X'00'" Normal Open
(30)	.... ..1.		UEPFSOFB	"X'02'" Open for backout
Values for close				
(30)	....		UEPFSNC	"X'00'" Normal Close
(30)	1		UEPFSCP	"X'01'" Close Pending
(30)	.... ..1.		UEPFSELM	"X'02'" End of Load Mode Close
(30)	.... .11.		UEPFSIMM	"X'06'" Immediate Close
(30)	.... .111		UEPFSICP	"X'07'" Immediate Close Pending
(30)	.... 1...		UEPFSQU	"X'08'" RLS Quiesce Close
(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 673. (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 containing 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:				
(3C)	....		UEFSNORM	"X'00"' NORMAL
(3C)	.... .1..		UEFSWARN	"X'04"' WARNING
(3C)	.... 1...		UEFSFAIL	"X'08"' FAILED
(3C)	...1		UEFSPEND	"X'10"' PENDING
(40)	ADDRESS	4		RESERVED
(44)	ADDRESS	4		RESERVED
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
XRCINIT PARAMETERS VALID RETURN CODES FOR XRCINIT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) FIRST PARAMETER DEPENDS ON VALUE IN TYPE OF REQUEST				

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(30)	ADDRESS	4	UEPRSTRT	ADDRESS OF RESTART TYPE BYTE
(34)	ADDRESS	4	UEPTREQ	ADDRESS OF TYPE OF REQUEST
EQUATES FOR TYPE OF REQUEST, ADDRESSED BY UEPTREQ				
(34)	....		UEUSINIT	"X'00'" INITIALIZATION OF USER RECOVERY
(34)	1...		UEUSTERM	"X'80'" TERMINATION OF USER RECOVERY
EQUATES FOR TYPE OF RESTART, ADDRESSED BY UEPRSTRT				
(34)	....		UEPRWARM	"X'00'" WARM START
(34)	1		UEPREMER	"X'01'" EMERGENCY RESTART
XRCINPT PARAMETERS VALID RETURN CODES FOR XRCINPT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS(NO ACTION)				
(30)	ADDRESS	4	UEPUOWST	ADDRESS OF UNIT OF WORK STATUS BYTE
(34)	ADDRESS	4	UEPLGREC	ADDRESS OF LOG RECORD
(38)	ADDRESS	4	UEPLGLEN	ADDRESS OF FULLWORD CONTAINING LENGTH OF LOG RECORD
(3C)	ADDRESS	4	UEPTAID	ADDRESS OF FOUR BYTE TASK ID
(40)	ADDRESS	4	UEPTRID	ADDRESS OF FOUR BYTE TRANSACTION ID
(44)	ADDRESS	4	UEPTEID	ADDRESS OF FOUR BYTE TERMINAL ID
EQUATES FOR UNIT OF WORK STATUS INDICATOR, ADDRESSED BY UEPUOWST NOTE: UEPTAID, UEPTRID AND UEPTEID ARE NOT VALID IF THE STATUS INDICATOR VALUE IS UEPUOWAK.				
(44)	....		UEPUOWAK	"X'00'" ACTIVITY KEYPOINT RECORD
(44)	1		UEPUOWCM	"X'01'" UNIT OF WORK COMMITTED
(44)	.... ..1.		UEPUOWBO	"X'02'" UNIT OF WORK BACKED OUT
(44)	11		UEPUOWIF	"X'03'" UNIT OF WORK WAS STILL IN FLIGHT
(44)	.... .1..		UEPUOWID	"X'04'" UNIT OF WORK IS IN DOUBT
XICREQ PARAMETERS VALID RETURN CODES FOR XICREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(30)	ADDRESS	4	UEPICQID	ADDRESS OF 8 BYTE FIELD CONTAINING REQUEST ID ON REQUEST
(34)	ADDRESS	4	UEPICTID	ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST
(38)	ADDRESS	4	UEPICTI	ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST
(3C)	ADDRESS	4	UEPICRQ1	ADDRESS OF COPY OF FIRST REQUEST TYPE BYTE
(40)	ADDRESS	4	UEPICRQ2	ADDRESS OF COPY OF SECOND REQUEST TYPE BYTE
(44)	ADDRESS	4	UEPICRT	ADDRESS OF 4 BYTE FIELD CONTAINING EXPIRY TIME OR INTERVAL ON REQUEST
XICEXP PARAMETERS VALID RETURN CODES FOR XICEXP ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPICE	ADDRESS OF ICE JUST EXPIRED
XICEREQ PARAMETERS VALID RETURN CODES FOR XICEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPICTOK	ADDRESS OF TOKEN TO PASS TO XICEREQC
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
(50)	ADDRESS	4		UEPDATE - AS DEFINED ABOVE
(54)	ADDRESS	4		UEPTIME - AS DEFINED ABOVE
(58)	ADDRESS	4		RESERVED
(5C)	ADDRESS	4		RESERVED
XICTENF PARAMETERS VALID RETURN CODES FOR XICTENF ARE: UERCTEUN EQU X'00' TERMINAL UNKNOWN UERCNETN EQU X'04' TERMINAL KNOWN, NETNAME RETURNED UERCSYSI EQU X'08' TERMINAL KNOWN, SYSID RETURNED UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPICEVT	ADDRESS OF 2 BYTE FIELD CONTAINING REASON FOR EXIT BEING DRIVEN
(30)	CHARACTER	0	UEPICES	"C'S '" C'S ' = START COMMAND WITHOUT DATA
(30)	CHARACTER	0	UEPICESD	"C'SD'" C'SD' = START COMMAND WITH DATA
(34)	ADDRESS	4	UEPICTR	ADDRESS OF 1 BYTE FIELD CONTAINING TRANSACTION ROUTING INDICATOR.
(34)	111. 1...		UEPICTY	"C'Y'" C'Y' IF START ISSUED BY TRANSACTION ROUTED TASK.
(34)	11.1 .1.1		UEPICTN	"C'N'" OTHERWISE 'N'.
(38)	ADDRESS	4	UEPICFS	ADDRESS OF 1 BYTE FIELD CONTAINING FUNCTION SHIPPING INDICATOR.
(38)	111. 1...		UEPICFY	"C'Y'" C'Y' IF START REQUEST WAS FUNCTION SHIPPED.
(38)	11.1 .1.1		UEPICFN	"C'N'" OTHERWISE 'N'.
(3C)	ADDRESS	4	UEPICTRN	ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(40)	ADDRESS	4	UEPICRTR	ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST
(44)	ADDRESS	4	UEPICCTR	ADDRESS OF 4 BYTE FIELD CONTAINING ID OF TERMINAL RUNNING THE TASK IF THE COMMAND WAS TRANSACTION ROUTED. ID OF THE SESSION IF THE COMMAND WAS FUNCTION SHIPPED. OTHERWISE BLANKS.
(48)	ADDRESS	4	UEPICNTI	ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME OF SYSID, IF THERE IS A SYSID, OR BLANKS
(4C)	ADDRESS	4	UEPICSYI	ADDRESS OF 4 BYTE FIELD CONTAINING SYSID, IF ANY, PASSED TO EXIT OR BLANKS
(50)	ADDRESS	4	UEPICNTO	ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME RETURNED BY EXIT FOR RETURN CODE UERCNETN
(54)	ADDRESS	4	UEPICSYO	ADDRESS OF 4 BYTE FIELD CONTAINING SYSID RETURNED BY THE EXIT FOR RETURN CODE UERCSYSI
(58)	ADDRESS	4	UEPICNNI	ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, PASSED TO EXIT, OR BLANKS
(5C)	ADDRESS	4	UEPICNNO	ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, RETURNED BY EXIT, OR BLANKS
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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(30)	CHARACTER	0	UEPALETD	"C'QD'" C'QD'= TRANSIENT DATA TRIGGER LEVEL
(30)	CHARACTER	0	UEPALES	"C'S '" C'S ' = START COMMAND WITHOUT DATA
(30)	CHARACTER	0	UEPALESD	"C'SD'" C'SD' = START COMMAND WITH DATA
(34)	ADDRESS	4	UEPALTR	ADDRESS OF 1 BYTE FIELD CONTAINING TRANSACTION ROUTING INDICATOR (START COMMANDS ONLY)
(34)	111. 1...		UEPALTY	"C'Y'" C'Y' IF START ISSUED BY TRANSACTION ROUTED TASK.
(34)	11.1 .1.1		UEPALTN	"C'N'" OTHERWISE 'N'. 'N' FOR TD
(38)	ADDRESS	4	UEPALFS	ADDRESS OF 1 BYTE FIELD CONTAINING FUNCTION SHIPPING INDICATOR, (START COMMANDS ONLY)
(38)	111. 1...		UEPALFY	"C'Y'" C'Y' IF START REQUEST WAS FUNCTION SHIPPED.
(38)	11.1 .1.1		UEPALFN	"C'N'" OTHERWISE 'N'. 'N' FOR TD.
(3C)	ADDRESS	4	UEPALTRN	ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST
(40)	ADDRESS	4	UEPALRTR	ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST
(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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4C)	ADDRESS	4	UEPALSYI	ADDRESS OF 4 BYTE FIELD CONTAINING SYSID, IF ANY, PASSED TO EXIT OR BLANKS
(50)	ADDRESS	4	UEPALNTO	ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME RETURNED BY EXIT FOR RETURN CODE UERCNETN
(54)	ADDRESS	4	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.
(3C)	ADDRESS	4	UEPALLEN	A fullword binary value containing the length of the FROM data; or zero if the FROM option was not specified.

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(40)	ADDRESS	4	UEPALRQD	An eight-byte field containing the value of the REQID associated with the FROM data. The data was stored in a temporary storage queue with this name. This value was either specified explicitly using the REQID option on the START command, or created internally by CICS.
(44)	ADDRESS	4	UEPALQUE	An eight-byte field containing the value specified in the QUEUE option on the START command, or hex zeros if QUEUE was not specified.
(48)	ADDRESS	4	UEPALRTE	A four-byte field containing the value specified in the RTERMID option on the START command, or hex zeros if RTERMID was not specified.
(4C)	ADDRESS	4	UEPALRTA	A four-byte field containing the value specified in the RTRANSID option on the START command, or hex zeros if RTRANSID was not specified.
(50)	ADDRESS	4	UEPALFMH	A one-byte field containing the value X'FF' if the data contains FMHs, as specified by the FM option on the associated START command, and X'00' otherwise.
(54)	ADDRESS	4	UEPALSTC	A two-byte field containing the start code. This will be C'SZ' for FEPI starts; otherwise C'SD'.
(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				

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(30)	....		UEPAKPER	"X'00'" NORMAL PERIODIC KEYPOINT
(30)	1		UEPAKWSD	"X'01'" WARM SHUTDOWN KEYPOINT
XTCATT PARAMETERS VALID RETURN CODES FOR XTCATT ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4	UEPTCTTE	ADDRESS OF TCTTE
(34)	ADDRESS	4	UEPTIOA	ADDRESS OF TIOA
(38)	ADDRESS	4	UEPTCTLE	ADDRESS OF TCT LINE ENTRY
(3C)	ADDRESS	4		reserved
(40)	ADDRESS	4	UEPTRAN	ADDRESS OF TRANSID
XTCTIN PARAMETERS VALID RETURN CODES FOR XTCTIN ARE: UERCNORM EQU X'00' NORMAL(FORMAT TCAM HEADER) 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				
(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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(38)	ADDRESS	4		UEPTCTLE - AS DEFINED ABOVE
XZCIN PARAMETERS VALID RETURN CODES FOR XZCIN ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
XZCOUT PARAMETERS VALID RETURN CODES FOR XZCOUT ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
XZCOUT1 PARAMETERS VALID RETURN CODES FOR XZCOUT1 ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
XZCATT PARAMETERS VALID RETURN CODES FOR XZCATT ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
(38)	ADDRESS	4	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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
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
(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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(34)	ADDRESS	4	UEPUSER	ADDRESS OF USERID
(38)	ADDRESS	4	UEPTERM	ADDRESS OF TERMINAL ID
(3C)	ADDRESS	4	UEPPROG	ADDRESS OF APPLICATION PROGRAM NAME
(40)	HALFWORD	2	UEPPARMD (0)	END OF COMMON DOMAIN PARAMETERS
(40)	ADDRESS	4	UEP_FC_FUNCTION	address of a 1-byte function
(40)	1		UEP_FC_FUN_READ_INTO	"X'01'"
(40)	.... ..1.		UEP_FC_FUN_READ_SET	"X'02'"
(40)	11		UEP_FC_FUN_READ_ UPDATE_INTO	"X'03'"
(40)	.... .1..		UEP_FC_FUN_READ_ UPDATE_SET	"X'04'"
(40)	.... .1.1		UEP_FC_FUN_WRITE	"X'05'"
(40)	.... .11.		UEP_FC_FUN_REWRITE	"X'06'"
(40)	.... 1...		UEP_FC_FUN_REWRITE_ DELETE	"X'08'"
(40)	.... 1.1.		UEP_FC_FUN_DELETE	"X'0A'"
(40)	.... 1.11		UEP_FC_FUN_UNLOCK	"X'0B'"
(40)	.... 11..		UEP_FC_FUN_START_ BROWSE	"X'0C'"
(40)	.... 11.1		UEP_FC_FUN_READ_ NEXT_INTO	"X'0D'"
(40)	.... 111.		UEP_FC_FUN_READ_ NEXT_SET	"X'0E'"
(40)	 1111		UEP_FC_FUN_READ_ PREVIOUS_INTO	"X'0F'"
(40)	...1		UEP_FC_FUN_READ_ PREVIOUS_SET	"X'10'"
(40)	...1 ...1		UEP_FC_FUN_READ_ NEXT_UPDATE_INTO	"X'11'"
(40)	...1 ..1.		UEP_FC_FUN_READ_ NEXT_UPDATE_SET	"X'12'"
(40)	...1 ..11		UEP_FC_FUN_READ_ PREVIOUS_UPDATE_INTO	"X'13'"
(40)	...1 .1..		UEP_FC_FUN_READ_ PREVIOUS_UPDATE_SET	"X'14'"
(40)	...1 .1.1		UEP_FC_FUN_RESET_ BROWSE	"X'15'"
(40)	...1 .11.		UEP_FC_FUN_END_BROWSE	"X'16'"
(44)	ADDRESS	4		
(48)	ADDRESS	4	UEP_FC_FILE_NAME	address of 8-character file name
(4C)	ADDRESS	4	UEP_FC_BUFFER_P	address of fullword buffer address
(50)	ADDRESS	4	UEP_FC_BUFFER_L	address of fullword buffer length

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(54)	ADDRESS	4	UEP_FC_RECORD_P	address of fullword record address
(58)	ADDRESS	4	UEP_FC_RECORD_L	address of fullword record length
(5C)	ADDRESS	4	UEP_FC_MAX_RECORD_L	address of fullword max record leng
(60)	ADDRESS	4	UEP_FC_RECORD_ID_P	address of fullword record id addr
(64)	ADDRESS	4	UEP_FC_RECORD_ID_L	address of halfword record id len
(68)	ADDRESS	4	UEP_FC_FULL_RECORD_ ID_L	addr of halfword full rec id len
(6C)	ADDRESS	4	UEP_FC_RECORD_ID_TYPE	address of 1-byte RIDFLD type
(6C)	1		UEP_FC_KEY	"X'01'" VSAM KSDS or AIX PATH access
(6C)	.... ..1.		UEP_FC_RBA	"X'02'" VSAM ESDS or KSDS via RBA access
(6C)	11		UEP_FC_RRN	"X'03'" VSAM RRDS access
(6C)	.... .1..		UEP_FC_DEBKEY	"X'04'" BDAM deblocking by key
(6C)	.... .1.1		UEP_FC_DEBREC	"X'05'" BDAM deblocking by relative record
(6C)	.... .11.		UEP_FC_XRBA	"X'06'" VSAM ESDS with extended addressing
(70)	ADDRESS	4	UEP_FC_REQID	address of halfword value of REQID
(74)	ADDRESS	4	UEP_FC_NUMREC	address of fullword value of NUMREC
(78)	ADDRESS	4	UEP_FC_KEY_COMPARISON	address of 1-byte KEY COMP value
(78)	1		UEP_FC_GTEQ	"X'01'" Key greater than equal comparison
(78)	.... ..1.		UEP_FC_EQUAL	"X'02'" Key equal comparison
(7C)	ADDRESS	4	UEP_FC_GENERIC	address of 1-byte GENERIC value
(7C)	1		UEP_FC_GENERIC_KEY	"X'01'" Generic key
(7C)	.... ..1.		UEP_FC_FULL_KEY	"X'02'" Full key
(80)	ADDRESS	4	UEP_FC_MASS_INSERT	address of 1-byte MASS INSERT value
(80)	1		UEP_FC_SEQUENTIAL_ WRITE	"X'01'" VSAM sequential mode
(80)	.... ..1.		UEP_FC_DIRECT_WRITE	"X'02'" VSAM direct mode
(84)	ADDRESS	4	UEP_FC_READ_INTEGRITY	address of 1-byte READ INTEGRITY

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(84)	1		UEP_FC_CR	"X'01'" VSAM consistent read integrity
(84)	.... ..1.		UEP_FC_FCT_VALUE	"X'02'" VSAM read integrity as per FCTE
(84)	11		UEP_FC_NRI	"X'03'" VSAM no read integrity
(84)	.... .1..		UEP_FC_RR	"X'04'" VSAM repeatable read integrity
(88)	ADDRESS	4	UEP_FC_TOKEN	address of fullword value of TOKEN
(8C)	ADDRESS	4	UEP_FC_SYSID	address of four byte area for SYSID
(90)	ADDRESS	4	UEP_FC_LENGTH_ERROR_ CODE	address of 1-byte length error c
(90)	1		UEP_FC_LENGTH_OK	"X'01'"
(90)	.... ..1.		UEP_FC_BUFFER_LEN_ TOO_SMALL	"X'02'"
(90)	11		UEP_FC_RECORD_LEN_ TOO_LARGE	"X'03'"
(90)	.... .1..		UEP_FC_BUFFER_LEN_ NOT_FILE_LEN	"X'04'"
(90)	.... .1.1		UEP_FC_RECORD_LEN_ NOT_FILE_LEN	"X'05'"
(94)	ADDRESS	4	UEP_FC_DUPLICATE_ KEY_CODE	address of 1-byte dup key code
(94)	1		UEP_FC_DUPLICATE_KEY	"X'01'"
(94)	.... ..1.		UEP_FC_NOT_ DUPLICATE_KEY	"X'02'"
(98)	ADDRESS	4	UEP_FC_ACCMETH_ RETURN_CODE	address of 4-byte accmeth ret c
(9C)	ADDRESS	4	UEP_FC_RESPONSE	address of 1-byte response
(9C)	1		UEP_FC_RESPONSE_OK	"X'01'" ok response
(9C)	.... ..1.		UEP_FC_RESPONSE_ EXCEPTION	"X'02'" exception response
(9C)	11		UEP_FC_RESPONSE_ DISASTER	"X'03'" disaster response
(9C)	.... .1..		UEP_FC_RESPONSE_ INVALID	"X'04'" invalid response
(9C)	.... .11.		UEP_FC_RESPONSE_ PURGED	"X'06'" purged response
(A0)	ADDRESS	4	UEP_FC_REASON	address of 1-byte reason
(A0)	1		UEP_FC_REASON_ABEND	"X'01'"
(A0)	.... ..1.		UEP_FC_REASON_BDAM_ DELETE	"X'02'"
(A0)	11		UEP_FC_REASON_BDAM_ LENGTH_CHANGE	"X'03'"
(A0)	.... .1..		UEP_FC_REASON_BDAM_ KEY_CONVERSION	"X'04'"
(A0)	.... .1.1		UEP_FC_REASON_BDAM_ READ_PREVIOUS	"X'05'"

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A0)	.... .11.		UEP_FC_REASON_BDAM_ WRITE_MASS_INSERT	"X'06'"
(A0)	.... .111		UEP_FC_REASON_ BROWSE_UPD_NOT_RLS	"X'07'"
(A0)	.... 1...		UEP_FC_REASON_CACHE_ FAILURE	"X'08'"
(A0)	.... 1..1		UEP_FC_REASON_CFDT_ CONNECT_ERROR	"X'09'"
(A0)	.... 1.1.		UEP_FC_REASON_CFDT_ DISCONNECT_ERROR	"X'0A'"
(A0)	.... 1.11		UEP_FC_REASON_CFDT_ INVALID_CONTINUATION	"X'0B'"
(A0)	.... 11..		UEP_FC_REASON_CFDT_ POOL_FULL	"X'0C'"
(A0)	.... 11.1		UEP_FC_REASON_CFDT_ REOPEN_ERROR	"X'0D'"
(A0)	.... 111.		UEP_FC_REASON_CFDT_ SERVER_NOT_AVAILABLE	"X'0E'"
(A0)	 1111		UEP_FC_REASON_CFDT_ SERVER_NOT_FOUND	"X'0F'"
(A0)	...1		UEP_FC_REASON_CFDT_ SYSIDERR	"X'10'"
(A0)	...1 ...1		UEP_FC_REASON_CFDT_ TABLE_GONE	"X'11'"
(A0)	...1 ..1.		UEP_FC_REASON_CHANGED	"X'12'"
(A0)	...1 ..11		UEP_FC_REASON_ INTERNAL_ERROR_1	"X'13'"
(A0)	...1 .1..		UEP_FC_REASON_CR_ NOT_RLS	"X'14'"
(A0)	...1 .1.1		UEP_FC_REASON_ DATASET_BEING_COPIED	"X'15'"
(A0)	...1 .11.		UEP_FC_REASON_ DEADLOCK_DETECTED	"X'16'"
(A0)	...1 .111		UEP_FC_REASON_ DELETE_AFTER_READ_UPDATE	"X'17'"
(A0)	...1 1...		UEP_FC_REASON_ DELETE_BEFORE_READ_UPDATE	"X'18'"
(A0)	...1 1..1		UEP_FC_REASON_ DISASTER_PERCOLATION	"X'19'"
(A0)	...1 1.1.		UEP_FC_REASON_ DUPLICATE_READ_UPDATE	"X'1A'"
(A0)	...1 1.11		UEP_FC_REASON_ DUPLICATE_RECORD	"X'1B'"
(A0)	...1 11..		UEP_FC_REASON_ DUPLICATE_REQID	"X'1C'"
(A0)	...1 11.1		UEP_FC_REASON_END_ OF_FILE	"X'1D'"
(A0)	...1 111.		UEP_FC_REASON_ESDS_ DELETE	"X'1E'"

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A0)	...1 1111		UEP_FC_REASON_FILE_ DISABLED	"X'1F'"
(A0)	..1.		UEP_FC_REASON_FILE_ NOT_OPEN	"X'20'"
(A0)	..1. ...1		UEP_FC_REASON_FILE_ NOT_RECOVERABLE	"X'21'"
(A0)	..1. ..1.		UEP_FC_REASON_ FILENOTFOUND	"X'22'"
(A0)	..1. ..11		UEP_FC_REASON_FULL_ KEY_WRONG_LENGTH	"X'23'"
(A0)	..1. .1..		UEP_FC_REASON_ GENERIC_DELETE_NOT_KSDS	"X'24'"
(A0)	..1. .1.1		UEP_FC_REASON_ GENERIC_KEY_TOO_LONG	"X'25'"
(A0)	..1. .11.		UEP_FC_REASON_ ILLEGAL_KEY_TYPE_CHANGE	"X'26'"
(A0)	..1. .111		UEP_FC_REASON_ INSUFFICIENT_SPACE	"X'27'"
(A0)	..1. 1...		UEP_FC_REASON_ INTERNAL_ERROR_2	"X'28'"
(A0)	..1. 1..1		UEP_FC_REASON_ INTERNAL_ERROR_3	"X'29'"
(A0)	..1. 1.1.		UEP_FC_REASON_ INVALID_UPDATE_TOKEN	"X'2A'"
(A0)	..1. 1.11		UEP_FC_REASON_IO_ ERROR	"X'2B'"
(A0)	..1. 11..		UEP_FC_REASON_ ISCINVREQ	"X'2C'"
(A0)	..1. 11.1		UEP_FC_REASON_ISC_ NOT_SUPPORTED	"X'2D'"
(A0)	..1. 111.		UEP_FC_REASON_KEY_ LENGTH_NEGATIVE	"X'2E'"
(A0)	..1. 1111		UEP_FC_REASON_KEY_ STOLEN	"X'2F'"
(A0)	..11		UEP_FC_REASON_LOADING	"X'30'"
(A0)	..11 ...1		UEP_FC_REASON_LOCKED	"X'31'"
(A0)	..11 ..1.		UEP_FC_REASON_LOST_ LOCKS	"X'32'"
(A0)	..11 ..11		UEP_FC_REASON_LOCK_ STRUCTURE_FULL	"X'33'"
(A0)	..11 .1..		UEP_FC_REASON_NOT_ IN_SUBSET	"X'34'"
(A0)	..11 .1.1		UEP_FC_REASON_NO_ VARIABLE_LENGTH	"X'35'"
(A0)	..11 .11.		UEP_FC_REASON_ NOSUSPEND_NOT_RLS	"X'36'"
(A0)	..11 .111		UEP_FC_REASON_NOTAUTH	"X'37'"
(A0)	..11 1...		UEP_FC_REASON_ INTERNAL_ERROR_4	"X'38'"

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A0)	..11 1..1		UEP_FC_REASON_ PREVIOUS_RLS_FAILURE	"X'39'"
(A0)	..11 1.1.		UEP_FC_REASON_RBA_ ACCESS_TO_RLS_KSDS	"X'3A'"
(A0)	..11 1.11		UEP_FC_REASON_READ_ NOT_AUTHORISED	"X'3B'"
(A0)	..11 11..		UEP_FC_REASON_ READPREV_IN_GENERIC_ BROWSE	"X'3C'"
(A0)	..11 11.1		UEP_FC_REASON_ RECLEN_EXCEEDS_LOGGER_ BFSZ	"X'3D'"
(A0)	..11 111.		UEP_FC_REASON_ RECORD_BUSY	"X'3E'"
(A0)	..11 1111		UEP_FC_REASON_ RECORD_NOT_FOUND	"X'3F'"
(A0)	.1..		UEP_FC_REASON_ REMOTE_INVREQ	"X'40'"
(A0)	.1.. ...1		UEP_FC_REASON_ RESTART_FAILED	"X'41'"
(A0)	.1.. ..1.		UEP_FC_REASON_ INTERNAL_ERROR_5	"X'42'"
(A0)	.1.. ..11		UEP_FC_REASON_ REWRITE_BEFORE_READ_ UPDATE	"X'43'"
(A0)	.1.. .1..		UEP_FC_REASON_ RIDFLD_KEY_NOT_RECORD_KEY	"X'44'"
(A0)	.1.. .1.1		UEP_FC_REASON_RLS_ DEADLOCK_DETECTED	"X'45'"
(A0)	.1.. .11.		UEP_FC_REASON_RLS_ DISABLED	"X'46'"
(A0)	.1.. .111		UEP_FC_REASON_RLS_ FAILURE	"X'47'"
(A0)	.1.. 1...		UEP_FC_REASON_RR_ NOT_RLS	"X'48'"
(A0)	.1.. 1..1		UEP_FC_REASON_ SECURITY_FAILURE	"X'49'"
(A0)	.1.. 1.1.		UEP_FC_REASON_SELF_ DEADLOCK_DETECTED	"X'4A'"
(A0)	.1.. 1.11		UEP_FC_REASON_ SERVREQ_VIOLATION	"X'4B'"
(A0)	.1.. 11..		UEP_FC_REASON_SHIP	"X'4C'"
(A0)	.1.. 11.1		UEP_FC_REASON_STORE_ FAIL	"X'4D'"
(A0)	.1.. 111.		UEP_FC_REASON_ SUPPRESSED	"X'4E'"
(A0)	.1.. 1111		UEP_FC_REASON_ SYSIDERR	"X'4F'"
(A0)	.1.1		UEP_FC_REASON_TABLE_ FULL	"X'50'"
(A0)	.1.1 ...1		UEP_FC_REASON_TABLE_ TOKEN_INVALID	"X'51'"
(A0)	.1.1 ..1.		UEP_FC_REASON_TIMEOUT	"X'52'"

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A0)	.1.1 ..11		UEP_FC_REASON_TOO_ MANY_CFDTS_IN_UOW	"X'53'"
(A0)	.1.1 .1..		UEP_FC_REASON_ UNKNOWN_REQID_ENDBR	"X'54'"
(A0)	.1.1 .1.1		UEP_FC_REASON_ UNKNOWN_REQID_READNEXT	"X'55'"
(A0)	.1.1 .11.		UEP_FC_REASON_ UNKNOWN_REQID_READPREV	"X'56'"
(A0)	.1.1 .111		UEP_FC_REASON_ UNKNOWN_REQID_RESETBR	"X'57'"
(A0)	.1.1 1...		UEP_FC_REASON_ UPDATE_NOT_AUTHORISED	"X'58'"
(A0)	.1.1 1..1		UEP_FC_REASON_ ACCMETH_REQUEST_ERROR	"X'59'"
(A0)	.1.1 1.1.		UEP_FC_REASON_ SHIPPED_SECURITY_FAILURE	"X'5A'"
(A0)	.1.1 1.11		UEP_FC_REASON_ INTERNAL_ERROR_6	"X'5B'"
(A0)	.1.1 11..		UEP_FC_REASON_ INTERNAL_ERROR_7	"X'5C'"
(A0)	.1.1 11.1		UEP_FC_REASON_XRBA_ NOT_ESDS	"X'5D'"
(A0)	.1.1 111.		UEP_FC_REASON_NOT_ EXTENDED_ESDS	"X'5E'"
(A4)	ADDRESS	4	UEP_FC_EXIT_TOKEN	ADDRESS OF FOUR BYTE TOKEN AREA
(A8)	ADDRESS	4	UEP_FC_M_RECORD_L	address of fullword modified record length
(AC)	ADDRESS	4	UEP_FC_M_RECORD_ID_L	address of fullword modified key length
XFCFROUT PARAMETERS VALID RETURN CODES FOR XFCFROUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4		
(44)	ADDRESS	4		
(48)	ADDRESS	4		
(4C)	ADDRESS	4		
(50)	ADDRESS	4		
(54)	ADDRESS	4		
(58)	ADDRESS	4		
(5C)	ADDRESS	4		
(60)	ADDRESS	4		
(64)	ADDRESS	4		
(68)	ADDRESS	4		

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6C)	ADDRESS	4		
(70)	ADDRESS	4		
(74)	ADDRESS	4		
(78)	ADDRESS	4		
(7C)	ADDRESS	4		
(80)	ADDRESS	4		
(84)	ADDRESS	4		
(88)	ADDRESS	4		
(8C)	ADDRESS	4		
(90)	ADDRESS	4		
(94)	ADDRESS	4		
(98)	ADDRESS	4		
(9C)	ADDRESS	4		
(A0)	ADDRESS	4		
(A4)	ADDRESS	4		
(A8)	ADDRESS	4		
XTSQRIN PARAMETERS VALID RETURN CODES FOR XTSQRIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4	UEP_TS_FUNCTION	address of a 1-byte function
(40)	1		UEP_TS_FUN_WRITE	"X'01'" write function
(40)	.... ..1.		UEP_TS_FUN_REWRITE	"X'02'" rewrite function
(40)	11		UEP_TS_FUN_READ_INTO	"X'03'" read_into function
(40)	.... .1..		UEP_TS_FUN_READ_SET	"X'04'" read_set function
(40)	.... .1.1		UEP_TS_FUN_READ_ NEXT_INTO	"X'05'" read_next_into function
(40)	.... .11.		UEP_TS_FUN_READ_ NEXT_SET	"X'06'" read_next_into function
(40)	.... .111		UEP_TS_FUN_DELETE	"X'07'" delete function
(44)	ADDRESS	4	UEP_TS_QUEUE_NAME	address of 8-character queue name
(48)	ADDRESS	4	UEP_TS_DATA_P	address of fullword data address
(4C)	ADDRESS	4	UEP_TS_DATA_L	address of fullword data length
(50)	ADDRESS	4	UEP_TS_ITEM_NUMBER	address of fullword item number
(54)	ADDRESS	4	UEP_TS_STORAGE_TYPE	address of 1-byte storage type
(54)	1		UEP_TS_STORAGE_TYPE_ MAIN	"X'01'" main

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(54)	.... ..1.		UEP_TS_STORAGE_TYPE_ AUX_TST	"X'02'" aux (recoverablity from TST)
(54)	11		UEP_TS_STORAGE_TYPE_ AUX_RECOV_YES	"X'03'" aux recoverable
(54)	.... .1..		UEP_TS_STORAGE_TYPE_ AUX_RECOV_NO	"X'04'" aux non-recoverable
(58)	ADDRESS	4		
(5C)	ADDRESS	4		
XTSQROUT PARAMETERS VALID RETURN CODES FOR XTSQROUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4		
(44)	ADDRESS	4		
(48)	ADDRESS	4		
(4C)	ADDRESS	4		
(50)	ADDRESS	4		
(54)	ADDRESS	4		
(58)	ADDRESS	4	UEP_TS_TOTAL_ITEMS	address of fullword total items
(5C)	ADDRESS	4	UEP_TS_RESPONSE	address of 1-byte response
(5C)	1		UEP_TS_RESPONSE_OK	"X'01'" ok response
(5C)	.... ..1.		UEP_TS_RESPONSE_ EXCEPTION	"X'02'" exception response
(5C)	11		UEP_TS_RESPONSE_ DISASTER	"X'03'" disaster response
(5C)	.... .1..		UEP_TS_RESPONSE_ INVALID	"X'04'" invalid response
(5C)	.... .11.		UEP_TS_RESPONSE_ PURGED	"X'06'" purged response
XTSPTIN PARAMETERS VALID RETURN CODES FOR XTSPTIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4		
(40)	1		UEP_TS_FUN_PUT	"X'01'" write function
(40)	.... ..1.		UEP_TS_FUN_PUT_ REPLACE	"X'02'" rewrite function
(40)	11		UEP_TS_FUN_GET	"X'03'" read_into function
(40)	.... .1..		UEP_TS_FUN_GET_SET	"X'04'" read_set function
(40)	.... .1.1		UEP_TS_FUN_GET_ RELEASE	"X'05'" read_next_into function
(40)	.... .11.		UEP_TS_FUN_GET_ RELEASE_SET	"X'06'" read_next_into function
(40)	.... .111		UEP_TS_FUN_RELEASE	"X'07'" delete function
(44)	ADDRESS	4		
(48)	ADDRESS	4		
(4C)	ADDRESS	4		

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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
XTSEREQC PARAMETERS VALID RETURN CODES FOR XTSEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTQTOK - AS DEFINED ABOVE

Table 673. (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	UEP_TS_REMOTE_SYSTEM	ADDRESS OF COPY OF REMOTE SYSTEM
XTDREQ PARAMETERS VALID RETURN CODES FOR XTDREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCTDOK EQU X'04' Quit TD processing - return "normal" to caller UERCTDNA EQU X'08' Quit TD processing - return "notauth" to caller UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPTDQUE	Address of TD queue name
(34)	ADDRESS	4	UEPTDTYP	Address of TD request type
equates for TD request byte				
(34)	1		UEPTDPUT	"1" PUT request
(34)	.... ..1.		UEPTDGET	"2" GET request
(34)	11		UEPTDPUR	"3" PURGE request
XTDIN PARAMETERS VALID RETURN CODES FOR XTDIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPTDQUE - as defined above 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)

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
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
(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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)				
(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	UEPLDCTXT	ADDRESS of APPLICATION CONTEXT
(58)	ADDRESS	4		RESERVED - XLD7
(5C)	ADDRESS	4		RESERVED - XLD8
XLDELETE PARAMETERS VALID RETURN CODES FOR XLDELETE ARE: UERCNORM EQU X'00' NORMAL(DEFAULT)				
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

Table 673. (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	UEPSCOPE	ADDRESS OF SCOPE NAME
XNQEREQC PARAMETERS VALID RETURN CODES FOR XNQEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPNQTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
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
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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
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
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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5C)	ADDRESS	4	UEPSCLD	ADDRESS OF COLLECTION DATE (MMDDYYYY)
XDUREQ PARAMETERS VALID RETURN CODES FOR XDUREQ ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS DUMP UERCPURG EQU X'20' PURGED check parm list hasn't already been generated by XDUREQ				
(40)	ADDRESS	4	UEPDUMPC	ADDRESS OF COPY OF DUMP CODE
(44)	ADDRESS	4	UEPDUMPT	ADDRESS OF DUMP TYPE IDENTIFIER
EQUATES FOR DUMP TYPE IDENTIFIER				
(44)	111. ..11		UEPDTRAN	"C'T'" TRANSACTION DUMP REQUEST
(44)	111. ..1.		UEPDSYST	"C'S'" SYSTEM DUMP REQUEST
(48)	ADDRESS	4	UEPABCDE	ADDRESS OF COPY OF ABEND CODE
(4C)	ADDRESS	4	UEPXDSCP	Address of dumpscope
(4C)	1		UEPXDLOC	"X'1'" DUDT_LOCAL
(4C)	.... ..1.		UEPXDREL	"X'2'" DUDT_RELATED
(50)	ADDRESS	4	UEPXDTXN	Address of DUDT_TRANSACTION_ DUMP
(50)	1		UEPXDYES	"X'1'" DUDT_YES
(50)	.... ..1.		UEPXDNO	"X'2'" DUDT_NO
(54)	ADDRESS	4	UEPXDSYS	Address of DUDT_SYSTEM_DUMP
(58)	ADDRESS	4	UEPXDTRM	Address of DUDT_TERMINATE_CICS
(5C)	ADDRESS	4	UEPXDMAX	Address of DUDT_MAXIMUM_DUMPS
(60)	ADDRESS	4	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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(70)	ADDRESS	4	UEPDURQE (0)	End of parms shared with XDUREQC
(70)	ADDRESS	4	UEPFMOD	Address of name of failing module
(74)	ADDRESS	4	UEPJLISI	Address of the joblist
(78)	ADDRESS	4	UEPDLISI	Address of the DSPlist
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
XDUOUT PARAMETERS VALID RETURN CODES FOR XDUOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS DUMP BUFFER OUTPUT (APPLICABLE ONLY FOR UEDMPWR) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4	UEPDMPFC	ADDRESS OF XDUOUT FUNCTION CODE
EQUATES FOR XDUOUT FUNCTION CODE				
(40)	....		UEPDMPWR	"X'00'" BUFFER ABOUT TO BE WRITTEN
(40)	.... .1..		UEPDMPRE	"X'04'" DUMP ABOUT TO RESTART AFTER AUTO-SWITCH
(40)	.... 1...		UEPDMPAB	"X'08'" ABNORMAL TERMINATION OF DUMP
(40)	.... 11..		UEPDMPDY	"X'0C'" BUFFER ABOUT TO BE WRITTEN TO DUMMY FILE
UEPDMPBF AND UEPDMPLEN ARE ZERO WHEN UEPDMPFC IS UEPDMPRE OR UEPDMPAB				
(44)	ADDRESS	4	UEPDMPBF	ADDRESS OF DUMP BUFFER
(48)	ADDRESS	4	UEPDMPLEN	ADDRESS OF DUMP BUFFER LENGTH
XDUREQC PARAMETERS ONLY VALID RETURN CODE FOR XDUREQ IS: UERCNORM EQU X'00' NORMAL check parm list hasn't already been generated by XDUREQ				
(70)	ADDRESS	4	UEPDRESP	Address of DUDU_RESPONSE
Equates for dump response code				
(70)	1		UEPDRPOK	"X'01'" DUDU_OK
(70)	.... ..1.		UEPDRPEX	"X'02'" DUDU_EXCEPTION
(70)	.... .11.		UEPDRPPR	"X'06'" DUDU_PURGED

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(74)	ADDRESS	4	UEPDREAS	Address of DUDU_REASON
Equates for dump reason code				
(74)	1		UEPDRSOE	"X'01'" DUDU_OPEN_ERROR
(74)	.... ..1.		UEPDRSNO	"X'02'" DUDU_NOT_OPEN
(74)	11		UEPDRSID	"X'03'" DUDU_INVALID_ DUMPCODE
(74)	.... .1..		UEPDRSPT	"X'04'" DUDU_PARTIAL_ TRANSACTION_DUMP
(74)	.... .1.1		UEPDRSS1	"X'05'" DUDU_SUPPRESSED_ BY_DUMPOPTION
(74)	.... .11.		UEPDRSS2	"X'06'" DUDU_SUPPRESSED_ BY_DUMPTABLE
(74)	.... .111		UEPDRSS3	"X'07'" DUDU_SUPPRESSED_ BY_USEREXIT
(74)	.... 1...		UEPDRSPS	"X'08'" DUDU_PARTIAL_ SYSTEM_DUMP
(74)	.... 1.1.		UEPDRSSB	"X'0A'" DUDU_SDUMP_BUSY
(74)	.... 1.11		UEPDRSSA	"X'0B'" DUDU_SDUMP_NOT_ AUTHORIZED
(74)	.... 11.1		UEPDRSND	"X'0D'" DUDU_NO_DATASET
(78)	ADDRESS	4	UEPJLISO	Address of the joblist
(7C)	ADDRESS	4	UEPDLISO	Address of the dsplist
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				
(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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
XRSINDI PARAMETERS VALID RETURN CODES FOR XRSINDI ARE: UERCNORM EQU X'00' NORMAL (default). UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4	UEPIDREQ	Address of INSTALL/DISCARD ident(byte) Possible values of the identifier:
(40)	1		UEIDINS	"1" for INSTALL requests
(40)	.... ..1.		UEIDDIS	"2" for DISCARD requests
(44)	ADDRESS	4	UEPIDNAM	Address of resource name
(48)	ADDRESS	4	UEPIDLEN	Address of resource name length (word)
(4C)	ADDRESS	4	UEPIDNUM	Address of resource name number (word)
(50)	ADDRESS	4	UEPIDTYP	Address of resource type (byte) Possible values of the type:
(50)	1		UEIDTRAN	"1" Transaction
(50)	.... ..1.		UEIDPROF	"2" Profile
(50)	11		UEIDPROG	"3" Program
(50)	.... .1..		UEIDMAP	"4" Mapset
(50)	.... .1.1		UEIDPSET	"5" Partitionset
(50)	.... .11.		UEIDTERM	"6" Terminal
(50)	.... .111		UEIDCONN	"7" Connection
(50)	.... 1...		UEIDMODE	"8" Modename
(50)	.... 1..1		UEIDSESS	"9" Session
(50)	.... 1.1.		UEIDFILE	"10" File
(50)	.... 1.11		UEIDPART	"11" Partner
(50)	.... 11..		UEIDTCLS	"12" TCLASS
(50)	.... 11.1		UEIDAITM	"13" Autoinstall terminal model
(50)	.... 111.		UEIDFECO	"14" FEPI Connection
(50)	 1111		UEIDFENO	"15" FEPI Node
(50)	...1		UEIDFEPO	"16" FEPI Pool
(50)	...1 ...1		UEIDFEPS	"17" FEPI Propertyset
(50)	...1 ..1.		UEIDFETA	"18" FEPI Target
(50)	...1 ..11		UEIDTDQU	"19" TD queue
(50)	...1 .1..		UEIDJNMD	"20" Journalmodel
(50)	...1 .1.1		UEIDJNNM	"21" Journalname
(50)	...1 .11.		UEIDSTRM	"22" Log Stream name
(50)	...1 .111		UEIDDB2C	"23" DB2 Connection (DB2CONN)

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(50)	...1 1...		UEIDDB2E	"24" DB2 Entry (DB2ENTRY)
(50)	...1 1..1		UEIDDB2T	"25" DB2 Transaction (DB2TRAN)
(50)	...1 1.11		UEIDTSMD	"27" Tsmodel
(50)	...1 11..		UEIDPRTY	"28" Processtype
(50)	...1 1.1.		UEIDNQRN	"26" NQR name
UEIDRQMD 29 was Request model (IIOP)				
(50)	...1 111.		UEIDTCPS	"30" Tcpipservice
(50)	...1 1111		UEIDDOCT	"31" Doctemplate
UEIDCSRV 32 was EJ CorbaServer UEIDDJAR 33 was EJ DJar UEIDBEAN 34 was EJ Bean				
(50)	..1. ..11		UEIDURIM	"35" URIMAP
(50)	..1. .1..		UEIDWEBS	"36" WebService
(50)	..1. .1.1		UEIDPIPE	"37" Pipeline
(50)	..1. .11.		UEIDIPCO	"38" IPCONN
(50)	..1. .111		UEIDLBRY	"39" LIBRARY
(50)	..1. 1...		UEIDBNDL	"40" Bundle
(50)	..1. 1..1		UEIDATOM	"41" Atomservice
(50)	..1. 1.1.		UEIDMQCN	"42" MQ Connection (MQCONN)
(50)	..1. 1.11		UEIDMQIN	"43" MQ Initiation Queue (MQINI)
(50)	..1. 11..		UEIDEVNT	"44" Eventbinding
(50)	..1. 11.1		UEIDXMLT	"45" XmlTransform
(50)	..1. 111.		UEIDJSRV	"46" JVMServer
(50)	..1. 1111		UEIDEVCS	"47" Event Capture Specification
(50)	..11		UEIDEPAD	"48" EP adapter
(50)	..11 ...1		UEIDOSGB	"49" OSGi bundle
(50)	..11 ..1.		UEIDEPAS	"50" EP adapter set
(50)	..11 ..11		UEIDMPPP	"51" MP Policy
(50)	..11 .1..		UEIDWARB	"52" WAR Bundle
(50)	..11 .1.1		UEIDEBAB	"53" EBA Bundle
(50)	..11 .11.		UEIDEARB	"54" EAR Bundle
(50)	..11 .111		UEIDPKST	"55" DB2 PACKAGSESET
(50)	..11 1...		UEIDMQMN	"56" MQMONITOR
(54)	ADDRESS	4	UEPIDREC	Recoverability This indicates that:
(54)	1		UEIDKEEP	"1" the resource will be recovered

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(54)	.... ..1.		UEIDLOSE	"2" the resource will not be recovered Resource Signature
(58)	ADDRESS	4	UEPDEFTM	Address of define time (STCK)
(5C)	ADDRESS	4	UEPCHUSR	Address of change userid (CL8)
(60)	ADDRESS	4	UEPCHAGT	Address of change agent (H)
(64)	ADDRESS	4	UEPCHREL	Address of change release (CL4)
(68)	ADDRESS	4	UEPCHTIM	Address of change time (STCK)
(6C)	ADDRESS	4	UEPDEFSRC	Address of definition group (CL8)
(70)	ADDRESS	4	UEPINUSR	Address of install userid (CL8)
(74)	ADDRESS	4	UEPINTIM	Address of install time (STCK)
(78)	ADDRESS	4	UEPINAGT	Address of install agent (H) Possible values of change/install agents
(78)	....		UEPUNKAGT	"0" Unknown agent
(78)	1		UEPCSDAPI	"1" CSDAPI (CEDA)
(78)	.... ..1.		UEPCSDBAT	"2" CSDBATCH (DFHCSDUP)
(78)	11		UEPDRPAPI	"3" DREP API (CPSM)
(78)	.... .1..		UEPCRESPI	"4" CREATE SPI
(78)	.... .1.1		UEPGRPLST	"5" GRPLIST
(78)	.... .11.		UEPAUTOIN	"6" AUTOINSTALL
(78)	.... .111		UEPSYSTEM	"7" SYSTEM
(78)	.... 1...		UEPDYNAMC	"8" DYNAMIC
(78)	.... 1..1		UEPBUNDLE	"9" BUNDLE
(78)	.... 1.1.		UEPTABLE	"10" TABLE
(7C)	ADDRESS	4	UEPAPPTK	Address of Application token
(80)	ADDRESS	4	UEPAPCTXT	Address of Application Context
(84)	ADDRESS	4	UEPPLATTK	Address of Platform token
XXMATT PARAMETERS VALID RETURN CODES FOR XXMATT ARE: UERCNORM EQU X'00' NORMAL (default).				
(40)	ADDRESS	4	UEPATPTI	Address of primary transaction id.

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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)	1		UEATFND	"1" Transaction was found
(50)	.... ..1.		UEATNFND	"2" Transaction was not found
(54)	ADDRESS	4	UEPATTST	Address of trandef state (byte) Possible values of the trandef state:
(54)	1		UEATENAB	"1" Transaction is enabled
(54)	.... ..1.		UEATDISA	"2" Transaction is disabled
(58)	ADDRESS	4	UEPATTTK	Address of transaction token

`XFAINTU PARAMETERS`
`VALID RETURN CODES FOR XFAINTU ARE:`
`UERCNORM EQU X'00' NORMAL (default).`				

(30)	ADDRESS	4	UEPFAREQ	Address of request byte Possible values of the request byte:
(30)	1		UEPFAIN	"1" Initialise request
(30)	.... ..1.		UEPFATU	"2" Tidy Up request
(34)	ADDRESS	4	UEPFATUT	Address of Tidy Up type byte Possible values of the type byte:
(34)	1		UEPFANTU	"1" Normal tidy up
(34)	.... ..1.		UEPFAETU	"2" Expired tidy up
(38)	ADDRESS	4	UEPFANAM	Address of Facility name
(3C)	ADDRESS	4	UEPFATYP	Address of Facility type Possible values of the type byte:
(3C)	1		UEPFABR	"1" 3270 Bridge facility
(40)	ADDRESS	4	UEPFAUAA	Address of Facility User Area
(44)	ADDRESS	4	UEPFAUAL	Address of User Area length byte
(48)	ADDRESS	4	UEPFATK	Address of Facility Token

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4C)	ADDRESS	4	UEPFAMCH	Address of Start Mechanism byte Possible values of UEPFAMCH
(4C)	1		UEPFASTA	"1" Started using START BREXIT
(4C)	.... ..1.		UEPFALNK	"2" Started using LINK
(50)	ADDRESS	4	UEPFAREG	Address of Region Type Byte Possible values of UEPFAREG
(50)	1		UEPFAROU	"1" Router for Bridge Facility
(50)	.... ..1.		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)	11.. .1.1		UEPCEXEC	"C'E'" EXEC REQUEST
(30)	11.. ..11		UEPCCALL	"C'C'" CALL REQUEST
(30)	11.. .11.		UEPCSHIP	"C'F'" FUNCTION SHIPPED REQUEST
(34)	ADDRESS	4	UEPAPLIST	ADDRESS OF APPLICATION'S PARM LIST
(38)	ADDRESS	4	UEPLANG	ADDRESS OF LANGUAGE CALL TYPE BYTE
EQUATES FOR LANGUAGE BYTE				
(38)	11.1 .111		UEPPLI	"C'P'" PLI
(38)	11.. ..11		UEPCBL	"C'C'" COBOL
(38)	11.. ...1		UEPASM	"C'A'" ASSEMBLER
(38)	11.. 1..1		UEPAIB	"C'I'" AIB
(3C)	ADDRESS	4	UEPIOAX	ADDRESS OF IO AREA EXISTENCE FLAG
EQUATE FOR IO AREA EXISTENCE BYTE				
(3C)	1		UEPIOA1	"X'01'" IO AREA EXISTS
(40)	ADDRESS	4	UEPIOA	ADDRESS OF IO AREA
(44)	ADDRESS	4	UEPPSBNX	ADDRESS OF PSB EXISTENCE FLAG
EQUATE FOR PSB EXISTENCE BYTE				
(44)	.... ..1.		UEPPSB1	"X'02'" PSB EXISTS
(48)	ADDRESS	4	UEPPSBNM	ADDRESS OF PSB
(4C)	ADDRESS	4	UEPSYSDX	ADDRESS OF SYSID EXISTENCE FLAG

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
EQUATE FOR SYSID EXISTENCE BIT				
(4C)	11		UEPSYS1	"X'03'" SYSID EXITS
(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)	.... .1..		UEPUIB1	"X'04'" UIB EXISTS
(48)	ADDRESS	4	UEPUIB	ADDRESS OF UIB
XMEOUT PARAMETERS VALID RETURN CODES FOR XMEOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' Suppress (bypass) the messages for all destinations.				
(40)	ADDRESS	4	UEPMNUM	Address of 4 byte message number
(44)	ADDRESS	4	UEPMDOM	Address of 2 byte dom id (or blank)
(48)	ADDRESS	4	UEPMROU	Address of array of up to 128 route codes
(4C)	ADDRESS	4	UEPMNRC	Address of h/word containing number of route codes in array.
(50)	ADDRESS	4	UEPMTDQ	Address of array of 4 char names of TD queues to send messages to
(54)	ADDRESS	4	UEPMNTD	Address of h/word containing number of TDQs in the TDQ array
(58)	ADDRESS	4	UEPINSN	Address of 2 byte number of inserts
(5C)	ADDRESS	4	UEPINSA	Address of message inserts
(60)	ADDRESS	4	UEPNRTE	Address of no re-route flag
(64)	ADDRESS	4	UEPCPID	Address of 3-byte product id

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
XSTERM PARAMETERS VALID RETURN CODES FOR XSTERM ARE: UERCNORM EQU X'00' NORMAL There are no exit specific parameters for this exit. XSRAB PARAMETERS VALID RETURN CODES FOR XSRAB ARE: UERCNOCA EQU X'00' Abend task ASRB, don't cancel exits UERCCANC EQU X'04' Abend task ASRB, cancel exits UERCCICS EQU X'08' Abend CICS				
(30)	ADDRESS	4	UEPERROR	ADDRESS OF SRP_ERROR_DATA
XSZBRQ PARAMETERS VALID RETURN CODES FOR XSZBRQ ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' NOOP THE CALL				
(30)	BITSTRING	2	UEPSZACT	FEPI Command Code
(32)	BITSTRING	2		Unused
(34)	CHARACTER	8	UEPSZCNV	CONVID
(3C)	CHARACTER	8	UEPSZALP	POOL
(44)	CHARACTER	8	UEPSZALT	TARGET
(4C)	FULLWORD	4	UEPSZTIM	TIMEOUT
(50)	ADDRESS	4	UEPSZSND	Addr of Outbound Data
(54)	FULLWORD	4	UEPSZSNL	Len of Outbound Data
(58)	CHARACTER	4	UEPSZSTT	TRANSID for START
(5C)	CHARACTER	4	UEPSZSTM	TERMID for START
(60)	BITSTRING	1	UEPSZSNK	KEYSTROKE Flag
(60)	1...		UEPSZSNK_ON	"X'80'" Active
(60)	....		UEPSZSNK_OFF	"X'00'" InActive
(61)	BITSTRING	1	UEPSZSNE	ESCAPE Byte
XSZARQ PARAMETERS VALID RETURN CODES FOR XSZARQ ARE: UERCNORM EQU X'00' NORMAL				
(30)	BITSTRING	2	UEPSZACN	FEPI Command Code
(32)	BITSTRING	2		Unused
(34)	CHARACTER	8	UEPSZCON	CONVID
(3C)	FULLWORD	4	UEPSZRP2	Response Code
(40)	ADDRESS	4	UEPSZRVD	Addr of Inbound Data
(44)	FULLWORD	4	UEPSZRVL	Len of Inbound Data Command Codes
(44)	BITSTRING	0	UEPSZNOA	"X'820E'" AP NOOP

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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				
(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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
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
(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				
(54)	....		UEPSNOK	"0" Sign-on/off successful
(54)	1		UEPSNFL	"1" Sign-on/off failed
(54)	.... ..1.		UEPSNPSS	"2" PS signon sucessful
(54)	11		UEPSNPSF	"3" PS signon failed
equates for Signon/off flag byte2				
(54)	....		UEPSNNML	"0" Normal sign-on/off (not timeout)
(54)	1		UEPSNTIM	"1" Timeout sign-off
(58)	ADDRESS	4	UEPSGTYP	ADDRESS OF SIGNON TYPE BYTE
(58)	....		UEPSGUID	"0" SIGNON USERID
(58)	1		UEPSGKER	"1" SIGNON KERBEROS
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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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				
(30)	ADDRESS	4	UEPTRUEN	ADDRESS OF NAME OF TRUE
(34)	ADDRESS	4	UEPTRUEP	ADDRESS OF TRUE's PARAMETER LIST
(38)	ADDRESS	4	UEP_RM_PBTOK	ADDRESS OF PB TOKEN
(3C)	ADDRESS	4		RESERVED
(40)	ADDRESS	4		RESERVED
(44)	ADDRESS	4		RESERVED
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
XRMIOUT PARAMETERS VALID RETURN CODES FOR XRMIOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPTRUEN - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTRUEP - AS DEFINED ABOVE
(38)	ADDRESS	4		UEP_RM_PBTOK - AS DEFINED ABOVE
(3C)	ADDRESS	4		RESERVED
(40)	ADDRESS	4		RESERVED
(44)	ADDRESS	4		RESERVED
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
XFCBFAIL PARAMETERS VALID RETURN CODES FOR XFCBFAIL ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) UERCBYP EQU X'04' BYPASS (IGNORE ERROR) VALID VALUES FOR UEPFCRSP ARE: UEDUPREC EQU X'10' DUPLICATE KEY ON UNIQUE AIX UENOSPAC EQU X'20' NO SPACE AVAILABLE UEIOEROR EQU X'24' I/O ERROR UENOLDEL EQU X'40' LOGICAL DELETE BYPASSED 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				
(30)	ADDRESS	4	UEPBLOGR	ADDRESS OF LOG RECORD BEING BACKED OUT
(34)	ADDRESS	4	UEPTRANS	ADDRESS OF TRANSACTION ID
(38)	ADDRESS	4	UEPTRMNL	ADDRESS OF TERMINAL ID
(3C)	ADDRESS	4	UEPTASK	ADDRESS OF TASK NUMBER
(40)	ADDRESS	4	UEPFCRSP	ADDRESS OF FILE CONTROL RESPONSE BYTE
(44)	ADDRESS	4	UEPERR	ADDRESS OF ERROR-TYPE BYTE
XFCLDEL PARAMETERS VALID RETURN CODES FOR XFCLDEL ARE: UERCFAIL EQU X'00' TREAT AS BACKOUT FAILURE UERCLDEL EQU X'04' LOGICALLY DELETE RECORD BY REAPPLYING				
(30)	ADDRESS	4		UEPBLOGR - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTRANS - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPTRMNL - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPTASK - AS DEFINED ABOVE
(40)	ADDRESS	4	UEPFDATA	ADDRESS OF DATA TO LOGICALLY DELETE

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(44)	ADDRESS	4	UEPFLEN	ADDRESS OF FULLWORD LENGTH OF DATA
XFCBOVER PARAMETERS VALID RETURN CODES FOR XFCBOVER ARE: UERCNORM EQU X'00' DO NOT BACKOUT LOG RECORD UERCBCKO EQU X'04' PERFORM THE BACKOUT OF THE LOG RECORD				
(30)	ADDRESS	4	UEPOLOGR	ADDRESS OF OVERRIDEN LOG RECORD
(34)	ADDRESS	4	UEPODSN	ADDRESS OF OVERRIDEN DATA SET
XFCBOUT PARAMETERS THE ONLY VALID RETURN CODE FOR XFCBOUT IS: UERCNORM EQU X'00' CONTINUE PROCESSING				
(30)	ADDRESS	4	UEPFLOGR	ADDRESS OF FC LOG RECORD
XLGSTRM PARAMETERS VALID RETURN CODES FOR XLGSTRM ARE: UERCNORM EQU X'00' NORMAL (DEFINE STREAM) UERCBYP EQU X'04' BYPASS (DO NOT DEFINE STREAM) VALID VALUES FOR UEPLGTYP ARE: UEPSYSLG EQU X'01' SYSTEM LOG UEPGENLG EQU X'02' GENERAL LOG				
(40)	ADDRESS	4	UEPLSN	ADDRESS OF 26-BYTE LOG STREAM NAME
(44)	ADDRESS	4	UEPMLSN	ADDRESS OF 26-BYTE MODEL STREAM NAME
(48)	ADDRESS	4	UEPIXG	ADDRESS OF IXGINVNT MACRO LIST FORM
(4C)	ADDRESS	4	UEPLGTYP	ADDRESS OF 1-BYTE LOG TYPE
(4C)	1		UEPSYSLG	"X'01'" SYSTEM LOG
(4C)	.... ..1.		UEPGENLG	"X'02'" GENERAL LOG
XFCVSDS PARAMETERS Valid return codes for XFCVSDS are: UERCNORM EQU X'00' Normal (process VSAM RLS action) UERCBYP EQU X'04' Bypass (suppress VSAM RLS action)				
(30)	ADDRESS	4	UEPDSNAM	Address of dataset name
(34)	ADDRESS	4	UEPVSACT	Address of VSAM RLS action (byte)
(38)	ADDRESS	4	UEPQUCLS	Address of close type (byte)
(3C)	ADDRESS	4	UEPCPTEC	Address of copy technique (byte)
Constants for byte addressed by UEPVSACT				
(3C)	1		UEQUIES	"1" Quiesce dataset
(3C)	.... ..1.		UEUNQUIS	"2" Unquiesce dataset
(3C)	11		UENBWST	"3" Non-BWO backup start
(3C)	.... .1..		UENBWCMP	"4" Non-BWO backup complete

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(3C)	.... .1.1		UEBWOST	"5" BWO backup start
(3C)	.... .11.		UEBWOCMP	"6" BWO backup complete
Constants for byte addressed by UEPQUCLS				
(3C)	1		UEORDCLO	"1" Close files when syncpoint reached
(3C)	.... ..1.		UEIMMCLO	"2" Close files immediately via purge
Constants for byte addressed by UEPCPTEC				
(3C)	1		UEORDCOP	"1" Concurrent copy will not be used
(3C)	.... ..1.		UECONCOP	"2" Concurrent copy will be used
XFCQUIS PARAMETERS Valid return codes for XFCQUIS are: UERCNORM EQU X'00' Normal				
(30)	ADDRESS	4	UEPQDSNM	Addr of dataset name
(34)	ADDRESS	4	UEPQSTAT	Addr of desired quiesce state (byte)
(38)	ADDRESS	4	UEPQRCDE	Addr of quiesce result (byte)
(3C)	ADDRESS	4	UEPQCONF	Addr of any conflicting quiesce (byte)
Constants for byte addressed by UEPQSTAT				
(3C)	1		UEQSD	"1" Quiesced (normal close) requested
(3C)	.... ..1.		UEIMQSD	"2" Quiesced (immediate close) requested
(3C)	11		UEUNQSD	"3" Unquiesced requested
Constants for byte addressed by UEPQRCDE				
(3C)	1		UEQOK	"1" Successful
(3C)	.... ..1.		UEQREJEC	"2" Rejected - see UEPQCONF for conflict
(3C)	11		UEQCANCL	"3" Failed - quiesce cancelled by user
(3C)	.... .1..		UEQTIMED	"4" Failed - quiesce cancelled by timeout
(3C)	.... .1.1		UEQIOERR	"5" Failed - i/o error or server failure
(3C)	.... .11.		UEQUNKNO	"6" Failed - dataset not DFSMS VSAM
(3C)	.... .111		UEQMIGRT	"7" Failed - dataset migrated
Constants for byte addressed by UEPQCONF				
(3C)	1		UEQUIINP	"1" Conflicting quiesce in progress
(3C)	.... ..1.		UEUNQINP	"2" Conflicting unquiesce in progress

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(3C)	11		UENBWINP	"3" Conflicting non-BWO backup in progress
(3C)	.... .1..		UEBWOINP	"4" Conflicting BWO backup in progress
(3C)	.... .1.1		UEUNKINP	"5" Unknown conflicting event
XBADEACT PARAMETERS VALID RETURN CODES FOR XBADEACT ARE: UERCNORM EQU X'00' NORMAL check parm list hasn't already been generated by XBADEACT				
(40)	ADDRESS	4	UEPACIN	ADDRESS OF ACTIVITY INDICATOR BYTE
EQUATES FOR ACTIVITY INDICATOR				
(40)	11.1 1..1		UEPROOT	"C'R'" ROOT ACTIVITY
(40)	11.. ..11		UEPCHILD	"C'C'" CHILD ACTIVITY
(44)	ADDRESS	4	UEPACID	ADDRESS OF ACTIVITY ID
(48)	ADDRESS	4	UEPACNA	ADDRESS OF ACTIVITY NAME
(4C)	ADDRESS	4	UEPPRID	ADDRESS OF PROCESS ID
(50)	ADDRESS	4	UEPPRTY	ADDRESS OF PROCESS TYPE
(54)	ADDRESS	4	UEPPRNA	ADDRESS OF PROCESS NAME
(58)	ADDRESS	4	UEPARESP	ADDRESS OF COMPLETION CODE
(5C)	ADDRESS	4	UEPAABND	ADDRESS OF ABEND CODE
XBMIN PARAMETERS VALID RETURN CODES FOR XBMIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPBMTCT	ADDRESS OF TCTTE
(34)	ADDRESS	4		UEPEXECB - AS DEFINED ABOVE
(38)	ADDRESS	4	UEPBMCNT	ADDRESS OF FIELD COUNT
(3C)	ADDRESS	4	UEPBMTAB	ADDRESS OF FIELD INFO TABLE
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

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(3C)	ADDRESS	4		UEPBMTAB - AS DEFINED ABOVE
XWBOPEN PARAMETERS VALID RETURN CODES FOR XWBOPEN ARE: UERCNORM EQU X'00' INITIALISATION SUCCESSFUL UERCBARR EQU X'04' REMOTE HOST NAME IS BARRED UERCPROX EQU X'08' PROXY INFORMATION PROVIDED UERCERR EQU X'0C' ERROR OCCURRED IN EXIT PROCESSING check parm list hasn't already been generated by XWBOPEN				
(40)	ADDRESS	4	UEPHOST	ADDRESS OF NAME OF HOST
(44)	ADDRESS	4	UEPHOSTL	ADDRESS OF HALFWORD LENGTH OF HOST
(48)	ADDRESS	4	(9)	Various other parms
(6C)	ADDRESS	4	UEPHOSTT	Address of a byte that describes the type of information found in UEPHOST
VALID values for UEPHOSTT are:				
(6C)	1		UEPHSTNM	"X'01'" UEPHOST contains a host name
(6C)	.... ..1.		UEPIPV4A	"X'02'" UEPHOST contains an IPV4 addr
(6C)	11		UEPIPV6A	"X'03'" UEPHOST contains an IPV6 addr
(48)	ADDRESS	4	UEPPROXY	ADDRESS OF ADDRESS OF PROXY
(4C)	ADDRESS	4	UEPPROXYL	ADDRESS OF HALFWORD LENGTH OF PROXY
XWBSNDO PARAMETERS VALID RETURN CODES FOR XWBSNDO ARE: UERCNORM EQU X'00' PATH PERMITTED UERCBARR EQU X'04' PATH NOT PERMITTED check parm list hasn't already been generated by XWBSNDO				
UEPHOST DS A ADDRESS OF NAME OF HOST UEPHOSTL DS A ADDRESS OF HALFWORD LENGTH OF HOST DS 9A Various other parms UEPHOSTT DS A Address of a byte that describes the type of information found in UEPHOST VALID values for UEPHOSTT are: UEPHSTNM EQU X'01' UEPHOST contains a host name UEPIPV4A EQU X'02' UEPHOST contains an IPV4 addr UEPIPV6A EQU X'03' UEPHOST contains an IPV6 addr UEPHOST, UEPHOSTL, UEPHOSTT PREVIOUSLY DEFINED				
(48)	ADDRESS	4	UEPPATH	ADDRESS OF PATH SPECIFIED ON SEND
(4C)	ADDRESS	4	UEPPATHL	ADDRESS OF HALFWORD LENGTH OF PATH

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
XWBAUTH PARAMETERS VALID RETURN CODES FOR XWBAUTH ARE: UERCNORM EQU X'00' CREDENTIALS SUPPLIED UERCBYP EQU X'04' CREDENTIALS OMITTED. BYPASS AUTHENTICATION UERCERR EQU X'0C' CREDENTIALS OMITTED. SIGNAL EXIT ERROR				
UEPHOST DS A ADDRESS OF NAME OF HOST UEPHOSTL DS A ADDRESS OF HALFWORD LENGTH OF HOST DS 9A Various other parms UEPHOSTT DS A Address of a byte that describes the type of information found in UEPHOST VALID values for UEPHOSTT are: UEPHSTNM EQU X'01' UEPHOST contains a host name UEPIPV4A EQU X'02' UEPHOST contains an IPV4 addr UEPIPV6A EQU X'03' UEPHOST contains an IPV6 addr UEPHOST, UEPHOSTL, UEPHOSTT PREVIOUSLY DEFINED				
UEPPATH DS A ADDRESS OF PATH SPECIFIED ON SEND UEPPATHL DS A ADDRESS OF HALFWORD LENGTH OF PATH				
(50)	ADDRESS	4	UEPREALM	ADDRESS OF REALM FROM 401 RESPONSE
(54)	ADDRESS	4	UEPREALML	ADDRESS OF HALFWORD LENGTH OF REALM
(58)	ADDRESS	4	UEPAUTHT	ADDRESS OF AUTHENTICATION TYPE
(5C)	ADDRESS	4	UEPUSNM	ADDRESS OF USERNAME BUFFER POINTER
(60)	ADDRESS	4	UEPUSNML	ADDRESS OF USERNAME HALFWORD LENGTH
(64)	ADDRESS	4	UEPPSWD	ADDRESS OF PASSWORD BUFFER POINTER
(68)	ADDRESS	4	UEPPSWDL	ADDRESS OF PASSWORD HALFWORD LENGTH
XAPADMGR PARAMETERS VALID RETURN CODES FOR XAPADMGR ARE: UERCNORM EQU X'00' NORMAL (default).				
(40)	ADDRESS	4	UEPADCB	Address of ADCB (input)
(44)	ADDRESS	4	UEPADCBL	Address of length of ADCB (input)
(48)	ADDRESS	4	UEPUCD	Address of UCD (output)
XWSPRRWI PARAMETERS VALID RETURN CODES FOR XWSPRRWI ARE: UERCNORM EQU X'00' 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				

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
XWSPRROO PARAMETERS VALID RETURN CODES FOR XWSPRROO ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
(48)	ADDRESS	4	UEPAPAB	ADDRESS OF APPLCATION ABEND IND.
EQUATES FOR APPLICATION ABEND INDICATOR				
(48)	1...		UEPAPABY	"X'80'" APPLICATION ABENDED
(48)	.1..		UEPAPABN	"X'40'" APPLICATION NOT ABENDED
(4C)	ADDRESS	4	UEPAPSF	ADDRESS OF SET RC INDICATOR
EQUATES FOR APPLICATION SET SOAPFAULT INDICATOR				
(4C)	1...		UEPAPSFY	"X'80'" APPLICATION SET SOAPFAULT
(4C)	.1..		UEPAPSFN	"X'40'" APPLICATION NOT SET SOAPFAULT
XWSPRRWO PARAMETERS VALID RETURN CODES FOR XWSPRRWO ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
UEPAPAB DS A ADDRESS OF APPLICATION ABEND IND.				
UEPAPSF DS A ADDRESS OF APPL. SET SOAPFAULT IND.				
XWSRQRWO PARAMETERS VALID RETURN CODES FOR XWSRQRWO ARE: UERCNORM EQU X'00' 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				

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XWSSRRWO PARAMETERS VALID RETURN CODES FOR XWSSRRWO ARE: UERCNORM EQU X'00' UERCRPIP EQU X'04' BYPASS REQUEST				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XWSSRROO PARAMETERS VALID RETURN CODES FOR XWSSRROO ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XWSSRROI PARAMETERS VALID RETURN CODES FOR XWSSRROI ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XWSSRRWI PARAMETERS VALID RETURN CODES FOR XWSSRRWI ARE: UERCNORM EQU X'00'				
UEPCHANN DS A ADDRESS OF NAME OF CHANNEL				
UEPCONTR DS A ADDRESS OF CONTAINER NAME				
XFCRLSCO PARAMETERS Exit specific parameters are: UEPFILEN - Address of 8 byte field containing the file name UEPDSNAME - Address of 44 byte field containing the DSNAME UEPFSERV - Address of the file servreqs flag UEPFDSACC - Address of the file access method flag - 2 pointers reserved UEPRECUR - Address of halfword recursion level VALID RETURN CODES FOR XFCSREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS THE OPEN FAILURE				
(30)	ADDRESS	4	UEPFILEN	Address of 8 character file name
(34)	ADDRESS	4	UEPDSNAME	Address of 44 character DSNAME
(38)	ADDRESS	4	UEPFSERV	Address of file servreqs flag
Valid values for UEPFSERV are:				
(38)	1...		UEPFRDIM	"X'80'" Read Valid Indicator
(38)	..1.		UEPFUPDIM	"X'20'" Update Valid Indicator
(38)	...1		UEPFADDIM	"X'10'" Add Valid Indicator
(38)	.... 1...		UEPFDELIM	"X'08'" Delete Valid Indicator
(38)	.... ..1.		UEPFBRZIM	"X'02'" Browse Valid Indicator
(3C)	ADDRESS	4	UEPFDSACC	Address of file access method flag

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
Valid values for UEPFDSACC are:				
(3C)	1...		UEPFVSAM	"X'80'" VSAM File Indicator
(3C)	..1.		UEPFDTBL	"X'20'" Data table File Indicator
(3C)	...1		UEPFDTUM	"X'10'" User Data table File Indicator
(3C)	.... .1..		UEPFRLS	"X'04'" RLS File Indicator
(3C)	.... ..1.		UEPFCFDT	"X'02'" CFDT File Indicator
(40)	ADDRESS	4		Reserved
(44)	ADDRESS	4		Reserved
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
XEPCAP PARAMETERS VALID RETURN CODES FOR XEPCAP ARE: UERCNORM EQU X'00' NORMAL (default).				
(40)	ADDRESS	4		UEPLOAD - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPRSA - AS DEFINED ABOVE
(48)	ADDRESS	4	UEPEPTASK	Address of the current task number
(4C)	ADDRESS	4	UEPEPCX	Address of the EPCX
(B0)	FULLWORD	4	UEPEPEND (0)	END OF TYPE = EP DSECT
(B0)	1.11		UEPEPLEN	"UEPEPEND-UEPEXN"
RETURN CODE EQUATES All RC Equates except UERCNORM which is above				
(B0)	....		UERCSYS	"X'00'" TAKE SYSTEM ACTION
(B0)	....		UERCDTAC	"X'00'" Accept record
(B0)	.... .1..		UERCDTRJ	"X'04'" Reject record
(B0)	.... .1..		UERCDTCL	"X'04'" Close file
(B0)	....		UERCDTOK	"X'00'" File open OK
(B0)	.... 1...		UERCDTOP	"X'08'" Optimise data table add
(B0)	.... 11..		UERCDTEX	"X'0C'" Extension for data tables
(B0)	.... 1...		UERCDTSH	"X'08'" Shared data table load
(B0)	....		UERCNOAC	"X'00'" NO ACTION
(B0)	.... .1..		UERCTDOK	"X'04'" Quit TD processing - return "normal" to caller
(B0)	.... .1..		UERCSWCH	"X'04'" SWITCH TO ALTERNATE OR DON'T SWITCH AUTOSWITCH OFF.

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B0)	.... .1..		UERCBYP	"X'04"' BYPASS (NO ACTION)
(B0)	.... 1...		UERCBYPL	"X'08"' BYPASS AND KEEP MIRROR
(B0)	.... .1..		UERCRESU	"X'04"' Resource unavailable for request
(B0)	.... .1..		UERCCOIG	"X'04"' IGNORE
(B0)	.... .1..		UERCQUE	"X'04"' QUEUE THE REQUEST
(B0)	.... .1..		UERCMEA	"X'04"' PROGRAM CONTROL ADDRESS MODIFIED
(B0)	.... .1..		UERCSWAP	"X'04"' ISSUE SYSEVENT TO ALLOW ADDRESS-SPACE SWAP
(B0)	.... 1...		UERCTDNA	"X'08"' Quit TD processing - return "notauth" to caller
(B0)	....		UERCFAIL	"X'00"' TREAT AS BACKOUT FAILURE
(B0)	.... .1..		UERCLDEL	"X'04"' LOGICALLY DELETE RECORD BY REAPPLYING
(B0)	.... .1..		UERCBCKO	"X'04"' PERFORM THE BACKOUT OF THE LOG RECORD
(B0)	.... 1...		UERCIGN	"X'08"' IGNORE, RETURN SYSIDERR
(B0)	.... 1...		UERCABNO	"X'08"' ABEND CICS WITHOUT DUMP
(B0)	.... 1...		UERCNOSW	"X'08"' SYSEVENT TO SUPPRESS ADDRESS-SPACE SWAP
(B0)	.... 11..		UERCABDU	"X'0C"' ABEND CICS WITH DUMP
(B0)	....		UERCTEUN	"X'00"' TERMINAL UNKNOWN
(B0)	.... .1..		UERCNETN	"X'04"' TERMINAL KNOWN, NETNAME RETURNED
(B0)	.... 1...		UERCSYSI	"X'08"' TERMINAL KNOWN, SYSID RETURNED
(B0)	..1.		UERCPURG	"X'20"' TASK BEING PURGED
(B0)	....		UERCAQUE	"X'00"' Queue allocate request
(B0)	.... .1..		UERCAPUR	"X'04"' Purge allocate request

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B0)	.... 1...		UERCAKLL	"X'08'" Kill queued tasks for connection
(B0)	.... 11..		UERCAKLM	"X'0C'" Kill queued tasks for modegrp
(B0)	.... 1...		UERCSCPE	"X'08'" Scope returned
(B0)	.... .1..		UERCPREV	"X'04'" Pre-2.1 SIGNON behavior
(B0)	....		UERCNOCA	"X'00'" Abend task ASRB, don't cancel exits
(B0)	.... .1..		UERCCANC	"X'04'" Abend task ASRB, cancel exits
(B0)	.... 1...		UERCCICS	"X'08'" Abend CICS
(B0)	.... .1..		UERCBARR	"X'04'" Remote host name is barred
(B0)	.... 1...		UERCPROX	"X'08'" Proxy information provided
(B0)	.... 11..		UERCERR	"X'0C'" Error occurred in exit processing
(B0)	.... .1..		UERCRPIP	"X'04'" Return pipe
END OF RETURN CODE EQUATES FILE CONTROL RETURN CODE EQUATES FOR UEPFCRSP				
(B0)	...1		UEDUPREC	"X'10'" DUPLICATE KEY ON UNIQUE AIX
(B0)	..1.		UENOSPAC	"X'20'" NO SPACE AVAILABLE
(B0)	..1. .1..		UEIOEROR	"X'24'" I/O ERROR
(B0)	.1..		UENOLDEL	"X'40'" LOGICAL DELETE BYPASSED
(B0)	.1.. ...1		UENBWBAK	"X'41'" NON-BWO BACKUP IN PROGRESS
(B0)	1.11		UEDLOCK	"X'B0'" DEADLOCK
(B0)	11..		UERLSERR	"X'C0'" VSAM RLS FAILURE DETECTED
(B0)	11.. ...1		UERLSDIS	"X'C1'" VSAM RLS ACCESS DISABLED
(B0)	11.. ..1.		UERLSCON	"X'C2'" CONTINUATION OF RLS REQUEST DISABLED
(B0)	11.. ..11		UECACHE	"X'C3'" VSAM RLS CACHE FAILURE
(B0)	11.. .1..		UELCKFUL	"X'C4'" VSAM LOCK STRUCTURE FULL
(B0)	1111		UEAIXFUL	"X'F0'" NO SPACE IN NON_UNIQUE AIX
(B0)	1111 1.11		UEOPENER	"X'FB'" FILE OPEN ERROR

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B0)	1111 111.		UEUNEXP	"X'FE'" UNEXPECTED ERROR
END OF FILE CONTROL RETURN CODE EQUATES FILE CONTROL ERROR TYPE BYTE EQUATES FOR UEPERR THE ERROR TYPE INDICATES THE STAGE DURING BACKOUT AT WHICH THE FAILURE OCCURRED				
(B0)	....		XBFENO	"X'00'" NO ERROR
(B0)	1		XBFERU	"X'01'" READ UPDATE ERROR
(B0)	.... .1..		XBFERE	"X'04'" REWRITE ERROR
(B0)	.... 1...		XBFEWR	"X'08'" WRITE ERROR
(B0)	..1.		XBFEDL	"X'20'" DELETE ERROR
END OF FILE CONTROL ERROR TYPE BYTE EQUATES				
(B0)	1...		UERTPREP	"X'80'" PREPARE
(B0)	.1..		UERTCOMM	"X'40'" COMMIT UNCONDITIONALLY
(B0)	..1.		UERTBACK	"X'20'" BACKOUT
(B0)	...1		UERTDGCS	"X'10'" LOST TO CICS INITIAL START
(B0)	.... 1...		UERTDGNK	"X'08'" RM SHOULD NOT BE IN-DOUBT
(B0)	.... .1..		UERTWAIT	"X'04'" RM WILL HAVE TO WAIT FOR OUTCOME
(B0)	.... ..1.		UERTRSYN	"X'02'" RESYNC
(B0)	1		UERTLAST	"X'01'" LAST COMMIT/ABORT IN THREAD
(B0)	1...		UERTONLY	"X'80'" RM IS ONLY UPDATER - TRUE CAN PERFORM SINGLE PHASE COMMIT
(B0)	.1..		UERTELUW	"X'40'" RM IS READ ONLY - TRUE CAN INVOKE RM WITH END LUW CALL.
(B0)	.... .1..		UERFPREP	"4" VOTE-YES
(B0)	.... 1...		UERFBACK	"8" VOTE-NO
(B0)	.... 11..		UERFNLOG	"12" VOTE-YES-BUT-DO-NOT-LOG
(B0)	.... .1..		UERFDONE	"4" COMMIT/ABORT COMPLETE
(B0)	.... 1...		UERFHOLD	"8" REMEMBER COMMIT/ABORT
(B0)	.... .1..		UERFOK	"4" SINGLE PHASE (UERTONLY): COMMITTED OK

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B0)	.... 1...		UERFBOUT	"8" SINGLE PHASE (UERTONLY): BACKED OUT
(B0)	1...		UERTEOTR	"X'80'" END OF THREAD
(B0)	.1..		UERTSOTR	"X'40'" START OF TASK
(B0)	1... ..1.		UERTRTTR	"X'82'" no longer used
(B0)	.1.. ..1.		UERTRTST	"X'42'" no longer used
(B0)	.... .1..		UERFEOTR	"4" CALL UNDERSTOOD
(B0)	1...		UERTCONN	"X'80'" EXTERNAL RESOURCE MANAGER IS
(B0)	.1..		UERTNCON	"X'40'" EXTERNAL RESOURCE MANAGER IS NOT
(B0)	1...		UERTCORD	"X'80'" CICS Orderly Termination
(B0)	.1..		UERTCIMM	"X'40'" CICS Immediate Termination
(B0)	..1.		UERTCABY	"X'20'" CICS ABEND (Retry possible - TCBs Dispatchable)
(B0)	...1		UERTCABN	"X'10'" CICS ABEND (Retry NOT possible - TCBs Dispatchable)
(B0)	1		UERTOPCA	"X'01'" Operator Cancel (Retry NOT possible - TCBs NOT dispatchable)
EXITID EQU-LIST - Global User Exit Number				
(B0)	1		XTCIN	"1"
(B0)	.... ..1.		XTCOUT	"2"
(B0)	11		XTCATT	"3"
(B0)	.... .1..		XTCTIN	"4"
(B0)	.... .1.1		XTCTOUT	"5"
(B0)	.... .11.		XDSBWT	"6"
(B0)	.... .111		XDSAWT	"7"
(B0)	.... 1...		XLGSTRM	"8"
(B0)	.... 1..1		XDUREQ	"9"
(B0)	.... 1.1.		XDUCLSE	"10"
(B0)	.... 1.11		XDUOUT	"11"
(B0)	.... 11..		XMEOUT	"12"
(B0)	.... 11.1		XFCREQ	"13"
(B0)	.... 111.		XFCREQC	"14"
(B0)	 1111		XTSPTOUT	"15"
(B0)	...1		XGMTEXT	"16"
(B0)	...1 ...1		XMNOUT	"17"

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B0)	...1 ..1.		XRCINIT	"18"
(B0)	...1 ..11		XRCINPT	"19"
(B0)	...1 .1..		XICREQ	"20"
(B0)	...1 .1.1		XICEXP	"21"
(B0)	...1 .11.		XISLCLQ	"22"
(B0)	...1 .111		XPCFTCH	"23"
(B0)	...1 1...		XPCHAIR	"24"
(B0)	...1 1..1		XPCTA	"25"
(B0)	...1 1.1.		XPCABND	"26"
(B0)	...1 1.11		XPCREQ	"27"
(B0)	...1 11..		XPCREQC	"28"
(B0)	...1 11.1		XTDREQ	"29"
(B0)	...1 111.		XTDIN	"30"
(B0)	...1 1111		XTDOUT	"31"
(B0)	..1.		XTSQRIN	"32"
(B0)	..1. ...1		XTSQROUT	"33"
(B0)	..1. ..1.		XTSPTIN	"34"
(B0)	..1. ..11		XZCIN	"35"
(B0)	..1. .1..		XZCOUT	"36"
(B0)	..1. .1.1		XZCATT	"37"
(B0)	..1. .11.		XZCOUT1	"38"
(B0)	..1. .111		XXRSTAT	"39"
(B0)	..1. 1...		XXDFA	"40"
(B0)	..1. 1..1		XXDFB	"41"
(B0)	..1. 1.1.		XXDTO	"42"
(B0)	..1. 1.11		XSTOUT	"43"
(B0)	..1. 11..		XDLIPRE	"44"
(B0)	..1. 11.1		XDLIPOST	"45"
(B0)	..1. 111.		XFCSREQ	"46"
(B0)	..1. 1111		XEIIN	"47"
(B0)	..11		XEIOUT	"48"
(B0)	..11 ...1		XALTENF	"49"
(B0)	..11 ..1.		XICTENF	"50"
(B0)	..11 ..11		XDTAD	"51"
(B0)	..11 .1..		XDTRD	"52"
(B0)	..11 .1.1		XDTLC	"53"
(B0)	..11 .11.		XSTERM	"54"
(B0)	..11 .111		XSRAB	"55"
(B0)	..11 1...		XFCSREQC	"56"
(B0)	..11 1..1		XSZBRQ	"57"

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B0)	..11 1.1.		XSZARQ	"58"
(B0)	..11 1.11		XISCONA	"59"
(B0)	..11 11..		XRSINDI	"60"
(B0)	..11 11.1		XXMATT	"61"
(B0)	..11 111.		XZIQUE	"62"
(B0)	..11 1111		XTSEREQ	"63"
(B0)	.1..		XTSEREQC	"64"
(B0)	.1.. ...1		XTDEREQ	"65"
(B0)	.1.. ..1.		XTDEREQC	"66"
(B0)	.1.. ..11		XICEREQ	"67"
(B0)	.1.. .1..		XICEREQC	"68"
(B0)	.1.. .1.1		XALCAID	"69"
(B0)	.1.. .11.		XSNON	"70"
(B0)	.1.. .111		XSNOFF	"71"
(B0)	.1.. 1...		XRMIIN	"72"
(B0)	.1.. 1..1		XRMIOUT	"73"
(B0)	.1.. 1.1.		XAKUSER	"74"
(B0)	.1.. 1.11		XFCNREC	"75"
(B0)	.1.. 11..		XFCBFAIL	"76"
(B0)	.1.. 11.1		XFCLDEL	"77"
(B0)	.1.. 111.		XFCBOVER	"78"
(B0)	.1.. 1111		XFCBOUT	"79"
(B0)	.1.1		XFCVSDS	"80"
(B0)	.1.1 ...1		XFCQUIS	"81"
(B0)	.1.1 ..1.		XDUREQC	"82"
(B0)	.1.1 ..11		XFCAREQ	"83"
(B0)	.1.1 .1..		XFCAREQC	"84"
(B0)	.1.1 .1.1		XEISPIN	"85"
(B0)	.1.1 .11.		XEISPOUT	"86"
(B0)	.1.1 .111		XNQEREQ	"87"
(B0)	.1.1 1...		XNQEREQC	"88"
(B0)	.1.1 1..1		XFAINTU	"89"
(B0)	.1.1 1.1.		XBMIN	"90"
(B0)	.1.1 1.11		XBMOUT	"91"
(B0)	.1.1 11..		XBADEACT	"92"
(B0)	.1.1 11.1		XLDLOAD	"93"
(B0)	.1.1 111.		XLDELETE	"94"
(B0)	.1.1 1111		XSNEX	"95"
(B0)	.11.		XFCFRIN	"96"
(B0)	.11. ...1		XFCFROUT	"97"

Table 673. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B0)	.11. ..1.		XICERES	"98"
(B0)	.11. ..11		XPCERES	"99"
(B0)	.11. .1..		XWBOPEN	"100"
(B0)	.11. .1.1		XWBSNDO	"101"
(B0)	.11. .11.		XWBAUTH	"102"
(B0)	.11. .111		XAPADMGR	"103"
(B0)	.11. 1...		XISQUE	"104"
(B0)	.11. 1..1		XWSPRROO	"105"
(B0)	.11. 1.1.		XWSPRRWI	"106"
(B0)	.11. 1.11		XWSPRROI	"107"
(B0)	.11. 11..		XWSPRRWO	"108"
(B0)	.11. 11.1		XWSRQRWO	"109"
(B0)	.11. 111.		XWSRQROO	"110"
(B0)	.11. 1111		XWSRQROI	"111"
(B0)	.111		XWSRQRWI	"112"
(B0)	.111 ...1		XWSSRRWO	"113"
(B0)	.111 ..1.		XWSSRROO	"114"
(B0)	.111 ..11		XWSSRROI	"115"
(B0)	.111 .1..		XWSSRRWI	"116"
(B0)	.111 .1.1		XISQLCL	"117"
(B0)	.111 .11.		XFCRLSCO	"118"
(B0)	.111 .111		XEPCAP	"119"

URL - User supplied route list entry

```
       Licensed Materials - Property of IBM
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       (C) Copyright IBM Corp. 1982, 1988
DESCRIPTIVE NAME = CICS TS USER-SUPPLIED ROUTE LIST ENTRY
COPYBOOK DFHURLDS.
All programs which issue DFHBMS TYPE=ROUTE macro instructions
must contain a user-supplied route list, defining the terminals
and/or operator to which the logical message is to be routed. The
entries in the route list must be formatted as described by this
DSECT.
  PN= REASON REL YYMMDD HDXIII : REMARKS
```

Table 674.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHURLDS	DUMMY SECTION - USER'S ROUTE LIST
(0)	CHARACTER	4	URLTRMID	TERMINAL IDENTIFICATION
(4)	CHARACTER	2	URLLDCMN	LOGICAL DEVICE MNEMONIC

Table 674. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6)	CHARACTER	3	URLOPID	OPERATOR IDENTIFICATION
(9)	BITSTRING	1	URLTSF	STATUS FLAG
(9)	1...		URLSKIP	"X'80'" USER ROUTE LIST ENTRY SKIPPED
(9)	.1..		URLITI	"X'40'" INVALID TERMINAL IDENTIFICATION
(9)	..1.		URLNS	"X'20'" TERMINAL NOT SUPPORTED UNDER BMS
(9)	...1		URLONSO	"X'10'" OPERATOR NOT SIGNED ON
(9)	.... 1...		URLSOUST	"X'08'" OPERATOR SIGNED ON UNSUPPORTED TERMINAL
(9)	.... .1..		URLINVMN	"X'04'" INVALID LDC MNEMONIC
(A)	CHARACTER	6	URLRESV	RESERVED - MUST BE BLANKS
(A)	...1		URLNEXT	"*" START NEXT ENTRY
(0)	CHARACTER	2	URLCHIND	URL CHAIN INDICATOR
THE FOLLOWING ARE ACCEPTABLE VALUES FOR 'URLCHIND'				
(0)	BITSTRING	0	URLEND	"X'FFFF'" END OF URL
(0)	BITSTRING	0	URLCONT	"X'FFFE'" URL CONTINUED IN NEXT SEGMENT
(2)	CHARACTER	2		RESERVED
(4)	CHARACTER	4	URLCHADR	URL CHAIN ADDRESS (NEEDED WHEN URLCHIND IS X'FFFE')
(4)	...1		URLCAD	"*-DFHURLDS" LENGTH OF USER ROUTE LIST ENTRY

VMID - Module identifier

```
CONTROL BLOCK NAME = DFHVMDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Module Identifier.
FUNCTION =
 All CICS modules begin with a DFHVM macro that expands to generate
 the name of the module, its entry point address, the version,
 modification level and the date and time of assembly. The expansion
 of the macro is described by DFHVMDS.
```

Table 675.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHVMDS	MODULE IDENTIFIER
(0)	CHARACTER	1	VMSTART	'*' EYECATCHER

Table 675. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(14)	CHARACTER	2	VMDATE	ASSEMBLY DATE
(16)	CHARACTER	8	VMPTFNO	PTF NUMBER
(1E)	BITSTRING	1	VMFLAG1	FIRST FLAG FIELD
(1E)	.1..		VMDLIGEN	"X'40'" DL/I GENERATED
(1E)	...1		VMMVSGEN	"X'10'" FOR MVS
(1E)	.... 1...		VMSRBGEN	"X'08'" SRB GENERATED
(1E)	.... .1..		VMMVS811	"X'04'" FOR MVS/811
(1F)	BITSTRING	1	VMFLAG2	SECOND FLAG FIELD
(1F)	1...		VMAMODE1	"X'80'" AMODE BIT 1
(1F)	.1..		VMAMODE2	"X'40'" AMODE BIT 2
(1F)	..1.		VMRMODE	"X'20'" RMODE 31
(20)	HALFWORD	2	(0)	
(20)	..1.		VMLNGTH	"*-DFHVMDS" MEMBER-DEPENDENT LENGTH

VSWA - FC VSAM work area

```
CONTROL BLOCK NAME = DFHVSWAS
DESCRIPTIVE NAME = CICS/ESA (FC) VSAM WORK AREA
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1982, 2008
FUNCTION =
     The VSWA is the File Control VSAM Work Area.
     The VSAM Work Area is created by the File Control Program
     DFHFCVS at the start of processing of a VSAM request
     (GET, PUT) or series of requests (GET UPDATE - PUT UPDATE,
     STARTBR - READNEXT - END BROWSE, etc.) and contains
     information related to the request. The VSWA consists of
     a CICS part and a VSAM part. The VSAM part is the
     VSAM RPL that represents the request to VSAM. The VSWA
     is deleted when the request is terminated.
LIFETIME =
     Created by DFHFCVS at the start of a request or series of
     requests. Destroyed by FCVS when the request/series ends.
STORAGE CLASS =
     Above 16M line.
LOCATION =
     VSWA is pointed to by the field FRT_WORK_AREA_ADDRESS in
     the File Request Thread Element (FRTE).
INNER CONTROL BLOCKS =
     The VSWA contains within it (at offset 8) the VSAM
     Request Parameter List (RPL).
```

```
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES = None
  DATA AREAS = None.
  CONTROL BLOCKS = None.
  GLOBAL VARIABLES (Macro pass) = None.
                  VSAM WORK AREA
```

Table 676.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHVSWA	VSAM work area
(0)	CHARACTER	8	VSWA_SAA	This section replaces the old storage accounting area
(0)	CHARACTER	1	VSWACLS	Stg class
(1)	CHARACTER	1	*	Reserved
(2)	UNSIGNED	2	VSWALNTH	Length of VSWA
(4)	ADDRESS	4	VSWANXT	Next VSWA on free chain
(8)	CHARACTER	76	VSWARPL	VSAM Request Parameter List
(8)	FULLWORD	4	VSWAIDWD	RPL identification word
(8)	UNSIGNED	1	VSWAID	RPL identifier
(9)	UNSIGNED	1	VSWASTYP	RPL subtype
(A)	UNSIGNED	1	VSWAREQ	Request type
(B)	UNSIGNED	1	VSWARLEN	RPL length
(C)	ADDRESS	4	VSWAPLHP	PLH address
(10)	ADDRESS	4	VSWAECB	Event control block (ECB) or address of ECB if VSWAECBS = '1'B
(10)	CHARACTER	4	VSWAECBC	ECB as string
(14)	CHARACTER	4	VSWARESP	RPL response bytes
(14)	UNSIGNED	1	VSWASTAT	RPL status flags
(15)	CHARACTER	3	VSWAFDBK	RPL feedback area
(15)	UNSIGNED	1	VSWARTNC	RPL return code
(16)	CHARACTER	2	VSWACNDC	RPL condition code
(16)	UNSIGNED	1	VSWACMPN	Component issuing the code
(17)	UNSIGNED	1	VSWAERRC	Error Code
(18)	HALFWORD	2	VSWARKYL	RPL key length
(1A)	HALFWORD	2	VSWASTID	RPL string identifier
(1C)	ADDRESS	4	VSWACCHR	Control character address
(20)	ADDRESS	4	VSWAACB	ACB address
(24)	ADDRESS	4	VSWATCB	TCB address
(28)	ADDRESS	4	VSWAREA	Area Address
(2C)	ADDRESS	4	VSWAARG	Argument address
(30)	CHARACTER	4	VSWAOPTC	Option codes

Table 676. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(30)	UNSIGNED	1	VSWAOPT1	Option code byte 1
(30)	1...		*	Reserved
(30)	.1..		VSWADIR	Direct search access
(30)	..1.		VSWASEQ	Sequential access
(30)	...1		*	Reserved
(30)	.... 1...		VSWAASY	Asynchronous request
(30)	.... .11.		*	Reserved
(30)	1		VSWAECBS	VSWAECB has ADDR(ECB)
(31)	UNSIGNED	1	VSWAOPT2	Option code byte 2
(31)	1111 11..		*	Reserved
(31)	.... ..1.		VSWAUPD	Update Processing
(31)	1		*	Reserved
(32)	UNSIGNED	1	VSWAOPT3	Option code byte 3
(33)	UNSIGNED	1	VSWAOPT4	Option code byte 4
(34)	ADDRESS	4	VSWANRPL	Next RPL Address
(38)	FULLWORD	4	VSWALEN	Record length
(3C)	FULLWORD	4	VSWABUFL	Buffer length
(40)	FULLWORD	4	*	Reserved
(44)	CHARACTER	8	VSWARBAR	RBA return field
(44)	FULLWORD	4	*	
(48)	UNSIGNED	4	VSWALRBA	Record RBA
(4C)	UNSIGNED	1	*	Reserved
(4D)	UNSIGNED	1	VSWACTIV	Check not issued
(4E)	HALFWORD	2	VSWAEML	Error message length
(50)	ADDRESS	4	VSWAEMA	Error message area address
(54)	CHARACTER	8	VSWA_SUSPEND_CHN	VSWA suspend chain
(54)	ADDRESS	4	VSWA_NEXT_ACT	- Next in chain
(58)	CHARACTER	4	VSWA_TASK_TOK	- Task token END OF FIXED SECTION
VARIABLE SECTION				
(5C)	CHARACTER	20	VSWAVRS0	Variable section 0
(5C)	ADDRESS	4	VSWAFCT	File control table entry addr
(60)	ADDRESS	4	VSWA_RECORD_LOCK	Addr record lock area
(64)	ADDRESS	4	VSWA_DELETE_LOCK	Addr delete lock area
(68)	HALFWORD	2	VSWAENQL	Length of ENQ argument
(6A)	HALFWORD	2	VSWA_BKL	Base key/RBA/RRN length
(6C)	ADDRESS	4	*	Reserved
(70)	CHARACTER	12	VSWAVRS2	Variable section 2
(70)	ADDRESS	4	VSWARIF	Record ID field address
(74)	CHARACTER	1	VSWAFLG1	Flag byte 1

Table 676. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(74)	1...		VSWABGEN	Generic browse
(74)	.1..		VSWABRBA	RBA browse
(74)	..1.		VSWABIP	Browse in progress
(74)	...1		VSWA_SEQUENTIAL	Browse positioned for SEQ
(74)	.... 1...		VSWA_XRBA_BROWSE	XRBA Browse
(74)	.... .1..		VSWA_DT_WAIT	Data table open is waiting for this request to complete
(74)	.... ..1.		VSWA_080X14	Index and Base maybe out of sync
(74)	1		VSWA_INFLIGHT	VSAM request is in flight
(75)	CHARACTER	1	VSWAFLG2	Flag byte 2
(75)	1...		VSWA_SUSPENDED	Resume is required
(75)	.1..		VSWA_NQ_WAIT_REQD	NQ/busy abt to WAIT
(75)	..1.		VSWA_PURGE_PROTECT	Start Purge Prot
(75)	...1		VSWA_REPAIR	Reposition needed
(75)	.... 1...		VSWA_RETRY_USING_BASE	Use Base ACB
(75)	.... .111		*	Reserved
(76)	HALFWORD	2	VSWAKEYL	Key length
(78)	ADDRESS	4	*	Reserved
(7C)	CHARACTER	68	VSWAVRS3	Variable section 3
(7C)	ADDRESS	4	VSWACHN	General VSWA chain field
(80)	ADDRESS	4	VSWANEXT	Pointer to next VSWA in base cluster chain.
(84)	ADDRESS	4	VSWAPREV	Pointer to previous VSWA in base cluster chain.
(88)	ADDRESS	4	VSWAXCHN	Pointer to next VSWA waiting for my owner.
(8C)	ADDRESS	4	VSWAOWND	Pointer to VSWA chain for me.
(90)	ADDRESS	4	VSWAOWNR	Pointer to VSWA for which I am waiting.
(94)	UNSIGNED	1	VSWA_VICTIM_COUNT	No. of attempts to kill this VSWA
(95)	CHARACTER	1	VSWAIND	VSAM work area indicators
(95)	1...		VSWAEREQ	VSAM ENDREQ is required
(95)	.1..		VSWABRZI	This is a browse VSWA
(95)	..1.		VSWAMASS	Mass insert VSWA
(95)	...1		VSWAFRST	First request in BROWSE or MASS INSERT sequence or single ADD.
(95)	.... 1...		VSWASTRG	VSAM string acquired
(95)	.... .1..		*	Reserved

Table 676. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(95)	.... ..1.		VSWALSRP	Path browse request to LSR file.
(95)	1		VSWARLO	Record lock only update
(96)	HALFWORD	2	VSWASTG	Number of strings allocated to access request for a file using LSR.
(98)	FULLWORD	4	VSWARQST	VSAM Request code
(9C)	CHARACTER	4	VSWA_JECN	System log event number
(A0)	CHARACTER	4	VSWA_SAVE_OPTC	Saved RPL option bytes
(A4)	ADDRESS	4	VSWASV12	TCA address
(A8)	ADDRESS	4	VSWA_FRTE	Address of related FRTE
(AC)	HALFWORD	2	VSWA_REQD_STRINGS	Number of strings required for a request (LSR only)
(AE)	BIT(8)	1	*	
(AE)	1...		VSWA_REM	Need to release exclusive conflict resources.
(AE)	.1..		VSWA_MASS_INSERT	Mass insert
(AE)	..1.		VSWA_ADD_DELETE	Single add or delete
(AE)	...1		VSWALOCK	End of range id. is locked and must be released
(AE)	.... 1...		VSWA_ESDS_LOCK	ESDS WRITE lock held
(AE)	.... .1..		VSWA_UPDATE	Performing an update
(AE)	.... ..1.		VSWA_NONRECOV_LOCK	Record lock held for duration of read update of non-recoverable file.
(AE)	1		VSWA_SET_BROWSE	1st after STARTBR/RESETBR
(AF)	BIT(8)	1	*	
(AF)	1...		VSWA_0890_POST	DFHFCVR is waiting for this request to complete. Set by DFHFCVR to indicate its interest in completion of request
(AF)	.1..		VSWA_BACKWARDS	Backward browse
(AF)	..11 1111		*	Reserved
(B0)	ADDRESS	4	VSWA_DATA_BUFFER1	1st work-buffer address
(B4)	ADDRESS	4	VSWA_DATA_BUFFER2	2nd work-buffer address
(B8)	HALFWORD	2	VSWA_LAST_LEN	Last specified keylength
(BA)	HALFWORD	2	VSWA_LOG_LENGTH	Length for logging
(BC)	CHARACTER	4	VSWA_SUSPEND_TOKEN	Suspend token for exclusive control conflict.
Ensure 32 byte boundary for dump viewing				
(C0)	CHARACTER	288	VSWA_TRACE_TABLE	
(C0)	CHARACTER	28	VSWA_TRACE_DIAGS	Diags for this task

Table 676. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C0)	CHARACTER	4	VSWA_TASKID	owning taskid
(C4)	CHARACTER	4	VSWA_TRANID	owning tranid
(C8)	CHARACTER	4	VSWA_XTASKID	taskid of excl ctrl conflict owning VSWA
(CC)	CHARACTER	4	VSWA_XTRANID	tranid of excl ctrl conflict owning VSWA
(D0)	CHARACTER	8	VSWA_SUSP	last suspend call
(D8)	UNSIGNED	1	VSWA_DEADLOCK_RSN	deadlock reason
(D9)	CHARACTER	3	*	Spare
(DC)	ADDRESS	4	VSWA_TRACE_NEXT	Next trace entry
(E0)	CHARACTER	0	VSWA_TRACE_START	Start of trace table
(E0)	CHARACTER	32	VSWA_TRACE_RECORD (7)	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
(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 677.

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 678.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	VSWA_TRACE	
(0)	CHARACTER	8	VSWAT_TOD	TOD High Word

Table 678. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8)	ADDRESS	4	VSWAT_VSWAFCT	FCT address
(8)	CHARACTER	1	*	Hi bit used for
(8)	1...		VSWAT_BASE_RETRY	retry using base
(C)	FULLWORD	4	VSWAT_W2	
(C)	CHARACTER	1	VSWAT_VSWAOPT1	Opt code 1
(D)	CHARACTER	1	VSWAT_VSWAOPT2	Opt code 2
(E)	CHARACTER	1	VSWAT_VSWAOPT3	Opt code 3
(F)	BIT(8)	1	VSWAT_VSWARQST	VSAM request code
(10)	CHARACTER	4	VSWAT_VSWA_TASKID	Task issuing request
(14)	CHARACTER	4	VSWAT_VSWARESP	FFFFFFFFx if inflight
(14)	UNSIGNED	1	VSWAT_VSWASTAT	RPL status flags
(15)	UNSIGNED	1	VSWAT_VSWARTNC	RPL return code
(16)	UNSIGNED	1	VSWAT_VSWACMPN	Component issuing code
(17)	UNSIGNED	1	VSWAT_VSWAERRC	Error Code
(18)	ADDRESS	4	VSWAT_VSWA_PLH	PLH address
(1C)	ADDRESS	4	VSWAT_VSWA_TCB	TCB address
(20)	CHARACTER	0	*	

Constants

Table 679.

Len	Type	Value	Name	Description
4	DECIMAL	7	VSWAT_NRECS	# trace entries
4	DECIMAL	32	VSWAT_SIZE	Size of entries
Values of VSWA_DEADLOCK_RSN for deadlock handling We decide whether to terminate our task or the task that we are in deadlock with (the victim) The decision is based on whether either task has priority This table describes the options				
1	DECIMAL	0	VSWA_DR_KILL_VICTIM	
1	DECIMAL	1	VSWA_DR_NO_VICTIM	
1	DECIMAL	2	VSWA_DR_MULTIPLE_ OFFENDER	
1	DECIMAL	3	VSWA_DR_VICTIM_BROKE_ AIX	
1	DECIMAL	4	VSWA_DR_BOTH_TASKS_ NORMAL	

WBCLB - Web client session

Table 680.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	584	WBO_SESSION	Outbound session data
(0)	HALFWORD	2	WBO_LEN	length of this session data

Table 680. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	CHARACTER	14	WBO_EYECATCHER	Eyecatcher >DFHWBOSESSION
(10)	ADDRESS	4	WBO_WBA_NEXT	WBA chain: forward link
(14)	ADDRESS	4	WBO_WBA_PREV	WBA chain: backward link
(18)	ADDRESS	4	WBO_TXN_NEXT	TXN chain: forward link
(1C)	ADDRESS	4	WBO_TXN_PREV	TXN chain: backward link
(20)	STRUCTURE IsA(ETOKEN)	8	*	Reserved
(20)	ADDRESS	4	P	
(24)	FULLWORD	4	N	
(28)	STRUCTURE IsA(ETOKEN)	8	WBO_TXN	Transaction token
(28)	ADDRESS	4	P	
(2C)	FULLWORD	4	N	
(30)	BIT(8)	1	WBO_FLAG1	Request status
(30)	1...		WBO_PROXY	Proxy required
(30)	.1..		WBO_HEADERS_SENT	Headers have been sent
(30)	..1.		WBO_ALLOW_TRAILERS	Allow chunk trailers
(30)	...1		WBO_CONCLOSE_SENT	Connection: close sent
(30)	.... 1...		WBO_VERSION_SAVED	Version already saved
(30)	.... .1..		WBO_NATIVE_REQUEST	Don't translate request body
(30)	.... ..1.		WBO_PROTOCOL_ISC	Protocol is ISC
(30)	1		WBO_CHUNKED_REQUEST	Send chunked data
(31)	UNSIGNED	1	WBO_FLAG2	Response status
(31)	1...		WBO_HTTP11	Server is at HTTP1.1 or later
(31)	.1..		WBO_HEADERS_RECEIVED	Headers have been received
(31)	..1.		WBO_TEXT_RESPONSE	Response is text-based
(31)	...1		WBO_SESSION_CLOSED	Session closed by peer
(31)	.... 1...		WBO_MBCS_RESPONSE	Response body is DBCS/MBCS
(31)	.... .1..		WBO_NATIVE_RESPONSE	Don't translate response body
(31)	.... ..1.		WBO_TRAILER_HEADERS	Trailer headers expected
(31)	1		WBO_CHUNKED_RESPONSE	Receive chunked data
(32)	UNSIGNED	1	WBO_SCHEME	URL scheme 1=HTTP, 2=HTTPS
(33)	UNSIGNED	1	WBO_METHOD	HTTP method
(34)	CHARACTER	16	WBO_BIN_IP_ADDRESS	Outbound IP address
(44)	UNSIGNED	1	WBO_CHAR_IP_ADDRESS_ LEN	Char IP address length
(45)	CHARACTER	39	WBO_CHAR_IP_ADDRESS	Char IP address
(6C)	UNSIGNED	1	WBO_IP_ADDRESS_TYPE	Outbound IP address type

Table 680. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(6D)	CHARACTER	3	*	Reserved
(70)	UNSIGNED	2	WBO_PORTNUMBER	Outbound port number
(72)	UNSIGNED	1	WBO_FLAG3	Various flags
(72)	1...		WBO_OPTIONS_REQUEST	Request is options
(72)	.1..		WBO_CLOSE_HDR	Close hdr on resp
(72)	..1.		WBO_SUPPRESS_EXITS	Suppress user exits
(72)	...1		WBO_SUPPRESS_ MONITORING	Suppress monitoring
(72)	.... 1...		WBO_USER_CT_HEADER	User written cont type hdr
(72)	.... .1..		WBO_ADSFX_SET	connect with adsfx
(72)	.... ..1.		WBO_IPV6_HOST	Hostname is IPv6 address
(72)	1		WBO_TRACE_SUPPRESSION	Suppress body trace
(73)	UNSIGNED	1	WBO_FLAG4	More flags
(73)	1...		WBO_PROXY_HEADERS_X	Proxy headers exist
(73)	.1..		WBO_CONTENT_LENGTH_X	Content-len exists
(73)	..1.		WBO_SOCKET_UNUSABLE	Must close socket
(74)	FULLWORD	4	WBO_HEADER_LEN	Length of req/resp + hdrs
(78)	FULLWORD	4	WBO_RESP_HEADER_LEN	Length of resp headers
(7C)	FULLWORD	4	WBO_BODY_LEN	Len of request/response body
(80)	FULLWORD	4	WBO_PENDING_REQ_COUNT	Requests pending response
(84)	ADDRESS	4	WBO_REALM_PTR	Address of realm extensn
(88)	UNSIGNED	4	WBO_SOCKETPOOL_SIZE	Pool size used at open_ses
(8C)	UNSIGNED	4	WBO_REPOSITORY_TOKEN	Web repository token
(90)	CHARACTER	4	WBO_TRANNUM	Trannum
(94)	CHARACTER	10	WBO_HOST_CODEPAGE	host codepage
(9E)	CHARACTER	2	*	reserved
(A0)	STRUCTURE IsA(ETOKEN)	8	WBO_HOST_CCSTOKEN	CCS token for host
(A0)	ADDRESS	4	P	
(A4)	FULLWORD	4	N	
(A8)	ADDRESS	4	WBO_SOCKETPOOL_TOKEN	Token for socketpool
(AC)	CHARACTER	4	*	
(B0)	STRUCTURE IsA(ETOKEN)	8	WBO_HDRS_CCSTOKEN	CCS token for HTTP headers
(B0)	ADDRESS	4	P	
(B4)	FULLWORD	4	N	
(B8)	UNSIGNED	4	WBO_HOST_CCSID	Host IBM ccsid
(BC)	UNSIGNED	4	WBO_GUEST_CCSID	Guest IBM ccsid
(C0)	STRUCTURE IsA(BUFFER)	16	WBO_WORK_BUFFER	Addr(work buff)
(C0)	ADDRESS	4	P	

Table 680. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 680. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(156)	UNSIGNED	1	WBO_SOIS_ IPADDRESSTYPE	saving address type
(157)	UNSIGNED	1	WBO_CIPHER_COUNT	Number of ciphers
(158)	CHARACTER	28	WBO_CIPHER_SUITES	Cipher codes for SSL
(174)	STRUCTURE IsA(ETOKEN)	8	WBO_CIPHER_TOKEN	Cipher token
(174)	ADDRESS	4	P	
(178)	FULLWORD	4	N	
(17C)	CHARACTER	32	WBO_CERTLABEL	Certificate label
(19C)	ADDRESS	4	WBO_USER_TOKEN	User Token
(1A0)	STRUCTURE IsA(BLOCK)	8	WBO_PROXY_HEADERS	Address of proxy
(1A0)	ADDRESS	4	P	
(1A4)	FULLWORD	4	N	
The wbo_client_server_block is also mapped by cbs_client_server_block. A similar block is located in wbs (wbs_client_server_block). If one of these blocks is changed, the other two should also be changed.				
(1A8)	CHARACTER	124	WBO_CLIENT_SERVER_ BLOCK	
(1A8)	BIT(8)	1	WBO_PEEK_FLAGS	
(1A9)	BIT(8)	1	WBO_PEEK_FLAGS2	
(1A9)	1...		WBO_CAPEX_PENDING	
(1A9)	.1..		WBO_RECEIVE_DEFERRED	
(1A9)	..11 1111		*	
(1AA)	BIT(8)	1	WBO_STATE	
(1AA)	1...		WBO_SSL_SOCKET	
(1AB)	CHARACTER	1	*	
(1AC)	STRUCTURE IsA(BUFFER)	16	WBO_PEEK_HEADER_ BUFFER	

Table 680. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1AC)	ADDRESS	4	P	
(1B0)	FULLWORD	4	N	
(1B4)	FULLWORD	4	M	
(1B8)	FULLWORD	4	T	
(1BC)	ADDRESS	4	WBO_SOCK_TOKEN	
(1C0)	STRUCTURE IsA(ETOKEN)	8	WBO_SESSION_TOKEN	
(1C0)	ADDRESS	4	P	
(1C4)	FULLWORD	4	N	
(1C8)	FULLWORD	4	WBO_HEADERS_ PROCESSED_OFFSET	
(1CC)	FULLWORD	4	WBO_LENGTH_OF_HEADERS	
(1D0)	FULLWORD	4	WBO_LENGTH_OF_BODY	
(1D4)	FULLWORD	4	WBO_LENGTH_OF_BODY_ RECEIVED	
(1D8)	FULLWORD	4	WBO_LENGTH_OF_BODY_ IN_BUFFER1	
(1DC)	FULLWORD	4	WBO_BODY_OFFSET	
(1E0)	FULLWORD	4	WBO_MEDIATYPE_OFFSET	
(1E4)	FULLWORD	4	WBO_MEDIATYPE_LENGTH	
(1E8)	FULLWORD	4	*	
(1EC)	FULLWORD	4	*	
(1F0)	FULLWORD	4	WBO_CHARSET_OFFSET	
(1F4)	FULLWORD	4	WBO_CHARSET_LENGTH	
(1F8)	FULLWORD	4	WBO_STATUS_TEXT_ OFFSET	
(1FC)	FULLWORD	4	WBO_STATUS_TEXT_ LENGTH	
(200)	FULLWORD	4	WBO_STATUS_CODE	
(204)	STRUCTURE IsA(BUFFER)	16	WBO_SEND_HEADERS_ BUFFER	
(204)	ADDRESS	4	P	
(208)	FULLWORD	4	N	
(20C)	FULLWORD	4	M	
(210)	FULLWORD	4	T	
(214)	STRUCTURE IsA(BUFFER)	16	WBO_DISCARD_BUFFER	
(214)	ADDRESS	4	P	
(218)	FULLWORD	4	N	
(21C)	FULLWORD	4	M	
(220)	FULLWORD	4	T	
(224)	ADDRESS	4	WBO_AC_STR_PTR	ARM correlator str ptr

Table 680. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(228)	FULLWORD	4	WBO_AC_STR_LEN	ARM correlator str len
(22C)	1...		WBO_PROCESS_AC	Process ARM correlator?
(22C)	.111 1111		*	Alignment padding
(22D)	CHARACTER	16	WBO_ADSFX	ApplData suffix
(23D)	UNSIGNED	1	WBO_OPEN_ AUTHENTICATION	Open authentication
(23E)	CHARACTER	10	*	Alignment padding
(248)	CHARACTER	0	*	End of WBO

Table 681.

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 682.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	TXN_WBO_ANCHOR	
(0)	HALFWORD	2	TXN_WBO_LEN	length of this block
(2)	CHARACTER	14	TXN_WBO_EYECATCHER	Eyecatcher >DFHWBTXNWBO
(10)	ADDRESS	4	*	unused
(14)	ADDRESS	4	*	unused
(18)	ADDRESS	4	TXN_WBO_FIRST	TXN/WBO chain: first
(1C)	ADDRESS	4	TXN_WBO_LAST	TXN/WBO chain: last

WBCLC - Web client parameter list

Table 683.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	160	DFHWBCLI_ARG	
(0)	UNSIGNED	1	WBCLI_VERSION_NO	Parameter list version

Table 683. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	UNSIGNED	1	WBCLI_FUNCTION	Function requested
(2)	UNSIGNED	1	WBCLI_METHOD	HTTP method requested
(3)	BIT(8)	1	WBCLI_FLAGS	Miscellaneous flags
(3)	1...		WBCLI_OFFSET_MODE	Pointers are commarea offsets
(3)	.1..		WBCLI_DOCUMENT	Request body is CICS document
(3)	..1.		WBCLI_USE_PROXY	Request is via a proxy
(3)	...1		WBCLI_SET_RESP_BUFFER	CICS will get response buffer
(3)	.... 11..		*	Reserved
(3)	.... ..1.		WBCLI_NATIVE_ REQUEST_BODY	Don't translate request
(3)	1		WBCLI_NATIVE_ RESPONSE_BODY	Don't translate response
(4)	HALFWORD	2	WBCLI_RESPONSE	Function response code
(6)	HALFWORD	2	WBCLI_REASON	Function reason code
(8)	CHARACTER	8	WBCLI_SESSION_TOKEN	Session token
(10)	ADDRESS	4	WBCLI_URL_PTR	Address of requested URL
(14)	FULLWORD	4	WBCLI_URL_LEN	Length of requested URL
(18)	ADDRESS	4	WBCLI_PROXY_URL_PTR	Address of proxy URL
(1C)	FULLWORD	4	WBCLI_PROXY_URL_LEN	Length of proxy URL
(20)	ADDRESS	4	WBCLI_HEADER_PTR	Address of request headers
(24)	FULLWORD	4	WBCLI_HEADER_LEN	Length of request headers
(28)	CHARACTER	16	WBCLI_REQUEST_ DOCTOKEN	Request body document token
(28)	CHARACTER	8	WBCLI_REQUEST_BODY	Request body buffer structure
(28)	ADDRESS	4	WBCLI_REQUEST_BODY_ PTR	Address of request body
(2C)	FULLWORD	4	WBCLI_REQUEST_BODY_ LEN	Length of request body
(38)	CHARACTER	8	WBCLI_RESPONSE_BODY	Response buffer structure
(38)	ADDRESS	4	WBCLI_RESPONSE_BODY_ PTR	Address of response buffer
(3C)	FULLWORD	4	WBCLI_RESPONSE_BODY_ LEN	Length of response buffer
(40)	CHARACTER	40	WBCLI_MEDIATYPE	IANA media type of body
(68)	CHARACTER	40	WBCLI_CHARSET	IANA charset of body
(90)	CHARACTER	10	WBCLI_HOST_CODEPAGE	EBCDIC codepage of CICS host
(9A)	CHARACTER	3	*	Reserved
(9D)	CHARACTER	3	WBCLI_HTTP_STATUS_ CODE	HTTP status code
(A0)	CHARACTER	0	*	

Constants

Table 684.

Len	Type	Value	Name	Description
1	DECIMAL	1	WBCLI_VERSION_CURRENT	
1	DECIMAL	0	WBCLI_FUNCTION_ CONVERSE	
1	DECIMAL	1	WBCLI_FUNCTION_SEND	
1	DECIMAL	2	WBCLI_FUNCTION_RECEIVE	
1	DECIMAL	3	WBCLI_FUNCTION_ INQUIRE_PROXY	
1	DECIMAL	4	WBCLI_FUNCTION_CLOSE	
1	DECIMAL	1	WBCLI_METHOD_GET	
1	DECIMAL	2	WBCLI_METHOD_POST	
1	DECIMAL	3	WBCLI_METHOD_HEAD	
1	DECIMAL	4	WBCLI_METHOD_PUT	
1	DECIMAL	5	WBCLI_METHOD_DELETE	
1	DECIMAL	6	WBCLI_METHOD_LINK	
1	DECIMAL	7	WBCLI_METHOD_UNLINK	
1	DECIMAL	8	WBCLI_METHOD_REQUEUE	
1	DECIMAL	9	WBCLI_METHOD_OPTIONS	
1	DECIMAL	10	WBCLI_METHOD_TRACE	
2	DECIMAL	0	WBCLI_RESPONSE_OK	
2	DECIMAL	4	WBCLI_RESPONSE_ EXCEPTION	
2	DECIMAL	8	WBCLI_RESPONSE_ DISASTER	
2	DECIMAL	1	WBCLI_REASON_INVALID_ URL	
2	DECIMAL	2	WBCLI_REASON_INVALID_ HEADER	
2	DECIMAL	3	WBCLI_REASON_INVALID_ DOCUMENT	
2	DECIMAL	4	WBCLI_REASON_GETMAIN_ ERROR	
2	DECIMAL	5	WBCLI_REASON_PROXY_ ERROR	
2	DECIMAL	6	WBCLI_REASON_SOCKET_ ERROR	
2	DECIMAL	7	WBCLI_REASON_HTTP_ ERROR	
2	DECIMAL	8	WBCLI_REASON_ TRANSLATE_ERROR	
2	DECIMAL	9	WBCLI_REASON_TRUNCATED	
2	DECIMAL	10	WBCLI_REASON_INVALID_ HEADER_LENGTH	
2	DECIMAL	11	WBCLI_REASON_INVALID_ BODY_LENGTH	

WBCDC - Web Interface Converter parms

```
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This copybook defines the parameter lists which
are passed to the 2 functions
(DECODE and ENCODE)
of the user replaceable converter program.

------------------------------------------------------------------------

The top level definition for dfhcommarea.

------------------------------------------------------------------------
```

Table 685.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHCOMMAREA	
(0)	CHARACTER	*	COMM_PARMLIST	

```
--

The fields at the start of the converter
commarea must be accessible
independent of the converter function being called.
These declarations provide a definition of the
commarea in terms of these common fields.

< Variable >
Meaning

< converter_parms >
The high-level definition of the parameter area
passed to the converter in the COMMAREA.

< converter_eyecatcher >
The eyecatcher used to determine that the converter COMMAREA
is not corrupt. The value it takes varies depending on the
converter function involved. The possible values are
defined in the DFHWBUCx copybook.

< converter_function >
The value used to determine which converter function is
involved on this call. Possible values are the constants
DECODE, ENCODE.

< converter_response >
The fullword response value produced by a converter
which has not been passed a valid converter_function
value. The recommended response in this circumstance
is URP_INVALID.

< converter_reason >
The fullword reason value returned by a converter which has
not been passed a valid converter_function value.
No reason values are architected for this error situation in
the CICS Web Browser Interface. Users may define their own values.
```

```
< converter_parmlist >
The rest of the parameters. The structure of this data
varies depending on which converter function is involved.

------------------------------------------------------------------------
```

Table 686.

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	

```
--

These declarations define the parameter list which
is passed to the DECODE function of the user replaceable
converter program. It is called by the server controller.

The variables in the decode parameter list are as follows:

< Variable >
Meaning

< decode_eyecatcher > (input)
A character field to contain an eyecatcher to help with
diagnostics and provide a sanity check for the Converter
program if required. The
Server Controller sets this to the value of constant
DECODE_EYECATCHER_INIT before calling decode.

< decode_version > (input)
@LIC
A single-character parameter-list version identifier.
It will change whenever the layout of the parameter list changes.
Possible values:
Binary zero (X'00') -- pre-CICS/TS1.3 version parameter list
Character zero (X'F0') -- CICS/TS1.3 version parameter list
Character one (X'F1') -- CICS/TS4.1 version parameter list

< decode_volatile > (input)
A single-character code that indicates whether the data area
pointed to by "decode_data_ptr" can be replaced or not:
'0' -- The area cannot be replaced: it is part of another
commarea.
'1' -- The storage pointed to by "decode_data_ptr" can be freed
and replaced by a different size workarea.

< decode_function > (input)
A halfword set to the constant value URP_DECODE .
Set to indicate to the converter the function required.

< decode_response > (output)
The response value produced by decode.
Possible values are:
```

- URP_OK
- URP_EXCEPTION
- URP_INVALID
- URP_DISASTER

< decode_reason > (output)
The reason for a response produced by decode.
The architected values for EXCEPTION responses are:

- URP_SECURITY_FAILURE

Other values may be supplied and given user-defined meanings.

< decode_client_address > (input)
The IP address of the client (ipv4 only).

< decode_client_address_string > (input)
The IP address of the client in "ww.xx.yy.zz" format. (ipv4 only)

< decode_data_ptr > (input / output)
A pointer to the HTTP request sent by the client.

< decode_method_ptr > (input)
Pointer to the method specified on the HTTP request sent by the
client.

< decode_http_version_ptr > (input)
Pointer to a string identifying the HTTP version supported by the
client.

< decode_http_resource_ptr > (input)
Pointer to the CICS resource requested by the client. In HTTP
protocol
terminology, this is the "absolute path" information in the HTTP
request. Because CICS does not have any concept of "paths" or
the hierarchical file systems on which paths rely, we have elected
to use a term more appropriate to CICS in our documentation.

< decode_request_header_ptr > (input)
Pointer to the first HTTP header in the HTTP request. There are
usually multiple HTTP headers for each HTTP request. Each header
is delimited by a CR+LF. The end of the header information is
delimited by a null header (that is, an additional CR+LF following
final HTTP header).

< decode_user_data_ptr > (input)
A pointer to any user data for this HTTP request.

< decode_method_length > (input)
Length of the method specified on the HTTP request sent by the
client.

< decode_http_version_length > (input)
Length of the string identifying the
version of HTTP supported by the client.

< decode_http_resource_length > (input)
Length of the string containing the
HTTP header information for this HTTP request.
This length includes the lengths of all the delimiting CR+LFs
for all the headers, including the final CR+LF of the null header
which signals the end of the headers.

< decode_request_header_length > (input)
Length of the string identifying the
CICS resource requested by supported by the client.

```
< decode_user_data_length > (input)
Length of the user data.

< decode_input_data_len > (output)
The server input data length associated
with the program processing the HTTP request. This is set to the
default 32767, but can be overwritten in decode,
possibly to reflect information contained in the client data.
This length is used as INPUTDATALENGTH on the EXEC CICS LINK to
the user program.

< decode_output_data_len > (output)
The server output data length associated
with the program processing the HTTP request. This is set to the
default 32767, but can be overwritten in decode,
possibly to reflect information contained in the client data. It
is the size of the output commarea.

< decode_server_program > (input / output)
The CICS program invoked to process the incoming HTTP
request. Initialised to the program name allocated by the ATTACH
exit for the requested URL. The program name can be changed by
the analyzer.

< decode_user_token > (input / output)
A token for use by users. Could for example identify
any state data associated with this HTTP request.

< decode_entry_count > (input)
This parameter shows how many times the decode and encode
converter functions have been executed in the current CWI
execution. It is useful when looping back from encode.

< decode_client_ipv6_address > (input)
@LIA
The IP address of the client. This field will contain either
an ipv4 (in mapped format) or ipv6 client address.

< decode_client_address_ipv6_string > (input)
@LIA
The IP address of the client in displayable format. If the client
is ipv4 then a dotted decimal format will be storage here. And if
the client is ipv6 then an IPV6 (colon formated) address will be
supplied.

--------------------------------------------------------------------
```

Table 687.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	160	DECODE_PARMS	
(0)	CHARACTER	8	DECODE_EYECATCHER	
(8)	CHARACTER	1	DECODE_VERSION	
(9)	CHARACTER	1	DECODE_VOLATILE	
(A)	HALFWORD	2	DECODE_FUNCTION	
(C)	UNSIGNED	4	DECODE_RESPONSE	
(10)	UNSIGNED	4	DECODE_REASON	
(14)	UNSIGNED	4	DECODE_CLIENT_ADDRESS	
(18)	CHARACTER	15	DECODE_CLIENT_ ADDRESS_STRING	

Table 687. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(68)	CHARACTER	12	DECODE_CLIENT_IPV6_ IP6PFX	for ipv4 compatb
(74)	CHARACTER	4	DECODE_CLIENT_IPV6_ IPADDR4	
(78)	CHARACTER	39	DECODE_CLIENT_IPV6_ ADDRESS_STRING	display addr
(9F)	CHARACTER	1	*	unused/reserved

```
--

These declarations define the parameter list which
is passed to the ENCODE function of the user replaceable
Converter program. It is called by the alias program
if data mapping of the remote procedure's output is required.
The parameter list is passed as a commarea from the alias.

< Variable >
Meaning

< encode_eyecatcher >
A character field to contain an eyecatcher
to help with diagnostics and provide a sanity check for
the Converter program if required. The alias
sets this to the value of constant ENCODE_EYECATCHER_INIT
before calling encode.

< encode_version > (input)
A single-character parameter-list version identifier.
```

```
It will change whenever the layout of the parameter list changes.
Possible values:
Binary zero (X'00') -- pre-CICS/TS1.3 version parameter list
Character zero (X'F0') -- CICS/TS1.3 version parameter list

< encode_volatile > (input)
A single-character code that indicates whether the data area
pointed to by "encode_data_ptr" can be replaced or not:
'0' -- The area cannot be replaced: it is part of another
commarea.
'1' -- The storage pointed to by "encode_data_ptr" can be freed
and replaced by a different size workarea.

< encode_function > (input)
A halfword set to the constant value URP_ENCODE .
This is set by the alias before linking to the converter
program. It allows the converter to determine which function
is being requested.

< encode_response > (output)
The fullword response value produced by decode.
Possible values are:

- URP_OK
- URP_EXCEPTION
- URP_INVALID
- URP_DISASTER

< encode_reason > (output)
The fullword reason value returned by encode for response
values other than OK. No reason values are architected for
encode in the CICS Web Browser Interface.
Users may define their own values.

< encode_data_ptr > (input)
A pointer reference to the storage area containing
the output from the server program which is to be manipulated
by the encode function

< encode_input_data_len > (input)
A fullword field indicating the length of the data to be
encoded by the converter.

< encode_user_token > (input)
A token for use by users. Could for example identify
any state data associated with this HTTP request.
< encode_entry_count > (input)
This parameter shows how many times the decode and encode
converter functions have been executed in the current CWI
execution. It is useful when looping back from encode.

------------------------------------------------------------------------
```

Table 688.

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	

Table 688. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10)	UNSIGNED	4	ENCODE_REASON	
(14)	ADDRESS	4	ENCODE_DATA_PTR	
(18)	FULLWORD	4	ENCODE_INPUT_DATA_LEN	
(1C)	CHARACTER	8	ENCODE_USER_TOKEN	
(24)	FULLWORD	4	ENCODE_ENTRY_COUNT	

WBEPC - Web Error Program parms

```
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These declarations define the commarea which is passed
to the user replaceable Web Error program by the CICS WEB
Interface
via a Program Manager Domain EXEC_LINK call.

Variable
Meaning

< wbep_length > (input)
Length of 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 689.

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	

Table 689. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C)	CHARACTER	196	WBEP_DATA	
(C)	HALFWORD	2	WBEP_ERROR_CODE	
(E)	BIT(8)	1	WBEP_FLAGS	indicator flags
(E)	1...		WBEP_SUPPRESS_ABEND	suppress if set
The filler bits in WBEP_FLAGS are permanently reserved due to complexity of bit manipulation in cobol.				
(E)	.111 1111		*	DO NOT USE
(F)	UNSIGNED	1	WBEP_ACTIVITY	
(10)	CHARACTER	4	WBEP_ABEND_CODE	
(14)	FULLWORD	4	WBEP_MESSAGE_NUMBER	
(18)	ADDRESS	4	WBEP_MESSAGE_PTR	
(1C)	FULLWORD	4	WBEP_MESSAGE_LEN	
(20)	ADDRESS	4	WBEP_RESPONSE_PTR	
(24)	FULLWORD	4	WBEP_RESPONSE_LEN	
(28)	UNSIGNED	1	WBEP_CLIENT_ADDRESS_ LEN	
(29)	CHARACTER	15	WBEP_CLIENT_ADDRESS	
(38)	UNSIGNED	1	WBEP_SERVER_ADDRESS_ LEN	
(39)	CHARACTER	15	WBEP_SERVER_ADDRESS	
(48)	CHARACTER	8	WBEP_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 690.

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
NAME OF MATCHING PLS CONTROL BLOCK = DFHWBGPS
DESCRIPTIVE NAME = CICS TS Web Domain (Urimap) Global Statistics
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       5655-Y04
       (C) Copyright IBM Corp. 2004, 2015
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 691.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHWBGDS	Web Urimap Global stats record

Table 691. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(30)	FULLWORD	4	WBG_URIMAP_SCHEME_ HTTPS	Urimap scheme(https) requests
(34)	FULLWORD	4		Reserved
(38)	FULLWORD	4	WBG_HOST_DISABLED_ COUNT	Host disabled count
(3C)	FULLWORD	4	WBG_URIMAP_ATOMSERV_ REQS	Urimap atomservice requests
(40)	FULLWORD	4	WBG_URIMAP_ JVMSERVER_REQS	Urimap JVMServer requests
(44)	FULLWORD	4	WBG_URIMAP_ ENTRYPOINT_REF	Urimap entrypoint ref count
(48)	FULLWORD	4	WBG_URIMAP_DIRECT_ ATTACH	Urimap direct user tran att
(4C)	BITSTRING	4		Reserved
(50)	BITSTRING	16		Reserved
(50)	.11.		WBGDS_END	"*"
(50)	.11.		WBGDS_LENGTH	"*-WBGDS_LEN" Web Urimap Global record length
Constants that denote a WB urimap global stats record				
(50)	.11. .1.1		WBGIDE	"101" Web Urimap global stats id
(50)	1		WBG_VERS	"X'01'" Record version number

WBRDS - Web Domain (URIMAP) Statistics

```
CONTROL BLOCK NAME = DFHWBRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHWBRPS
DESCRIPTIVE NAME = CICS TS Web Domain (Urimap) Statistics
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       (C) Copyright IBM Corp. 2004, 2013
FUNCTION =
       This data area contains the web urimap statistics
       provided by the Web Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the
       statistics global user exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the Web Domain to store
       statistics to be passed to the user in response to a
       for urimap statistics. The storage is released when the
       user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHWBRDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 692.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHWBRDS	Web Urimap Resid stats record
(0)	HALFWORD	2	WBRDS_LEN	Web Urimap stats record length
(2)	ADDRESS	2	WBRDS_ID	Web Urimap stats id
(4)	CHARACTER	1	WBRDS_VERS	Web Urimap stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	WBR_URIMAP_NAME	Urimap name
(10)	BITSTRING	1	WBR_URIMAP_USAGE	Urimap usage
(11)	BITSTRING	1	WBR_URIMAP_SCHEME	Urimap scheme
(12)	BITSTRING	1	WBR_URIMAP_ANALYZER_ USE	Urimap analyzer program use
(13)	BITSTRING	1	WBR_URIMAP_REDIRECT_ TYPE	Urimap redirection type
(14)	BITSTRING	1	WBR_URIMAP_ AUTHENTICATE	Urimap authenticate
(15)	BITSTRING	2		Reserved
(17)	BITSTRING	1	WBR_URIMAP_ENTRYPOINT	Urimap app entry point
(18)	BITSTRING	116	WBR_URIMAP_HOSTNAME	Urimap hostname

Table 692. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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
(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	Install userid

Table 692. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(49C)		0	WBRDS_END	"*"
(49C)		0	WBRDS_LENGTH	"*-WBRDS_LEN" Web Urimap record length
Constants that denote a WB urimap stats record				
(49C)	.11. 1...		WBRIDR	"104" Web Urimap resid stats id
(49C)	1		WBR_VERS	"X'01'" Record version number
(49C)	1		WBR_USAGE_SERVER	"X'01'" Urimap usage - Server
(49C)	.... ..1.		WBR_USAGE_CLIENT	"X'02'" Urimap usage - Client
(49C)	11		WBR_USAGE_PIPELINE	"X'03'" Urimap usage - Pipeline
(49C)	.... .1..		WBR_USAGE_ATOM	"X'04'" Urimap usage - Atom
(49C)	.... .1.1		WBR_USAGE_JVMSERVER	"X'05'" Urimap usage - JVMServer
(49C)	1		WBR_SCHEME_HTTP	"X'01'" Urimap scheme - HTTP
(49C)	.... ..1.		WBR_SCHEME_HTTPS	"X'02'" Urimap scheme - HTTPS
(49C)	1		WBR_ANALYZER_NO	"X'01'" Urimap Analyzer use - No
(49C)	.... ..1.		WBR_ANALYZER_YES	"X'02'" Urimap Analyzer use - Yes
(49C)	1		WBR_REDIRECTION_NONE	"X'01'" Urimap Redirection type - None
(49C)	.... ..1.		WBR_REDIRECTION_TEMP	"X'02'" Urimap Redirection type - Temporary
(49C)	11		WBR_REDIRECTION_PERM	"X'03'" Urimap Redirection type - Permanent
(49C)	....		WBR_AUTHENTICATE_NONE	"X'00'" Urimap Authenticate - None
(49C)	1		WBR_AUTHENTICATE_ BASIC	"X'01'" Urimap Authenticate - Basic
(49C)	1		WBR_ENTRYPOINT_NO	"X'01'" Urimap App entry point - No
(49C)	.... ..1.		WBR_ENTRYPOINT_YES	"X'02'" Urimap App entry point - Yes
(49C)	....		WBR_IP_FAMILY_UNKNOWN	"X'00'" Urimap IP family = Unknown
(49C)	1		WBR_IP_FAMILY_IPV4	"X'01'" Urimap IP family = IPv4
(49C)	.... ..1.		WBR_IP_FAMILY_IPV6	"X'02'" Urimap IP family = IPv6 Change Agents
(49C)	1		WBR_CSDAPI_CHANGE	"0001" CSD API

Table 692. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(49C)	.... ..1.		WBR_CSDBATCH_CHANGE	"0002" DFHCSDUP
(49C)	11		WBR_DREPAPI_CHANGE	"0003" DREP API
(49C)	.... .1..		WBR_CREATE_CHANGE	"0004" EXEC CREATE SPI
(49C)	.... 1...		WBR_DYNAMIC_CHANGE	"0008" DYNAMIC Install Agents
(49C)	1		WBR_CSDAPI_INSTALL	"0001" CSD API
(49C)	.... .1..		WBR_CREATE_INSTALL	"0004" EXEC CREATE SPI
(49C)	.... .1.1		WBR_GRPLIST_INSTALL	"0005" GRPLIST
(49C)	.... 1...		WBR_DYNAMIC_INSTALL	"0008" DYNAMIC
(49C)	.... 1..1		WBR_BUNDLE_INSTALL	"0009" BUNDLE

WBTDC - Web Interface Analyzer Parms

```
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These declarations define the parameter list which
is passed to the ANALYZER program by the server controller
component on an EXEC CICS LINK.

< Variable >
Meaning

< wbra_eyecatcher >
A character field to contain an eyecatcher
to help with diagnostics and provide a sanity check for
the analyzer. Server Controller sets this to the value of constant
WBRA_EYECATCHER_INIT before calling the analyzer.

< wbra_response > (output)
The fullword response value produced by the analyzer.
Possible values are:

- URP_OK
- URP_EXCEPTION
- URP_INVALID
- URP_DISASTER

< wbra_reason > (output)
The fullword reason value returned by the analyzer for response
values other than OK. No reason values are architected for
the analyzer in the CICS Web Browser Interface.
Users may define their own values.

< wbra_server_program > (input output)
@PQC
The CICS program to be used for this HTTP request.

< wbra_converter_program > (input output)
@PQC
The converter to be used for this HTTP request.
```

```
< wbra_userid > (input output)
@PQC
The userid which is to be used on the EXEC CICS START for the
alias transaction for this HTTP request.

< wbra_alias_tranid > (input output)
@PQC
The alias transaction ID to be used for this HTTP request.

< wbra_alias_termid > (output)
The termid to be used on the START request for the alias.

< wbra_user_token > (output)
A char(8) token which uniquely identifies the HTTP request being
processed.

< wbra_dfhcnv_key > (output)
A char(8) name to be used as the key into the DFHCNV table for the
codepage translation of the user data for this request.

< wbra_version > (input)
@LIA
A single-character parameter-list version identifier.
It will change whenever the layout of the parameter list changes.
Possible values:
Binary zero (X'00') -- pre-CICS/TS4.1 version parameter list
Character one (X'F1') -- CICS/TS4.1 version parameter list

< wbra_client_ip_address > (input)
The TCP/IP address of the client.

< wbra_server_ip_address > (input)
The TCP/IP address of the CICS system.

< wbra_resource_escaped_ptr > (input)
@P7C
Pointer to a copy of the HTTP headers which have not been
unescaped

< wbra_method_ptr > (input)
Pointer to the method specified on the HTTP request sent by the
client.

< wbra_http_version_ptr > (input)
Pointer to a string identifying the HTTP version supported by the
client.

< wbra_http_resource_ptr > (input)
Pointer to the CICS resource requested by the client. In HTTP
protocol
terminology, this is the "absolute path" information in the HTTP
request. Because CICS does not have any concept of "paths" or
the hierarchical file systems on which paths rely, we have elected
to use a term more appropriate to CICS in our documentation.

< wbra_request_header_ptr > (input)
Pointer to the first HTTP header in the HTTP request. There are
usually multiple HTTP headers for each HTTP request. Each header
is delimited by a CR+LF. The end of the header information is
delimited by a null header (that is, an additional CR+LF following
final HTTP header).

< wbra_user_data_ptr > (input)
Pointer to the user data section of the input data. For a non-HTTP
request this will point to the start of the received data.

< wbra_method_length > (input)
```

```
Length of the method specified on the HTTP request sent by the
client.

< wbra_http_version_length > (input)
Length of the string identifying the
version of HTTP supported by the client.

< wbra_http_resource_length > (input)
Length of the string containing the
HTTP header information for this HTTP request.

< wbra_request_header_length > (input)
Length of the string identifying the
CICS resource requested by supported by the client.
This length includes the lengths of all the delimiting CR+LFs
for all the headers, including the final CR+LF of the null header
which signals the end of the headers.

< wbra_user_data_length > (input output)
@01C
Length of the user data section of the input data. For a non-HTTP
request this will be the length of the entire received block.

< wbra_old_request_type > (input)
@07C
A value indicating whether the request to be analyzed is HTTP
@07C
or non-HTTP(note that this parameter has been relocated to
@07C
the end of the parameter list. This is because it was
@07A
defined as bin(8) which when converted for the PL/1
@07A
version of the commarea caused misalignment.
@07A

< wbra_unescape > (output)
@L9A
A value indicating whether the user forms data is to be unescaped
by CICS.
@01A
< wbra_content_length > (input)
@01A
Length of the user data section of the input data as
@01A
specified in the <Content-Lenth> HTTP header.
@01A

< wbra_urimap > (input)
@LBA
The URIMAP associated with the request.

< wbra_commarea > (output)
@LCA
A flag indicating that the server application is commarea style
@LCA
and we should therefore process as for HTTP/1.0
@LCA
Not setting this bit causes the default setting to apply - the
@LCA
application will be assumed to be WEB API style.
@LCA

< wbra_characterset > (output)
@POC
The IANA character set to be used during data convertion.
```

```
< wbra_hostcodepage > (output)
@POC
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.
@07A
< wbra_request_type > (input)
@07A
A value indicating whether the request to be analyzed is
@07A
HTTP or non-HTTP.
@07A

< wbra_client_ipv6_address > (input)
@LIA
The TCP/IP address of the client. If the client is ipv4 then a
mapped formated of the ipv4 address will be available here.

< wbra_server_ipv6_address > (input)
@LIA
The TCP/IP address of the CICS system. If the server is ipv4 then
a
mapped formatted of the ipv4 address wiil be available here.

------------------------------------------------------------------------

The top level definition for dfhcommarea.

------------------------------------------------------------------------
```

Table 693.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHCOMMAREA	
(0)	CHARACTER	*	COMM_PARMLIST	

```
--
```

Table 694.

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

Table 694. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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	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
(7C)	1...		WBRA_COMMAREA	Output
(7C)	.111 1111		*	Reserved
(7D)	CHARACTER	40	WBRA_CHARACTERSET	Output
(A5)	CHARACTER	10	WBRA_HOSTCODEPAGE	Input
(AF)	CHARACTER	1	WBRA_VERSION	Input
(B0)	ADDRESS	4	WBRA_HOSTNAME_PTR	Input
(B4)	ADDRESS	4	WBRA_QUERYSTRING_PTR	Input
(B8)	HALFWORD	2	WBRA_HOSTNAME_LENGTH	Input
(BA)	HALFWORD	2	WBRA_QUERYSTRING_ LENGTH	Input
(BC)	HALFWORD	2	WBRA_REQUEST_TYPE	Input
(BE)	CHARACTER	2	*	Unused(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

Table 694. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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

Table 695.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	DFHWBTL_ARG	
(0)	UNSIGNED	2	WBTL_VERSION_NO	
(2)	HALFWORD	2	WBTL_FUNCTION	
(4)	HALFWORD	2	WBTL_RESPONSE	
(6)	HALFWORD	2	WBTL_REASON	
(8)	CHARACTER	8	WBTL_CONNECT_TOKEN	
(10)	CHARACTER	8	WBTL_TEMPLATE_NAME	
(18)	CHARACTER	8	WBTL_TEMPLATE_ABSTIME	
(20)	ADDRESS	4	WBTL_TEMPLATE_ BUFFER_PTR	
(24)	FULLWORD	4	WBTL_TEMPLATE_ BUFFER_LEN	
(28)	ADDRESS	4	WBTL_SYMBOL_LIST_PTR	
(2C)	FULLWORD	4	WBTL_SYMBOL_LIST_LEN	
(30)	ADDRESS	4	WBTL_HTML_BUFFER_PTR	
(34)	FULLWORD	4	WBTL_HTML_BUFFER_LEN	
(38)	CHARACTER	0	*	

Constants

Table 696.

Len	Type	Value	Name	Description
Licensed Materials - Property of IBM 5655-Y04 (C) Copyright IBM Corp. 1996, 2015 All Rights Reserved. This is the parameter list for the CICS Web Interface Template Manager, DFHWBTL. ---------- 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	
The following is the value that should be specified in WBTL_VERSION_NO to show the level at which the calling module was compiled. ----------				

Table 696. (continued)

Len	Type	Value	Name	Description
2	DECIMAL	0	WBTL_CURRENT_VERSION	
2	DECIMAL	56	WBTL_PARAMETER_LEN	
The following are the possible responses from the DFHWBTL program. ----------				
2	DECIMAL	0	WBTL_OK	
2	DECIMAL	4	WBTL_EXCEPTION	
2	DECIMAL	8	WBTL_INVALID	
2	DECIMAL	12	WBTL_DISASTER	
The following are the possible responses from the DFHWBTL program, if the returned reason is not OK. ----------				
2	DECIMAL	1	WBTL_INVALID_FUNCTION	
2	DECIMAL	2	WBTL_INVALID_TOKEN	
2	DECIMAL	3	WBTL_INVALID_SYMBOL_ LIST	
2	DECIMAL	4	WBTL_INVALID_BUFFER_ PTR	
2	DECIMAL	5	WBTL_FEATURE_INACTIVE	
2	DECIMAL	6	WBTL_TEMPLATE_NOT_ FOUND	
2	DECIMAL	7	WBTL_TEMPLATE_ TRUNCATED	
2	DECIMAL	8	WBTL_PAGE_TRUNCATED	
2	DECIMAL	9	WBTL_GETMAIN_ERROR	
2	DECIMAL	10	WBTL_FREEMAIN_ERROR	
2	DECIMAL	11	WBTL_INVALID_VERSION	

W2AP - Web2.0 DFHATOMPARMS container

```
CONTROL BLOCK NAME = DFHW2APC
DESCRIPTIVE NAME = CICS TS (W2) DFHATOMPARMS container
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 2008
FUNCTION = Mapping of DFHATOMPARMS container passed to
           resource-dependent Atom service routines.
NOTES :
 DEPENDENCIES = z/Arch
 RESTRICTIONS =
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
 DFHATOMPARMS container
 This copybook contains a mapping of fields in the DFHATOMPARMS
 container, which is intended to be used at the parameter list
 for the resource-dependent service routine called by the
 Atomservice feed manager.
 ATMP_OPTIONS
   Address of a double word containing 64 option bits.
   The first word is used to send options to the service routine,
   and the second word is used to receive options from the
```

service routine.

ATMP_RESPONSE
Address of a double word in which the response and reason code can be returned. These are both initialized to zero, indicating successful completion.

ATMP_RESNAME
Address of a double word containing a pointer to the CICS resource name, followed by its length.

ATMP_RESTYPE
Address of a double word containing a pointer to the CICS resource type name in uppercase, followed by its length. The type can be PROGRAM, FILE, or TSQUEUE.

ATMP_ATOMTYPE
Address of a double word containing a pointer to the type of Atom document being processed, in lowercase, followed by its length. The value of the type string is either "entry" or "feed".

ATMP_ATOMID
Address of a triple word containing the address of a buffer containing Atom request identifier from the atom:id element, followed by its length, followed by the total length of the containing buffer. When handling a POST request, you can use this buffer to return a new atom id to represent the newly constructed resource.

ATMP_HTTPMETH
Address of a double word containing a pointer to the HTTP method padded with spaces, followed by its length. It is one of GET, POST, PUT or DELETE.

ATMP_TAG_AUTHORITY
Address of a double word containing a pointer to a URI authority name, followed by its length. The authority name is a host name or email address that can be 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 697.

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

Table 697. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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 698.

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 699.

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 700.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	ATMP_OPTIONS_BITS	Bits addressed by ATMP_OPTIONS
(0)	BIT(32)	4	ATMP_OPTIONS_INBIT	
(0)	BIT(8)	1	ATMP_INOPT_BYTE0	

Table 700. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	1111 1...		*	High five bits not usable in COBOL
(0)	.... .1..		OPTFIRST	First entry within a feed
(1)	BIT(8)	1	ATMP_INOPT_BYTE1	
(1)	1...		OPTSELHEX	Selector encoded in hexadecimal
(1)	.1..		OPTSELDEC	Selector encoded in decimal
(2)	BIT(8)	1	ATMP_INOPT_BYTE2	
(3)	BIT(8)	1	ATMP_INOPT_BYTE3	
(4)	BIT(32)	4	ATMP_OPTIONS_OUTBIT	
(4)	BIT(8)	1	ATMP_OUTOPT_BYTE0	
(4)	1111 1...		*	High five bits not usable in COBOL
(4)	.... .1..		OPTPRVFEED	Prev link is for feed, not entry
(5)	BIT(8)	1	ATMP_OUTOPT_BYTE1	
(5)	1...		OPTTITLE	DFHATOMTITLE container returned
(5)	.1..		OPTSUBTI	DFHATOMSUBTITLE container retn'd
(5)	..1.		OPTSUMMA	DFHATOMSUMMARY container returned
(5)	...1		OPTCATEG	DFHATOMCATEGORY container retn'd
(5)	.... 1...		OPTAUTHOR	DFHATOMAUTHOR container returned
(5)	.... .1..		OPTAUTHEML	DFHATOMEMAIL container returned
(5)	.... ..1.		OPTAUTHURI	DFHATOMAUTHORURI container retn'd
(5)	1		*	Reserved
(6)	BIT(8)	1	ATMP_OUTOPT_BYTE2	
(7)	BIT(8)	1	ATMP_OUTOPT_BYTE3	

Table 701.

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

W2AP - Web2.0 DFHATOMPARMS constant definitions

Constants

Table 702.

Len	Type	Value	Name	Description
CONTROL BLOCK NAME = DFHW2CNC NAME OF MATCHING ASSEMBLER CONTROL BLOCK = DFHW2CND DESCRIPTIVE NAME = CICS TS (W2) DFHATOMPARMS contants Licensed Materials - Property of IBM Restricted Materials of IBM 5655-Y04 (C) Copyright IBM Corp. 2008, 2009 STATUS = 7.1.0 FUNCTION = LIFETIME = STORAGE CLASS = LOCATION = INNER CONTROL BLOCKS = NOTES : DEPENDENCIES = z/Arch RESTRICTIONS = MODULE TYPE = Constant definitions PROCESSOR = PL/X --- ATMP-OPTIONS-IN in COBOL, which cannot handle bit settings.				
4	DECIMAL	67108864	OPTFIRST_NUM	OPTFIRST value
4	DECIMAL	8388608	OPTSELHEX_NUM	OPTSELHEX value
4	DECIMAL	4194304	OPTSELDEC_NUM	OPTSELDEC value
The following values can be used to set ATMP-OPTIONS-OUT in COBOL, which cannot handle bit settings.				
4	DECIMAL	67108864	OPTPRVFEED_NUM	OPTPRVFEED value
4	DECIMAL	8388608	OPTTITLE_NUM	OPTTITLE value
4	DECIMAL	4194304	OPTSUBTI_NUM	OPTSUBTI value
4	DECIMAL	2097152	OPTSUMMA_NUM	OPTSUMMA value
4	DECIMAL	1048576	OPTCATEG_NUM	OPTCATEG value
4	DECIMAL	524288	OPTAUTHOR_NUM	OPTAUTHOR value
4	DECIMAL	262144	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.				
4	DECIMAL	0	ATMP_RESP_NORMAL	Normal success response
4	DECIMAL	4	ATMP_RESP_NOT_FOUND	Resource not found
4	DECIMAL	8	ATMP_RESP_NOT_AUTH	Resource not authorized
4	DECIMAL	12	ATMP_RESP_DISABLED	Resource is disabled
4	DECIMAL	16	ATMP_RESP_ALREADY_ EXISTS	
				Resource already exists
4	DECIMAL	20	ATMP_RESP_ETAG_NO_ MATCH	
				If-Match compare failed
4	DECIMAL	24	ATMP_RESP_INVALID_ REQUEST	
				Request not valid

Table 702. (continued)

Len	Type	Value	Name	Description
4	DECIMAL	32	ATMP_RESP_ACCESS_ERROR	
				Other resource error
4	DECIMAL	36	ATMP_RESP_CONVERSION_ FAILED	
				XML Conversion error
4	DECIMAL	40	ATMP_RESP_UNUSABLE	Resource is unusable
The following values specify the reason codes that can be set in DFHATMP_REASON.				
4	DECIMAL	1	ATMP_REAS_MALFORMED_ REQUEST	
				Malformed request XML
4	DECIMAL	2	ATMP_REAS_OMITTED_ ENTRY	
				No atom:entry element
4	DECIMAL	3	ATMP_REAS_OMITTED_ CONTENT	
				No atom:content element
4	DECIMAL	4	ATMP_REAS_UNSUPPORTED_ TYPE	
				Unknown content type
4	DECIMAL	5	ATMP_REAS_OMITTED_ CICS_DATA	
				No cics root element
4	DECIMAL	6	ATMP_REAS_TRANSFORM_ ERROR	
				XMLTRANSFORM error

W2PC - Web2.0 ATOMPARAMETERS container

```
DESCRIPTIVE NAME = Web 2.0 Sample - ATOMPARAMETERS container
   Licensed Materials - Property of IBM
   CICS SupportPac CA8K
   (c) Copyright IBM Corporation 2008 All Rights Reserved
   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
 container from DFH$W2FD to the resource service routine.
 Each parameter passed in this container is a pointer to an
 eight byte area. The first parameter is a pointer to a
 64-bit options string, whose definition is mapped by the
 ATMP_OPTIONS_BITS dsect. The second parameter is a pointer to
 two fullwords in which the response and reason code can be
 returned. The remaining parameters are pointers to
 pointer+length structures, in which the first word contains a
 pointer to the parameter's value and the second word contains
 its length.
 The parameters in the 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 703.

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
(3C)	ADDRESS	4	ATMP_PREVSEL	Address of prev feed selector ptr/len
(40)	ADDRESS	4	ATMP_FIRSTSEL	Address of first feed selector ptr/len
(44)	ADDRESS	4	ATMP_LASTSEL	Address of last feed selector ptr/len

Table 703. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(48)	ADDRESS	4	ATMP_ID_FLD	Address of atom id fieldname ptr/len
(4C)	ADDRESS	4	ATMP_UPDATED_FLD	Address of updated fieldname ptr/len
(50)	ADDRESS	4	ATMP_KEY_FLD	Address of key fieldname ptr/length
(54)	ADDRESS	4	ATMP_TITLE_FLD	Address of title fieldname ptr/length
(58)	ADDRESS	4	ATMP_SUBTITLE_FLD	Address of subtitle fieldname ptr/len
(5C)	ADDRESS	4	ATMP_SUMMARY_FLD	Address of summary fieldname ptr/len
(60)	ADDRESS	4	ATMP_PARAMETER_25	Address of URM parameter 25 (unused)

Table 704.

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 705.

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 706.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	ATMP_OPTIONS_BITS	Bits addressed by ATMP_OPTIONS
(0)	BIT(32)	4	ATMP_OPTIONS_INBIT	
(4)	BIT(32)	4	ATMP_OPTIONS_OUTBIT	
(4)	BIT(8)	1	ATMP_OUTOPT_BYTE0	High byte not usable in COBOL
(5)	BIT(8)	1	ATMP_OUTOPT_BYTE1	
(5)	1...		OPTTITLE	ATOMTITLE container returned
(5)	.1..		OPTSUBTI	ATOMSUBTITLE container returned
(5)	..1.		OPTSUMMA	ATOMSUMMARY container returned

Table 706. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5)	...1 1111		*	
(6)	BIT(8)	1	ATMP_OUTOPT_BYTE2	
(7)	BIT(8)	1	ATMP_OUTOPT_BYTE3	

Table 707.

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

W2LC - Web2.0 Resource Layout Mapping

```
DESCRIPTIVE NAME = Web 2.0 Samples - Common macros
   Licensed Materials - Property of IBM
   CICS SupportPac CA8K
   (c) Copyright IBM Corporation 2008 All Rights Reserved
   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
  program (DFH$W2FD).
  The RLM is used to specify the conversions from character-
  based items, such as those in an XML file, into the equivalent
  binary representations in a CICS resource, such as a TSqueue
  or file, and the reverse transformation from binary to
  character.
```

Table 708.

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 709.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	DFHRLM_ENTRY	

Table 709. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	UNSIGNED	1	RLM_ENTRY_TYPE	

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

Table 710.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	64	DFHRLM_DATA_ENTRY	
(0)	UNSIGNED	1	RLM1_ENTRY_TYPE	Data entry, type=X'01'
(1)	UNSIGNED	1	RLM1_CONVERT_TYPE	Conversion type
(2)	HALFWORD	2	RLM1_DATA_COUNT	Length, or decimal digit count
(4)	UNSIGNED	1	RLM1_DATA_FRACT	Decimal fraction digit count
(5)	UNSIGNED	1	*	Reserved
(6)	HALFWORD	2	RLM1_NAMESPACE_LEN	Namespace URI length
(8)	HALFWORD	2	RLM1_LOCAL_NAME_LEN	Local name length
(A)	HALFWORD	2	*	Reserved
(C)	HALFWORD	2	RLM1_DEFAULT_LEN	Length of default value
(E)	BIT(8)	1	RLM1_DATA_FLAGS	Flag byte
(E)	1...		*	Reserved
(E)	.1..		RLM1_SIGN_LEADING	Leading sign
(E)	..1.		RLM1_SIGN_SEPARATE	Separate sign
(F)	CHARACTER	13	*	Reserved
(1C)	ADDRESS	4	RLM1_NAMESPACE_PTR	Address of namespace URI
(20)	FULLWORD	4	*	Reserved
(24)	ADDRESS	4	RLM1_LOCAL_NAME_PTR	Address of local name
(28)	CHARACTER	12	*	Reserved
(34)	ADDRESS	4	RLM1_DEFAULT_VALUE_ PTR	Address of default value
(38)	CHARACTER	8	*	Reserved

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

Table 711.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	DFHRLM_FIXED_REPEAT_ ENTRY	
(0)	UNSIGNED	1	RLM2_ENTRY_TYPE	Fixed repeat entry, type=X'02
(1)	BIT(8)	1	RLM2_CONTENT_DESC	Content description
(1)	1...		*	Reserved
(1)	.1..		RLM2_INLINE_VAR	Separate count field
(1)	..1.		RLM2_CONTENT_MIXED	Can contain mixed content

Table 711. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	...1		RLM2_CONTENT_STRUCT	Content is a structure
(2)	HALFWORD	2	RLM2_CONTENT_COUNT	Array dimension
(4)	CHARACTER	3	*	Reserved
(7)	UNSIGNED	1	RLM2_STRUCT_NAME_LEN	Length of structure name
(8)	FULLWORD	4	RLM2_VAR_COUNT_OFFSET	Offset of optional
(C)	ADDRESS	4	RLM2_CONTENT_LEN	Size of one element
(10)	CHARACTER	20	*	Reserved
(24)	ADDRESS	4	RLM2_STRUCT_NAME	
(28)	CHARACTER	16	*	Reserved

Table 712.

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 713.

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

W2RDS - Web2.0 Domain (ATOMSERVICE) Statistics

```
CONTROL BLOCK NAME = DFHW2RDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHW2RPS
DESCRIPTIVE NAME = CICS TS Web 2.0 Domain (Atomservice) Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 2008, 2009
FUNCTION =
       This data area contains the web 2.0 atomservice statistics
       provided by the Web 2.0 Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the API or the
       statistics global user exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the Web 2.0 Domain to store
       statistics to be passed to the user in response to a
       for atomservice statistics. The storage is released when
       the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
```

```
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = None
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = None
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHW2RDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 714.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHW2RDS	Web 2.0 Domain Resid stats record
(0)	HALFWORD	2	W2RDS_LEN	Web 2.0 Domain stats record len
(2)	ADDRESS	2	W2RDS_ID	Web 2.0 Domain stats id
(4)	CHARACTER	1	W2RDS_VERS	Web 2.0 Domain stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	W2R_ATOMSERV_NAME	Atomservice name
(10)	BITSTRING	1	W2R_ATOMSERV_TYPE	Atomservice type
(11)	BITSTRING	3		Reserved
(14)	BITSTRING	255	W2R_ATOMSERV_ BINDING_FILE	Atomservice binding file
(113)	BITSTRING	1		Reserved
(114)	BITSTRING	255	W2R_ATOMSERV_CONFIG_ FILE	Atomservice configuration file
(213)	BITSTRING	1		Reserved
(214)	BITSTRING	1	W2R_ATOMSERV_RESTYPE	Atomservice resource type
(215)	BITSTRING	3		Reserved
(218)	CHARACTER	16	W2R_ATOMSERV_RESNAME	Atomservice resource name
(228)	CHARACTER	8		Reserved
(230)	FULLWORD	4	W2R_ATOMSERV_REF_ COUNT	Reference count
(234)	FULLWORD	4	W2R_ATOMSERV_REF_ DISABLED	Reference disabled
(238)	FULLWORD	4		Reserved
(23C)	FULLWORD	4	W2R_ATOMSERV_POST_ FEED_CNT	POST issued for feed
(240)	FULLWORD	4	W2R_ATOMSERV_GET_ FEED_CNT	GET issued for feed
(244)	FULLWORD	4	W2R_ATOMSERV_GET_ ENTRY_CNT	GET issued for entry
(248)	FULLWORD	4	W2R_ATOMSERV_PUT_ ENTRY_CNT	PUT issued for entry
(24C)	FULLWORD	4	W2R_ATOMSERV_DEL_ ENTRY_CNT	DELETE issued for entry
(250)	CHARACTER	16		Reserved
(260)	CHARACTER	8	W2R_ATOMSERV_DEFINE_ SOURCE	Group installed from

Table 714. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(268)	BITSTRING	8	W2R_ATOMSERV_CHANGE_ TIME	Change/create time
(270)	CHARACTER	8	W2R_ATOMSERV_CHANGE_ USERID	Change userid
(278)	BITSTRING	2	W2R_ATOMSERV_CHANGE_ AGENT	Change agent
(27A)	BITSTRING	2	W2R_ATOMSERV_ INSTALL_AGENT	Install agent
(27C)	BITSTRING	8	W2R_ATOMSERV_ INSTALL_TIME	Install/Create time
(284)	CHARACTER	8	W2R_ATOMSERV_ INSTALL_USERID	Install userid
(28C)	CHARACTER	8	W2R_ATOMSERV_URIMAP	URIMAP
(294)	CHARACTER	32	W2R_ATOMSERV_ XMLTRANSFORM	XMLTRANSFORM
(294)		0	W2RDS_END	"*"
(294)		0	W2RDS_LENGTH	"*-W2RDS_LEN" W2 Atomservice record length
Constants that denote a W2 atomservice stats record				
(294)	.11. 111.		W2RIDR	"110" W2 Atomservice resid stats id
(294)	1		W2R_VERS	"X'01'" Record version number
(294)	1		W2R_ATOMTYPE_CATEGORY	"X'01'" Atomservice type - Category
(294)	.... ..1.		W2R_ATOMTYPE_ COLLECTION	"X'02'" Atomservice type - Collection
(294)	11		W2R_ATOMTYPE_FEED	"X'03'" Atomservice type - Feed
(294)	.... .1..		W2R_ATOMTYPE_SERVICE	"X'04'" Atomservice type - Service
(294)	1		W2R_RESTYPE_FILE	"X'01'" Atomservice restype - File
(294)	.... ..1.		W2R_RESTYPE_PROGRAM	"X'02'" Atomservice restype - Program
(294)	11		W2R_RESTYPE_TSQUEUE	"X'03'" Atomservice restype - Tsqueue
(294)	.... .1..		W2R_RESTYPE_NOTAPPLIC	"X'04'" Atomservice restype - N/A Change Agents
(294)	1		W2R_CSDAPI_CHANGE	"0001" CSD API
(294)	.... ..1.		W2R_CSDBATCH_CHANGE	"0002" DFHCSDUP
(294)	11		W2R_DREPAPI_CHANGE	"0003" DREP API
(294)	.... .1..		W2R_CREATE_CHANGE	"0004" EXEC CREATE SPI Install Agents
(294)	1		W2R_CSDAPI_INSTALL	"0001" CSD API
(294)	.... .1..		W2R_CREATE_INSTALL	"0004" EXEC CREATE SPI
(294)	.... .1.1		W2R_GRPLIST_INSTALL	"0005" GRPLIST

Table 714. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(294)	.... 1..1		W2R_BUNDLE_INSTALL	"0009" BUNDLE

WCG - XRF Global control block

```
CONTROL BLOCK NAME = DFHWCGPS
DESCRIPTIVE NAME = CICS TS (XRF) Global Control Block
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985, 1987
FUNCTION =
     XRF surveillance/state 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 715.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	144	DFHWCGPS	CAVM Global Control Block
(0)	CHARACTER	8	WCGIDENT	Eye Catcher XRF-GLBL
(8)	ADDRESS	4	WCGSTATA	CAVM Static Area address
(C)	ADDRESS	4	WCGCKDA	Pointer to TOD Clock Difference Data (BACKUP systems only)
(10)	ADDRESS	4	WCGNTA	Entry table for routines above 16M line.
(14)	ADDRESS	4	WCGXRFNT	Entry table for routines below 16M line (copy of CSZXRFNT in CSAOPFL).
(18)	ADDRESS	4	WCGDA	Process Management data
(1C)	ADDRESS	4	WCGFA	Status and State file data

Table 715. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	ADDRESS	4	WCGMA	Message data
(24)	ADDRESS	4	WCGTRA	Trace control area
(28)	ADDRESS	4	WCGLFA	LIFO work area
(2C)	ADDRESS	4	WCGSA	Status control area
(30)	ADDRESS	4	WCGSXA	Surveillance exits control area
(34)	CHARACTER	8	WCGSAPPL	System's Specific APPLID
(3C)	CHARACTER	84	WCGCS	Common services area
(3C)	CHARACTER	72	WCGCSSVA	Common services save area
(84)	CHARACTER	12	WCGCSPRM	Common services parameter area.
(90)	CHARACTER	0	WCGEND	

```
                    Entry Table.
This is the definition of the list of entry points to XRF
modules located above the 16M line.
```

Table 716.

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 717.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	DFHWCIPS	XRF Common Services parameter block
(0)	FULLWORD	4	WCIPID	Request Identifier
(4)	ADDRESS	4	WCIPSA	Storage area address
(4)	ADDRESS	4	WCIPECBA	Address of ECB
(4)	ADDRESS	4	WCIPMSGA	Address of message
(4)	ADDRESS	4	WCIPXPBA	Address of XPB
(8)	FULLWORD	4	WCIPSL	Storage area length
(8)	FULLWORD	4	WCIPCOMP	POST completion code
(8)	ADDRESS	4	WCIPSVA	Address of Save area

Table 717. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8)	FULLWORD	4	WCIPABCD	ABEND code
(8)	BIT(8)	1	WCIPDOPT	Dump options
(9)	BIT(12)	2	WCIPSABC	System ABEND code
(A)	BIT(12) POS(5)	2	WCIPUABC	User ABEND code

Table 718.

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 719.

Len	Type	Value	Name	Description
Request IDs (values for WCIPID)				
4	DECIMAL	0	WCIINTER	Internal error detected
4	DECIMAL	1	WCIGETM	MVS GETMAIN for subpool 0 storage above 16M line.
4	DECIMAL	2	WCIFREEM	MVS FREEMAIN
4	DECIMAL	3	WCIPOST	MVS Hand POST
4	DECIMAL	4	WCIXCONV	Convert hex to character
4	DECIMAL	5	WCIBLDPC	Build XPB for CICS TCB
4	DECIMAL	6	WCIBLDPX	Build XPB for XRF TCB
4	DECIMAL	7	WCIMSGAB	Message/ABEND

WCS - XRF CAVM static control block

```
CONTROL BLOCK NAME = DFHWCSDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHWCSPS
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM Static Control Block
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1985, 1987
FUNCTION =
       The CAVM Static Control Block provides a common anchor to
       enable CAVM State Management and Message Management
       functions to be invoked from code running in a CICS
       environment. It resides below the 16M line and includes
       the few items of CAVM data referenced by AMODE 24 routines.
       Each XRF system contains a single CAVM Static Control Block.
LIFETIME =
       The CAVM Static Control Block is created by DFHWSSN1 at
       the beginning of SIGNON and destroyed by DFHWSRTR at the
       end of SIGNOFF.
STORAGE CLASS =
```

```
       Non-CICS storage. In MVS subpool 0 below 16M line.
 LOCATION =
       Fields SSAXRF in the CICS SSA (DFHSSADS) and WCGSTATA in
       the CAVM Global Control Block (DFHWCGDS) both contain a
       pointer to the CAVM Static Control Block.
 INNER CONTROL BLOCKS =
       None.
 NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
          None.
    MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES =
        None.
     DATA AREAS =
        None.
     CONTROL BLOCKS =
        None.
     GLOBAL VARIABLES (Macro pass) =
        None.
-------------------------------------------------------------------
```

Table 720.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHWCSDS	CAVM Static Control Block
(0)	CHARACTER	8	WCSIDENT	Eye Catcher XRF-STAT
(8)	ADDRESS	4	WCSGLBLA	Pointer to CAVM Global Control Block
(C)	ADDRESS	4	WCSXTCBP	Pointer to CAVM TCB
(10)	ADDRESS	4	WCSETECB	End of task ECB for CAVM TCB
(14)	BITSTRING	1	WCSSMRST	State Management record status
(14)	....		WCSSSOFN	"0" Signed off normally or did not sign on (must be zero)
(14)	1		WCSSSON	"1" Signed on
(14)	.... ..1.		WCSSSOFA	"2" Signed off abnormally
(14)	1... ...1		WCSSSNIP	"X'81'" SIGNON in progress
(14)	1111 1111		WCSSSFIP	"X'FF'" SIGNOFF in progress
(15)	BITSTRING	1	WCSCSAVM	CAVM Services available mask
(15)	1...		WCSSMMAV	"X'80'" State and message management services are available
(15)	.1..		WCSPUTAV	"X'40'" Message management PUT is available
(16)	HALFWORD	2	WCSSOFML	Length of TAKEOVER message for ACTIVE job if it signs off during TAKEOVER
(18)	ADDRESS	4	WCSSOFMP	Pointer to TAKEOVER message for ACTIVE job

Table 720. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	ADDRESS	4	WCSTCECB	TAKEOVER response or SIGNON ECB
(20)	ADDRESS	4	WCSTXECB	TAKEOVER request ECB
(24)	ADDRESS	4	WCSTKVPP	Pointer to TAKEOVER parameter area
(28)	HALFWORD	2	WCSRESP (0)	
(28)	FULLWORD	1		Response code for CAVM request
(29)	FULLWORD	1	WCSREASC	Reason code for CAVM request
(2A)	BITSTRING	1	WCSTKRID	TAKEOVER request ID
(2B)	CHARACTER	1	WCSSOFCD	SIGNOFF code (normal or abnormal)
(2B)	11.. ...1		WCSRSOFA	"C'A'" Request for SIGNOFF ABNORMAL
(2B)	11.1 .1.1		WCSRSOFN	"C'N'" Request for SIGNOFF NORMAL
(2C)	ADDRESS	4		Reserved
(30)	ADDRESS	4	WCSACSVC	Pointer to CSVC's SVC instruction in the CICS CSA
(30)	..11 .1..		WCSL	"*-DFHWCSDS"

Table 721.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WCSENTAB	Entry point table for code below 16M
(0)	ADDRESS	4	WCSEMS	Message management services EPA
(4)	ADDRESS	4		Not used
(8)	ADDRESS	4		Not used

WDG - XRF Process block

```
CONTROL BLOCK NAME = DFHWDGPS
DESCRIPTIVE NAME = CICS TS (XRF) Process Block
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985
FUNCTION =
     XRF process dispatcher control area.
     There is a single instance of this control block in
     a CICS system which has successfully signed on to XRF.
     It contains state information for the XRF process
     dispatcher such as the currently dispatched process,
     head and tail of the chain of extant processes etc..
LIFETIME =
     Created by INIT_ATTACH (DFHWDINA) and destroyed when
     XRF TCB terminates.
STORAGE CLASS =
```

```
     Non-CICS storage. MVS subpool 0 storage above 16M line.
 LOCATION =
     Address is in WCGDA in XRF Global area DFHWCGPS.
 INNER CONTROL BLOCKS =
     WDGP
     Definition of internal dispatcher parameter block format.
     WDGLOCKH
     Lock hierarchy table (set up by DFHWDINA).
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
       None
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
       None
   CONTROL BLOCKS =
       None
   GLOBAL VARIABLES (Macro pass) =
       None
-------------------------------------------------------------------
 Fixed part of Dispatcher Global Area (in XRF Global area)
```

Table 722.

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	* (2)	Reserved
(20)	BIT(32)	4	WDGGLKSM	Granted locks mask
(24)	HALFWORD	2	WDGXPBNO	Last allocated process id
(26)	HALFWORD	2	*	Reserved
(28)	CHARACTER	24	WDGXPB	Space for the base part of a dummy XPB used by the dispatcher for tracing
(40)	CHARACTER	56	WDGLOCAL	This substructure contains data which are local to a single dispatcher call
(40)	BIT(32)	4	WDGLKACC	Lock table work area used by DFHWDINA.
(40)	BIT(32)	4	WDGLKTMP	Lock temporary used by DFHWDWAT.
(44)	HALFWORD	2	*	Reserved

Table 722. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(46)	HALFWORD	2	WDGWLL	Number items in WAIT list
(46)	HALFWORD	2	WDGLKI	Lock level counter
(48)	ADDRESS	4	WDGWL (12)	WAIT List
(78)	CHARACTER	0	WDGEND	End of fixed part of area

```
Dispatcher internal parameter block.
```

Table 723.

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 724.

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 TS (XRF) Dispatcher interface
                       block definitions.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985
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 725.

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 726.

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 727.

Len	Type	Value	Name	Description
Broadcast event numbers				
4	DECIMAL	1	WDSBTICK	Timer cycle
4	DECIMAL	2	WDSBCHNG	Some change in partner status other than ones with specific events.
4	DECIMAL	3	WDSBSON	Partner has signed on
4	DECIMAL	4	WDSBSOF	Partner has signed off
4	DECIMAL	5	WDSBRSV1	No longer used - reserved
4	DECIMAL	6	WDSBBPSA	BACKUP public status now available.
4	DECIMAL	7	WDSBFASA	Final ACTIVE public status now available (during TAKEOVER)
4	DECIMAL	8	WDSBPRST	Please read ACTIVE's latest status
4	DECIMAL	9	WDSBSSR	Start Status Reader processes
4	DECIMAL	25	WDSBPWC1	Primary write complete - odd cycle.
4	DECIMAL	26	WDSBPWE1	Primary write completed with error - odd cycle.
4	DECIMAL	27	WDSBPWC2	Primary write complete - even cycle.
4	DECIMAL	28	WDSBPWE2	Primary write completed with error - even cycle.
4	DECIMAL	29	WDSBSWC1	Secondary write complete - odd cycle.
4	DECIMAL	30	WDSBSWE1	Secondary write completed with error - odd cycle.
4	DECIMAL	31	WDSBSWC2	Secondary write complete - even cycle.
4	DECIMAL	32	WDSBSWE2	Secondary write completed with error - even cycle.
Lock numbers				
4	DECIMAL	1	WDSLPSTW	Primary status write lock
4	DECIMAL	2	WDSLSSTW	Secondary status write lock

WFG - XRF CAVM file control block

```
CONTROL BLOCK NAME = DFHWFGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHWFGPS
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM File Control Block
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1985
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 728.

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
(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)	..1. 1...		WFGL	"*-DFHWFGDS"

WDL - XRF LIFO workspace

```
CONTROL BLOCK NAME = DFHWLGPS
DESCRIPTIVE NAME = CICS TS (XRF) LIFO Workspace
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985
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 729.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	100	DFHWLGPS	Addressed from WS Global
(0)	CHARACTER	72	WLGSAVE	Standard OS Save Area
(48)	CHARACTER	28	WLGTRACE	Space for trace parameter block.
(64)	CHARACTER	0	WLGEND	

```
Standard OS Save Area
```

Table 730.

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

Table 730. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(18)	ADDRESS	4	WLGSAR01	R1
(1C)	ADDRESS	4	* (9)	R2 - R10
(40)	ADDRESS	4	WLGSAR11	R11
(44)	ADDRESS	4	WLGSAR12	R12

WMG - XRF Message manager global area

```
CONTROL BLOCK NAME = DFHWMGPS
DESCRIPTIVE NAME = CICS TS (XRF) Message manager global area
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985, 1989
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 731.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	DFHWMGPS	Addressed from WS Global
(0)	CHARACTER	40	WMGCOMM	Common data
(0)	ADDRESS	4	WMGCFKB	Free 1K block chain
(4)	ADDRESS	4	WMGCFMQE	Free message queue element chain
(8)	BIT(8)	1	WMGCFLG1	Flags
(8)	1...		WMGCFMOV	Moving data
(8)	.111 1111		*	Reserved
(9)	CHARACTER	3	*	Reserved
(C)	ADDRESS	4	WMGPUTA	Address of PUTMSG area
(10)	ADDRESS	4	WMGGETA	Address of GETMSG area
(14)	ADDRESS	4	WMGRQRA	Address of RQR area
(18)	ADDRESS	4	WMGPMECB	PUTMSG Start ECB
(1C)	ADDRESS	4	WMGCWAIT	Work element waiting for MQS to post it.
(20)	ADDRESS	4	WMGCPOST	Work element MQS is about to post.
(24)	FULLWORD	4	WMGCINST	Current ACTIVE message source instance number.
(28)	CHARACTER	0	*	

`PUTMSG area`

Table 732.

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	* (2)	Reserved
(28)	CHARACTER	0	WMGPEND	End of fixed part

Table 733.

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 734.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	52	WMGGET	GETMSG data
(0)	ADDRESS	4	WMGGMTA	Message transmission state data.
(4)	ADDRESS	4	*	Reserved
(8)	BIT(8)	1	*	Flags
(8)	1...		WMGGFASA	Final ACTIVE status seen
(8)	.111 1111		*	Reserved
(9)	UNSIGNED	1	*	Reserved
(A)	CHARACTER	2	WMGGRESP	Response data - like WMSRESP.
(C)	CHARACTER	12	WMGGID	Initial parameters for GETMSG process
(18)	ADDRESS	4	WMGGHA	Address of hash table
(1C)	FULLWORD	4	WMGGINDX	BACKUP index number
(20)	FULLWORD	4	WMGGINST	BACKUP instance number
(24)	ADDRESS	4	WMGGWAIT	Queue anchor waiting for MQH to post it.
(28)	ADDRESS	4	WMGGPOST	Queue anchor MQH is about to post.
(2C)	ADDRESS	4	*	Reserved
(30)	ADDRESS	4	*	Reserved

```
Hash table for message queue anchor chains.
```

Table 735.

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 (1)	Hash table entry array
(4)	1...		WMGGHTCL	'Closed' indicator

```
PUTREQ, PUTRSP area
```

Table 736.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	WMGRQR	PUTREQ, PUTRSP data
(0)	CHARACTER	16	WMGREQQ	PUTREQ request queue anchor area.
(10)	CHARACTER	16	WMGRSPQ	PUTRSP request queue anchor area.
(20)	HALFWORD	2	WMGRMINC	Minimum source channel - 0 for BACKUP, 1 for ACTIVE
(22)	HALFWORD	2	WMGRMAXC	Maximum source channel - 0 for BACKUP, WSAGBN for ACTIVE.

Table 736. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(24)	CHARACTER	12	WMGRID (3)	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 737.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	WMGRQ	Status of channel with individual partner
(0)	UNSIGNED	1	WMGRQIST	Inbound State
(1)	UNSIGNED	1	WMGRQOST	Outbound State
(2)	HALFWORD	2	*	Reserved

```
Request Queue Anchor Block
```

Table 738.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	WMGQANCH	Addressed from message manager global area.
(0)	ADDRESS	4	WMGQFRST	Address of first (newest) entry in request chain.
(0)	1...		WMGQCLSD	Service is closed
(4)	ADDRESS	4	WMGQLAST	Address of last (oldest) entry in request chain.
(4)	CHARACTER	2	*	
(6)	CHARACTER	2	WMGQRESP	Termination response like WMSRESP.
(8)	ADDRESS	4	WMGQECB	MVS ECB posted by issuer of request.
(C)	ADDRESS	4	WMGQLSEL	Address of latest entry selected for processing

Constants

Table 739.

Len	Type	Value	Name	Description
2	DECIMAL	1	WMGGHTN	Number of entries in hash table.
`Constants for WMGRQIST/WMGRQOST`				
1	DECIMAL	0	WMGRQNTR	No traffic
1	DECIMAL	1	WMGRQRSP	Response pending

Table 739. (continued)

Len	Type	Value	Name	Description
Constants for setting WMGQCLSD and WMGGHTCL				
4	HEX	80000000	WMGQCLON	
4	HEX	7FFFFFFF	WMGQCLOF	

WMI - XRF Internal interface block

```
CONTROL BLOCK NAME = DFHWMIPS
DESCRIPTIVE NAME = CICS TS (XRF) Internal interface block
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985
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 740.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	DFHWMIPS	XRF Message manager parameter block
(0)	FULLWORD	4	WMIPID	Request Identifier
(0)	CHARACTER	2	*	
(2)	CHARACTER	2	WMIPRESP	Response (like WMSRESP)
(4)	ADDRESS	4	WMIPWQE	Work queue element addr
(4)	ADDRESS	4	WMIPRB	User Request block addr

Table 740. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	ADDRESS	4	WMIPCCA	CI Control area address
(4)	CHARACTER	2	*	
(6)	CHARACTER	2	WMIPTRSP	Termination response
(8)	ADDRESS	4	WMIPQA	Work queue anchor addr
(8)	ADDRESS	4	WMIPTGT	Target for message copy
(8)	FULLWORD	4	WMIPOPTC	RPL type (PUT or GET)
(8)	CHARACTER	4	WMIPQNAM	Message queue name
(8)	CHARACTER	2	*	
(A)	CHARACTER	2	WMIPCRSP	Completion response

Table 741.

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 742.

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				

Table 742. (continued)

Len	Type	Value	Name	Description
4	DECIMAL	0	WMIQHINT	Initialize
4	DECIMAL	1	WMIQHENQ	Place message on queue
4	DECIMAL	2	WMIQHLOC	Locate/Create queue anchor
4	DECIMAL	3	WMIQHTRM	Terminate
Request IDs for DFHWMQS				
4	DECIMAL	1	WMIQSGN	Get next queue element
4	DECIMAL	2	WMIQSCMP	Complete request
4	DECIMAL	3	WMIQSCMB	Complete batch of requests
4	DECIMAL	4	WMIQSTRM	Close down queue and post any remaining requests.
Request IDs for DFHWMRD				
4	DECIMAL	0	WMIRDINT	Initialize
4	DECIMAL	1	WMIRDGET	Read message
Request IDs for DFHWMR1				
4	DECIMAL	0	WMIR1INT	Initialize
4	DECIMAL	1	WMIR1REQ	PUTREQ process
4	DECIMAL	2	WMIR1RSP	PUTRSP process
4	DECIMAL	3	WMIR1RCV	RECEIVE process
4	DECIMAL	4	WMIR1ESP	ESPIE exit
4	DECIMAL	5	WMIR1EST	ESTAE exit
Request IDs for DFHWMWR				
4	DECIMAL	0	WMIWRINT	Initialize
4	DECIMAL	1	WMIWRPUT	Write message
4	DECIMAL	2	WMIWRHDN	Harden messages

WMM - XRF Message queue anchor block

```
CONTROL BLOCK NAME = DFHWMMPS
DESCRIPTIVE NAME = CICS TS (XRF) Message queue anchor block
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985, 1987
FUNCTION =
     Anchor for chain of in core message elements built by
     the XRF GETMSG process.
     An instance of this block is created for each distinct
     message queue name for which either the reader process
     retrieves messages from the message dataset, or for
     which GETMSG requests are issued by the CICS TCB.
     Each such block serves as an anchor for the chain of
     messages yet to be read, and contains the ECB on
     which a CICS transaction will wait if it issues a GETMSG
     for a queue with no messages pending.
LIFETIME =
     Created by either the XRF message reader process under
     the XRF TCB, or by GETMSG under the CICS TCB, at the
     first appearance of a message queue name.
     Destroyed when the BACKUP either signs off, or takes over.
```

```
     This is done only under the CICS TCB at a time when it is
     known that no other CICS transactions have references to
     the block or anything depending on it.
 STORAGE CLASS =
     Non-CICS storage. Usually in MVS subpool 0 storage
     above 16M line.
 LOCATION =
     The anchor blocks are formed into hash chains using
     WMMAHASH as chain field and WMGGHT (in DFHWMGPS) as
     hash table.
 INNER CONTROL BLOCKS =
     WMME is the message queue element description. These
              blocks form chains from the message anchor blocks
              and contain the individual messages waiting to
              be read. They are created by the reader process
              when it reads a message, and destroyed by GETMSG
              when the message has been delivered.
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
        None
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
       None
   CONTROL BLOCKS =
       None
   GLOBAL VARIABLES (Macro pass) =
       None
-------------------------------------------------------------------
 Message Manager Message Queue Anchor Block
```

Table 743.

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	*	
(12)	1...		WMMAEOD	Flag set by reader process if EOD/SIGNOFF or an error occurs.
(12)	BIT(15) POS(2)	2	*	Reserved
(14)	ADDRESS	4	WMMAECB	ECB posted at 'End-of-data or whenever this queue becomes non-empty.
(14)	1...		*	
(14)	.1..		WMMAPOST	POST bit in ECB
(14)	BIT(30) POS(3)	4	*	

Table 743. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(18)	CHARACTER	0	WMMAEND	

```
Message Queue Element
```

Table 744.

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 TS (XRF) Message request queue
                       work element.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985, 1987
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 745.

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.
(10)	1...		*	
(10)	.1..		WMQEPOST	POST bit in ECB
(10)	BIT(30) POS(3)	4	*	
(14)	BIT(32)	4	WMQECSWD	This field is subject of a CS instruction and is described by WMQECS.
(18)	CHARACTER	24	WMQEPARM	Copy of request parameter block.
(30)	CHARACTER	0	WMQEEND	

```
Overlay for word containing 'cancelled' and 'about to post'
flags (WMQECSWD).
```

Table 746.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	WMQECS	
(0)	BIT(16)	2	WMQEFLGS	This field is subject of a CS instruction.
(0)	1...		WMQEFATP	About-to-post
(0)	.1..		WMQEFCAN	Request cancelled
(2)	BIT(14)	2	*	Reserved
(3)	BIT(16) POS(7)	3	*	Reserved

```
Block chain. Chain of free 4K blocks used by DFHWMS10 as XPBs.
```

Table 747.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	WMQB	
(0)	ADDRESS	4	WMQBNEXT	Address of next free block

WMR - XRF Message record

```
CONTROL BLOCK NAME = DFHWMRPS
DESCRIPTIVE NAME = CICS TS (XRF) Message Record
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985
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 748.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	DFHWMRPS	
(0)	UNSIGNED	1	WMRTYPE	Record type
(1)	BIT(8)	1	WMRRFLGS	Reserved
(2)	HALFWORD	2	WMRDATLN	Message data length i.e. number of bytes in record following WMREND
(4)	FULLWORD	4	WMRSEQNO	Message sequence number
(8)	CHARACTER	8	WMRIVN	Instance and version/queue
(8)	FULLWORD	4	WMRINSTN	Applicable instance number
(C)	FULLWORD	4	WMRVERSN	Version number
(C)	CHARACTER	4	WMRQNAME	Queue name
(10)	CHARACTER	0	WMREND	Start of message data

```
  Message Control Record
```

Table 749.

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 750.

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 751.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	3	WMRRDF	Cancel data passed to KCP at WAIT.
(0)	BIT(8)	1	WMRRDFF	Flags - always zero in the subset used by XRF message manager.
(1)	HALFWORD	2	WMRRDFL	Length of record which corresponds to this RDF.

Constants

Table 752.

Len	Type	Value	Name	Description
Message Dataset Record Types (WMRTYPE)				
1	DECIMAL	0	WMRTDATA	Message record
1	DECIMAL	1	WMRTCNO	Control record

WMS - XRF Message manager request

```
CONTROL BLOCK NAME = DFHWMSPS
DESCRIPTIVE NAME = CICS TS (XRF) Message manager request
                       interface block.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985
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 753.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DFHWMSPS	XRF Message manager parameter block
(0)	FULLWORD	4	WMSREQID	Request Identifier
(4)	BIT(8)	1	WMSRQFL1	Request flag byte 1
(4)	1...		WMSCRUCL	CRUCIAL Message (PUTMSG)
(4)	.111 1111		*	Reserved
(5)	BIT(8)	1	WMSRQFL2	Request flag byte 2
(5)	1...		WMSFORCE	Harden message before returning (PUTMSG)
(5)	.111 1111		*	Reserved
(6)	CHARACTER	2	WMSRC	Response field
(8)	ADDRESS	4	WMSDATAD	Data area address
(C)	HALFWORD	2	WMSDATSZ	Size of data area
(E)	HALFWORD	2	WMSDATLN	Data length
(10)	CHARACTER	8	WMSIVN	Instance and version/queue
(10)	FULLWORD	4	WMSINSTN	Instance number
(14)	FULLWORD	4	WMSVERSN	Version no (PUTREQ, PUTRSP)
(14)	CHARACTER	4	WMSQNAME	Queue name (GETMSG, PUTMSG)
(18)	CHARACTER	0	WMSEND	

```
 Response field
```

Table 754.

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 755.

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				
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

Table 755. (continued)

Len	Type	Value	Name	Description
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 TS (XRF) Message manager message
                        transmission control.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985
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 756.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	168	DFHWMTPS	

Table 756. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	ADDRESS	4	*	Reserved for chain ptr
(4)	BIT(8)	1	WMTCFLGS	Flags
(4)	1...		WMTCFCHG	CI has been changed
(4)	.1..		WMTCFSAF	CI can be written without impacting any backup.
(4)	..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 757.

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
(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	
(14)	1...		WMTPFMOV	Moving user data

Table 757. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(14)	.1..		WMTPFMDS	'Multiple discard' - the previous non-crucial msg was also discarded.
(14)	BIT(14) POS(3)	2	*	Reserved
(16)	HALFWORD	2	WMTPMAXL	Maximum record length
(18)	CHARACTER	0	WMTPEND	

```
GETMSG Transmission control data
```

Table 758.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	WMTG	
(0)	CHARACTER	8	WMTGBRC	Backup read cursor
(0)	FULLWORD	4	WMTGRCNO	Backup read cycle number
(4)	UNSIGNED	4	WMTGRRBA	Backup read RBA
(8)	CHARACTER	8	WMTGAWC	Active write cursor when current CI was read.
(8)	FULLWORD	4	WMTGWCNO	Active write cycle number
(C)	UNSIGNED	4	WMTGWRBA	Active write RBA
(10)	FULLWORD	4	WMTGSEQN	Message sequence number
(14)	ADDRESS	4	WMTGCCCA	Current CI control area
(18)	BIT(16)	2	WMTGFLGS	
(18)	1...		WMTGFMOV	Moving user data
(18)	.1..		WMTGFFMR	First message received
(18)	BIT(14) POS(3)	2	*	Reserved
(1A)	HALFWORD	2	*	Reserved
(1C)	CHARACTER	0	WMTGEND	

WNF - XRF CAVM notify exit

```
CONTROL BLOCK NAME = DFHWNFPS
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM NOTIFY Exit
                                          Parameter Block
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985, 1990
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 759.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DFHWNFPS	
(0)	FULLWORD	4	WNFRSV1	Reserved - must be zero
(4)	UNSIGNED	1	WNFEVENT	Event code
(5)	BIT(8)	1	WNFEVNTM	Event modifier bits
(5)	1...		WNFMDCEC	Event was in different CEC
(5)	.1..		WNFMICPA	Event refers to an incipient ACTIVE
(5)	..1.		WNFMSYSD	If on, event refers to a sign-off due to MVS failure
(5)	...1 1111		*	Reserved
(6)	BIT(8)	1	WNFXBITS	Existence bits for other fields
(6)	1...		WNFIX	Index exists
(6)	.1..		WNFD1X	DATA1 exists
(6)	..1.		WNFD2X	DATA2 exists
(6)	...1		WNFDAX	Additional DATA exists
(6)	 1111		*	Reserved
(7)	UNSIGNED	1	WNFINDEX	Index identifying BACKUP slot - zero for ACTIVE
(8)	FULLWORD	4	WNFDATA1	First data word
(8)	FULLWORD	4	WNFINST#	Instance no. for signon, signoff etc
(8)	FULLWORD	4	WNFHBLAT	No. of seconds 'heart-beat' is late
(8)	FULLWORD	4	WNFABCC	ABEND code (WNFEFAIL)
(C)	FULLWORD	4	WNFDATA2	Second data word
(C)	FULLWORD	4	WNFVERN#	Version no. for signon, signoff etc
(C)	CHARACTER	4	WNFQNAME	New queue name (WNFENEWQ)
(10)	ADDRESS	4	WNFDATAA	Address of additional data
(14)	FULLWORD	4	WNFDATAL	Length of additional data

Table 759. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(18)	CHARACTER	0	WNFEND	

Constants

Table 760.

Len	Type	Value	Name	Description
Event codes for WNFEVENT				
1	DECIMAL	1	WNFESON	Signon
1	DECIMAL	2	WNFESOFN	Signoff normal
1	DECIMAL	3	WNFESOFA	Signoff abnormal
1	DECIMAL	7	WNFECKDC	The TOD clock difference has changed
1	DECIMAL	8	WNFEIHRC	The 'Inquire Health' response has changed
1	DECIMAL	9	WNFEHBOD	Heart-beat is overdue
1	DECIMAL	10	WNFEHBRS	Heart-beat has restarted
1	DECIMAL	15	WNFERQTK	This system wants to take over from you.
1	DECIMAL	16	WNFEICPA	You are now the incipient active but your TOD clock might be behind
1	DECIMAL	17	WNFECKAS	Your TOD clock is now ahead of active's at signoff
1	DECIMAL	18	WNFEACTV	You are now the active in all respects except that your TOD clock might still be behind
1	DECIMAL	19	WNFECKAT	Your TOD clock is now ahead of active's at job termination
1	DECIMAL	20	WNFEPRMT	Another BACKUP pre-empted you after your TAKEOVER request had been accepted
1	DECIMAL	21	WNFETKFL	Takeover failed because of an error detected after the request had been accepted
1	DECIMAL	24	WNFEFAIL	CAVM has failed
1	DECIMAL	25	WNFEINVL	Active has invalidated you
1	DECIMAL	32	WNFENEWQ	Message arrival has caused a new message queue to be created
1	DECIMAL	33	WNFEREQM	Request message arrived
1	DECIMAL	34	WNFERSPM	Response message received
1	DECIMAL	35	WNFERSPX	Expected responder to a PUTREQ has gone away

Table 760. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	36	WNFENEWA	A message has arrived from a new ACTIVE instance

WSA - XRF CAVM surveillance status

```
CONTROL BLOCK NAME = DFHWSADS
NAME OF MATCHING PLS CONTROL BLOCK = DFHWSAPS
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM Surveillance Status
                                        Control Blocks
       Licensed Materials - Property of IBM
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       5655-Y04
       (C) Copyright IBM Corp. 1985, 1990
FUNCTION =
       The various CAVM Surveillance Status Control Blocks exist
       to permit the 4 independent CAVM surveillance processes
       (2 status writers and 2 status readers) to communicate with
       other CAVM processes and with each other.
       Each XRF system contains a single set of these Surveillance
       Status Control Blocks.
LIFETIME =
       The Surveillance Status Control Block, Public Status Area
       Descriptors and Public Status Areas in a given XRF system
       are all created at the same time during CAVM SIGNON by
       DFHWSSN2.
       The actual Status CIs are created by DFHWSSN3 as records
       filled with binary zeroes when it formats a new CAVM Control
       or Message Data Set. They are never destroyed except by
       deletion of the data set.
STORAGE CLASS =
       Non-CICS storage. In MVS subpool 0 above the 16M line.
       The Status CIs themselves reside on DASD in the CAVM Control
       or Message Data Sets or in I/O buffers in MVS subpool 0
       above the 16M line.
LOCATION =
       Field WCGSA in the CAVM Global Control Block (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 761.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHWSADS	CAVM Surveillance Status Control Block
(0)	CHARACTER	8	WSAGID	Eye Catcher DFHWSAPS
(8)	BITSTRING	1	WSAGWRQD	Status Write Required Mask
(8)	1...		WSAGPSWR	"X'80'" Status Write to Control File needed
(8)	.1..		WSAGSSWR	"X'40'" Status Write to Message File needed
(9)	BITSTRING	1	WSAGVRQD	Status Verification Required Mask
(9)	1...		WSAGPSVR	"X'80'" Control File status verify needed
(9)	.1..		WSAGSSVR	"X'40'" Message File status verify needed
(A)	BITSTRING	1	WSAGWSTK	Status Writers Stuck Mask
(B)	BITSTRING	1	WSAGRSTK	Status Readers Stuck Mask
(C)	HALFWORD	2	WSAGBN	Maximum number of concurrent BACKUPs
(E)	HALFWORD	2	WSAGINDX	Index to this system's entry in the array of status descriptors (zero origin)
(10)	HALFWORD	2	WSAG#BSU	No. of BACKUPs whose Public Status is not yet available - WDSBBPSA is broadcast when this reaches zero
(12)	BITSTRING	1	WSAGSRFL	Flags for controlling Status Readers
(12)	1...		WSAGQBSR	"X'80'" Quiesce Backup Status Readers
(13)	BITSTRING	1	WSAGPRST	Flags for recording the progress of a request to read the ACTIVE's latest status
(14)	FULLWORD	4	(0)	Ensure full word alignment
(14)	BITSTRING	4	WSAGRES	Internal ECB POSTed when request to read the ACTIVE's latest status has been completed
(18)	BITSTRING	4	WSAGWEP	Internal ECB POSTed to request a Status Write to the Control File
(1C)	BITSTRING	4	WSAGWES	Internal ECB POSTed to request a Status Write to the Message File
(20)	BITSTRING	8	WSAGPWCM (0)	Control File Write Complete Masks

Table 761. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	BITSTRING	4	WSAGWCP	Mask defining event which will be broadcast when next Status Write to Control File completes successfully
(24)	BITSTRING	4	WSAGWCEP	Mask defining event which will be broadcast when next Status Write to Control File completes with error
(28)	BITSTRING	8	WSAGSWCM (0)	Message File Write Complete Masks
(28)	BITSTRING	4	WSAGWCS	Mask defining event which will be broadcast when next Status Write to Message File completes successfully
(2C)	BITSTRING	4	WSAGWCES	Mask defining event which will be broadcast when next Status Write to Message File completes with error
(30)	FULLWORD	4	(0)	Ensure full word alignment
(30)	CHARACTER	8	WSAGPAIV	Instance & version no. of previous ACTIVE job which has either signed off or is no longer executing according to JES (BACKUPs only)
(38)	ADDRESS	4	WSAGP (0)	Start of Array of Status Descriptors
(38)	ADDRESS	4	WSAGWSAD (0)	Start of Array of Status Descriptors
(38)	..11 1...		WSAGHDRL	"*-DFHWSADS"

Table 762.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WSAD	CAVM Public Status Area Descriptor
(0)	ADDRESS	4	WSADPB (0)	Alternative Name
(0)	ADDRESS	4	WSADPSA	Address of Public Status Area
(4)	HALFWORD	2	WSADTOTL	Total length of Public Status
(6)	HALFWORD	2	WSADSHRL	Length of shared Status section
(8)	HALFWORD	2	WSADIDVL	Length of individual Status section
(A)	HALFWORD	2	WSADPOFF	Offset to my individual section in partner's Public Status
(C)	ADDRESS	4	WSADSRCP	Pointer to Communications Area for Status Reader and Writer Processes

Table 762. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C)	...1		WSADL	"*-WSAD"

Table 763.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WSAS	Common Shared Section of Status
(0)	FULLWORD	1	WSASST1	System Status 1
(0)	....		WSASSOFN	"0" Signed off normally (must be zero)
(0)	1		WSASSON	"1" Signed on
(0)	.... ..1.		WSASSOFA	"2" Signed off abnormally
(1)	FULLWORD	1	WSASST2	System Status 2
(1)	1		WSASACT	"1" System is ACTIVE
(1)	.... ..1.		WSASINCP	"2" System is incipient ACTIVE
(1)	11		WSASBKUP	"3" System is a BACKUP
(2)	BITSTRING	1	WSASST3	System status 3
(2)	1...		WSASXCFA	"X'80'" System has XCF services avail.
(3)	BITSTRING	1		Reserved
(4)	CHARACTER	8	WSASI#V# (0)	Instance and Version number
(4)	CHARACTER	8	WSASIVN (0)	Alternative name for I & V
(4)	FULLWORD	4	WSASINST	System's Instance number
(8)	FULLWORD	4	WSASVERN	System's Version number (always 1 for BACKUPs)
(C)	CHARACTER	16	WSASM (0)	Message state data (meaningful only for ACTIVE system)
(C)	FULLWORD	4	WSASMCID	CIDF corresponding to AWC
(10)	CHARACTER	8	WSASMAWC (0)	ACTIVE Write Cursor
(10)	FULLWORD	4	WSASMCNO	Message cycle number
(14)	FULLWORD	4	WSASMRBA	RBA of end of last message
(18)	FULLWORD	4	WSASMSQN	Sequence no. of last message
(1C)	CHARACTER	12	WSASMVSI	MVS System Identification - SMF ID and time & date of IPL
(28)	CHARACTER	8	WSASSPLX	XCF Sysplex name
(30)	CHARACTER	8	WSASSNAM	MVS System name
(38)	CHARACTER	4	WSASSTOK	MVS Instance token
(3C)	FULLWORD	4	WSASHBI	'Heart-beat' interval
(40)	FULLWORD	4	WSASHBC	'Heart-beat' counter

Table 763. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(44)	HALFWORD	2		Reserved
(46)	HALFWORD	2	WSASIHLL	Length of local 'Inquire Health' data
(48)	CHARACTER	256	WSASIHLD	Local 'Inquire Health' data
(148)	HALFWORD	2		Reserved
(14A)	HALFWORD	2	WSASIHGL	Length of global 'Inquire Health' data
(14C)	CHARACTER	128	WSASIHGD	Global 'Inquire Health' data
(14C)		0	WSASL	"*-WSAS"

Table 764.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WSAR	Specific Partner's Section of Status
(0)	HALFWORD	2		Reserved
(2)	HALFWORD	2	WSARQROF	Offset to Message Management PUTREQ data (WSARQR)
(4)	CHARACTER	16	WSARM (0)	Message state data
(4)	CHARACTER	8	WSARMBRC (0)	BACKUP Read Cursor or Initial Read Cursor
(4)	FULLWORD	4	WSARMCNO	Message file cycle number
(8)	FULLWORD	4	WSARMRBA	RBA of end of last message read or of 1st message to be read
(C)	FULLWORD	4	WSARINST	Instance Number
(10)	FULLWORD	4		Reserved
(10)	...1 .1..		WSARL	"*-WSAR"

Table 765.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WSARIV	Invalidation Message from ACTIVE
(0)	FULLWORD	4	WSARIVI#	Instance number of BACKUP which is now invalid
(4)	CHARACTER	12	WSARIVRC	Invalidation reason code
(4)	...1		WSARIVL	"*-WSARIV"

Table 766.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WSARTM	TAKEOVER message from BACKUP
(0)	HALFWORD	2		Reserved

Table 766. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	HALFWORD	2	WSARTMLN	Length of message
(4)	FULLWORD	4	WSARTMSI	Instance number of BACKUP trying to take over
(8)	CHARACTER	8	WSARTMIV (0)	
(8)	FULLWORD	4	WSARTMI#	Instance number of ACTIVE to be taken over
(C)	FULLWORD	4	WSARTMV#	Version number of ACTIVE to be taken over
(10)	CHARACTER	128	WSARTMSG	Takeover message
(10)	1..1		WSARTML	"*-WSARTM"

Table 767.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WSARQR	Message Management PUTREQ & PUTRSP messages
(0)	1...		WSARQRL	"128" Length of a Request or Response Message
(0)	CHARACTER	128	WSARREQ	Request message (PUTREQ)
(80)	FULLWORD	4	(0)	Ensure full word alignment
(80)	CHARACTER	1	WSARRSP	Response message (PUTRSP)

Table 768.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WSASV1	Version 1 WSAS
(0)	FULLWORD	1	WSV1ST1	System Status 1
(0)	....		WSV1SOFN	"0" Signed off normally (must be 0)
(0)	1		WSV1SON	"1" Signed on
(0)	.... ..1.		WSV1SOFA	"2" Signed off abnormally
(1)	FULLWORD	1	WSV1ST2	System Status 2
(1)	1		WSV1ACT	"1" System is ACTIVE
(1)	.... ..1.		WSV1INCP	"2" System is incipient ACTIVE
(1)	11		WSV1BKUP	"3" System is a BACKUP
(2)	HALFWORD	2		Reserved
(4)	CHARACTER	8	WSV1I#V# (0)	Instance and Version number
(4)	CHARACTER	8	WSV1IVN (0)	Alternative name for I & V
(4)	FULLWORD	4	WSV1INST	System's Instance number
(8)	FULLWORD	4	WSV1VERN	System's Version number (always 1 for BACKUPs)

Table 768. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C)	CHARACTER	16	WSV1M (0)	Message state data (meaningful only for ACTIVE system)
(C)	FULLWORD	4	WSV1MCID	CIDF corresponding to AWC
(10)	CHARACTER	8	WSV1MAWC (0)	ACTIVE Write Cursor
(10)	FULLWORD	4	WSV1MCNO	Message cycle number
(14)	FULLWORD	4	WSV1MRBA	RBA of end of last message
(18)	FULLWORD	4	WSV1MSQN	Sequence no. of last message
(1C)	CHARACTER	12	WSV1MVSI	MVS System Identification - SMF ID and time & date of IPL
(28)	FULLWORD	4	WSV1HBI	'Heart-beat' interval
(2C)	FULLWORD	4	WSV1HBC	'Heart-beat' counter
(30)	HALFWORD	2		Reserved
(32)	HALFWORD	2	WSV1IHLL	Length of local 'Inquire Health' data
(34)	CHARACTER	256	WSV1IHLD	Local 'Inquire Health' data
(134)	HALFWORD	2		Reserved
(136)	HALFWORD	2	WSV1IHGL	Length of global 'Inquire Health' data
(138)	CHARACTER	128	WSV1IHGD	Global 'Inquire Health' data
(138)		0	WSV1L	"*-WSASV1"

WSC - XRF CAVM Time-of-day clock difference

```
CONTROL BLOCK NAME = DFHWSCDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM TOD Clock Difference
                                          Control Area
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1985
FUNCTION =
       A BACKUP system uses this control block to keep track of
       the difference between the ACTIVE system's TOD clock and
       its own when they are running in different CECs.
       There is one instance of this control block per BACKUP.
LIFETIME =
       DFHWSXPI creates this control block when a BACKUP system
       signs on to CAVM and DFHWSTKV destroys it when the BACKUP
       takes over from the ACTIVE.
STORAGE CLASS =
       Non-CICS storage. In MVS subpool 0 above 16M line.
LOCATION =
       Field WCGCKDA in the XRF Global Control Block (DFHWCGDS)
       contains a pointer to the TOD Clock Difference Control Area.
INNER CONTROL BLOCKS =
       None.
NOTES :
```

```
   DEPENDENCIES = S/370
   RESTRICTIONS =
         None.
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES =
        None.
     DATA AREAS =
         None.
     CONTROL BLOCKS =
         None.
     GLOBAL VARIABLES (Macro pass) =
         None.
-------------------------------------------------------------------
```

Table 769.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WSCKD	TOD Clock Difference Control Area
(0)	DBL WORD	8	CKDLTMIN	Current minimum estimate of amount by which ACTIVE's TOD clock is ahead of this BACKUP's
(8)	DBL WORD	8	CKDLTMAX	Current maximum estimate of amount by which ACTIVE's TOD clock is ahead of this BACKUP's
(10)	FULLWORD	4	CKDTOD	ACTIVE's TOD clock reading corresponding to the current deltas to permit compensation for relative gain or loss of TOD clocks
(10)	.... 1.1.		CKDSHIFT	"10" Shift value corresponding to max. assumed relative rate of gain or loss of two TOD clocks (1 in 1024)
(14)	CHARACTER	12	CKDMVSI	MVS instance (SMF ID, IPL time & date) to which clock difference refers
(14)	..1.		WSCKDL	"*-WSCKD"

WSM - XRF CAVM state manager record description

```
CONTROL BLOCK NAME = DFHWSMDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM State Management
                                        Record Description
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1985, 1994
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 770.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	SMDESCR	State Management Record Global Data
(0)	FULLWORD	4	SMDSECCT	Security count updated whenever the State Management Record is updated
(4)	FULLWORD	4	SMDINST#	Instance Number assigned to last system which signed on (ACTIVE or BACKUP)
(8)	CHARACTER	8	SMDAI#V# (0)	Last ACTIVE instance & version
(8)	FULLWORD	4	SMDAINST	Instance no. of current (or last) ACTIVE system
(C)	FULLWORD	4	SMDAVERN	Version no. of current (or last) ACTIVE system
(10)	DBL WORD	8	SMDR#TOD (0)	Array of resource time-stamps

Table 770. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10)	DBL WORD	8	SMDR1TOD	Time-stamp for resource set R1 - estimated reading of last updater's TOD clock when he signed off from CAVM
(18)	DBL WORD	8	SMDR2TOD	Time-stamp for resource set R2 - estimated reading of last updater's TOD clock when his job terminated
(20)	HALFWORD	2	SMDR#NDX (0)	Array of resource ownership indices in same order as time-stamps
(20)	HALFWORD	2	SMDR1NDX	Index to the job description of the current owner of resource set R1 or 1's complement of last owner's index if R1 is free
(22)	HALFWORD	2	SMDR2NDX	Index to the job description of the current owner of resource set R2 or 1's complement of last owner's index if R2 is free
(24)	HALFWORD	2	SMDTKNDX	Index to the job description of the BACKUP which is performing TAKEOVER or 1's complement of index of last BACKUP to attempt it
(26)	HALFWORD	2	SMD#JOBS	Number of job descriptions in the State Management Record
(28)	DBL WORD	8	SMDSMJ0 (0)	Start of ACTIVE's job description
(28)	..1. 1...		SMDL	"*-SMDESCR"

Table 771.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WSJDESC	State Management Record Job Description
(0)	CHARACTER	8	WSJSAPPL	Specific APPLID
(8)	CHARACTER	8	WSJOBNAM	Job Name
(10)	CHARACTER	8	WSJOBID	JES Job Identifier
(10)	...1 1...		WSJS1END	"*"
(8)	CHARACTER	16	WSJOBNID	
(18)	FULLWORD	4	WSJSTIME	Job submission time (from JMR)
(1C)	FULLWORD	4	WSJSDATE	Job submission date (from JMR)
(20)	FULLWORD	4	WSJATIME	Time when job-step task was ATTACHed

Table 771. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(24)	CHARACTER	4	WSJSSNAM	MVS subsystem name of job's JES
(28)	CHARACTER	12	WSJMVSID	MVS system instance - SMF ID and time & date of IPL
(28)	..11 .1..		WSJS2END	"*"
(24)	CHARACTER	16	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)	..11 111.		WSJS3END	"*"
(8)	CHARACTER	54	WSJOBSTI	
(3E)	CHARACTER	1	WSJSIND	System Indicator
(3E)	1...		WSJXCFA	"X'80'" XCF available in MVS release
(3F)	FULLWORD	1	WSJSTAT	Job status - signed on, signed off normally or signed off abnormally
(40)	DBL WORD	8	WSJSNTOD	TOD clock reading when CAVM SIGNON processing started
(48)	CHARACTER	4	WSJRST (0)	Restart information field
(48)	CHARACTER	3	WSJEYECA	Restart Eyecatcher '>RS'
(4B)	CHARACTER	1	WSJRSTYP	Restart type indicator
(4B)	1		WSJRSJOB	"X'01'" Restart as JOB
(4B)	.... ..1.		WSJRSSTC	"X'02'" Restart as Started Task
(4C)	FULLWORD	4		Spare
(50)	DBL WORD	8	(0)	Force length to double word multiple
(50)	.1.1		WSJLVER1	"*-WSJDESC" Len of pre-CICS/ESA 3.2 job desc
(50)	CHARACTER	8	WSJSPLX	XCF Sysplex Name
(58)	CHARACTER	8	WSJSNAM	MVS Sytem name
(60)	CHARACTER	4	WSJSTOK	MVS System Instance token
(68)	DBL WORD	8	(0)	Force length to double word
(68)	.11. 1...		WSJS4END	"*"
(50)	CHARACTER	24	WSJXCFD	XCF Details
(58)	CHARACTER	16	WSJSDET	MVS System details
(58)	.11. 1...		WSJL	"*-WSJDESC" Len of CICS/ESA 3.2 job desc.

```
The following DSECT describes the control CI of the CAVM control
and message datasets. All the fields are set by DFHWSSN3 when
it opens a new pair of CAVM datasets for the first time and the
contents are verified on all subsequent SIGNON's.
```

Table 772.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	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)	..1. 11..		CTLRECL	"*-CTLREC"

WSN - XRF DFHWSMS entry points table

```
CONTROL BLOCK NAME = DFHWSNDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XRF) - Table of Entry Points in
                                        load module DFHWSMS
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986
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 773.

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
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM Surveillance
                                   Communications Area
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1985, 1990
FUNCTION =
       The Surveillance Communications Areas are needed to allow
       the 4 independent CAVM surveillance processes (2 status
       writers and 2 status readers) to share some common data.
       In each XRF system, there are separate Surveillance
       Communications Areas referring to each actual or potential
       partner XRF system as well as a single Surveillance
       Communications Area referring to that system itself.
       The Status Record Header contains a TOD clock reading used
       in clock difference calculations and a sequence number used
       to determine which of two status records contains the more
       up-to-date information. It is built immediately before
       writing an XRF system's status to its Status CI in the
       CAVM Control Data Set or Message Data Set.
LIFETIME =
       All the Surveillance Communications Areas in a given XRF
       system are created at the same time during CAVM SIGNON by
       DFHWSSN2.
STORAGE CLASS =
       Non-CICS storage. In MVS subpool 0 above 16M line.
LOCATION =
       Field WSADSRCP in each Public Status Area Descriptor (WSAD)
       contains a pointer to the corresponding XRF system's
       Surveillance Communications Area.
INNER CONTROL BLOCKS =
       None.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS =
         None.
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
        None.
    DATA AREAS =
        None.
    CONTROL BLOCKS =
        None.
    GLOBAL VARIABLES (Macro pass) =
        None.
-------------------------------------------------------------------
```

Table 774.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	SRHEADER	Status Record Header
(0)	DBL WORD	8	SRHTOD	Latest TOD clock reading
(8)	FULLWORD	4	SRHSEQ#	Sequence number of Status Write
(8)	.... 11..		SRHEADRL	"*-SRHEADER" Length of Status Record Header
(8)	.... 11..		SRHWSAS	"*" Start of common shared section of Status (WSAS)

Table 775.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	SRVCOM	Surveillance Communications Area
(0)	CHARACTER	1	SRVCHBOD	Indicator that 'heart-beat overdue' NOTIFY has been issued
(1)	CHARACTER	1	SRVCSOFA	Indicator that 'sign-off' abnormal NOTIFY has been issued
(2)	CHARACTER	1	SRVCSVCF	Indicator that DFH6646 msg has been issued as a result of SVC failureL1A
(3)	BITSTRING	1	SRVCHBPM	'Heart-beat' position mask showing which CAVM file is being read to track this partner's 'heart-beat'
(4)	BITSTRING	1	SRVCHBLM	'Heart-beat' late mask showing which files have been read without finding this partner's 'heart-beat'
(5)	BITSTRING	1	SRVCIOEM	I/O error mask showing which files have had an I/O error during the last read or write of this status CI
(8)	FULLWORD	4	SRVCLIHT	TOD when most recent indication that this partner's 'INQUIRE HEALTH' exit had run was detected
(C)	FULLWORD	4	SRVCPBS#	Status write sequence no. of Public Status
(10)	FULLWORD	4	SRVCLS#P	Sequence no. of latest status read from or written to the control file
(14)	FULLWORD	4	SRVCLS#S	Sequence no. of latest status read from or written to the message file
(14)	...1 1...		SRVCOML	"*-SRVCOM"

WSS - XRF CAVM state manager parameter list

```
CONTROL BLOCK NAME = DFHWSSDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHWSSPS
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM State Management
                                   Parameter Block
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1985, 1990
FUNCTION =
       The CAVM State Management Parameter Block is used to
       describe a CAVM SIGNON, SIGNOFF or TAKEOVER request.
LIFETIME =
       Determined by the user of CAVM.
STORAGE CLASS =
       Determined by the user of CAVM.
LOCATION =
       On entry to CAVM code, R1 points at the parameter block.
INNER CONTROL BLOCKS =
       None.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS =
         None.
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
        None.
    DATA AREAS =
        None.
    CONTROL BLOCKS =
        None.
    GLOBAL VARIABLES (Macro pass) =
        None.
-------------------------------------------------------------------
```

Table 776.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHWSSDS	State management parameter block - pointed to by R1
(0)	FULLWORD	4	WSSFUNC	Function
(4)	HALFWORD	2	WSSFUNCM	Function modifier
(6)	FULLWORD	1	WSSRESP	Response
(7)	FULLWORD	1	WSSREASC	Reason code
(8)	ADDRESS	4	WSSUNIQA	Addr. of section unique to function
(C)	FULLWORD	4	WSSUNIQL	Length of section unique to function
(C)	...1		WSSCOMND	"*" End of common section
(C)	...1		WSSCOMLN	"*-DFHWSSDS" Length of common section

Table 777.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WSSSONDS	Unique parameters for SIGNON

Table 777. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	8	WSSGAPPL	Generic APPLID
(8)	CHARACTER	8	WSSSAPPL	Specific APPLID
(10)	ADDRESS	4	WSSNFEPA	Address of NOTIFY exit routine
(14)	FULLWORD	4	WSSNFPRM	Parameter for NOTIFY exit
(18)	ADDRESS	4	WSSIHEPA	Address of INQUIRE HEALTH exit
(1C)	FULLWORD	4	WSSIHPRM	Parameter for INQUIRE HEALTH exit
(20)	FULLWORD	4	WSSHBINT	Heart-beat interval in seconds
(24)	CHARACTER	4	WSSMVID	MVS SMF id. returned to caller
(28)	CHARACTER	4	WSSJSID	JES subsystem id. ret to caller
(2C)	CHARACTER	8	WSSSPLX	XCF Sysplex name
(34)	CHARACTER	8	WSSSNAM	MVS System name
(3C)	CHARACTER	4	WSSSTOK	MVS System Instance token
(40)	BITSTRING	1	WSSSIND	MVS System Indicator byte
(40)	1...		WSSXCFA	"X'80'" ... XCF services available
(40)	.1.. ...1		WSSSONND	"*" End of section unique to SIGNON
(40)	.1.. ...1		WSSSONLN	"*-WSSSONDS" Length of section unique to SIGNON

Table 778.

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)	...1		WSSSOFND	"*" End of section unique to SIGNOFF
(E)	...1		WSSSOFLN	"*-WSSSOFDS" Length of section unique to SIGNOFF

Table 779.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WSSTKVDS	Unique parameters for TAKEOVER
(0)	FULLWORD	4	WSSINST#	Instance number of ACTIVE
(4)	FULLWORD	4	WSSVER#	Version number of ACTIVE (ignored if request is pre-emptive)
(8)	FULLWORD	4	WSSJTMTL	Job termination time limit (seconds)
(C)	ADDRESS	4	WSSTKVMA	Address of 'TAKEOVER' msg for ACTIVE
(10)	HALFWORD	2		Reserved half-word - must be zero
(12)	HALFWORD	2	WSSTKVML	Length of 'TAKEOVER' msg for ACTIVE
(12)	...1 .1..		WSSTKVND	"*" End of section unique to TAKEOVER
(12)	...1 .1..		WSSTKVLN	"*-WSSTKVDS" Length of section unique to TAKEOVER
Function codes - values for WSSFUNC				
(12)	1		WSSFSON	"1" SIGNON
(12)	.... ..1.		WSSFSOFF	"2" SIGNOFF
(12)	11		WSSFTKVR	"3" TAKEOVER
Function modifiers - values for WSSFUNCM				
(12)	....		WSSMSONA	"0" SIGNON as ACTIVE
(12)	1		WSSMSONB	"1" SIGNON as BACKUP
(12)	....		WSSMSOFN	"0" SIGNOFF NORMAL
(12)	1		WSSMSOFA	"1" SIGNOFF ABNORMAL
(12)	....		WSSMTKVN	"0" Non-pre-emptive TAKEOVER
(12)	1		WSSMTKVP	"1" Pre-emptive TAKEOVER

WST - XRF takeover parameter area

```
CONTROL BLOCK NAME = DFHWSTDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XRF) - Takeover Parameter Area
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1985
FUNCTION =
       The Takeover Parameter Area is a storage area belonging to
       the CAVM TCB which is used to keep copies of the parameters
       CICS specified on the TAKEOVER request that the CAVM TCB
       is currently working on. DFHWSRTR makes the copies of the
       TAKEOVER parameters while running under the CICS TCB and
       the requesting TCA. If a subsequent failure in this TCA
       should lead to the freeing of the storage it owns, the
       CAVM TCB's processing of the TAKEOVER request will not be
```

```
       affected.
       Each XRF BACKUP system has a single TAKEOVER parameter area.
       To avoid the problems which might arise from concurrent use
       of the Takeover Parameter Area, the CAVM TCB does not
       reference it unless the POST bit in WCSTXECB is 1, whereas
       the CICS TCB does not reference it unless this bit is 0 and
       also issues a CICS ENQ on WCSTCECB to serialise with other
       CICS TCAs which might be issuing TAKEOVER requests.
 LIFETIME =
       The Takeover Parameter Area is created by DFHWSXPI when a
       BACKUP system signs on to CAVM and is destroyed by
       DFHWSTKV during TAKEOVER processing.
 STORAGE CLASS =
       Non-CICS storage. In MVS subpool 0 above 16M line.
 LOCATION =
       Field WCSTKVPP in the XRF Static Area (DFHWCSDS) contains
       a pointer to the Takeover Parameter Area.
 INNER CONTROL BLOCKS =
       None.
 NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
          None.
    MODULE TYPE = Control block definition
-------------------------------------------------------------------------
 EXTERNAL REFERENCES =
        None.
     DATA AREAS =
         None.
     CONTROL BLOCKS =
         None.
     GLOBAL VARIABLES (Macro pass) =
         None.
-------------------------------------------------------------------------
```

Table 780.

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)
(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)	1..1 .1..		TKVPALEN	"*-TKVPA"

WSX - XRF CAVM surveillance exits

```
CONTROL BLOCK NAME = DFHWSXDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHWSXPS
DESCRIPTIVE NAME = CICS TS (XRF) - CAVM Surveillance Exits
                                        Control Area
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1985
FUNCTION =
       The Surveillance Exits Control Area contains the entry
       point addresses and parameter values that the user
       specified at CAVM SIGNON for the NOTIFY and INQUIRE HEALTH
       exits, which are driven under the CAVM TCB during
       surveillance processing.
       Each XRF system contains a single Surveillance Exits
       Control Area.
LIFETIME =
       The Surveillance Exits Control Area is created by DFHWSSN2
       during CAVM SIGNON.
STORAGE CLASS =
       Non-CICS storage. In MVS subpool 0 above 16M line.
LOCATION =
       Field WCGSXA in the XRF Global Control Block (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 781.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHWSXDS	Surveillance Exits Control Area
(0)	DBL WORD	8	WSXNFEPM (0)	Data for NOTIFY exit
(0)	ADDRESS	4	WSXNFEPA	NOTIFY exit entry point
(4)	ADDRESS	4	WSXNFPRM	NOTIFY exit parameter (R0)
(8)	DBL WORD	8	WSXIHEPM (0)	Data for INQUIRE HEALTH exit
(8)	ADDRESS	4	WSXIHEPA	INQUIRE HEALTH exit entry point
(C)	ADDRESS	4	WSXIHPRM	INQUIRE HEALTH exit parameter (R0)
(C)	...1		WSXEND	"*"
(C)	...1		WSXLEN	"*-DFHWSXDS" Length of control block

WS2 - XRF DFHWSSN2 parameter list

```
CONTROL BLOCK NAME = DFHWS2DS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XRF) - Parameter list for DFHWSSN2
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986
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 782.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	SN2PLIST	Parameter List for DFHWSSN2
(0)	FULLWORD	4	SN2FUNC	Zero entry point address to tell DFHWSRTR to process a SIGNON request
(4)	ADDRESS	4	SN2ENTBP	Pointer to entry point table
(8)	ADDRESS	4	SN2WSSPP	Pointer to State Management parameter list for SIGNON received by DFHWSSN1
(C)	ADDRESS	4	SN2STATA	Pointer to XRF Static Area built by DFHWSSN1
(10)	ADDRESS	4	SN2XRFNT	Pointer to table of entry points of routines below 16M line (copy of CSAXRFNT in the CICS CSA)

Table 782. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(14)	ADDRESS	4	SN2ESSOF	Entry point address of DFHWSSOF
(14)	...1 1...		SN2PLL	"*-SN2PLIST"

Table 783.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	SONENTAB	Table of entry points in DFHWSSON
(0)	ADDRESS	4	SONESSN2	EPA of DFHWSSN2
(4)	ADDRESS	4	SONEDINA	EPA of DFHWDINA
(8)	ADDRESS	4	SONESXPI	EPA of DFHWSXPI

WS3 - XRF DFHWSSN3 parameter list

```
CONTROL BLOCK NAME = DFHWS3DS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XRF) - Parameter list for DFHWSSN3
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1986
FUNCTION =
       This parameter list is used to provide DFHWSSN3 with the
       data it needs to prepare the CAVM control and message data
       sets for use by SIGNON.
       It is used just once in every CAVM SIGNON.
LIFETIME =
       The DFHWSSN3 parameter list is both created and destroyed
       by DFHWSSN2.
STORAGE CLASS =
       Non-CICS storage. In DFHWSSN2's automatic storage.
LOCATION =
       On entry to DFHWSSN3, R1 contains a pointer to its parameter
       list.
INNER CONTROL BLOCKS =
       None.
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS =
         None.
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
        None.
    DATA AREAS =
        None.
    CONTROL BLOCKS =
        None.
    GLOBAL VARIABLES (Macro pass) =
        None.
-------------------------------------------------------------------
```

Table 784.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	SN3PLIST	Parameter List for DFHWSSN3

Table 784. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	8	SN3GAPPL	Generic APPLID of system signing on
(8)	CHARACTER	8	SN3SAPPL	Specific APPLID of system signing on
(10)	CHARACTER	12	SN3MVSID	MVS system identification - SMF ID and time & date of IPL
(1C)	FULLWORD	4	SN3#CIS	No. of CIs required for use by State Management in each CAVM file
(20)	ADDRESS	4	SN3CIBFP	Pointer to CI buffer allocated by DFHWSSN3
(24)	ADDRESS	4	SN3VSAMB	Pointer to VSAM Request Block built by DFHWSSN3
(28)	ADDRESS	4	SN3FAA	Pointer to CAVM File Control Area built by DFHWSSN3
(28)	..1. 11..		SN3PLL	"*-SN3PLIST"

Table 785.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	VSAMRQB	VSAM Request Block
(0)	FULLWORD	4	VSAMRBA	RBA of record to read or write
(4)	ADDRESS	4	VSAMECB	External ECB for asynchronous request
(8)	FULLWORD	4	VSAMRPL (0)	Start of RPL for VSAM request
(8)	.... 1...		VSAMRQBL	"*-VSAMRQB"

WTA - XRF takeover initiation argument block

```
CONTROL BLOCK NAME = DFHWTADS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS XRF Takeover Initiation
                   Argument Block
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1985, 1989
FUNCTION =
       Used to specify arguments for a request to
       XRF Takeover Initiation Program (DFHWTI).
       Requests are:
          o Takeover Initiation
          o Verify CLT
          o Overseer Operator Command
          o Inquire Job Status
          o Process CLT
          o Issue MODIFY USERVAR
          o Terminate External Subsystem
          o Verify AXI
```

```
          o Issue subsystem command
          o Disable XRF services
       There is one instance of this control block per request.
LIFETIME =
       Created and destroyed by caller.
STORAGE CLASS =
       MVS program key storage.
LOCATION =
       Pointed to by R1 on entry to Takeover Initiation Program.
INNER CONTROL BLOCKS =
       None.
NOTES :
   DEPENDENCIES = S/370 XA
   RESTRICTIONS =
   MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
    DATA AREAS =
    CONTROL BLOCKS =
    GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
```

Table 786.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHWTADS	
REQUEST TYPE				
(0)	FULLWORD	4	WTAREQ (0)	
(0)	BITSTRING	1	WTAFUNC	Function
(1)	BITSTRING	1	WTAMOD	Modifier
(2)	CHARACTER	1	(2)	Reserved
ARGUMENTS:				
(4)	FULLWORD	4	WTAARGS (0)	
Takeover Initiation Inquire Job Status Process CLT				
(4)	....		WTACLLEN	"*-WTAARGS" Length of arguments for
(4)	CHARACTER	1	WTAICIND	CEC indicators Treat old active job as..
(4)	1...		WTAICISA	"X'80'" ..same MVS instance
(4)	.1..		WTAISYSA	"X'40'" ..same XCF Sysplex
(6)	HALFWORD	2	WTAISCMD	Command code (Issue subsys cmd)
(8)	CHARACTER	4	WTAICMVS	MVS system identifier if active
(C)	FULLWORD	4	WTAICTOD	Most significant fullword of
(10)	CHARACTER	8	WTAIJOBN	Job name as known by JES
(18)	CHARACTER	8	WTAIJOBI	Job identifier as known by JES
(20)	CHARACTER	8	WTAISNAM	MVS System name (CVTSNAM)
(28)	CHARACTER	4	WTAISTOK	MVS Instance Token (QUASSID)

Table 786. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2C)	BITSTRING	1	WTAISTAT	MVS System State
(2C)	1...		WTAISPRT	"X'80'" ..In Sysplex Partitioning
(2C)	.1..		WTAILOCL	"X'40'" ..In XCFLOCAL mode
(2D)	CHARACTER	1	(3)	Reserved
(2D)	..1. 11..		WTAIJLEN	"*-WTAARGS" Length of arguments for
(30)	CHARACTER	8	WTAITCAN	Job name for CANCEL command
(38)	CHARACTER	4	WTAITJES	JES subsystem name
(3C)	HALFWORD	2	WTAITASI	Address space indentifier
(3E)	HALFWORD	2		Reserved OLD CICS ACTIVE WAIT FOR TERMINATION DATA:
(40)	FULLWORD	4	WTAIJESI	JES delay interval
(40)	.1..		WTATILEN	"*-WTAARGS" Length of arguments for
(40)	.1..		WTAVCLEN	"*-WTAARGS" Length of arguments for
(44)	CHARACTER	4	WTAISSID	External subsystem id.
(44)	.1.. .1..		WTASCLEN	"*-WTAARGS" Length of arguments for
(44)	.1.. .1..		WTATELEN	"*-WTAARGS" Length of arguments for
(44)	.1.. .1..		WTAVALEN	"*-WTAARGS" Length of arguments for
Modify Uservar Overseer Operator Command Disable XRF services				
(44)	....		WTADXLEN	"*-WTAARGS" Length of arguments for
(44)	....		WTAMULEN	"*-WTAARGS" Length of arguments for
(4)	CHARACTER	5	WTAOCOMD (0)	Command data
(4)	ADDRESS	4	WTAOCAD	Address of command string
(8)	BITSTRING	1	WTAOCCL	Command string length (Maximum
(8)	.... .1.1		WTAOCLEN	"*-WTAARGS" Length of arguments for
Inquire System Details				
(4)	CHARACTER	8	WTAGSNAM	MVS System Name (CVTSNAM)
(C)	CHARACTER	4	WTAGSTOK	MVS Instance Token (QUASSID)
(10)	BITSTRING	1	WTAGSTAT	MVS System State

Table 786. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10)	1...		WTAGSPRT	"X'80'" ...In Sysplex Partitioning
(10)	.1..		WTAGLOCL	"X'40'" ...In XCFLOCAL mode
(10)	.... 11.1		WTAGSLEN	"*-WTAARGS" Length of arguments for
(10)	.1.. 1...		WTALEN	"*-DFHWTADS" Overall length
		..as in MVS DSECT SSOB		
Request Function codes (WTAFUNC)				
(10)	1		WTAFTI	"X'01'" Takeover Initiation
(10)	.... ..1.		WTAFJS	"X'02'" Inquire Job Status
(10)	11		WTAFVC	"X'03'" Verify CLT
(10)	.... .1..		WTAFOC	"X'04'" Overseer Operator Command
(10)	.... .1.1		WTAFMU	"X'05'" Issue 'F USERVAR'
(10)	.... .11.		WTAFCL	"X'06'" Process CLT only
(10)	.... .111		WTAFTE	"X'07'" Terminate External Subsystem
(10)	.... 1...		WTAFVA	"X'08'" Verify AXI
(10)	.... 1..1		WTAFSC	"X'09'" Issue subsystem command
(10)	.... 1.1.		WTAFDX	"X'0A'" Disable XRF services
(10)	.... 1.11		WTAFIS	"X'0B'" Inquire MVS system details
Request Modifiers Takeover initiation				
(10)	1		WTATICM	"X'01'" Do not terminate active job
(10)	.... ..1.		WTATIPC	"X'02'" Do not process CLT
(10)	.... .1..		WTATICS	"X'04'" Process CLT for same CEC only
Process CLT				
(10)	.... .1..		WTATPCS	"WTATICS" Process CLT for same CEC only
Takeover external subsystem				
(10)	1		WTATECM	"WTATICM" Do not terminate active system
Verify AXI				
(10)	1		WTAVANCN	"X'01'" Do not check cancel name in AXI
(10)	.... ..1.		WTAVANSS	"X'02'" Do not check subsystem id.
Command Codes (WTAISCMD) Issue Subsystem Command				

Table 786. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(10)	1		WTASCERE	"1" /ERE
(10)	.... ..1.		WTASCSWT	"2" /SWITCH STANDBY SYSTEM
RETURN CODES: Contents of register 15 on return				
(10)	....		WTARC0	"0" Successful: Warning reason
(10)	.... 1...		WTARCF	"8" Failure: Failure reason
Contents of register zero on return Byte 0 Original function code Byte 1 Original modifier Bytes 2-3 Reason code as below Reason code values Any request type Failures				
(10)	.... .1..		WTARISD	"X'0004'" Service disabled
(10)	.... 1...		WTARIIA	"X'0008'" Invalid request or argument
Takeover Initiation Warnings				
(10)	.... 11..		WTARIDV	"X'000C'" CEC Dead Data request failed
(10)	...1		WTARIDG	"X'0010'" CEC Dead Data PUT failed due
(10)	...1 .1..		WTARITF	"X'0014'" Terminate command failed
Failures				
(10)	...1 1...		WTARIAF	"X'0018'" Authorization check failed
(10)	...1 11..		WTARIAS	"X'001C'" AFCS not found
Inquire Job Status Successful:				
(10)	....		WTARJNX	"X'0000'" Job not executing - says JES
(10)	..1.		WTARJSX	"X'0020'" Job executing
(10)	..1. ...1		WTARXNX	"X'0021'" Job not executing - says XCF
Failures				
(10)	..1. ..11		WTARJXF	"X'0023'" IXCQUERY failure
(10)	..1. .1..		WTARJNU	"X'0024'" JES not up
(10)	..1. .1.1		WTARJSSG	"X'0025'" subt. stor. Getmain failed
(10)	..1. .11.		WTARJSAT	"X'0026'" Subtask Attach failed
(10)	..1. .111		WTARJSTO	"X'0027'" Subtask TimeOut
(10)	..1. 1...		WTARJSE	"X'0028'" Subtask error
(10)	..1. 1..1		WTARJJDE	"X'0029'" Jes Detected Error

Table 786. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
Verify CLT Failures:				
(10)	...1 1...		WTARVAF	"WTARIAF" Authorization check failed
(10)	...1 11..		WTARVAS	"WTARIAS" AFCS not found
(10)	..1. 11..		WTARVNF	"X'002C'" Cancel name check failed
(10)	..11		WTARVMF	"X'0030'" MVS SID check failed
(10)	..11 .1..		WTARVJF	"X'0034'" JES subsystem name check failed
(10)	..11 1...		WTARVSF	"X'0038'" Subsystem name check failed
Overseer Operator Command Failures:				
(10)	..11 11..		WTARONA	"X'003C'" Not authorised
Process CLT Failures:				
(10)	...1 1...		WTARPAF	"WTARIAF" Authorization check failed
(10)	...1 11..		WTARPAS	"WTARIAS" AFCS not found
(10)	.1..		WTARIMC	"X'0040'" Modify uservar CSCB not found
(10)	.1.. .1..		WTARIMB	"X'0044'" Modify uservar command too long
(10)	.1.. 1...		WTARIMS	"X'0048'" Modify uservar MGCR SVC error
(10)	.1.. 11..		WTARIMV	"X'004C'" Modify uservar ISTAVT not found
Issue Subsystem Command Failures:				
(10)	.1.1		WTARCSF	"X'0050'" SSI failure
(10)	.1.1 .1..		WTARCCF	"X'0054'" Command failure
Inquire System Details command Successful:				
(10)	.11.		WTARSOK	"X'0060'" Inquire system details OK
(10)	.11. ...1		WTARSNFN	"X'0061'" Named system not in sysplex
Failures:				
(10)	.11. .1.1		WTARSLOG	"X'0065'" IXCQUERY Logic error

```
      Contents of register 1 on return
      Subtask failure indicators
For Takeover Initiation, Terminate Subsystem
and Inquire Job Status :-
      SSI/Subtask error status data
```

Table 787.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WTARCR1	
(0)	FULLWORD	4	WTARSSRC (0)	SSI/Subtask error flags
(0)	BITSTRING	1	WTARSJND	STATUS error indicators:
(0)	1...		WTARSJNC	"X'80'" STATUS has hung. When caller TCB
(0)	1		WTARSJNJ	"X'01'" SSOBRETN byte 3 from IEFSSREQ
(0)	.... ..1.		WTARSJNS	"X'02'" R15 byte 3 from IEFSSREQ
(0)	.... .1..		WTARSJNG	"X'04'" Subtask/exit routine storage
(0)	.... 1...		WTARSJNA	"X'08'" Subtask ATTACH failed
(0)	...1		WTARSJNT	"X'10'" Subtask timeout occurred
(1)	BITSTRING	1	WTARSJSE	SSI return code from STATUS
(2)	BITSTRING	1	WTARSVND	SSI VERIFY/COMMAND errors
(2)	1		WTARSVNJ	"X'01'" SSOBRETN byte 3 from IEFSSREQ
(2)	.... ..1.		WTARSVNS	"X'02'" R15 byte 3 after IEFSSREQ
(2)	.... .1..		WTARSVNM	"X'04'" CICS not an MVS subsystem
(3)	BITSTRING	1	WTARSVSE	SSI return code from VERIFY/COMMAND

WTG - XRF trace control area

```
CONTROL BLOCK NAME = DFHWTGPS
DESCRIPTIVE NAME = CICS TS (XRF) Trace Control area
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985, 1987
FUNCTION =
     Contains description of the XRF Trace area. There is
     a single instance.
LIFETIME =
     Created on first call to XRF Trace (normally the result
     of the call to GET LIFO (DFHWLGET) made by XRF ATTACH
     (DFHWDATT) when called from INITIAL ATTACH (DFHWDINA)
     during the XRF SIGNON process.
     Destroyed during XRF SIGNOFF.
STORAGE CLASS =
     Non-CICS storage. Usually above 16M line.
```

```
LOCATION =
     Addressed by WCGTRA in XRF Global area DFHWCGPS.
INNER CONTROL BLOCKS =
     WTGAREA When DFHWTRP allocates the Trace control area
              it also allocates the trace area itself.
              WTGAREA describes the header of the trace area.
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
       None
 MODULE TYPE = Control block definition
-------------------------------------------------------------------
EXTERNAL REFERENCES =
  DATA AREAS =
       None
  CONTROL BLOCKS =
       WCGTRA Base for trace control area.
-------------------------------------------------------------------
```

Table 788.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	64	DFHWTGPS	Addressed from WS Global
(0)	CHARACTER	16	WTGAHDNG	Heading text - text is defined in WTGATEXT
(10)	ADDRESS	4	WTGSTART	Start of trace table
(14)	ADDRESS	4	WTGEND	End of trace table
(18)	ADDRESS	4	WTGNEXT	Next trace table entry
(1C)	BIT(16)	2	WTGFLAGS	
(1C)	1...		WTGFWRAP	Table has wrapped
(1C)	BIT(15) POS(2)	2	*	Reserved
(1E)	HALFWORD	2	*	Reserved
(20)	CHARACTER	8	WTGCLOCK	Target for STCK instrn issued by DFHWTRP.
(28)	ADDRESS	4	*	Reserved
(2C)	UNSIGNED	4	*	Reserved
(30)	CHARACTER	8	WTGCOPY	Shifted copy of STCK
(30)	UNSIGNED	4	WTG1647	STCK bits 16-47
(38)	ADDRESS	4	WTGCSTEP	Address of latest clock step entry.
(3C)	ADDRESS	4	WTGENTRY	Work space for trace

Constants

Table 789.

Len	Type	Value	Name	Description
Size of trace area to be allocated				
4	DECIMAL	65536	WTGASIZE	Allocate 64K
Heading text				
16	CHARACTER	*** XRF TRACE **	WTGATEXT	

WTR - XRF trace interface

```
CONTROL BLOCK NAME = DFHWTRPS
DESCRIPTIVE NAME = CICS TS (XRF) XRF Trace Interface
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985
FUNCTION =
     XRF Trace parameter block description used by a caller
     of trace as a template to build a parameter block to
     pass to trace (DFHWTRP).
LIFETIME =
     Duration of this particular use of storage is a single
     call to trace.
STORAGE CLASS =
     User's discretion subject to lifetime constraint.
LOCATION =
     Address is passed to DFHWTRP in Register 1.
INNER CONTROL BLOCKS =
     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 790.

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 791.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	WTRENTRY	
(0)	CHARACTER	28	WTRUDATA	User data part

Table 791. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	UNSIGNED	4	WTRCLOCK	Bits 15-46 of STCK value relative to last midnight
(20)	CHARACTER	0	WTREND	

```
Linkage
```

Table 792.

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 793.

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 794.

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 795.

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 796.

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 797.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WTRXFF	Reserved
(0)	CHARACTER	0	*	Reserved

Constants

Table 798.

Len	Type	Value	Name	Description
Trace types codes - Values for WTRPRITP and WTRSUBTP.				
1	DECIMAL	1	WTRPTLNK	Link
1	DECIMAL	1	WTRSTCAL	Link - Call
1	DECIMAL	2	WTRSTRTN	Link - Return
1	DECIMAL	2	WTRPTDSP	Dispatcher
1	DECIMAL	1	WTRSTATT	Disp - Process Attach
1	DECIMAL	2	WTRSTDET	Disp - Process Detach
1	DECIMAL	3	WTRSTDSP	Disp - Process Dispatch
1	DECIMAL	4	WTRSTXWE	Disp - XRF Wait (events)
1	DECIMAL	5	WTRSTXWL	Disp - XRF Wait (locks)
1	DECIMAL	6	WTRSTEND	Disp - No process
1	DECIMAL	7	WTRSTOSW	Disp - OS WAIT
1	DECIMAL	8	WTRSTOSR	Disp - OS dispatch
1	DECIMAL	3	WTRPTMMV	Message Manager I/O
1	DECIMAL	1	WTRSTVGT	MMV - VSAM GET Request
1	DECIMAL	2	WTRSTVPT	MMV - VSAM PUT Request
1	DECIMAL	3	WTRSTVRP	MMV - VSAM Response
1	DECIMAL	4	WTRPTMMR	Message Manager Requests
1	DECIMAL	1	WTRSTENQ	MMR - GET Message ENQ
1	DECIMAL	2	WTRSTWRT	MMR - PUT Message out
1	DECIMAL	3	WTRSTRQO	MMR - RQR Request Out
1	DECIMAL	4	WTRSTRPO	MMR - RQR Response Out
1	DECIMAL	5	WTRSTRQI	MMR - RQR Request In
1	DECIMAL	6	WTRSTRPI	MMR - RQR Response In
1	DECIMAL	254	WTRPTCLK	Clock step
1	DECIMAL	255	WTRPTRSV	Reserved

WXB - XRF process block

```
CONTROL BLOCK NAME = DFHWXBPS
DESCRIPTIVE NAME = CICS TS (XRF) Process Block
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985
FUNCTION =
     XRF process analogue of the CICS TCA supporting the XRF
```

```
     LIFO mechanism and process dispatching.
 LIFETIME =
     Created by XRF ATTACH (DFHWDATT) and destroyed when
     process returns (DFHWDISP).
     Artificial instances are sometimes created by other
     modules, e.g. 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 799.

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
(12)	1...		WXBFWAIT	Process issued a WAIT
(12)	.1..		WXBFXRF	XRF Process XPB
(12)	BIT(14) POS(3)	2	*	Spare
(14)	ADDRESS	4	WXBLBLKA	Current LIFO block addr
Locks and events				
(18)	CHARACTER	24	WXBLED	Lock and event data
(18)	ADDRESS	4	WXBEECBA	External event address
(1C)	ADDRESS	4	WXBIECBA	Internal event address
(20)	BIT(32)	4	WXBWEVM	Broadcast events waited

Table 799. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(24)	BIT(32)	4	WXBPEVM	Broadcast events posted
(28)	BIT(32)	4	WXBRLKM	Freed locks mask
(2C)	BIT(32)	4	WXBHLKM	Locks held mask
Dispatcher save area				
(30)	CHARACTER	64	WXBDSVA	Dispatcher register save area.
(30)	ADDRESS	4	WXBDSV00	Register 0 save slot
(34)	ADDRESS	4	WXBDSV01	Register 1 save slot
(38)	ADDRESS	4	WXBDSV02	Register 2 save slot
(3C)	ADDRESS	4	WXBDSV03	Register 3 save slot
(40)	ADDRESS	4	WXBDSV04	Register 4 save slot
(44)	ADDRESS	4	WXBDSV05	Register 5 save slot
(48)	ADDRESS	4	WXBDSV06	Register 6 save slot
(4C)	ADDRESS	4	WXBDSV07	Register 7 save slot
(50)	ADDRESS	4	WXBDSV08	Register 8 save slot
(54)	ADDRESS	4	WXBDSV09	Register 9 save slot
(58)	ADDRESS	4	WXBDSV10	Register 10 save slot
(5C)	ADDRESS	4	WXBDSV11	Register 11 save slot
(60)	ADDRESS	4	WXBDSV12	Register 12 save slot
(64)	ADDRESS	4	WXBDSV13	Register 13 save slot
(68)	ADDRESS	4	WXBDSV14	Register 14 save slot
(6C)	ADDRESS	4	WXBDSV15	Register 15 save slot
Data from ATTACH				
(70)	ADDRESS	4	WXBIDA	Initial data parameter
(74)	ADDRESS	4	WXBESPIE	ESPIE exit address
(78)	ADDRESS	4	WXBESPDA	ESPIE parameter
(7C)	ADDRESS	4	WXBESTAE	ESTAE exit address
(80)	ADDRESS	4	WXBESTDA	ESTAE parameter
(84)	ADDRESS	4	* (3)	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 800.

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 801.

Len	Type	Value	Name	Description
Special process number values (WXBXPBNO).				
2	DECIMAL	-1	WXBPNDSP	Dispatcher pseudo-process
2	DECIMAL	-2	WXBPNSRP	Error pseudo-process

WXL - XRF LIFO stack area

```
CONTROL BLOCK NAME = DFHWXLPS
DESCRIPTIVE NAME = CICS TS (XRF) XRF LIFO Stack Areas
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985
FUNCTION =
     Control data at the beginning of a block of storage from
     which XRF LIFO storage is allocated.
LIFETIME =
     Created by GET LIFO (DFHWLGET) when a new stack block is
     acquired for an XRF process.
     Destroyed by FREE LIFO (DFHWLFRE) when a all allocations
     of LIFO in the block have been released.
     An instance is also imbedded within an XRF process block
     (DFHWXBPS) to provide a first block containing space for
     just a standard OS Save Area used when a process is first
     dispatched.
STORAGE CLASS =
     Non-CICS storage. MVS subpool 0 storage above 16M line.
LOCATION =
     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 802.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	DFHWXLPS	XRF LIFO Stack block hdr
(0)	ADDRESS	4	WXLPREV	Previous block address
(4)	ADDRESS	4	WXLBOS	Bottom of this block

Table 802. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(8)	ADDRESS	4	WXLEOS	End of this block
(C)	ADDRESS	4	WXLNAB	Next available byte in the block.
(10)	CHARACTER	0	WXLEND	

```
Allocation header
```

Table 803.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	WXLAHDR	XRF LIFO Allocation header
(0)	CHARACTER	8	WXLAHID	Module identifier
(8)	ADDRESS	4	WXLAHPLA	Previous LIFO allocation
(C)	FULLWORD	4	WXLAHALN	Length of allocation (not including this header).
(10)	CHARACTER	0	WXLAHEND	

XCTRC - DFHXCTRA parameter list definition

```
CONTROL BLOCK NAME = DFHXCTRC
DESCRIPTIVE NAME = CICS TS External CICS Interface, DFHXCTRA
                            Parameter list definition.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1992, 2016
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 804.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	580	XCTRL	
(0)	CHARACTER	72	RSA	Save Area for external calls
(0)	FULLWORD	4	*	Reserved

Table 804. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	FULLWORD	4	RSACB	Backward Pointer
(8)	FULLWORD	4	RSACF	Forward Pointer
(C)	FULLWORD	4	* (15)	Regs 14 - 12
(48)	ADDRESS	4	PLIST_PTR	Pointer to base plist on
(4C)	FULLWORD	4	AREA_LENGTH	Used in table initialisation
(50)	FULLWORD	4	BLOCK_COUNT	Used in table initialisation
(54)	FULLWORD	4	I	Loop Index
(58)	FULLWORD	4	J	Loop Index
(5C)	FULLWORD	4	*	Reserved
(60)	ADDRESS	8	SAVEGR14	area to save R14
(68)	ADDRESS	8	SAVE2GR14	area to save R14
(70)	ADDRESS	8	BACKPTR	Used in table initialisation
(78)	ADDRESS	8	TR_BLOCK_PTR	Base for DFHTRBL structure
(80)	ADDRESS	8	ENTRY_PTR	Ptr to entry in table
(88)	FULLWORD	4	ENTRY_LEN	Entry length
(8C)	BIT(8)	1	FOOTPRINTS	Footprint flags
(8C)	1...		TRA_FREEMAIN_REQ	Freemain of DFHTRA required
(8C)	.1..		TABLE_FREEMAIN_REQ	Freemain of Trace table req.
(8C)	..1.		TRAP_WA_FREEMAIN_REQ	Freemain of trap wa required
(8C)	...1		GTF_BUF_FREEMAIN_REQ	Freemain of GTF buffer req.
(8C)	.... 1...		MOVING_DATA	Moving Data into trace table
(8C)	.... .1..		TRAP_IN_CONTROL	Control passed to DFHXCTRA.
(8C)	.... ..1.		OVERLENGTH_ENTRY	overlength entry detected
(8C)	1		*	Reserved
(8D)	BIT(8)	1	* (3)	Reserved
(90)	CHARACTER	16	XCSVC_PLIST	Parameter list to call XCSVC
(90)	ADDRESS	4	XCSVC_CODEP	Pointer to dump code
(94)	ADDRESS	4	XCSVC_IDP	Pointer to dump id
(98)	ADDRESS	4	XCSVC_USERP	Pointer to user name
(9C)	ADDRESS	4	XCSVC_TCBP	Pointer to TCB address
(A0)	CHARACTER	8	WORK8	Work area for CVD and unpack
(A8)	CHARACTER	8	TCBA_STR	Char form of TCB address
(B0)	CHARACTER	3	WORK3	work area
(B3)	CHARACTER	4	SDUMP_RC	Save area for SDUMP rc
(B7)	CHARACTER	9	WORK9	Work area
(C0)	CHARACTER	5	WORK5	Work area
(C5)	CHARACTER	4	WORK4	work area

Table 804. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(C9)	CHARACTER	3	*	reserved
(CC)	HALFWORD	2	INDEX	Index into string
(CE)	HALFWORD	2	RETRY_TIME_TO_GO	SDUMP retry time left
(D0)	ADDRESS	4	MSG_PLIST_PTR	Pointer to mebm plist
(D4)	BIT(8)	1	XCDMP_FOOTPRINTS	footprints for XCDMP
(D4)	1...		STIMERM_FAILED	remember STIMERM failed
(D4)	.1..		BUSY_MSG_ISSUED	Only issue busy msg once
(D4)	..1.		SYSTEM_DUMP_TKN	sdump has been taken
(D4)	...1 1111		*	Reserved
(D5)	BIT(8)	1	* (3)	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
(21C)	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 805.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	72	XCTRA_PLIST	

Table 805. (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.				
(2C)	ADDRESS	4	XCTRA_XCGLOBALA	A(XCGLOBAL block)

Table 805. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
XCTRA_XCUSERA - Address of the XCUSER block representing the particular user on whose behalf this request is running. Address may be 0 if block not set up yet.				
(30)	ADDRESS	4	XCTRA_XCUSERA	A(XCUSER 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 806.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1024	TRAP_WA	
(0)	CHARACTER	72	TRAP_REGSAVE	RSA for DFHXCTRA
(48)	CHARACTER	72	TRAP_PLIST	
(90)	BIT(8)	1	TRAP_FLAGS	Trap return action flags
(90)	1...		TRAP_TRACE	Further trace entry required
(90)	.1..		TRAP_DUMP	system dump required
(90)	..1.		TRAP_SKIP_GTF	Skip outputting entry to GTF
(90)	...1		TRAP_DISABLE	Disable the trap
(90)	 1111		*	Reserved
(91)	BIT(24)	3	*	Reserved
(94)	CHARACTER	128	TRAP_TR_DU_PLIST	Area for plist for calling trace and dump
(114)	CHARACTER	580	TRAP_TR_DU_WS	Working stg required for recursive Trace call.
(358)	CHARACTER	72	TRAP_TR_DU_RSA	RSA for recursive trace call

Table 806. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(3A0)	CHARACTER	96	TRAP_WORK	Force D-word alignment for..
(3A0)	CHARACTER	16	TRAP_WORK_EYEC	'>DFHXCTRA_WKAREA' eyecatcher
(3B0)	CHARACTER	80	TRAP_WORKAREA	Work area for DFHXCTRA

Constants

Table 807.

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	
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	0301	SMGF_ENTRY	
2	HEX	0302	SMGF_EXIT	
2	HEX	0303	SMGF_EXC	
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	

Table 807. (continued)

Len	Type	Value	Name	Description
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	0431	XCPRH_COMMAREA_LEN_ NOT_ALLOWED	
2	HEX	0432	XCPRH_DATA_LEN_NOT_ ALLOWED	
2	HEX	0433	XCPRH_CCSID_NOT_ ALLOWED	
2	HEX	0434	XCPRH_ENDIAN_NOT_ ALLOWED	
2	HEX	0603	XCPRH_XCUSER_GM_ERROR	
2	HEX	0604	XCPRH_XCPIPE_GM_ERROR	
2	HEX	0605	XCPRH_VERIFY_BLOCK_GM_ ERROR	
2	HEX	0606	XCPRH_SSI_VERIFY_ FAILED	
2	HEX	0607	XCPRH_SVC_CALL_FAILURE	
2	HEX	0608	XCPRH_IRP_LOGON_ FAILURE	
2	HEX	0609	XCPRH_IRP_CONNECT_FAIL	
2	HEX	0610	XCPRH_IRP_DISC_FAIL	
2	HEX	0611	XCPRH_IRP_LOGOFF_ FAILED	
2	HEX	0612	XCPRH_TRANSFORM_1_ ERROR	
2	HEX	0613	XCPRH_TRANSFORM_4_ERR	
2	HEX	0614	XCPRH_IRP_NULL_DATA	
2	HEX	0615	XCPRH_IRP_NEG_RESPONSE	
2	HEX	0616	XCPRH_IRP_SWITCH_PULL_ ERR	
2	HEX	0617	XCPRH_IRP_IOAREA_GM_ ERR	
2	HEX	0619	XCPRH_IRP_BAD_IOAREA	
2	HEX	0620	XCPRH_IRP_PROTOCOL_ERR	

Table 807. (continued)

Len	Type	Value	Name	Description
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	0633	XCPRH_INQUIRE_CHANNEL_ FAILED	
2	HEX	0800	XCPRH_LENGERR	
2	HEX	0801	XCPRH_INVREQ	
2	HEX	0802	XCPRH_PGMIDERR	
2	HEX	0803	XCPRH_ROLDBACK	
2	HEX	0804	XCPRH_NOTAUTH	
2	HEX	0805	XCPRH_SYSIDER	
2	HEX	0806	XCPRH_TERMERR	
2	HEX	0807	XCPRH_RESUNAVAIL	
2	HEX	1000	XCPRH_ENTRY	
2	HEX	1001	XCPRH_EXIT	
2	HEX	1010	XCEIP_ENTRY	
2	HEX	1011	XCEIP_EXIT	
2	HEX	1020	XCEIP_ENTRY2	
2	HEX	1021	XCEIP_EXIT2	
2	HEX	1022	XCEIP_ENTRY3	
2	HEX	1023	XCEIP_EXIT3	
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	

Table 807. (continued)

Len	Type	Value	Name	Description
2	HEX	2009	XCPRH_PRE_RACROUTE	
2	HEX	200A	XCPRH_POST_RACROUTE	
2	HEX	200B	XCPRH_IRP_SWITCH_SUBS_ DATA	
2	HEX	0900	XCTRI_TRA_GM_ERROR	
2	HEX	0901	XCTRI_TRACE_TABLE_GM_ ERROR	
2	HEX	0902	XCTRI_TRAP_WA_GM_ERROR	
2	HEX	0903	XCTRI_GTF_BUFFER_GM_ ERROR	
2	HEX	0904	XCTRP_OVERLENGTH_ENTRY	
2	HEX	0905	XCTRA_REQUESTED_ENTRY	
2	HEX	0906	XCTRI_TIME_WA_GM_ERROR	
2	HEX	3000	XCEIP_ESTAE_SETUP_ ERROR	
2	HEX	3001	XCEIP_ESTAE_INVOKED	
2	HEX	3002	XCEIP_INV_CTYPE_ON_ INIT	
2	HEX	3003	XCEIP_INV_VNUM_ON_INIT	
2	HEX	3004	XCEIP_INV_ANAME_ON_ INIT	
2	HEX	3005	XCEIP_INV_CTYPE_ON_ ALLOC	
2	HEX	3006	XCEIP_INV_VNUM_ON_ ALLOC	
2	HEX	3007	XCEIP_INV_UTOKEN_ON_ ALLOC	
2	HEX	3008	XCEIP_INV_CTYPE_ON_ OPEN	
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	

Table 807. (continued)

Len	Type	Value	Name	Description
2	HEX	3027	XCEIP_INV_PTOKEN_ON_ DEALL	
2	HEX	3028	XCEIP_PIPE_NOT_CLOSED_ ON_DEALL	
2	HEX	3029	XCEIP_RETRYING	
2	HEX	3030	XCEIP_SURROGATE_CHK_ FAIL_ON_DPL	
2	HEX	4000	XCGUR_ENTRY	
2	HEX	4001	XCGUR_EXIT	
2	HEX	4002	XCGUR_PRE_SVC	
2	HEX	4003	XCGUR_POST_SVC	
2	HEX	4004	XCGUR_RRS_NOT_ SUPPORTED	
2	HEX	4005	XCGUR_RRS_ERROR	
2	HEX	4006	XCGUR_SVC_EXCEPTION	
2	HEX	4007	XCGUR_GETMAIN_ERR	
2	HEX	4201	S2GF_ENTRY	
2	HEX	4202	S2GF_EXIT	
2	HEX	4203	S2GF_EXC1	
2	HEX	4204	S2GF_EXC2	
2	HEX	4205	S2GF_EXC3	
2	HEX	5000	XCBAM_ENTRY	
2	HEX	5001	XCBAM_EXIT	
2	HEX	5002	XCBAM_INVALID_FUNCTION	
2	HEX	5003	XCBAM_INVALID_FORMAT	
2	HEX	5004	XCBAM_INVALID_API_ FUNCTION	
2	HEX	5005	XCBAM_ESTAE_INVOKED	

XFIOA - Transformed MRO function

```
MACRO NAME = DFHXFIOA
DESCRIPTIVE NAME = CICS TS DFHXFX TRANSFORMED MRO AND IPIC
                              FUNCTION SHIPPING REQUEST AND
                              REPLY DSECT
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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.
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  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
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Table 808.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHXFIOA	TIOA DSECT
THIS PART OF THE DSECT DESCRIBES THE FORMAT OF THE TIOA USED TO SEND REQUESTS. IT IS USED BY TRANSFORMERS 1 AND 2 ONLY.				
(0)	....		XRQDS	"*"
(0)	FULLWORD	4	(3)	TIOA HEADER
(0)	.... 11..		XRQTHLEN	"*-XRQDS" Length of TIOA Header
(0)	.... 11..		XRQSTART	"*" START OF REQUEST DATA
COMMON REQUEST PARAMETERS				
(C)	CHARACTER	13	XRQFMHAR	AREA FOR ATTACH FMH
(19)	CHARACTER	2	XRQTAG	X'FFFF' MEANS XFX TIOA
(19)	...1 1.11		XRQTLEN	"*-XRQDS" Length of TIOA Attach Hdr
(1B)	CHARACTER	9	XRQARG0	EIP'S ARG0 ON REQUESTS
(24)	HALFWORD	2	XRQDOFF	OFFSET OF DATA IN TIOA
(26)	HALFWORD	2	XRQPARMS (0)	GROUP SPECIFIC PARMS
ICRX Optional insert (must be full number of words)				
(1B)	CHARACTER	3	XRQICRXH	X'FFFF00' means ICRX insert
(1E)	HALFWORD	2	XRQICRXO	TIOA offset to fake TIOA
(20)	HALFWORD	2	XRQICRXL	Length of ICRX
(22)	CHARACTER	1	XRQICRXD (0)	Data area for ICRX
(22)	.... .111		XRQILEN	"*-XRQICRXH" Length of ICRX Header
ODR optional message insert (Note- must be full number of words)				
(1B)	CHARACTER	3	XRQODRMH	X'FFFFEE' means ODR msg insert
(1E)	HALFWORD	2	XRQODRMO	TIOA offset to fake TIOA
(20)	HALFWORD	2	XRQODRML	Length of ODR msg insert
(22)	CHARACTER	1	XRQODRMD (0)	Data area for ODR msg insert
(22)	.... .111		XRQFLEN	"*-XRQODRMH" Length of ODR insert header
Adapter optional message insert (Note- must be full no. of words)				

Table 808. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1B)	CHARACTER	3	XRQADPTH	X'FFFFDD' means adapter insert
(1E)	HALFWORD	2	XRQADPTO	TIOA offset to fake TIOA
(20)	HALFWORD	2	XRQADPTL	Length of adapter msg insert
(22)	CHARACTER	1	XRQADPTD (0)	Data area for adapter msg insert
(22)	.... .111		XRQALEN	"*-XRQADPTH" Length of adapter insert header
ACD optional message insert (Note- must be full number of words) ACD is used for Initial application context for a task				
(1B)	CHARACTER	3	XRQACDMH	X'FFFFCC' means ACD msg
(1E)	HALFWORD	2	XRQACDMO	TIOA offset to fake TIOA
(20)	HALFWORD	2	XRQACDML	Length of ACD msg insert
(22)	CHARACTER	1	XRQACDMD (0)	Data area for ACD msg insert
(22)	.... .111		XRQCLEN	"*-XRQACDMH" Length of ACD insert header
CAC optional message insert (Note- must be full number of words) CAC is used for Current application context for a task When a tasks current application context is the same as the tasks initial application context, we still send the message insert, but instead of sending the full context twice, we indicate via a flag that the initial context should be used				
(1B)	CHARACTER	3	XRQCACMH	X'FFFFBB' means CAC msg
(1E)	HALFWORD	2	XRQCACMO	TIOA offset to fake TIOA
(20)	HALFWORD	2	XRQCACML	Length of CAC msg insert
(22)	CHARACTER	1	XRQCACMD (0)	Data area for CAC msg insert
(22)	.... .111		XRQDLEN	"*-XRQCACMH" Length of CAC insert header
(22)	BITSTRING	1	XRQCACFL	CAC flags
(22)	1...		CURRENT_IS_INITIAL	"X'80'" Use initial ctxt as current
FILE CONTROL REQUEST PARAMETERS				
(26)	CHARACTER	8	XRQFCDSN	DATA SET NAME
(2E)	HALFWORD	2	XRQFCDLN	DATA LENGTH
(30)	HALFWORD	2	XRQFCKLN	RIDFLD LENGTH
(32)	CHARACTER	2	XRQFCRQD	REQUEST ID
(34)	HALFWORD	2	XRQFCKOF	OFFSET OF KEY IN TIOA
(36)	CHARACTER	1	XRQFCKDA (0)	KEY FOLLOWED BY DATA
(36)	..1. 1.1.		XRQFCLEN	"*-XRQSTART" LEN OF FIXED PART
(36)	...1 1.11		XRQFCLNI	"*-XRQARG0" LEN OF FIXED PART FOR IPIC

Table 808. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
TRANSIENT DATA REQUEST PARAMETERS				
(26)	CHARACTER	4	XRQTDQNM	QUEUE NAME
(2A)	HALFWORD	2	XRQTDDLN	DATA LENGTH
(2C)	CHARACTER	1	XRQTDDA (0)	DATA AREA FOR WRITES
(2C)	..1.		XRQTDLEN	"*-XRQSTART" LEN OF FIXED PART
(2C)	...1 ...1		XRQTDLNI	"*-XRQARG0" LEN OF FIXED PART FOR IPIC
TEMPORARY STORAGE REQUEST PARAMETERS				
(26)	CHARACTER	8	XRQTSQNM	QUEUE NAME (8 BYTES ONLY)
(2E)	HALFWORD	2	XRQTSDLN	DATA LENGTH
(30)	HALFWORD	2	XRQTSITM	ITEM NUMBER
(32)	CHARACTER	1	XRQTSDA (0)	DATA AREA FOR WRITES
(32)	CHARACTER	1	XRQTSEND (0)	END OF FIRST PART OF TSRQ AREA
AN ADDITIONAL PARAMETER HAS BEEN ADDED AND SINCE THE ABOVE PARAMETER LIST IS FIXED LENGTH AND IS FOLLOWED BY DATA IT HAS HAD TO BE ADDED AFTER THE DATA. IT IS ADDRESSED BY XRQTSDA +XRQTSDLN (DATA ADDRESS + DATA LENGTH FOR WRITEQ TS OTHERWISE AT XRQTSQ16.)				
(32)	CHARACTER	16	XRQTSQ16 (0)	16 BYTE TS QUEUE NAME
(32)	CHARACTER	8	XRQTSQ8A	TS QUEUE NAME PART 1
(3A)	CHARACTER	8	XRQTSQ8B	TS QUEUE NAME PART 2
(3A)	..11 .11.		XRQTSLEN	"*-XRQSTART" TOTAL LENGTH OF FIXED PART
INTERVAL CONTROL REQUEST PARAMETERS				
(26)	CHARACTER	4	XRQICTR	TRANSID
(2A)	CHARACTER	4	XRQICTE	TERMID
(2E)	CHARACTER	4	XRQICRTR	RTRANSID
(32)	CHARACTER	4	XRQICRTE	RTERMID
(36)	CHARACTER	4	XRQICIOT	INTERVAL OR TIME
(3A)	CHARACTER	8	XRQICQUE	QUEUE
(42)	CHARACTER	8	XRQICRQD	REQID
(4A)	HALFWORD	2	XRQICFLN	FROM LENGTH
(4C)	CHARACTER	1	XRQICFDA (0)	FROM DATA
(4C)	.1..		XRQICLEN	"*-XRQSTART" LEN OF FIXED PART
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

Table 808. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
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
(40)	CHARACTER	1	XRQTSDAI (0)	DATA AREA FOR WRITES
(40)	..1. .1.1		XRQTSLNI	"*-XRQARG0" TOTAL LENGTH OF IPIC FIXED PART
THIS PART OF THE DSECT DESCRIBES THE FORMAT OF THE TIOA USED TO SEND REPLIES. IT IS USED BY TRANSFORMERS 3 AND 4 ONLY.				
(40)	....		XRPDS	"*"
(0)	FULLWORD	4	(3)	TIOA HEADER
(0)	.... 11..		XRPSTART	"*" 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)	...1 111.		XRPFCKOF53	"*-XRPDS" VALUE OF XRPFCKOF IN CICS 5.3 AND EARLIER
(1E)	BITSTRING	1	XRPFC_REPLY_FLAG1	
(1E)	1...		XRPFC_TERMINATE_ STRING	"X'80'"
(1F)	BITSTRING	1	XRPFC_REPLY_FLAG2	

Table 808. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	FULLWORD	4	XRPFC_VERSION	
(20)	1		XRPFC_VERSION_1	"1"
(24)	BITSTRING	1	XRPFC_RESPONSE	
(25)	BITSTRING	1	XRPFC_REASON	
(26)	BITSTRING	1	XRPFC_LENGTH_ERR_CODE	
(27)	BITSTRING	1	XRPFC_DUPLICATE_KEY	
(26)	CHARACTER	4	XRPFC_ACCMETH_RC	
(26)	..1. 1.1.		XRPFCKOF61	"*-XRPDS" VALUE OF XRPFCKOF IN CICS 6.1
(2A)	CHARACTER	1	XRPFCKDA (0)	KEY FOLLOWED BY DATA
(2A)	...1 111.		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)	.... 11..		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)	.... 111.		XRPTSLEN	"*-XRPSTART" LEN OF FIXED PART
INTERVAL CONTROL REPLY PARAMETERS				
(14)	CHARACTER	8	XRPICRQD	REQID ASSGND BY MIR SYS
(14)	...1		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

Table 808. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	...1 .1..		XRPTSLNI	"*-XRPSTART" LEN OF FIXED PART

XFR - Function shipping request control block

```
CONTROL BLOCK NAME = DFHXFRDS
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Function Request Shipping Request
                                  Control Block.
MACROS = DFHXFSTG
FUNCTION =
       Defines the data transformation (XF) control block
       as used in batch and online environments.
```

Table 809.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHXFRDS	
(0)	FULLWORD	4	XFRBEGIN (2)	ALLOW FOR USER STORAGE ACCOUNTING INFORMATION
(8)	DBL WORD	8	XFRSTART (0)	XF control block - start
FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO AN ONLINE ENVIRONMENT NOTE: There is a copy of this storage up to XFRFLAGA in DFHEPC and up to XFRAADPT in DFHEIIC. These programs must also be changed if the offset of XFRFLAGA (or XFRAADPT for DFHEIIC) changes. The field names in these programs are TFRFLAGA and TFRAADPT.				
SYSTEM/SESSION RELATED FIELDS				
(8)	CHARACTER	4	XFRSYSNM	N(SYSID)
(C)	ADDRESS	4	XFRATCSE	A(TCTSE)
(10)	ADDRESS	4	XFRATCTE	A(TCTTE) OR 0
(14)	ADDRESS	4	XFRATIOA	A(TIOA) OR 0
(18)	CHARACTER	4	XFRLUCCD	LU6.2 ERROR (SENSE) CODE
(1C)	CHARACTER	4	XFRSTRAN	Server transaction code
(20)	BITSTRING	1	XFRFLAGA	
(20)	1...		XFRSERVR	"X'80'" Server transaction supplied
(20)	.1..		XFRNORM	"X'40'" Normal transformer to be used
(20)	..1.		XFRSYNC	"X'20'" SYNCONRETURN requested
(20)	...1		XFRNOATN	"X'10'" CONVERSE with NOATNI required
(20)	.... 1...		XFRLINK	"X'08'" LINK request
(20)	.... .1..		XFRRTDST	"X'04'" Dynamically routed START request

Table 809. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	.... ..1.		XFRRESUN	"X'02'" RESUNAVAIL condition supported
(20)	1		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)	1...		XFRRSTRT	"X'80'" dynamic and routable start
(2D)	BITSTRING	1		reserved
(2E)	HALFWORD	2	XFRADPLN	Length of adapter data
(30)	ADDRESS	4	XFRAADPT	Address of adapter data
(34)	FULLWORD	4	XFRFSPEC (0)	Origin for function specific storage
DL/I RELATED FIELDS				
(34)	ADDRESS	4	XFRAUIB	A(UIB)
(38)	FULLWORD	4	XFRDLILN	Maximum length os SETS I/O area so far
FILE CONTROL RELATED FIELDS				
(3C)	FULLWORD	4	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		RESERVED
TRANSACTION ENTRY POINT RELEATED FIELDS				
(4C)	FULLWORD	4	XFRATACD	Addr. of TRANSACTION EP ACD
(50)	HALFWORD	2	XFRLTACD	Length of TRANSACTION EP ACD
(52)	BITSTRING	1	(10)	RESERVED
(5C)	FULLWORD	4	(0)	MAKE LENGTH MULTIPLE OF 4
This DSECT describes the entries required for remote program link				
(5C)	FULLWORD	4	DFHPCENT (0)	PC LINK entries begin here
(5C)	CHARACTER	4	XFR_PC_ATT_TRAN	Transaction code - for mirror attach FMH
(60)	CHARACTER	4	XFR_PC_EIB_TRAN	Transaction code - for mirror EIBTRNID

Table 809. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(64)	FULLWORD	4	XFR_PC_CCSID	Character data conversion 0 => no conversion -1 => conversion required use client code page defined via DFHCNV n => conversion requird use n as override to code page defined via DFHCNV
(68)	FULLWORD	4	XFR_PC_NDIAN	Binary data conversion 0 => no conversion X'01020304' => data held in big endian format X'04030201' => data held in little endian format
(6C)	CHARACTER	8	XFRPNAME	name of program
(74)	HALFWORD	2	XFRCOMML	length of commarea
(76)	HALFWORD	2	XFRDATAL	length of data to be sent
(78)	CHARACTER	4	XFRABCD	Abend code returned from mirror
(7C)	BITSTRING	1	XFRFLAG4	Flag byte
(7C)	1...		XFRHTRAN	"X'80'" hex tranid present
(7C)	.1..		XFRDATAV	"X'40'" valid DATALENGTH supplied
(7C)	1111		ESCARGN	"240" Special id for escape sequence
Fields used for passing terminal error information between MIRS/ISP and the transformer				
(7D)	BITSTRING	4	XFRTCERR	Terminal error
(81)	CHARACTER	4	XFRTCABE	Terminal control abend code
(85)	BITSTRING	4	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				
(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.

Table 809. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(AC)	....		XFRTRAN1	"0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS
(AC)	.... ..1.		XFRTRAN2	"2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS
(AC)	.... .1..		XFRTRAN3	"4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES
(AC)	.... .11.		XFRTRAN4	"6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES
(AD)	CHARACTER	2	XFRARCHD	USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE
(AF)	CHARACTER	1	XFRGROUP	THE GROUP IDENTIFIER FOR THE CURRENT REQUEST
(AF)	.... .11.		XFRFCGRP	"X'06'" - THE CICS FC GROUP
(AF)	.... 1...		XFRTDGRP	"X'08'" - THE CICS TD GROUP
(AF)	.... 1.1.		XFRTSGRP	"X'0A'" - THE CICS TS GROUP
(AF)	...1		XFRICGRP	"X'10'" - THE CICS IC GROUP
(AF)	...1 .1..		XFRJCGRP	"X'14'" - THE CICS JC GROUP
(AF)	.1..		XFRDLGRP	"X'40'" - THE DL/I GROUP

Table 809. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B0)	CHARACTER	1	XFRFUNCT	THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST
(B1)	CHARACTER	1	XFRFLAGS	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(B1)	1...		XFREILST	"X'80'" THE ARGUMENT LIST COMES FROM OR GOES TO EIP
(B1)	.1..		XFRDLLST	"X'40'" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I
(B1)	..1.		XFRDLCNT	"X'20'" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS
(B1)	...1		XFRDLPLI	"X'10'" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS
(B1)	.... 1...		XFRATHDR	"X'08'" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA
(B1)	.... .1..		XFRLNGRN	"X'04'" THE MIRROR TASK NEEDS TO BE LONG RUNNING
(B1)	.... ..1.		XFRNRPLY	"X'02'" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED
(B1)	1		XFRPRTCT	"X'01'" THE REQUEST IS TO BE SHIPPED PROTECTED
(B2)	CHARACTER	1	XFRFLAG1	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(B2)	1...		XFRLCLQ	"X'80'" THE REQUEST MAY BE QUEUED BEFORE SHIPPING
(B2)	.1..		XFRFCTK	"X'40'" FC Token can be shipped
(B2)	..1.		XFRFCRQ	"X'20'" Shipped FC request
(B2)	...1		XFRTMERR	"X'10'" Terminal error in xformer layer
(B2)	.... ..1.		XFRESCAP	"X'02'" Escape sequence preceding 4-byte legths may be found
(B2)	1		XFRCHANL	"X'01'" This is a CHANNEL request

Table 809. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B3)	CHARACTER	1	XFRFLAG2	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
(B3)	1...		XFRHAENT	"X'80'" DFHMIRVM has handled an abend; the abend code is to be found in the TACB
(B3)	.1..		XFRLENFD	"X'40'" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally
(B3)	..1.		XFRCHNSP	"X'20'" Other end of MRO link supports channels
(B3)	...1		XFRICRX	"X'10'" Other end of MRO link supports ICRXs
(B3)	.... 1...		XFRLCHAN	"X'08'" Link with prog or tran chan
(B3)	.... .1..		XFRCACX	"X'04'" Other end supports propagation of current app ctxt
(B3)	.... ..1.		XFRODRP	"X'02'" Other end supports propagation of Origin Data
(B3)	1		XFRACTX	"X'01'" Other end supports propagation of initial app ctxt
(B4)	CHARACTER	1	XFRFLAG3	PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED
(B5)	CHARACTER	2	XFRCODES (0)	FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER
(B5)	CHARACTER	1	XFRCODE1	THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS
(B5)	.... .1..		XFR1TO4	"4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4
(B5)	.... 1...		XFR1TOC	"8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I

Table 809. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B5)	.... ..1.		XFR1XLNF	"2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS
(B5)	11.1 1.11		XFRLNKUN	"219" RESUNAVAIL condition raised in remote region
(B5)	...1 111.		XFRLNKAP	"30" Allocate request in ISP has been purged
(B5)	...1 11..		XFRLNKAR	"28" Allocate request in ISP has been rejected
(B5)	...1 1.1.		XFRLNKNI	"26" no sessions immediately available for allocate request
(B5)	...1 1...		XFRLNKPF	"24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING
(B5)	...1 .11.		XFRLNKSV	"22" TRANSID invalid, we are already in session with a different mirror transaction.
(B5)	...1 .1.1		XFRDWNLV	"21" The remote system does not support a keyword on this request
(B5)	...1 .1..		XFRLNKGP	"20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID
(B5)	...1 ..1.		XFRLNKSP	"18" SYNCONRETURN invalid, we are already in session with a mirror
(B5)	...1		XFRLNKLQ	"16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT
(B5)	.... 111.		XFRLNKAB	"14" xform 4 has processed ABCODE data
(B5)	.... 11..		XFRLNKNA	"12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE
(B5)	.... 1.1.		XFRLNKSF	"10" CONVERSE in DFHISP has failed
(B5)	.... 1..1		XFRLNKCP	"9" Special for CPSM only equ of XFRLNKSH.
(B5)	.... 1...		XFRLNKSH	"8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE

Table 809. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(B5)	.... .11.		XFRLNKNS	"6" Type of request (either LINK or START CHANNEL) is not supported over LU6.1 connections
(B5)	.... .1..		XFRLNKSY	"4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE
(B6)	CHARACTER	1	XFRCODE2	THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS
(B6)	.... .1..		XFR2TO3	"4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3
(B6)	.... 1...		XFRNEGR	"8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT
(B7)	CHARACTER	1	XFRABCDE	ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM
(B8)	ADDRESS	4	XFRRESR9	resumption base for DL/I function shipping
(BC)	ADDRESS	4	XFRRESRE	resumption address for DL/I function shipping
(C0)	ADDRESS	4	XFRBEGOP	address of Arg0 options bytes
(C4)	FULLWORD	4	XFRARGS (0)	ORIGIN FOR ARGUMENTS
(C4)	1.11 11..		XFRLNGTH	"*-XFRSTART"
STORAGE USED BY TRANSFORMER 2 TO CONSTRUCT A PARAMETER LIST FOR EXEC OR DL/I REQUESTS. THIS STORAGE IS APPPENDED TO THE XF CONTROL BLOCK ADDRESSED FROM TCAXFS23 (IT IS ONLY NEEDED IN A MIRROR ENVIRONMENT)				
(C4)	FULLWORD	4	(96)	see comment above
(C4)		0	XFRLNG2	"*-XFRSTART"

XLT - Transaction list table

```
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS Transaction List Table.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
```

```
5655-Y04
(C) Copyright IBM Corp. 1993
          TRANSACTION LIST TABLE
```

Table 810.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHXLTDS	DUMMY SECTION - TRANSACTION LIST TABLE *
(0)	CHARACTER	4	XLTXID	TRANSACTION IDENTIFICATION
(0)	.... .1..		XLTEL	"(*-XLTXID)" TRANSACTION LIST TABLE ENTRY LENGTH *

XMCDS - Transaction Manager Tclass Stats

```
CONTROL BLOCK NAME = DFHXMCDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHXMCPS
DESCRIPTIVE NAME = CICS TS Tclass Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1993, 2009
       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 811.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHXMCDS	Transaction Manager Domain Tclass Statistics DSECT
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	XMCLEN	Length of data area
(0)	.... 11..		XMCIDE	"0012" Tclass Statistics id mask
(2)	ADDRESS	2	XMCID	Tclass Statistics id
(2)	1		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
(38)	FULLWORD	4	XMCPQT	Peak queued user transactions
(3C)	FULLWORD	4	XMCTAMA	Times at max. active
(40)	FULLWORD	4	XMCTAPT	Times at purge threshold
(44)	FULLWORD	4	XMCCAT	Current active user transactions
(48)	FULLWORD	4	XMCCQT	Current queued user transactions
THE FOLLOWING CL8 DEFINITIONS ARE REALLY "STORE CLOCK" FORMAT				
(4C)	CHARACTER	8	XMCTQTME	Total queuing time of those trans- actions that are no longer queuing

Table 811. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(54)	CHARACTER	8	XMCCQTME	Total queuing time of those trans- actions that are still queuing
(5C)	BITSTRING	16		Reserved
(6C)	CHARACTER	8	XMC_TCLASS_DEFINE_ SOURCE	Group installed from
(74)	BITSTRING	8	XMC_TCLASS_CHANGE_ TIME	Change/create time
(7C)	CHARACTER	8	XMC_TCLASS_CHANGE_ USERID	Change userid
(84)	BITSTRING	2	XMC_TCLASS_CHANGE_ AGENT	Change agent
(84)	1		XMC_CSDAPI_CHANGE	"0001" CSD API
(84)	.... ..1.		XMC_CSDBATCH_CHANGE	"0002" DFHCSDUP
(84)	11		XMC_DREPAPI_CHANGE	"0003" DREP API
(84)	.... .1..		XMC_CREATE_CHANGE	"0004" EXEC CREATE SPI
(86)	BITSTRING	2	XMC_TCLASS_INSTALL_ AGENT	Install agent
(86)	1		XMC_CSDAPI_INSTALL	"0001" CSD API
(86)	.... .1..		XMC_CREATE_INSTALL	"0004" EXEC CREATE SPI
(86)	.... .1.1		XMC_GRPLIST_INSTALL	"0005" GRPLIST
(88)	BITSTRING	8	XMC_TCLASS_INSTALL_ TIME	Install/Create time
(90)	CHARACTER	8	XMC_TCLASS_INSTALL_ USERID	Install userid
(90)	1..1 1...		XMCEND	"*"
(90)	1..1 1...		XMCCLEN	"*-XMCLEN" Length of Tclass Stats

XMGDS - Transaction Manager Global Stats

```
CONTROL BLOCK NAME = DFHXMGDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHXMGPS
DESCRIPTIVE NAME = CICS TS Transaction Manager Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1993, 2013
       CICS level at which this module was last updated
FUNCTION =
       This data area contains global statistics provided by the
       Transaction Manager Domain.
       It is provided for use in users monitoring applications
       to map the statistics returned via the APi or the statistics
       exit.
       There is a single instance of this data block.
LIFETIME =
       This data block is created by the Transaction Manager
       Domain to store statistics to be passed to the user in
       response to a request for statistics. The storage is
       released when the user task is detached.
       The DSECT also maps the contents of part of the SMF buffer
       created by the statistics domain and is used in the
       statistics exit.
STORAGE CLASS =
LOCATION =
       The user is passed a pointer to the head of the storage
       block.
INNER CONTROL BLOCKS = none
```

```
NOTES :
   DEPENDENCIES = S/370
   RESTRICTIONS = none
   MODULE TYPE = Domain call buffer
-------------------------------------------------------------------
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = from transaction manager domain
    GLOBAL VARIABLES (Macro pass) = none
-------------------------------------------------------------------
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXMGDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
```

Table 812.

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)	.... 1.1.		XMGIDE	"0010" Transaction Manager domain id mask
(2)	ADDRESS	2	XMGID	Transaction Manager domain id
(2)	1		XMGVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	XMGDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	FULLWORD	4	XMGNUM	Number of transactions (user + system) attached
(C)	FULLWORD	4	XMGMXT	Current MAXTASK value
(10)	FULLWORD	4	XMGCAT	Current active user transactions
(14)	FULLWORD	4	XMGCQT	Current queued user transactions
(18)	FULLWORD	4	XMGTAMXT	Times at MAXTASK
(1C)	FULLWORD	4	XMGPAT	Peak active user transactions
(20)	FULLWORD	4	XMGPQT	Peak queued user transactions
(24)	FULLWORD	4	XMGTAT	Total active user transactions
(28)	FULLWORD	4	XMGTDT	Total delayed user transactions note that this does not include those transactions currently queuing
THE FOLLOWING CL8 DEFINITIONS ARE REALLY "STORE CLOCK" FORMAT				
(2C)	CHARACTER	8	XMGTQTME	Total time spent waiting by transactions that had to queue for MXT but not including transactions currently queued.

Table 812. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(34)	CHARACTER	8	XMGCQTME	Total time spent by transactions currently queued for MXT
(3C)	FULLWORD	4		Reserved
(40)	DBL WORD	8	XMGTNUM	Total number of transactions at the time of the last reset
(48)	CHARACTER	8	XMGGTAT	time last txn attached (GMT)
(50)	CHARACTER	8	XMGLTAT	time last txn attached(local)
(58)	CHARACTER	8	XMGGSMXT	time MXT set (GMT)
(60)	CHARACTER	8	XMGLSMXT	time MXT set (local)
(68)	CHARACTER	8	XMGGAMXT	time MXT reached (GMT)
(70)	CHARACTER	8	XMGLAMXT	time MXT reached (local)
(78)	BITSTRING	1	XMGATMXT	at MXT indicator
(78)	1...		XMGCAMXT	"X'80'" currently at MXT
(79)	CHARACTER	7		Reserved
(79)	1...		XMGEND	"*"

XMRDS - Transaction Manager Transaction Stats

```
CONTROL BLOCK NAME = DFHXMRDS
NAME OF MATCHING PLS CONTROL BLOCK = DFHXMRPS
DESCRIPTIVE NAME = CICS TS Transaction Statistics
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1993, 2015
       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 813.

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
(0)	.... 1.11		XMRIDE	"0011" Transaction Statistics id mask
(2)	ADDRESS	2	XMRID	Transaction Statistics id
(2)	1		XMRVERS	"X'01'" Stats version number id mask
(4)	CHARACTER	1	XMRDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	4	XMRTI	Transaction ID
(C)	CHARACTER	8	XMRPN	Program name
(14)	CHARACTER	8	XMRTCL	Tclass name
(1C)	CHARACTER	8	XMRRNAM	Remote transid
(24)	CHARACTER	4	XMRRSYS	Remote sysid
(28)	HALFWORD	2	XMRPRTY	Transaction priority
(2A)	CHARACTER	1	XMRDYN	Dynamic indicator
(2A)	111. 1...		XMRDYNY	"C'Y'" ...Dynamic = yes
(2A)	11.1 .1.1		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

Table 813. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(48)	111. 1...		XMRIWTY	"C'Y'" ...Indoubtwait = yes
(48)	11.1 .1.1		XMRIWTN	"C'N'" ...Indoubtwait = no
(49)	CHARACTER	1	XMRIACTN	Indoubt action (commit or backout)
(49)	11.. ..11		XMRIACOM	"C'C'" ...Indoubt Action = commit
(49)	11.. ..1.		XMRIABCK	"C'B'" ...Indoubt Action = backout
(4A)	BITSTRING	1	XMR_TRAN_ENTRYPOINT	Application Entry Point
(4A)	1		XMR_ENTRYPOINT_NO	"01" ... not an entry point
(4A)	.... ..1.		XMR_ENTRYPOINT_YES	"02" ... entry point
(4B)	CHARACTER	1		Filler
(4C)	FULLWORD	4	XMRIWAIT	Number of indoubt waits
(50)	FULLWORD	4	XMRFATXN	Forced action due to trandef
(54)	FULLWORD	4	XMRFAIT	Forced action due to indoubt timeout
(58)	FULLWORD	4	XMRFANW	Forced action due to no wait ability
(5C)	FULLWORD	4	XMRFAOP	Forced action due to operator
(60)	FULLWORD	4	XMRFAOT	Forced action due to other
(64)	FULLWORD	4	XMRAMISM	Number of Action mismatches
(68)	BITSTRING	16		Reserved
(78)	CHARACTER	8	XMR_TRAN_DEFINE_ SOURCE	Group installed from
(80)	BITSTRING	8	XMR_TRAN_CHANGE_TIME	Change/create time
(88)	CHARACTER	8	XMR_TRAN_CHANGE_ USERID	Change userid
(90)	BITSTRING	2	XMR_TRAN_CHANGE_AGENT	Change agent
(90)	1		XMR_CSDAPI_CHANGE	"0001" CSD API
(90)	.... ..1.		XMR_CSDBATCH_CHANGE	"0002" DFHCSDUP
(90)	11		XMR_DREPAPI_CHANGE	"0003" DREP API
(90)	.... .1..		XMR_CREATE_CHANGE	"0004" EXEC CREATE SPI
(90)	.... .111		XMR_SYSTEM_CHANGE	"0007" SYSTEM
(92)	BITSTRING	2	XMR_TRAN_INSTALL_ AGENT	Install agent
(92)	1		XMR_CSDAPI_INSTALL	"0001" CSD API
(92)	.... .1..		XMR_CREATE_INSTALL	"0004" EXEC CREATE SPI
(92)	.... .1.1		XMR_GRPLIST_INSTALL	"0005" GRPLIST
(92)	.... .111		XMR_SYSTEM_INSTALL	"0007" SYSTEM
(92)	.... 1..1		XMR_BUNDLE_INSTALL	"0009" BUNDLE
(94)	BITSTRING	8	XMR_TRAN_INSTALL_TIME	Install/Create time
(9C)	CHARACTER	8	XMR_TRAN_INSTALL_ USERID	Install userid
(9C)	1.1. .1..		XMREND	"*"

Table 813. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(9C)	1.1. .1..		XMRCLEN	"*-XMRLEN" Length of Transaction Stats

XMRSC - Transaction Restart Program Commarea

```
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%PRODUCT Commarea for Transaction Restart

This control block defines the commarea passed to the
user-replaceable Transaction Restart program DFHREST.

Although provided as a sample, this control block is not to be
used as a general programming interface. Refer to the CICS
Customisation Guide to determine its intended usage.

------------------------------------------------------------------
```

Table 814.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	XMRS_COMMAREA	Transaction restart commarea
(0)	CHARACTER	4	XMRS_STANDARD_HEADER	Standard commarea header
(0)	CHARACTER	1	XMRS_FUNCTION	Function (always '1')
(1)	CHARACTER	2	XMRS_COMPONENT_CODE	Component (always 'XM')
(3)	CHARACTER	1	*	Reserved
(4)	CHARACTER	1	XMRS_READ	Terminal read done
(5)	CHARACTER	1	XMRS_WRITE	Terminal write done
(6)	CHARACTER	1	XMRS_SYNCPOINT	Syncpoint done
(7)	CHARACTER	1	XMRS_RESTART	Restart (output)
(8)	UNSIGNED	2	XMRS_RESTART_COUNT	No. of previous restarts
(A)	CHARACTER	2	*	Reserved
(C)	CHARACTER	4	XMRS_ORIGINAL_ABEND_ CODE	Original abend code
(10)	CHARACTER	4	XMRS_CURRENT_ABEND_ CODE	Current abend code

Constants

Table 815.

Len	Type	Value	Name	Description
1	CHARACTER	1	XMRS_TRANSACTION_ RESTART	
2	CHARACTER	XM	XMRS_TRANSACTION_ MANAGER	
1	CHARACTER	Y	XMRS_READ_YES	

Table 815. (continued)

Len	Type	Value	Name	Description
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

```
CONTROL BLOCK NAME = DFHXQS1D
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XQ) Statistics for list structure.
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        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1995, 2006
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 816.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHXQS1D	, XQ list structure statistics record
(0)	FULLWORD	4	S1 (0)	Start of record
(0)	HALFWORD	2	S1LEN	Length of data area
(0)	.111 1..1		S1IDE	"0121" List structure stats mask
(2)	ADDRESS	2	S1ID	List structure stats id
(2)	1		S1VERS	"X'01'" DSECT version number mask
(4)	CHARACTER	1	S1DVERS	List structure stats version number
(5)	CHARACTER	3		Reserved
Coupling facility list structure status information.				
(8)	CHARACTER	16	S1NAME (0)	Full name of list structure
(8)	CHARACTER	8	S1PREF	First part of structure name
(10)	CHARACTER	8	S1POOL	Pool name part of structure name
(18)	CHARACTER	16	S1CNNAME (0)	Name for connection to structure

Table 816. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 816. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 816. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(D8)	FULLWORD	4	S1RSP7CT	The list structure is out of space
(DC)	FULLWORD	4	S1RSP8CT	An IXLLIST return code occurred other than those described above
(E0)	FULLWORD	4	S1RSP9CT	Structure temporarily unavailable, for example during rebuild
(E0)	111. .1..		S1END	"*"
(E0)	111. .1..		S1CLEN	"*-S1LEN" Length of this DSECT

XQS2D - Shared TS Queue Server buffer statistics

```
CONTROL BLOCK NAME = DFHXQS2D
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XQ) Statistics for queue buffer pool.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1995
FUNCTION = XQ Statistics for queue index buffer pool usage.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
       N/A
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
-------------------------------------------------------------------------
```

Table 817.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHXQS2D	, XQ buffer pool statistics record
(0)	FULLWORD	4	S2 (0)	Start of record
(0)	ADDRESS	2	S2LEN	Length of data area
(0)	.111 1.1.		S2IDE	"0122" XQ buffer pool stats mask

Table 817. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(2)	ADDRESS	2	S2ID	XQ buffer pool stats id
(2)	1		S2VERS	"X'01'" DSECT version number mask
(4)	ADDRESS	1	S2DVERS	XQ buffer pool version number
(5)	BITSTRING	3		Reserved
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

Table 817. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4C)	FULLWORD	4	S2BFPURS	PURGEs (mark buffer invalid)
(50)	FULLWORD	4	S2BFPNFS	PURGE with no matching buffer found
(54)	FULLWORD	4	S2BFPNOS	PURGE errors, buffer not owned
(54)	.1.1 1...		S2END	"*"
(54)	.1.1 1...		S2CLEN	"*-S2LEN" Length of this DSECT

XQS3D - Shared TS Queue Server storage statistics

```
CONTROL BLOCK NAME = DFHXQS3D
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS (XQ) Statistics for server storage.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1995, 2002
FUNCTION = XQ Statistics for server main storage usage.
LIFETIME = N/A
STORAGE CLASS = N/A
LOCATION = N/A
       N/A
NOTES :
   DEPENDENCIES = S/370
   MODULE TYPE = Control block definition
-------------------------------------------------------------------------
```

Table 818.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHXQS3D	, XQ main storage statistics record
(0)	FULLWORD	4	S3 (0)	Start of record
(0)	ADDRESS	2	S3LEN	Length of data area
(0)	.111 1.11		S3IDE	"0123" XQ main storage stats mask
(2)	ADDRESS	2	S3ID	XQ main storage stats id
(2)	1		S3VERS	"X'01'" DSECT version number mask
(4)	ADDRESS	1	S3DVERS	XQ main storage stats version
(5)	BITSTRING	3		Reserved

Table 818. (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
(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

Table 818. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(64)	FULLWORD	4	S3LOWRQC	Compress (defragmentation) attempts
(64)	.11. 1...		S3END	"*"
(64)	.11. 1...		S3CLEN	"*-S3LEN" Length of this DSECT

XRH - Extended recovery facility

```
CONTROL BLOCK NAME = DFHXRHPS
DESCRIPTIVE NAME = CICS TS - Extended Recovery Facility
                           XRP - Health Data Definition
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1986
FUNCTION =
     DFHXRHPS contains the PL/S structure that describes
     the XRF health data managed by CICS.
     XRF health data can be set by
       1. 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 819.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	52	DFHXRHPS	

Table 819. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 820.

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 (8)	- errors
(8)	CHARACTER	4	XRHDDOMI	- domain id
(C)	CHARACTER	4	XRHDERRI	- error id

`Extension descriptor`

Table 821.

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 822.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	84	XRHW	
(0)	ADDRESS	4	XRHWNEXT	Chain (when free)
(0)	BIT(16)	2	XRHWFLG	Flags (when in use)
(0)	1...		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 823.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XRHG	
(0)	CHARACTER	8	XRHGP	Prefix
(0)	HALFWORD	2	XRHGLTH	Total length of entry
(2)	BIT(16)	2	XRHGFLG	Flags
(2)	1...		XRHGFALT	- created when alt.
(4)	CHARACTER	4	XRHGDOMI	Domain id
(8)	CHARACTER	*	XRHGDATA	Data

Table 824.

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 TS (XRF) Static Storage Definition
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985, 1990
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 825.

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)

Table 825. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(14)	ADDRESS	4	XRSAXRS2	- A(status data - alt 2)
(18)	ADDRESS	4	XRSAXRHD	- A(health data)
... DFHXRB / DFHXRSP communication area ...				
(1C)	CHARACTER	4	XRSW	DFHXRB / DFHXRSP comm area
(1C)	ADDRESS	4	XRSWECHN	- work element queue
... Event Control Blocks ...				
(20)	CHARACTER	16	XRSTI	Takeover Initiated
(20)	CHARACTER	4	XRSTIPFX	- eye catcher
(24)	CHARACTER	4	XRSTIECB	- TI ECB (CICS posted)
(24)	1...		*	Reserved
(24)	.1..		XRSTIWT	- wait/post bit
(24)	BIT(22) POS(3)	3	*	Reserved
(27)	BIT(8)	1	XRSTIRC	- return code
(28)	CHARACTER	8	XRSTITOD	- time TI ECB posted
(30)	CHARACTER	16	XRSIA	Incipient Active
(30)	CHARACTER	4	XRSIAPFX	- eye catcher
(34)	CHARACTER	4	XRSIAECB	- IA ECB (CICS posted)
(34)	1...		*	Reserved
(34)	.1..		XRSIAWT	- wait/post bit
(34)	BIT(22) POS(3)	3	*	Reserved
(37)	BIT(8)	1	XRSIARC	- return code
(38)	CHARACTER	8	XRSIATOD	- time IA ECB posted
(40)	CHARACTER	16	XRSTC	Takeover Completed
(40)	CHARACTER	4	XRSTCPFX	- eye catcher
(44)	CHARACTER	4	XRSTCECB	- TC ECB (CICS posted)
(44)	1...		*	Reserved
(44)	.1..		XRSTCWT	- wait/post bit
(44)	BIT(22) POS(3)	3	*	Reserved
(47)	BIT(8)	1	XRSTCRC	- return code
(48)	CHARACTER	8	XRSTCTOD	- time TC ECB posted
(50)	CHARACTER	16	XRSRA	RSD Available
(50)	CHARACTER	4	XRSRAPFX	- eye catcher
(54)	CHARACTER	4	XRSRAECB	- RA ECB (CICS posted)
(54)	1...		*	Reserved
(54)	.1..		XRSRAWT	- wait/post bit
(54)	BIT(22) POS(3)	3	*	Reserved
(57)	BIT(8)	1	XRSRARC	- return code
(58)	CHARACTER	8	XRSRATOD	- time RA ECB posted
(60)	CHARACTER	16	XRSSS	Synchronized wrt Signoff

Table 825. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(60)	CHARACTER	4	XRSSSPFX	- eye catcher
(64)	CHARACTER	4	XRSSSECB	- SS ECB (CICS posted)
(64)	1...		*	Reserved
(64)	.1..		XRSSSWT	- wait/post bit
(64)	BIT(22) POS(3)	3	*	Reserved
(67)	BIT(8)	1	XRSSSRC	- return code
(68)	CHARACTER	8	XRSSSTOD	- time SS ECB posted
(70)	CHARACTER	16	XRSST	Synchronized wrt Termination
(70)	CHARACTER	4	XRSSTPFX	- eye catcher
(74)	CHARACTER	4	XRSSTECB	- ST ECB (CICS posted)
(74)	1...		*	Reserved
(74)	.1..		XRSSTWT	- wait/post bit
(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)
(84)	1...		*	Reserved
(84)	.1..		XRSQSWT	- wait/post bit
(84)	BIT(22) POS(3)	3	*	Reserved
(87)	BIT(8)	1	XRSQSRC	- return code
(88)	CHARACTER	8	XRSQSTOD	- time QS ECB posted
(90)	CHARACTER	16	XRSSD	Shut Down
(90)	CHARACTER	4	XRSSDPFX	- eye catcher
(94)	CHARACTER	4	XRSSDECB	- SD ECB (CICS posted)
(94)	1...		*	Reserved
(94)	.1..		XRSSDWT	- wait/post bit
(94)	BIT(22) POS(3)	3	*	Reserved
(97)	BIT(8)	1	XRSSDRC	- return code
(98)	CHARACTER	8	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 826.

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	* (4)	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
(50)	1...		XRSAXCFA	
(50)	.111 1111		*	Reserved
(51)	CHARACTER	3	*	Reserved
(54)	CHARACTER	0	*	force word allignment

```
DFHXRP - System Status Definition
```

Table 827.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	76	XRS#	Data for ...
(0)	CHARACTER	8	XRS#PFX	- eye catcher
(8)	FULLWORD	4	XRS#DI	- delay interval
(C)	CHARACTER	12	*	- status (wrt CAVM TCB)
(C)	FULLWORD	4	XRS#INS1	- instance number
(10)	FULLWORD	4	XRS#VER1	- version number
(14)	CHARACTER	4	*	- flags
(14)	1...		XRS#SON1	- signed on
(14)	.1..		XRS#HBO1	- heartbeat overdue
(14)	BIT(30) POS(3)	4	*	Reserved
(18)	CHARACTER	20	*	- status (wrt CICS TCB)
(18)	FULLWORD	4	XRS#INS2	- instance number
(1C)	FULLWORD	4	XRS#VER2	- version number

Table 827. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(20)	CHARACTER	8	XRS#APL2	- specific applid
(28)	CHARACTER	4	*	- flags
(28)	1...		XRS#SON2	- signed on
(28)	BIT(31) POS(2)	4	*	Reserved
(2C)	FULLWORD	4	XRS#NSON	- sign on count
(30)	CHARACTER	8	*	- Write to Operator
(30)	CHARACTER	4	XRS#ECB	- WTOR ECB (OS posted)
(30)	1...		XRS#WAIT	- wait bit
(30)	.1..		XRS#POST	- post bit
(30)	BIT(30) POS(3)	4	*	Reserved
(34)	FULLWORD	4	XRS#MID	- identification number
(38)	CHARACTER	3	XRS#AFL	- action flags
(38)	1...		XRS#HBRS	- heartbeat resumed
(38)	.1..		XRS#HBOD	- heartbeat overdue
(38)	..1.		XRS#RQTP	- request takeover - process WTOR request
(38)	...1		XRS#RQTG	- request takeover - preocess WTOR reply
(38)	.... 1...		XRS#INTK	- initiate takeover
(38)	.... .1..		XRS#PSN	- sign on
(38)	.... ..1.		XRS#PSFN	- sign off normal
(38)	1		XRS#PSFA	- sign off abnormal
(39)	1...		XRS#ATCX	- attach CXCU
(39)	BIT(15) POS(2)	2	*	Reserved
(3B)	CHARACTER	1	XRS#MFL	- action modifier flags
(3B)	1...		XRS#SONP	- sign on - pending
(3B)	.1..		XRS#SOFI	- sign off - implicit
(3B)	..1.		XRS#ATER	- attach CXCU failed
(3B)	...1		XRS#6X16	- heartbeat overdue
(3B)	...1		XRS#6416	- message DFH6416
(3B)	...1		XRS#6516	- message DFH6516
(3B)	.... 1...		XRS#6X18	- request takeover
(3B)	.... 1...		XRS#6418	- message DFH6418
(3B)	.... 1...		XRS#6518	- message DFH6518
(3B)	.... .1..		XRS#DUMP	- request dump
(3B)	11		*	Reserved
(3C)	CHARACTER	16	*	- TOD clock difference
(3C)	CHARACTER	8	*	- wrt CAVM TCB
(3C)	FULLWORD	4	XRS#LBD1	- lower bound
(40)	FULLWORD	4	XRS#UBD1	- upper bound

Table 827. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(44)	CHARACTER	8	*	- wrt CICS TCB
(44)	FULLWORD	4	XRS#LBD2	- lower bound
(48)	FULLWORD	4	XRS#UBD2	- upper bound

Constants

Table 828.

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
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 TS (XRF) Work Element Definition
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1986, 1990
FUNCTION =
    DFHXRWPS defines the XRF work elements managed by CICS.
    XRF work elements are used to pass information from
    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 829.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	DFHXRWPS	XRP work element
(0)	FULLWORD	4	XRWETRRQ	- request - for trace
(0)	UNSIGNED	1	XRWERQ	- request
(1)	BIT(8)	1	XRWERQM	- request modifier
(1)	1...		XRWERQIM	- implicit request
(1)	.1..		XRWERQDU	- DUMP=YES specified
(1)	..1.		XRWERQMD	- MVS system gone
(1)	...1 1111		*	Reserved
(2)	BIT(16)	2	*	Reserved
(4)	ADDRESS	4	XRWECHN	- A(next work element)
(8)	ADDRESS	4	XRWEASD	- A(system status data)
(C)	FULLWORD	4	XRWEINS	- instance number
(10)	FULLWORD	4	XRWEVER	- version number
(14)	CHARACTER	8	XRWEAPL	- specific applid
(14)	FULLWORD	4	XRWELBD	- TOD clock - lower bound
(14)	FULLWORD	4	XRWEHBL	- #(secs heartbeat late)
(14)	FULLWORD	4	XRWEABC	- abend code (ex CAVM)
(18)	FULLWORD	4	XRWEUBD	- TOD clock - upper bound

Constants

Table 830.

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

Table 830. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	10	XRWEHBRS	- heartbeat resumed
1	DECIMAL	15	XRWERQTK	- request takeover
1	DECIMAL	16	XRWEICPA	- incipient active
1	DECIMAL	17	XRWEACTV	- active
1	DECIMAL	18	XRWECKAS	- TOD clock wrt signoff
1	DECIMAL	19	XRWECKAT	- TOD clock wrt termination
1	DECIMAL	24	XRWEFAIL	- CAVM failure
1	DECIMAL	25	XRWEINVL	- invalidated

ATD - Attach table

```
CONTROL BLOCK NAME = DFHXTSPS
DESCRIPTIVE NAME = CICS TS (TERMSHR) TRANSFORMER
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1986, 2010
FUNCTION =
     DSECT for PLAS callers of 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 831.

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 831. (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
(38)	1...		XTSRELSE	CTRL=RELEASE, OVERLAYS TITLE
(38)	.1..		XTSWBCUR	WRBRK=CURRENT, EQU MCRWBCUR.
(38)	..1.		XTSWBALL	WRBRK=ALL, EQU MCRWBALL.
(38)	...1		XTSEODOP	EODPURG=OPER, EQU MCREODOP.
(38)	.... 1...		XTSPAGE	CTRL=PAGING, EQU MCRPAGE.
(38)	.... .1..		XTSAUTOP	CTRL=AUTOPAGE, EQU MCRAUTOP.
(38)	.... ..1.		*	
(38)	1		XTSRTAIN	CTRL=RETAIN, EQU MCRRTAIN.
(39)	BIT(8)	1	XTSMCFL2	MESSAGE CONTROL FLAGS 2

Table 831. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(39)	1...		*	
(39)	.1..		*	
(39)	..1.		*	
(39)	...1		*	
(39)	.... 1...		XTSSCSZ	ALTERNATE SCREEN SIZE USED, EQU MCRSCSZ.
(39)	.... .1..		*	
(39)	.... ..1.		XTSBMSSM	BMS SYSTEM MESSAGE, EQU MCRBMSSM.
(39)	1		*	
(3A)	BIT(8)	1	XTSMCTRL	FLAGS FOR TCAMSTR6
(3B)	BIT(8)	1	XTSMISC	Miscellaneous indicators
(3B)	1...		XTSTMERR	Terminal IO error
(3B)	.111 1111		*	Reserved
(3C)	CHARACTER	3	XTSOCL	OPERATOR CLASS
(3F)	CHARACTER	4	XTSSYSID	
(43)	CHARACTER	6	XTSTPOS1	COPY OF TCATPOS1 etc.
(49)	CHARACTER	2	XTSTPCON	COPY OF TCATPCON & TCATPOC3 *
(49)	CHARACTER	1	*	
(4A)	CHARACTER	1	XTSTPOC3	COPY OF TCATPOC3
(4B)	CHARACTER	1	XTSRPOS2	REQUEST SHIPPED
(4C)	BIT(8)	1	XTSTCOPC	TC OPERATION CODE
(4C)	1...		*	
(4C)	.1..		*	
(4C)	..1.		*	
(4C)	...1		XTSTCRD	TC READ
(4C)	.... 1...		*	
(4C)	.... .1..		*	
(4C)	.... ..1.		XTSTCCNV	TC CONVERSE
(4C)	1		XTSTCWRT	TC WRITE
(4D)	BIT(8)	1	XTSSTAT	TRANSFORM STATUS
(4D)	1...		XTSSTATR	REQUEST TRANSFORM
(4D)	.1..		XTSSTATA	ATTACH TRANSFORM
(4D)	..1.		XTSSTATD	DETACH TRANSFORM
(4D)	...1		XTSSTATF	FLUSH TRANSFORM
(4D)	.... 1...		*	
(4D)	.... .1..		XTSSTATO	Origin Data supported
(4D)	.... ..1.		XTSSTATT	Time-out supported
(4D)	1		XTSSTATC	Terminal-owner is cold

Table 831. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 832.

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

Table 832. (continued)

Len	Type	Value	Name	Description
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

ZCQ - Builder parameter set

Table 833.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	17	ZCBPS	Root for overlay structure
(0)	ADDRESS	4	ZCQPSPTR	Address of BPS
(4)	ADDRESS	4	BPS_BIND_IN_USE	BPS Bind in use. Set by ZCQIS.
(8)	BIT(8)	1	*	
(8)	1...		BPS_NOREPLACE	Don't replace existing version
(8)	.1..		BPS_SHIPPED_X	Definition was shipped.
(8)	..11 1...		BPS_TYPE_BITS	
(8)	..1.		BPS_CONN	Connection definition
(8)	...1		BPS_SESS	Session definition
(8)	.... 1...		BPS_POOL	Pipeline definition
(8)	.... .111		*	
(9)	CHARACTER	8	BPS_ATOM_ID	Related set of recoverable

BPSes

Table 834.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	10	DFHZCQPS	BPS
(0)	ADDRESS	4	BPS_FORWARD_PTR	Next in chain, if any.
(4)	HALFWORD	2	BPS_LENGTH	Length of whole structure.
(6)	UNSIGNED	1	BPS_RTC	Resource Type Code.
(7)	UNSIGNED	1	BPS_SUBTYPE	Subtype.
(8)	UNSIGNED	1	BPS_OVERLAY_ID	Overlay Check Key.
(9)	BIT(8)	1	*	
(9)	1...		BPS_TRACE_YES_X	Trace this BPS
(A)	CHARACTER	0	ZCQPSOVL	Location of overlays.

The existence bits define which options will be generated
in the resulting terminal.
It also indicates if further information is contained within
the fixed parameter area (BPS_FIXED_VARS).

Table 835.

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 836.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BPS_FIXED_VARS	BPS Fixed Variables
(0)	UNSIGNED	2	ZCQPSFVL	Length of fixed-len parms.
(2)	CHARACTER	*	ZCQPSFVA	Fixed-length parm area.

```
BIND-image. An image of the VTAM BIND
```

Table 837.

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 838.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BPS_BIND_IMAGE	Usually BASED(ADDR(BPSBINDI))
(0)	UNSIGNED	1	BPS_BIND_LENGTH	Bind Image Length
(1)	CHARACTER	25	BPS_BIND_STRING	Bind Image String
(1A)	BIT(8)	1	BPS_CRYPT	Byte 26 of BIND
(1A)	1111		*	Cryptography options
(1A)	 1111		*	Contains len(BPS_CRYPT_MODE)
(1B)	CHARACTER	*	BPS_CRYPT_MODE	Cryptography method

```
Optional BIND image fields
```

Table 839.

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 840.

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 841.

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 842.

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 843.

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 844.

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 845.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	25	ZC_EXIST_BITS	Terminal Existence Bits overlay
(0)	1...		ZC_RESERVED_1_X	Reserved
(0)	.1..		ZC_NETNAME_X	Netname Var exists
(0)	..1.		ZC_CONSLID_X	Console ID var exists
(0)	...1		ZC_RMTNAME_X	Remote Name var exists
(0)	.... 1...		ZC_SYSIDNT_X	Remote system name var exists
(0)	.... .1..		ZC_POOLPTR_X	Pipeline pool pointer exists
(0)	.... ..1.		ZC_PRINTTO_X	Printer var exists

Table 845. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	1		ZC_ALTPRINT_X	Alt printer var exists
(1)	1...		ZC_SPOOLTO_X	DOS Spooler var exists
(1)	.1..		ZC_POOLID_X	POOLID var exists
(1)	..1.		*	Reserved
(1)	...1		ZC_OPERPRI_X	Operator Priority var exists
(1)	.... 1...		*	Reserved
(1)	.... .1..		*	Reserved
(1)	.... ..1.		ZC_OPERID_X	Operator ID var exists
(1)	1		ZC_OPCLASS_X	Operator class exists
(2)	1...		ZC_NEPCLASS_X	NEP class var exists
(2)	.1..		ZC_TRANSACTION_X	Tran ID var exists
(2)	..1.		ZC_TRMPRTY_X	Terminal Priority var exists
(2)	...1		*	Reserved
(2)	.... 1...		ZC_LDC_X	LDC var exists
(2)	.... .1..		ZC_LOGMODE_X	LOGMODE var exists
(2)	.... ..1.		ZC_PGESIZE_1_X	Page size var exists
(2)	1		ZC_PGESIZE_2_X	Page size var exists
(3)	1...		ZC_ALTPGE_1_X	Alt Page size var exists
(3)	.1..		ZC_ALTPGE_2_X	Alt Page size var exists
(3)	..1.		ZC_ALTSFX_X	Alt suffix var exists
(3)	...1		ZC_TCTUAL_X	User Area Len var exists
(3)	.... 1...		ZC_CINIT_YES_X	Not used
(3)	.... .1..		ZC_APLKYBD_YES_X	APL Keyboard
(3)	.... ..1.		ZC_APLTEXT_YES_X	APL Text
(3)	1		ZC_AUDALARM_YE_X	Audible alarm
(4)	1...		ZC_COLOR_YES_X	Colour
(4)	.1..		ZC_DCKYBD_YES_X	DC keyboard
(4)	..1.		ZC_EXTDS_YES_X	3270 extended data stream
(4)	...1		ZC_HILIGHT_YES_X	High light
(4)	.... 1...		ZC_KATAKANA_YE_X	Katakana keyboard
(4)	.... .1..		ZC_MSRCNTRL_YE_X	Magnetic slot reader
(4)	.... ..1.		ZC_OBFMT_YES_X	OB format
(4)	1		ZC_PARTNS_YES_X	Partition support
(5)	1...		ZC_PTRADAPT_YE_X	Print adaptor
(5)	.1..		ZC_PS_YES_X	Prog Symb
(5)	..1.		ZC_SELCTPEN_YE_X	Select Pen
(5)	...1		ZC_VALIDATI_YE_X	Validate
(5)	.... 1...		ZC_HF_YES_X	Horizontal form
(5)	.... .1..		ZC_VF_YES_X	Vertical form
(5)	.... ..1.		ZC_FF_YES_X	Form Feed

Table 845. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5)	1		ZC_FMHPARM_YES_X	BMS FMH parms
(6)	1...		ZC_AUTOPAGE_YE_X	Autopage
(6)	.1..		ZC_ERRLASTL_YE_X	Error last line
(6)	..1.		ZC_ERRINTEN_YE_X	Error intensify
(6)	...1		ZC_ERRCOLOR_BL_X	Error colour blue
(6)	.... 1...		ZC_ERRCOLOR_RE_X	Error colour red
(6)	.... .1..		ZC_ERRCOLOR_PI_X	Error colour pink
(6)	.... ..1.		ZC_ERRCOLOR_GR_X	Error colour green
(6)	1		ZC_ERRCOLOR_TU_X	Error colour turquoise
(7)	1...		ZC_ERRCOLOR_YE_X	Error colour yellow
(7)	.1..		ZC_ERRCOLOR_NE_X	Error colour neutral
(7)	..1.		ZC_ERRHILIG_BL_X	Error hilight blue
(7)	...1		ZC_ERRHILIG_RE_X	Error hilight red
(7)	.... 1...		ZC_ERRHILIG_UN_X	Error hilight underline
(7)	.... .1..		ZC_ATI_YES_X	ATI allowed
(7)	.... ..1.		ZC_TTI_YES_X	TTI allowed
(7)	1		ZC_INTLOG_YES_X	Create sess
(8)	1...		ZC_OUTSERVI_YE_X	Out of service
(8)	.1..		ZC_INPUT_YES_X	Input only term
(8)	..1.		ZC_RELREQ_YES_X	Relreq
(8)	...1		ZC_DISCONNE_YE_X	Disconnect
(8)	.... 1...		ZC_ROUTE_NOTAL_X	Route DMS SP
(8)	.... .1..		ZC_ROUTE_NEVER_X	Route DMS NO
(8)	.... ..1.		ZC_GMMSG_YES_X	Logon Message
(8)	1		ZC_PRINT_YES_X	Print
(9)	1...		ZC_CHNASSY_YES_X	Chain assembly
(9)	.1..		ZC_UCTRAN_YES_X	Upper case translate
(9)	..1.		ZC_3270E_YES_X	3270 E
(9)	...1		ZC_TEXTKYBD_YE_X	Text keyboard
(9)	.... 1...		ZC_TEXTPRIN_YE_X	Text print
(9)	.... .1..		ZC_CONNAUTO_YE_X	Auto connect
(9)	.... ..1.		ZC_IOAREALEN_X	IO area len
(9)	1		ZC_CHAINMAX_X	Chain max
(A)	1...		ZC_PARS_LU6_X	Parallel sess LU61
(A)	.1..		ZC_PARS_LUC_X	Parellel sess LU62
(A)	..1.		ZC_QUERY_COLD_X	Query cold
(A)	...1		ZC_QUERY_ALL_X	Query all
(A)	.... 1...		ZC_COPY_YES_X	3270 copy
(A)	.... .1..		ZC_ACOPY_YES_X	3270 copy alt
(A)	.... ..1.		ZC_PREBIND_SCR_X	Pre bind

Table 845. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A)	1		ZC_AUTOPAGE_NO_X	BMS Autopage
(B)	1...		ZC_CGCSGID_1_X	Graphic char set var exists
(B)	.1..		ZC_CGCSGID_2_X	Graphic char set var exists
(B)	..1.		ZC_OBOPERID_YE_X	Outboard op id
(B)	...1		ZC_SHIPPABL_YE_X	Shippable
(B)	.... 1...		ZC_SIGNOFF_YES_X	Signoff at timeout
(B)	.... .1..		ZC_PRINTERTYPE_X	Printer type
(B)	.... ..1.		ZC_SPOOLDEST_X	Dos spool dest
(B)	1		ZC_SIGNOFF_LOG_X	Logoff at timeout
(C)	1...		ZC_XSNAME_X	Security name var exists
(C)	.1..		ZC_USEDFLTU_YE_X	Use default user
(C)	..1.		ZC_NETNAMEQ_X	Netname Q
(C)	...1		ZC_MAXSESS_1_X	Max sessions var exists
(C)	.... 1...		ZC_MAXSESS_2_X	Max sessions var exists
(C)	.... .1..		ZC_SYSTEM_PTR_X	Pointer not name supplied
(C)	.... ..1.		ZC_SOLMESS_YES_X	Solicit messages
(C)	1		*	Reserved
(D)	1...		*	Reserved
(D)	.1..		ZC_CONNAUTO_AL_X	Auto connect all
(D)	..1.		ZC_SESSNAME_X	Session name
(D)	...1		ZC_LUSM_YES_X	LU Serv manager session
(D)	.... 1...		ZC_MODENAME_X	Mode name var exists
(D)	.... .1..		ZC_POOLCNT_X	Pool count var exists
(D)	.... ..1.		ZC_PARS_YES_X	Parellel session
(D)	1		ZC_ATTACHSE_LO_X	Attach security local
(E)	1...		ZC_ATTACHSE_ID_X	Attach security ID
(E)	.1..		ZC_ATTACHSE_VE_X	Attach security verify
(E)	..1.		*	Reserved
(E)	...1		ZC_TRANSIENT_X	Autoinstalled terminal
(E)	.... 1...		ZC_TASKLIMIT_X	Pipe line task limit
(E)	.... .1..		ZC_BACKTRAN_YE_X	Background transparency
(E)	.... ..1.		ZC_SOSI_YES_X	Ebcdic and d.byte char set
(E)	1		ZC_OUTLINE_YES_X	Outline supported
(F)	1...		ZC_RECOVOPT_SY_X	RecovOption = System Default
(F)	.1..		ZC_RECOVOPT_CL_X	RecovOption = Clear Conv.
(F)	..1.		ZC_RECOVOPT_RE_X	RecovOption = Release Session
(F)	...1		ZC_RECOVOPT_RS_X	RecovOption = Restart Session
(F)	.... 1...		ZC_RECOVOPT_NO_X	RecovOption = None

Table 845. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(F)	.... .1..		ZC_RECOVNOT_NO_X	RecovNotify = None
(F)	.... ..1.		ZC_RECOVNOT_ME_X	RecovNotify = Message
(F)	1		ZC_RECOVNOT_TR_X	RecovNotify = Transaction
(10)	1...		ZC_NATLANG_X	National Language exists
(10)	.1..		ZC_RSTSIGNO_FO_X	XRF/PS signoff = force =>1
(10)	..1.		ZC_3270COMP_X	3270 compatibility bits
(10)	...1		ZC_LUTYPE2_X	Indicate DEVICE=LUTYPE2
(10)	.... 1...		ZC_UCTRAN_TRAN_X	UC translate tranid
(10)	BIT(6) POS(6)	2	ZC_RESERVED_311	Reserved
(11)	...1		ZC_PRT_NETNAME_X	MTS printer netname
(11)	.... 1...		ZC_APRT_NETNAME_X	MTS ALTPRT netname
(11)	.... .1..		ZC_CONSNAME_X	Console name exists
(11)	.... ..1.		ZC_BINDSECU_YE_X	Bind security on
(11)	1		ZC_BINDSECU_NO_X	Bind security off
(12)	1...		ZC_ATTACHSE_PE_X	Attach security Persistent
(12)	.1..		ZC_ATTACHSE_MI_X	Attach security Mixed
(12)	..11 1...		ZC_RESERVED_320	Reserved
(12)	BIT(4) POS(6)	2	ZC_RESERVED_330	Reserved
(13)	.1..		ZC_PROTOCOL_EX_X	PROTOCOL=EXCI
(13)	..1.		ZC_SENDCOUNT_X	Session SENDCOUNT supplied
(13)	...1		ZC_RECEIVECOUN_X	Session RECEIVECOUNT
(13)	.... 1...		ZC_CLONE_X	APPC clone session
(13)	BIT(5) POS(6)	2	*	Reserved
(14)	..1.		ZC_USE_MRO_BITMAP_X	Session for MRO BITMAP
(14)	...1		ZC_TITOKEN_YES_X	token present
(14)	BIT(5) POS(5)	2	ZC_RESERVED_DEV	Reserved for rel 510
(15)	.1..		ZC_CATLG_NO_X	Session not catalogued
(15)	..1.		ZC_TOR_NETNAME_X	TOR netname provided
(15)	...1		ZC_VIRTUAL_TERMINAL_X	Virtual Terminal
(15)	.... 1...		ZC_BRACKET_NO_X	Bracket(No)
(15)	BIT(5) POS(6)	2	ZC_RESERVED_510	Reserved for rel 510
(16)	BIT(8) POS(3)	2	ZC_RESERVED_130	Reserved for rel 1.3
(17)	BIT(8) POS(3)	2	ZC_RESERVED_200	Reserved for rel 2.0

Fixed Length Variables for Terminals

Table 846.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	257	ZC_FIXED_VARS	Terminal Variable fields overlay
(0)	CHARACTER	4	ZC_TERMINAL	Terminal ID

Table 846. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	CHARACTER	8	ZC_NETNAME	Netname
(C)	FULLWORD	4	ZC_CONSLID	Console ID
(10)	CHARACTER	4	ZC_RMTNAME	Remote name
(14)	CHARACTER	4	ZC_SYSIDNT	Connection ID
(18)	CHARACTER	4	ZC_PRINTTO	Printer name
(1C)	CHARACTER	4	ZC_ALTPRINT	Alt printer name
(20)	CHARACTER	4	ZC_SPOOLTO_OLD	Old DOS spooler ID
(24)	CHARACTER	8	ZC_POOLID	Pool ID
(24)	ADDRESS	4	ZC_POOLPTR	Pool Pointer
(2C)	UNSIGNED	1	ZC_OPERPRI	Operator priority
(2D)	BIT(24)	3	*	Reserved
(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 (4)	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

Table 846. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(A1)	CHARACTER	8	ZC_NETNAMEQ	Netname queue
(A9)	CHARACTER	3	*	Reserved
(AC)	FULLWORD	4	ZC_MAXSESS_1	Max sessions
(B0)	FULLWORD	4	ZC_MAXSESS_2	Max sessions
(B4)	CHARACTER	8	ZC_XSNAME	Security name
(BC)	FULLWORD	4	ZC_POOLCNT	Pool count
(C0)	FULLWORD	4	ZC_MAXSESSCOUNT	Max session count
(C4)	CHARACTER	8	ZC_TITOKEN	Terminal token
(CC)	CHARACTER	8	ZC_MODENAME	Mode group name
(D4)	CHARACTER	8	ZC_SPOOLTO	DOS SPOOLTO name
(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 847.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	ZX_EXIST_BITS	Connection Existence bits overlay
(0)	1...		*	Reserved
(0)	.1..		ZX_NETNAME_X	Connection netname var exists
(0)	..1.		ZX_XSNAME_X	Security name var exists
(0)	...1		ZX_USEDFLTU_YE_X	Use default user
(0)	.... 1...		ZX_CONNAUTO_YE_X	Auto connect
(0)	.... .1..		ZX_ATTACHSE_LO_X	Attach security local
(0)	.... ..1.		ZX_ATTACHSE_VE_X	Attach security verify
(0)	1		ZX_DATASTR_USE_X	Data stream user
(1)	1...		ZX_DATASTR_327_X	Data stream 3270
(1)	.1..		ZX_DATASTR_SCS_X	Data stream SCS
(1)	..1.		ZX_DATASTR_STR_X	Data stream STR field
(1)	...1		ZX_DATASTR_LMS_X	Data stream LMS
(1)	.... 1...		ZX_RECFM_U_X	RECFM Undefined

Table 847. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	.... .1..		ZX_RECFM_VB_X	RECFM Variable blocked
(1)	.... ..1.		ZX_CONNAUTO_AL_X	Autoconnect all
(1)	1		ZX_OUTSERVI_YE_X	Out of service
(2)	1...		ZX_TRANSACTION_X	Transaction ID var exists
(2)	.1..		ZX_INTLOG_YES_X	Intlog
(2)	..1.		ZX_ACCMETH_XM_X	Cross Memory access method
(2)	...1		ZX_ATTACHSE_ID_X	Attach security ID
(2)	.... 1...		*	Reserved
(2)	.... .1..		ZX_TRANSIENT_X	Autoinstalled connection
(2)	.... ..1.		ZX_RMTNAME_X	Remote name
(2)	1		ZX_RMTSYSN_X	Remote system
(3)	1...		ZX_BINDSECU_YE_X	Bind security on
(3)	.1..		ZX_BINDSECU_NO_X	Bind security off
(3)	..1.		ZX_ATTACHSE_PE_X	Attach security Persistent
(3)	...1		ZX_ATTACHSE_MI_X	Attach security Mixed
(3)	BIT(8) POS(5)	2	ZX_RESERVED_3XX	Reserved for rel 3.
(4)	.... 1...		ZX_PROTOCOL_EX_X	PROTOCOL=EXCI
(4)	.... .1..		ZX_QUEUELIM_X	Allocate queuelimit
(4)	.... ..1.		ZX_PSRECOVE_SY_X	PSRECOVERY = Sysdefault
(4)	1		ZX_PSRECOVE_NO_X	PSRECOVERY = None
(5)	1...		ZX_SENDCOUNT_X	Session SENDCOUNT supplied
(5)	.1..		ZX_RECEIVECOUN_X	Session RECEIVECOUNT
(5)	..1.		ZX_CLONE_X	APPC clone
(5)	...1		ZX_MAXQTIME_X	Allocate queue time
(5)	BIT(5) POS(5)	2	*	Reserved
(6)	.1..		ZX_RMTSYSNET_X	Netname of TOR
(6)	..1.		ZX_TITOKEN_YES_X	token present
(6)	...1 1111		ZX_RESERVED_410	Reserved for rel 410
(7)	1...		ZX_GR_X	Both sides GR registered
(7)	.1..		ZX_GRNAME_CONN_X	On = GR name connection
Off = member name conn.				
(7)	..1.		ZX_USE_OUR_MEM_X	Partner used our membername
(7)	...1		ZX_NETID_X	Network name present
(7)	.... 1...		ZX_NETNAME2_X	GR or member name present
(7)	.... .1..		ZX_CATLG_NO_X	Connection not catalogued
(7)	.... ..1.		ZX_DELETE_X	AI implicitly deletable
(7)	1		ZX_XLNACTIO_FO_X	XLNaction(force)

Table 847. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 848.

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
(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

Table 848. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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 849.

Len	Type	Value	Name	Description
4	DECIMAL	25	$PSXBLC	
4	DECIMAL	12	$PSXBLX	
4	DECIMAL	257	$PSFVLC	
4	DECIMAL	150	$PSFVLX	
4	DECIMAL	576	BPS_C_MAXSIZE	
4	DECIMAL	200	BPS_X_MAXSIZE	

ZEPD - TCP modules address list

```
CONTROL BLOCK NAME = DFHZEPD
NAME OF MATCHING PLS CONTROL BLOCK = None
DESCRIPTIVE NAME = CICS TS TCP Modules Address List.
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1981, 1994
 PN= REASON REL YYMMDD HDXIII : REMARKS
```

Table 850.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHZEPD	TCP MODULES ADDR LIST DSECT
(0)	ADDRESS	4	DFHZTDNA	00 TCP dispatcher entry address
(4)	ADDRESS	4	DFHZRWNA	01 APPL R/W request entry
(8)	ADDRESS	4	DFHZTSNA	02 Locate TCP service entry *
STANDARD NAMES FOR MODULES				
(0)	ADDRESS	4	DFHZDSPA	00 Dispatch module address
(4)	ADDRESS	4	DFHZARQA	01 READ/WRITE module address
(8)	ADDRESS	4	DFHZLOCA	02 LOCATE TCP module address

Table 850. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
RESERVED EXTRA SPACE FOR NON-VTAM TCT				
(4C)	.1.1		ZEPDLENC	"*-DFHZEPD"
(50)	ADDRESS	4	DFHZRACA	14 Receive any module address
(54)	ADDRESS	4	DFHZRSTA	15 RESETSR module address
(58)	ADDRESS	4	DFHZRVSA	16 Receive specific module address
(5C)	ADDRESS	4	DFHZRVXA	17 Receive specific exit module address
(60)	ADDRESS	4	DFHZSDSA	18 Send normal module address

Table 850. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 850. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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

Table 850. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(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
(158)	ADDRESS	4	DFHZUSRA	56 LU6.2 Conversation state
(15C)	ADDRESS	4	DFHZDSTA	57 SNA-ASCII Translation module
(160)	ADDRESS	4	DFHZEV1A	58 Encryption validation 1
(164)	ADDRESS	4	DFHZEV2A	59 Encryption validation 2
(168)	ADDRESS	4		5A Reserved
(16C)	ADDRESS	4		5B Reserved
(170)	ADDRESS	4		5C Reserved
(174)	ADDRESS	4		5D Reserved
(178)	ADDRESS	4	DFHZXRCA	5E XRF terminal recovery
(17C)	ADDRESS	4		5F Reserved
(180)	ADDRESS	4	DFHZXRLA	60 LU6.2 Transaction Routing
(184)	ADDRESS	4	DFHZINTA	61 Initialisation Module
(188)	ADDRESS	4		62 Reserved
(18C)	ADDRESS	4	DFHZSTAA	63 LU6.2 Application State
(190)	ADDRESS	4	DFHZRLPA	64 LU6.2 RECV post-vtam module
(194)	ADDRESS	4	DFHZCRTA	65 LU6.2 RPL_B state
(198)	ADDRESS	4	DFHZRASA	66 LU 6.2 flooding module
(19C)	ADDRESS	4	DFHZXPSA	67 PRSS APPC recovery
`If you add extra modules at this point dont forget to change DFHSIF1 MODLMAX field. Also add them in pairs because of the double word boundary below.`				
(1A0)	DBL WORD	8	(0)	
(1A0)		0	ZEPDLEN	"*-DFHZEPD" Total length
(1A0)		0	ZEPDLENV	"ZEPDLEN-ZEPDLENC" VTAM length

ZGDC - Domain subroutine equates

Constants

Table 851.

Len	Type	Value	Name	Description

``
  ==
    CONTROL BLOCK NAME = DFHZGDCC
    DESCRIPTIVE NAME = CICS TS ZC domain subroutine constants
         Licensed Materials - Property of IBM
          Restricted Materials of IBM
         5655-Y04
         (C) Copyright IBM Corp. 1992, 2005
    STATUS = 7.1.0
    FUNCTION =
         To contain constants in use by ZG domain subroutines
         such as trace point IDs and recovery routine constants.
    LIFETIME =
    STORAGE CLASS =
    INNER CONTROL BLOCKS =
    NOTES :
     DEPENDENCIES = S/370
     RESTRICTIONS =
     MODULE TYPE = Control block definition
     PROCESSOR = PL/X
   -- 	
    EXTERNAL REFERENCES =
      DATA AREAS =
      CONTROL BLOCKS =
      GLOBAL VARIABLES (Macro pass) =
   -- 	
  ==
  ==
    Trace point identifiers
  ==
``				

DFHZCN1				
2	HEX	3000	TID_ZCN1_ENTRY	
2	HEX	3001	TID_ZCN1_EXIT	
2	HEX	3002	TID_ZCN1_INVALID_ FUNCTION	
2	HEX	3003	TID_ZCN1_PROTOCOL_ VIOLATION	
2	HEX	3004	TID_ZCN1_DATA_LENGTH_ ERROR	
2	HEX	3005	TID_ZCN1_ZCN2_INSTALL_ ERROR	
2	HEX	3006	TID_ZCN1_ZCN2_ UNINSTALL_ERROR	
2	HEX	3007	TID_ZCN1_DISASTER	
2	HEX	3008	TID_ZCN1_INVALID_ START_TYPE	
2	HEX	300A	TID_ZCN1_INSTALL_ CANCELLED	
2	HEX	300B	TID_ZCN1_INVALID_ VERSION	
2	HEX	300C	TID_ZCN1_INVALID_ PRINC_FAC	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	300D	TID_ZCN1_INVALID_GROUP	
2	HEX	300E	TID_ZCN1_INVALID_DATA	
2	HEX	300F	TID_ZCN1_NO_CODEPAGE	
2	HEX	3040	TID_ZCN1_NO_ CAPABILITIES	
2	HEX	3041	TID_ZCN1_CCIN_REMOTE	
2	HEX	3042	TID_ZCN1_COND_ENQ_ FAILED	
DFHZCN2				
2	HEX	3010	TID_ZCN2_ENTRY	
2	HEX	3011	TID_ZCN2_EXIT	
2	HEX	3014	TID_ZCN2_INVALID_ FUNCTION	
2	HEX	3016	TID_ZCN2_RECOVERY_ ENTERED	
2	HEX	3017	TID_ZCN2_ACQ_PROG_ FAILED	
2	HEX	3018	TID_ZCN2_CDTS_ATTACH_ FAILED	
2	HEX	3019	TID_ZCN2_CDTS_TIMEOUT	
2	HEX	301A	TID_ZCN2_INVALID_CAPS	
2	HEX	301C	TID_ZCN2_DEL_SURROG_ BUSY	
DFHZCT1				
2	HEX	3020	TID_ZCT1_ENTRY	
2	HEX	3021	TID_ZCT1_EXIT	
2	HEX	3022	TID_ZCT1_RECEIVE_ FAILED	
2	HEX	3023	TID_ZCT1_INPUT_DATA	
2	HEX	3024	TID_ZCT1_NOT_CLIENT	
2	HEX	3025	TID_ZCT1_CITS_ATTACH_ FAILED	
2	HEX	3026	TID_ZCT1_DUP_FOUND	
2	HEX	3027	TID_ZCT1_CITS_TIMEOUT	
2	HEX	3028	TID_ZCT1_CDTS_ATTACH_ FAILED	
2	HEX	3029	TID_ZCT1_CDTS_TIMEOUT	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	302A	TID_ZCT1_INVALID_ START_TYPE	
2	HEX	302B	TID_ZCT1_INVALID_SYNC_ LEVEL	
2	HEX	302C	TID_ZCT1_LOGIC_ERROR	
2	HEX	302D	TID_ZCT1_DATA_LENGTH_ ERROR	
2	HEX	302E	TID_ZCT1_INS_SURROG_ BUSY	
2	HEX	302F	TID_ZCT1_DEL_SURROG_ BUSY	
2	HEX	3030	TID_ZCT1_CITS_ABEND	
2	HEX	3031	TID_ZCT1_GET_BPS_ FAILED	
2	HEX	3032	TID_ZCT1_INVALID_ PRINC_FAC	
2	HEX	3033	TID_ZCT1_INVALID_DATA	
2	HEX	3034	TID_ZCT1_INVALID_ FUNCTION	
2	HEX	3035	TID_ZCT1_INVALID_ CODEPAGE	
2	HEX	3036	TID_ZCT1_WRONG_VERSION	
2	HEX	3037	TID_ZCT1_NETNAME_ MISSING	
2	HEX	3038	TID_ZCT1_CODEPAGE_ CONVERSION_F	
2	HEX	3039	TID_ZCT1_CTIN_REMOTE	
DFHCCNV3				
2	HEX	3050	TID_CCNV3_CHK_CL_CP_ ENTRY	
2	HEX	3051	TID_CCNV3_CHK_CL_CP_ EXIT	
2	HEX	3052	TID_CCNV3_CHK_CONV_ SUP_ENTRY	
2	HEX	3053	TID_CCNV3_CHK_CONV_ SUP_EXIT	
2	HEX	3054	TID_CCNV3_ENTRY	
2	HEX	3055	TID_CCNV3_EXIT	
2	HEX	3056	TID_CCNV3_INV_FUNCTION	
2	HEX	3057	TID_CCNV3_3270_ENTRY	
2	HEX	3058	TID_CCNV3_DS3270_ENTRY	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	3059	TID_CCNV3_DS3270_EXIT	
2	HEX	305A	TID_CCNV3_3270_EXIT	
2	HEX	305B	TID_CCNV3_3270_LEN_ ZERO	
2	HEX	305C	TID_CCNV3_BAD_TARGET	
2	HEX	305D	TID_CCNV3_TOKEN_CKR_ BAD	
2	HEX	305E	TID_CCNV3_TOKEN_CLX_ BAD	
2	HEX	305F	TID_CCNV3_TOKEN_SRX_ BAD	
2	HEX	3060	TID_CCNV3_SBCSTOK_ CHAR_BAD	
2	HEX	3061	TID_CCNV3_3270_SBA_BAD	
2	HEX	3062	TID_CCNV3_3270_SF_BAD	
2	HEX	3063	TID_CCNV3_3270_SFEMF_ BAD	
2	HEX	3064	TID_CCNV3_3270_SA_BAD	
2	HEX	3065	TID_CCNV3_3270_RA_BAD	
2	HEX	3066	TID_CCNV3_3270_GE_ UNSUP	
2	HEX	3067	TID_CCNV3_3270_EUA_BAD	
2	HEX	3068	TID_CCNV3_AID3270_ ENTRY	
2	HEX	3069	TID_CCNV3_AID3270_EXIT	
2	HEX	306A	TID_CCNV3_BAD_AID_ TARGET	
2	HEX	306B	TID_CCNV3_FREE_CONV_ TOKEN_ENTRY	
2	HEX	306C	TID_CCNV3_FREE_CONV_ TOKEN_EXIT	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	306D	TID_CCNV3_GETMAIN_ FAILURE	
2	HEX	306E	TID_CCNV3_FREEMAIN_ FAILURE	
2	HEX	306F	TID_CCNV3_SBA_TOO_HIGH	
2	HEX	3070	TID_CCNV3_DBCS_MAP_ BEFORE	
2	HEX	3071	TID_CCNV3_DBCS_MAP_ AFTER	
2	HEX	3072	TID_CCNV3_GET_CONV_ TOKEN_ENTRY	
2	HEX	3073	TID_CCNV3_GET_CONV_ TOKEN_EXIT	
2	HEX	3074	TID_CCNV3_TOKEN_ADDR_ BAD	
2	HEX	3075	TID_CCNV3_3270_CONV_ LEN_ZERO	
DFHZGAI				
2	HEX	FA00	TID_ZGAI_ENTRY	
2	HEX	FA01	TID_ZGAI_EXIT	
2	HEX	FA02	TID_ZGAI_INVALID_ FORMAT	
2	HEX	FA03	TID_ZGAI_INVALID_ FUNCTION	
2	HEX	FA04	TID_ZGAI_RECOVERY_ ENTERED	
2	HEX	FA05	TID_ZGAI_USEREXIT_ ENTRY	
2	HEX	FA06	TID_ZGAI_USEREXIT_EXIT	
2	HEX	FA07	TID_ZGAI_USER_VETOED	
2	HEX	FA08	TID_ZGAI_NO_TEMPLATE_ SUPPLIED	
2	HEX	FA09	TID_ZGAI_SYSID_INVALID	
2	HEX	FA0A	TID_ZGAI_SYSID_ ALREADY_EXISTS	
2	HEX	FA0B	TID_ZGAI_TEMPLATEN_ NOT_FOUND	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FA0C	TID_ZGAI_TEMPLATES_ NOT_FOUND	
2	HEX	FA0D	TID_ZGAI_NOT_APPC_ TEMPLATE	
2	HEX	FA0E	TID_ZGAI_TEMPLATE_NOT_ PS	
2	HEX	FA0F	TID_ZGAI_TEMPLATE_NOT_ SS	
2	HEX	FA10	TID_ZGAI_MODENAME_ MISMATCH	
2	HEX	FA11	TID_ZGAI_SYSID_ INQUIRE_FAILED	
2	HEX	FA12	TID_ZGAI_SESSION_ INQUIRE_FAILED	
2	HEX	FA13	TID_ZGAI_TEMPLATE_NO_ MODEGROUP	
2	HEX	FA14	TID_ZGAI_OUT_OF_ SERVICE	
2	HEX	FA15	TID_ZGAI_BINDUD_ PLUNAME_MISSING	
2	HEX	FA16	TID_ZGAI_BINDUD_ MODENAME_MISSING	
2	HEX	FA18	TID_ZGAI_SESSID_ MISSING	
2	HEX	FA19	TID_ZGAI_PLUNAME_ MISSING	
2	HEX	FA1A	TID_ZGAI_PLU_EQ_SLU	
2	HEX	FA1B	TID_ZGAI_SEED_EXPECTED	
2	HEX	FA1C	TID_ZGAI_SEED_LONG	
2	HEX	FA1D	TID_ZGAI_SEED_ UNEXPECTED	
2	HEX	FA1E	TID_ZGAI_NOT_ NEGOTIABLE	
2	HEX	FA1F	TID_ZGAI_1RY_RU_0	
2	HEX	FA20	TID_ZGAI_2RY_RU_0	
2	HEX	FA21	TID_ZGAI_ACC_SEC_ INVALID	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FA22	TID_ZGAI_SEED_AND_ NONCE	
2	HEX	FA23	TID_ZGAI_NONCE_LENGTH	
2	HEX	FA24	TID_ZGAI_NONCE_ REQUIRED	
2	HEX	FA25	TID_ZGAI_MECHANISM_ SHORT	
2	HEX	FA26	TID_ZGAI_NO_MECHANISMS	
2	HEX	FA27	TID_ZGAI_MECHANISM_ REQUIRED	
DFHZGXA				
2	HEX	FA30	TID_ZGXA_ENTRY	
2	HEX	FA31	TID_ZGXA_EXIT	
2	HEX	FA32	TID_ZGXA_INVALID_ FORMAT	
2	HEX	FA33	TID_ZGXA_INVALID_ FUNCTION	
2	HEX	FA34	TID_ZGXA_RECOVERY_ ENTERED	
2	HEX	FA35	TID_ZGXA_12F6_MISSING	
2	HEX	FA36	TID_ZGXA_12F6_LENGERR	
2	HEX	FA37	TID_ZGXA_RECEIVE_ FAILED	
2	HEX	FA38	TID_ZGXA_FF80_MISSING	
2	HEX	FA39	TID_ZGXA_FF80_LENGERR	
2	HEX	FA3A	TID_ZGXA_FF80_MECH_ID_ ERR	
2	HEX	FA3B	TID_ZGXA_FF81_MISSING	
2	HEX	FA3C	TID_ZGXA_FF81_LENGERR	
2	HEX	FA3D	TID_ZGXA_DELEG_NO_ TICKET	
2	HEX	FA3E	TID_ZGXA_FF82_LENGERR	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FA3F	TID_ZGXA_FF83_LENGERR	
2	HEX	FA40	TID_ZGXA_FF84_LENGERR	
2	HEX	FA41	TID_ZGXA_DUPLICATE_ SUBFIELD	
2	HEX	FA42	TID_ZGXA_INVALID_ SUBFIELD	
2	HEX	FA43	TID_ZGXA_TICKET_NO_ AUTH	
2	HEX	FA44	TID_ZGXA_AUTH_REQD_BY_ USER	
2	HEX	FA45	TID_ZGXA_TICKET_ MISSING	
2	HEX	FA46	TID_ZGXA_INVALID_ TICKET	
2	HEX	FA47	TID_ZGXA_SERVICE_ TICKET_EXPIRED	
2	HEX	FA48	TID_ZGXA_INVALID_ AUTHENTICATOR	
2	HEX	FA49	TID_ZGXA_SIGNON_FAILED	
2	HEX	FA4A	TID_ZGXA_FMH5_12F6_OUT	
2	HEX	FA4B	TID_ZGXA_12F6_IN	
2	HEX	FA4C	TID_ZGXA_SENDBUF_TOO_ SMALL	
2	HEX	FA4D	TID_ZGXA_SEND_FAILED	
2	HEX	FA4E	TID_ZGXA_MUTUAL_NO_ AUTH	
2	HEX	FA4F	TID_ZGXA_DAISY_CHAIN_ ERROR1	
DFHZGCH				
2	HEX	FA50	TID_ZGCH_ENTRY	
2	HEX	FA51	TID_ZGCH_EXIT	
2	HEX	FA52	TID_ZGCH_BEFORE_ CHANGE_MACRO	
2	HEX	FA53	TID_ZGCH_AFTER_CHANGE_ MACRO	
2	HEX	FA54	TID_ZGCH_CHANGE_MACRO_ FAILED	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FA55	TID_ZGCH_RECOVERY_ ENTERED	
2	HEX	FA56	TID_ZGCH_ENDAFFIN_ REJECTED	
2	HEX	FA57	TID_ZGCH_INVALID_ FORMAT	
2	HEX	FA58	TID_ZGCH_INVALID_ FUNCTION	
2	HEX	FA59	TID_ZGCH_ZGTA_FAILED	
DFHZGTI				
2	HEX	FA60	TID_ZGTI_ENTRY	
2	HEX	FA61	TID_ZGTI_EXIT	
2	HEX	FA62	TID_ZGTI_INVALID_ FORMAT	
2	HEX	FA63	TID_ZGTI_INVALID_ FUNCTION	
2	HEX	FA64	TID_ZGTI_RECOVERY_ ENTERED	
2	HEX	FA65	TID_ZGTI_TERMID_ INVALID	
2	HEX	FA66	TID_ZGTI_SYSID_INVALID	
2	HEX	FA67	TID_ZGTI_NETNAME_ INVALID	
2	HEX	FA68	TID_ZGTI_TOKEN_INVALID	
2	HEX	FA69	TID_ZGTI_TMP_ERROR	
2	HEX	FA6A	TID_ZGTI_DOMAIN_ INVALID	
2	HEX	FA6B	TID_ZGTI_INVALID_VTAM_ ONLY	
2	HEX	FA6C	TID_ZGTI_UNIQUE_ INVALID	
2	HEX	FA6D	TID_ZGTI_GETMAIN_ FAILED	
2	HEX	FA6E	TID_ZGTI_FREEMAIN_ FAILED	
2	HEX	FA6F	TID_ZGTI_PURGED	
2	HEX	FA70	TID_ZGTI_ISYSID_ INVALID	
2	HEX	FA71	TID_ZGTI_RSYSID_ INVALID	
2	HEX	FA72	TID_ZGTI_MBRNAME_ INVALID	

Table 851. (continued)

Len	Type	Value	Name	Description
DFHZGTA				
2	HEX	FA80	TID_ZGTA_ENTRY	
2	HEX	FA81	TID_ZGTA_EXIT	
2	HEX	FA82	TID_ZGTA_INVALID_ FORMAT	
2	HEX	FA83	TID_ZGTA_INVALID_ FUNCTION	
2	HEX	FA84	TID_ZGTA_RECOVERY_ ENTERED	
2	HEX	FA85	TID_ZGTA_TERMID_ INVALID	
2	HEX	FA86	TID_ZGTA_SYSID_INVALID	
2	HEX	FA87	TID_ZGTA_NETNAME_ INVALID	
2	HEX	FA88	TID_ZGTA_ISYSID_ INVALID	
2	HEX	FA89	TID_ZGTA_UNIQUE_ INVALID	
2	HEX	FA8A	TID_ZGTA_RSYSID_ INVALID	
2	HEX	FA8B	TID_ZGTA_TMP_ERROR	
2	HEX	FA8C	TID_ZGTA_DOMAIN_ INVALID	
2	HEX	FA8D	TID_ZGTA_PURGED	
2	HEX	FA8E	TID_ZGTA_ERROR	
2	HEX	FA8F	TID_ZGTA_DISASTER	
2	HEX	FA90	TID_ZGTA_INVALID_RRAB	
2	HEX	FA91	TID_ZGTA_INQ_FAILED	
2	HEX	FA92	TID_ZGTA_RDUB_GET	
2	HEX	FA93	TID_ZGTA_RDUB_FREE	
2	HEX	FA94	TID_ZGTA_INVALID_RDAB	
2	HEX	FA95	TID_ZGTA_INVALID_RDUB	
2	HEX	FA96	TID_ZGTA_UNKNOWN_RRAB_ RESP	
2	HEX	FA97	TID_ZGTA_NO_RRAB	
2	HEX	FA98	TID_ZGTA_ZGTI_ERROR	
2	HEX	FA99	TID_ZGTA_MBRNAME_ INVALID	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FA9A	TID_ZGTA_MBRNAME_ERROR	
DFHZGIN				
2	HEX	FAB0	TID_ZGIN_ENTRY	
2	HEX	FAB1	TID_ZGIN_EXIT	
2	HEX	FAB2	TID_ZGIN_BEFORE_ INQUIRE_MACRO	
2	HEX	FAB3	TID_ZGIN_AFTER_ INQUIRE_MACRO	
2	HEX	FAB4	TID_ZGIN_INQUIRE_NQN_ FAILED	
2	HEX	FAB5	TID_ZGIN_INQUIRE_ SESSNAME_FAILED	
2	HEX	FAB6	TID_ZGIN_RECOVERY_ ENTERED	
2	HEX	FAB7	TID_ZGIN_NQN_REJECTED	
2	HEX	FAB8	TID_ZGIN_SESSNAME_ REJECTED	
2	HEX	FAB9	TID_ZGIN_INVALID_ FORMAT	
2	HEX	FABA	TID_ZGIN_INVALID_ FUNCTION	
DFHZGBM				
2	HEX	FB00	TID_ZGBM_ENTRY	
2	HEX	FB01	TID_ZGBM_EXIT	
2	HEX	FB03	TID_ZGBM_INVALID_ FUNCTION	
2	HEX	FB04	TID_ZGBM_RECOVERY_ ENTERED	
2	HEX	FB05	TID_ZGBM_BITMAP_ INVALID	
2	HEX	FB06	TID_ZGBM_SESSION_NAME_ INVALID	
DFHTCRP !				
2	HEX	FB07	TID_TCRP_NO_BITMAP_STG	
2	HEX	FB08	TID_TCRP_ENTRY	
2	HEX	FB09	TID_TCRP_EXIT	
2	HEX	FB0A	TID_TCRP_RECOVERY_ ENTERED	
DFHZGRP				
2	HEX	FB10	TID_ZGRP_ENTRY	
2	HEX	FB11	TID_ZGRP_EXIT	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FB12	TID_ZGRP_QR_SWITCH_ FAILED	
2	HEX	FB13	TID_ZGRP_INQ_INSUFF_ STORAGE	
2	HEX	FB14	TID_ZGRP_RECOVERY_ ENTERED	
2	HEX	FB15	TID_ZGRP_OPNDST_ INSUFF_STORAGE	
2	HEX	FB16	TID_ZGRP_RPL_INSUFF_ STORAGE	
2	HEX	FB17	TID_ZGRP_INVALID_ FORMAT	
2	HEX	FB18	TID_ZGRP_INVALID_ FUNCTION	
2	HEX	FB19	TID_ZGRP_INVALID_ STARTUP_TYPE	
2	HEX	FB1A	TID_ZGRP_VTAM_SOS	
2	HEX	FB1B	TID_ZGRP_INQUIRE_ FAILED	
2	HEX	FB1C	TID_ZGRP_INQUIRE_ACB_ CLOSED	
2	HEX	FB1D	TID_ZGRP_OPNDST_ACB_ CLOSED	
2	HEX	FB1E	TID_ZGRP_UNBIND_ERROR	
2	HEX	FB1F	TID_ZGRP_BIND_INVALID	
2	HEX	FB20	TID_ZGRP_OPNDST_FAILED	
2	HEX	FB21	TID_ZGRP_NO_STORAGE_ OPNDST_APPC	
2	HEX	FB22	TID_ZGRP_NO_STORAGE_ OPNDST	
2	HEX	FB23	TID_ZGRP_RA_FAILED	
2	HEX	FB24	TID_ZGRP_NIB	
2	HEX	FB25	TID_ZGRP_NIB_MISMATCH	
2	HEX	FB26	TID_ZGRP_RA_GETMAIN_ FAILED	
2	HEX	FB27	TID_ZGRP_BEFORE_ INQUIRE_COUNTS	
2	HEX	FB28	TID_ZGRP_AFTER_ INQUIRE_COUNTS	
2	HEX	FB29	TID_ZGRP_BEFORE_ INQUIRE_PERSESS	
2	HEX	FB2A	TID_ZGRP_AFTER_ INQUIRE_PERSESS	
2	HEX	FB2B	TID_ZGRP_BEFORE_OPNDST	
2	HEX	FB2C	TID_ZGRP_AFTER_OPNDST	
2	HEX	FB2D	TID_ZGRP_BEFORE_RA	
2	HEX	FB2E	TID_ZGRP_AFTER_RA	
2	HEX	FB2F	TID_ZGRP_BEFORE_INQ_ EXECRPL	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FB30	TID_ZGRP_AFTER_INQ_ EXECRPL	
2	HEX	FB31	TID_ZGRP_BEFORE_OPN_ EXECRPL	
2	HEX	FB32	TID_ZGRP_AFTER_OPN_ EXECRPL	
2	HEX	FB33	TID_ZGRP_BEFORE_RA_ EXECRPL	
2	HEX	FB34	TID_ZGRP_AFTER_RA_ EXECRPL	
2	HEX	FB35	TID_ZGRP_MBRNAME_ERROR	
DFHZCGRP				
2	HEX	FB38	TID_ZCGRP_ENTRY	
2	HEX	FB39	TID_ZCGRP_EXIT	
DFHZRTP				
2	HEX	FB3A	TID_ZRTP_ENTRY	
2	HEX	FB3B	TID_ZRTP_EXIT	
2	HEX	FB3C	TID_ZRTP_CATALOG_ERROR	
2	HEX	FB3D	TID_ZRTP_INVALID_ START_TYPE	
DFHZGUB				
2	HEX	FB40	TID_ZGUB_ENTRY	
2	HEX	FB41	TID_ZGUB_EXIT	
2	HEX	FB42	TID_ZGUB_INVALID_ FORMAT	
2	HEX	FB43	TID_ZGUB_RECOVERY_ ENTERED	
2	HEX	FB44	TID_ZGUB_INVALID_ FUNCTION	
2	HEX	FB45	TID_ZGUB_ACB_CLOSED	
2	HEX	FB46	TID_ZGUB_UNBIND_FAILED	
2	HEX	FB47	TID_ZGUB_VTAM_SOS	
2	HEX	FB48	TID_ZGUB_UNBIND_ERROR	
2	HEX	FB49	TID_ZGUB_BEFORE_CLSDST	
2	HEX	FB4A	TID_ZGUB_AFTER_CLSDST	
2	HEX	FB4B	TID_ZGUB_BEFORE_ 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	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FB54	TID_ZGSL_BEFORE_ SETLOGON_NP	
2	HEX	FB55	TID_ZGSL_AFTER_ SETLOGON_NP	
2	HEX	FB57	TID_ZGSL_RECOVERY_ ENTERED	
2	HEX	FB58	TID_ZGSL_INVALID_ FUNCTION	
2	HEX	FB59	TID_ZGSL_INVALID_ FORMAT	
2	HEX	FB5A	TID_ZGSL_INVALID_PSDI_ VALUE	
2	HEX	FB5B	TID_ZGSL_SETLOGON_ FAILED	
DFHZGCC				
2	HEX	FB60	TID_ZGCC_ENTRY	
2	HEX	FB61	TID_ZGCC_EXIT	
2	HEX	FB62	TID_ZGCC_INVALID_ FORMAT	
2	HEX	FB63	TID_ZGCC_INVALID_ FUNCTION	
2	HEX	FB64	TID_ZGCC_RECOVERY_ ENTERED	
DFHZGPC				
2	HEX	FB65	TID_ZGPC_ENTRY	
2	HEX	FB66	TID_ZGPC_EXIT	
2	HEX	FB67	TID_ZGPC_INVALID_ FORMAT	
2	HEX	FB68	TID_ZGPC_INVALID_ FUNCTION	
2	HEX	FB69	TID_ZGPC_RECOVERY_ ENTERED	
2	HEX	FB6A	TID_ZGPC_BIND_MISMATCH	
2	HEX	FB6B	TID_ZGPC_NO_SESSION_ AVAILABLE	
DFHZXRC				
2	HEX	FB70	TID_ZXRC_V29_DATA	
DFHZGDA				
2	HEX	FB71	TID_ZGDA_ENTRY	
2	HEX	FB72	TID_ZGDA_EXIT	
2	HEX	FB73	TID_ZGDA_INVALID_ FUNCTION	
2	HEX	FB74	TID_ZGDA_INVALID_ FORMAT	
2	HEX	FB75	TID_ZGDA_SENSE_088B_ RECEIVED	
2	HEX	FB76	TID_ZGDA_INVALID_PRSS_ STATUS	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FB77	TID_ZGDA_RECEIVE_ FAILED	
2	HEX	FB78	TID_ZGDA_UNEXPECTED_ RESPONSE	
2	HEX	FB79	TID_ZGDA_BAD_BRACKET_ STATE_SEND	
2	HEX	FB7A	TID_ZGDA_BAD_BRACKET_ STATE_REC	
2	HEX	FB7B	TID_ZGDA_NO_STORAGE_ FMH7	
2	HEX	FB7C	TID_ZGDA_RECOVERY	
2	HEX	FB7D	TID_ZGDA_UNEXPECTED_ BR_STATE	
2	HEX	FB7E	TID_ZGDA_INVALID_ TCTTE_PTR	
2	HEX	FB7F	TID_ZGDA_RECOVERY_ ENTERED	
2	HEX	FB80	TID_ZGDA_UNEXPECTED_ CH_STATE	
DFHZPCT				
2	HEX	FB81	TID_ZPCT_ENTRY	
2	HEX	FB82	TID_ZPCT_EXIT	
2	HEX	FB83	TID_ZPCT_INVALID_ START_TYPE	
2	HEX	FB84	TID_ZPCT_CATALOG_ERROR	
DFHZGSL Generic resource				
2	HEX	FB87	TID_ZGSL_BEFORE_NIB_ INIT	
2	HEX	FB88	TID_ZGSL_AFTER_NIB_ INIT	
2	HEX	FB89	TID_ZGSL_BEFORE_ADD_ GRNAME	
2	HEX	FB8A	TID_ZGSL_AFTER_ADD_ GRNAME	
2	HEX	FB8B	TID_ZGSL_BEFORE_ DELETE_GRNAME	
2	HEX	FB8C	TID_ZGSL_AFTER_DELETE_ GRNAME	
2	HEX	FB8D	TID_ZGSL_NIB_INIT_ FAILED	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FB8E	TID_ZGSL_ADD_GRNAME_ FAILED	
2	HEX	FB8F	TID_ZGSL_DELETE_ GRNAME_FAILED	
DFHZLS1				
2	HEX	FB90	TID_ZLS1_ENTRY	
2	HEX	FB91	TID_ZLS1_EXIT	
2	HEX	FB92	TID_ZLS1_INVALID_ START_TYPE	
2	HEX	FB93	TID_ZLS1_IC_GET_FAILED	
2	HEX	FB94	TID_ZLS1_INVALID_ FORMAT	
2	HEX	FB95	TID_ZLS1_INVALID_ FUNCTION	
2	HEX	FB96	TID_ZLS1_NO_RECV_DATA	
2	HEX	FB97	TID_ZLS1_INVALID_RECV_ DATA	
2	HEX	FB9E	TID_ZLS1_SHUTDOWN_AND_ ACB_CLOSED	
DFHZSGN				
2	HEX	FB98	TID_ZSGN_ENTRY	
2	HEX	FB99	TID_ZSGN_EXIT	
2	HEX	FB9A	TID_ZSGN_INVALID_ START_TYPE	
2	HEX	FB9B	TID_ZSGN_SIGNON_FAILED	
2	HEX	FB9C	TID_ZSGN_CATALOG_ERROR	
2	HEX	FB9D	TID_ZSGN_SIGNOFF_ FAILED	
DFHZGCN				
2	HEX	FBA0	TID_ZGCN_ENTRY	
2	HEX	FBA1	TID_ZGCN_EXIT	
2	HEX	FBA2	TID_ZGCN_ADD_LOCK_ FAILED	
2	HEX	FBA3	TID_ZGCN_ALLOCATE_ FAILED	
2	HEX	FBA4	TID_ZGCN_ALREADY_SHUT	
2	HEX	FBA5	TID_ZGCN_CNOS_ IMPOSSIBLE	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FBA6	TID_ZGCN_GET_LOCK_ FAILED	
2	HEX	FBA7	TID_ZGCN_IN_SHUTDOWN	
2	HEX	FBA8	TID_ZGCN_INVALID_ FORMAT	
2	HEX	FBA9	TID_ZGCN_INVALID_ FUNCTION	
2	HEX	FBAA	TID_ZGCN_INVALID_ MODENAME	
2	HEX	FBAB	TID_ZGCN_INVALID_SYSID	
2	HEX	FBAC	TID_ZGCN_NO_TCME_FOUND	
2	HEX	FBAD	TID_ZGCN_NO_TCTE_FOUND	
2	HEX	FBAE	TID_ZGCN_RACE_IN_ SHUTDOWN	
2	HEX	FBAF	TID_ZGCN_RECEIVE_ FAILED	
2	HEX	FBB0	TID_ZGCN_RECOVERY_ ENTERED	
2	HEX	FBB1	TID_ZGCN_SEND_FAILED	
2	HEX	FBB2	TID_ZGCN_SINGLE_SESS_ ERROR	
2	HEX	FBB3	TID_ZGCN_SYSID_NOT_ FOUND	
2	HEX	FBB4	TID_ZGCN_TCSE_ERROR	
2	HEX	FBB5	TID_ZGCN_CNOS_COMMAND_ OUT	
2	HEX	FBB6	TID_ZGCN_CNOS_COMMAND_ IN	
2	HEX	FBB7	TID_ZGCN_CNOS_REPLY_ OUT	
2	HEX	FBB8	TID_ZGCN_CNOS_REPLY_IN	
2	HEX	FBB9	TID_ZGCN_MODEGROUP_ CHANGED	
DFHZGCA				
2	HEX	FBC0	TID_ZGCA_ENTRY	
2	HEX	FBC1	TID_ZGCA_EXIT	
2	HEX	FBC2	TID_ZGCA_ENTRY_LEVEL2	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FBC3	TID_ZGCA_EXIT_LEVEL2	
2	HEX	FBC4	TID_ZGCA_CURRENT_ COUNTS	
2	HEX	FBC5	TID_ZGCA_TC_MATRIX	
2	HEX	FBC6	TID_ZGCA_RECOVERY_ ENTERED	
2	HEX	FBC7	TID_ZGCA_INVALID_ FORMAT	
2	HEX	FBC8	TID_ZGCA_INVALID_ FUNCTION	
2	HEX	FBC9	TID_ZGCA_CHANGE_ INCOMPLETE	
DFHZXPS				
2	HEX	FBD0	TID_ZXPS_ENTRY	
2	HEX	FBD1	TID_ZXPS_EXIT	
2	HEX	FBD2	TID_ZXPS_BAD_TCTEPRSS	
2	HEX	FBD3	TID_ZXPS_CV29_DATA_ MISSING	
2	HEX	FBD4	TID_ZXPS_INVALID_BIS_ DATA	
2	HEX	FBD5	TID_ZXPS_INVALID_BID_ DATA	
2	HEX	FBD7	TID_ZXPS_MISSING_BID_ FLOW	
2	HEX	FBD8	TID_ZXPS_INVALID_RUCAT	
2	HEX	FBD9	TID_ZXPS_INCONSISTENT_ DATA_FLOW	
2	HEX	FBDA	TID_ZXPS_UNIDENTIFIED_ RESPONSE	
2	HEX	FBDB	TID_ZXPS_UNKNOWN_ COMMAND	
2	HEX	FBDC	TID_ZXPS_UNEXPECTED_ BIS_RESP	
2	HEX	FBDD	TID_ZXPS_UNKNOWN_CMD_ RESPONSE	
2	HEX	FBDE	TID_ZXPS_INVALID_BID_ STATUS	
2	HEX	FBDF	TID_ZXPS_INVALID_ZGDA_ MODE	
2	HEX	FBE0	TID_ZXPS_INVALID_ZGDA_ PARM	

Table 851. (continued)

Len	Type	Value	Name	Description
2	HEX	FBE1	TID_ZXPS_UNKNOWN_ STATE_AFTER_SIG	
2	HEX	FBE4	TID_ZXPS_RECOVERY_ ABANDONED	
2	HEX	FBE5	TID_ZXPS_RESETSR_ FAILED	
2	HEX	FBE6	TID_ZXPS_TRACKING_ DATA_MISSING	
2	HEX	FBE7	TID_ZXPS_DOMAIN_CALL_ FAILED	
2	HEX	FBE9	TID_ZXPS_CV29_TRACE	
2	HEX	FBEA	TID_ZXPS_NO_BIS_ RECOVERY	
DFHZGPR				
2	HEX	FBF0	TID_ZGPR_ENTRY	
2	HEX	FBF1	TID_ZGPR_EXIT	
2	HEX	FBF2	TID_ZGPR_INVALID_ FORMAT	
2	HEX	FBF3	TID_ZGPR_INVALID_ FUNCTION	
2	HEX	FBF4	TID_ZGPR_INVALID_TCSE_ PTR	
2	HEX	FBF5	TID_ZGPR_INCR_CCCC_ ERROR	
2	HEX	FBF6	TID_ZGPR_DECR_CCCC_ ERROR	
2	HEX	FBF7	TID_ZGPR_INQ_CCCC_ ERROR	
2	HEX	FBF8	TID_ZGPR_RESET_CCCC_ ERROR	
2	HEX	FBF9	TID_ZGPR_RECOVERY_ ENTERED	
extra DFHZGDA				
2	HEX	FBFA	TID_ZGDA_REJ_ATT_INV_ CH_STATE	
2	HEX	FBFB	TID_ZGDA_REJ_ATT_INV_ BR_STATE	
2	HEX	FBFC	TID_ZGDA_SEND_FAILED	
extra DFHZXPS				
2	HEX	FBFD	TID_ZXPS_REJ_ATT_ FAILED	

Table 851. (continued)

Len	Type	Value	Name	Description
== Standard message constants ==				
4	DECIMAL	1	MNO_ABEND	
8	CHARACTER	ZC0001	DCD_ABEND	
4	DECIMAL	2	MNO_SEVERE_ERROR	
8	CHARACTER	ZC0002	DCD_SEVERE_ERROR	
4	DECIMAL	3	MNO_NO_STORAGE	
8	CHARACTER	ZC0003	DCD_NO_STORAGE	
2	CHARACTER	ZC	COMPONENT_ID	
== Persistent session constants ==				
4	DECIMAL	86399	PSDI_MAX	1 day in seconds less one !

ZGRP - Persistent Sessions control blocks

```
=====================================================================
  CONTROL BLOCK NAME = DFHZGRPC
  DESCRIPTIVE NAME = CICS TS PRSS initialisaton blocks
       Licensed Materials - Property of IBM
        Restricted Materials of IBM
       5655-Y04
       (C) Copyright IBM Corp. 1992, 1998
    The following control blocks are all created by DFHZGRP.
  FUNCTION = PRSS_CV29
      This is SHARED CICS data which contains:
      CV29, FMH5, BIS and BID data.
      There will be one PRSS CV29 per OPNDST RESTOREd TCTTE.
  LIFETIME =
      It is built by DFHZGRP during persistent session recovery
      (EMER | VTAM_RESART) and is freemained by DFHZNCA when
      DFHZC0146 or DFHZC0156 (good PS recover) is issued,
      or when DFHZCLS is run to cover all the cases where
      the session failed to restore and was unbound.
  STORAGE CLASS =
      SMMC SHARED_CICS
  LOCATION =
      Chained of the TCTTE via TCTE_PRSS_CV29_PTR.
  INNER CONTROL BLOCKS = none
  FUNCTION = NIBLIST
      Persistent sessions INQUIRE NIBLIST - created and used by
      DFHZGRP to hold data supplied by VTAM containing the
      following information about each NIB that persists.
      See VTAM Programming SC31-6436 for a full description.
  LIFETIME =
      It is built by DFHZGRP during persistent session recovery
      (startup or dynamic open) and freemained by DFHZGRP before
      it exits.
  STORAGE CLASS =
      USAGE(DOMAIN)
  LOCATION =
      Anchored off the TCT Prefix TCTV_FIRST_NIBLIST_PTR
  INNER CONTROL BLOCKS = See SC31-6436
  FUNCTION = TCT_BIND
      Defines the bind in the TCT, starting with the length.
```

```
    This is used to copy the PRSS BIND into the TCTTE.
 LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (emergency restart or vtam restart) when logmode= n
    is used and freemained if and when the TCTTE is
    deleted.
 STORAGE CLASS =
    ZCBIMG subpool
 LOCATION =
    Anchored off TCTEBIMG
 INNER CONTROL BLOCKS = none
 FUNCTION = ZGRP_RPL
    Defines a set of 11 RPLs for use by DFHZGRP and DFHZGUB.
 LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (startup or dynamic open) and freemained by DFHZGRP before
    it exits. However, if some of the RPLs are still active the
    pool will remain and then be re-used and freemained by
    subsequent dynamic OPEN VTAM ACB requests.
 STORAGE CLASS =
    ZCNIBLST subpool
 LOCATION =
    Anchored off the TCT Prefix TCTV_PRSS_RPL_POOL_PTR
 INNER CONTROL BLOCKS = none
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES =
   DATA AREAS =
   CONTROL BLOCKS =
   GLOBAL VARIABLES (Macro pass) =
-------------------------------------------------------------------
===================================================================
===================================================================
 PRSS CV29 containing CV29, FMH5, BIS and BID data,
 built by DFHZGRP from OPNDST RESTORE data and passed to DFHZXPC
 and DFHZXRC (CV29 for terminals only).
===================================================================
```

Table 852.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	163	PRSS_CV29_DATA	
(0)	CHARACTER	91	PRSS_CV29	
(5B)	CHARACTER	42	PRSS_FMH5	
(5B)	CHARACTER	21	FMH5_PS_DATA	FMH5 PLU to SLU data
(5B)	CHARACTER	2	FMH5_PSSEQ	FMH5 PLU to SLU seq. no.
(5D)	CHARACTER	3	FMH5_PSRH	FMH5 PLU to SLU RH
(60)	CHARACTER	16	FMH5_PSRU	FMH5 PLU to SLU RU
(70)	CHARACTER	21	FMH5_SP_DATA	FMH5 SLU to PLU data
(70)	CHARACTER	2	FMH5_SPSEQ	FMH5 SLU to PLU seq. no.
(72)	CHARACTER	3	FMH5_SPRH	FMH5 SLU to PLU RH
(75)	CHARACTER	16	FMH5_SPRU	FMH5 SLU to PLU RU
(85)	CHARACTER	20	PRSS_BIS	
(85)	CHARACTER	10	BIS_PS_DATA	BIS PLU to SLU data
(85)	CHARACTER	2	BIS_PSSEQ	BIS PLU to SLU seq. no.

Table 852. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(87)	CHARACTER	3	BIS_PSRH	BIS PLU to SLU RH
(8A)	CHARACTER	5	BIS_PSRU	BIS PLU to SLU RU
(8F)	CHARACTER	10	BIS_SP_DATA	BIS SLU to PLU data
(8F)	CHARACTER	2	BIS_SPSEQ	BIS SLU to PLU seq. no.
(91)	CHARACTER	3	BIS_SPRH	BIS SLU to PLU RH
(94)	CHARACTER	5	BIS_SPRU	BIS SLU to PLU RU
(99)	CHARACTER	10	PRSS_BID	
(99)	CHARACTER	2	BID_SEQ	Bid sequence number
(9B)	CHARACTER	3	BID_RH	Bid RH
(9E)	CHARACTER	5	BID_RU	Bid RU

```
====================================================================
 Persistent sessions NIBLIST - as produced by DFHZGRP as a result
 or INQUIRE PERSESS and OPNDST RESTORE.
 The NIB and BIND definitions should be replaced by the VTAM
 versions when they become available. If they are not replaced
 then they should be kept in step with the VTAM versions.
 The NIBLIST is anchored from TCTV_FIRST_NIBLIST_PTR
====================================================================
```

Table 853.

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 854.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	64	NIB	1st of many NIBs !
(0)	CHARACTER	1	*	Always 'D0'x
(1)	UNSIGNED	1	NIBFLG0	
(1)	1...		NIBNNAMS	Partner used member name
(2)	CHARACTER	1	*	
(3)	UNSIGNED	1	NIBLEN	Length of NIB
(4)	FULLWORD	4	NIBCID	CID !
(8)	ADDRESS	4	NIBUSER	a(old_tctte) a(tctte) or 0 !
(C)	CHARACTER	8	NIBSYM	Netname !
(14)	CHARACTER	8	NIBMODE	!
(14)	CHARACTER	8	NIBNET	Netid

Table 854. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	CHARACTER	8	NIBDEVCH	!
(1C)	CHARACTER	4	*	
(20)	CHARACTER	1	DEVPHYSA	
(24)	CHARACTER	4	NIBPROCD	!
(28)	UNSIGNED	1	NIBFLG1	!
(28)	1...		NIBLAST	Off if last nib
(28)	.1..		NIBCON	On if OPNDST restore OK !
(29)	UNSIGNED	1	NIBFLG2	!
(29)	11..		*	!
(29)	..1.		NIBPSPLU	On if primary !
(29)	...1		NIBPSDFS	On if Continue specific !
(29)	.... 1...		NIBPSDFA	On if Continue any !
(29)	.... .1..		NIBPSRSP	On if RESP data mode !
(2A)	CHARACTER	2	*	!
(2C)	ADDRESS	4	NIBEXLST	
(30)	CHARACTER	8	NIBGENN	Generic resource name
(30)	CHARACTER	8	NIBLMODE	
(38)	CHARACTER	4	*	
(3C)	ADDRESS	4	NIBRPARM	Pointer to restore plist !

```
------------------------------------------------------------------------
 RESTORE_PLIST_POINTERS
   A set of 7 pointer per NIB in the NIBLIST. Pointed to by
   NIBRPARM in the NIB.
   They in turn, point to data supplied for each NIB by INQUIRE
   PERSESS and OPNDST RESTORE.
------------------------------------------------------------------------
```

Table 855.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	RESTORE_PLIST_ POINTERS	
(0)	ADDRESS	4	BIND_PTR	
(4)	ADDRESS	4	CV29_PTR	
(8)	ADDRESS	4	MODENAME_PTR	
(C)	ADDRESS	4	SESSID_PTR	
(10)	ADDRESS	4	FMH5_PTR	
(14)	ADDRESS	4	BID_PTR	
(18)	ADDRESS	4	BIS_PTR	

```
------------------------------------------------------------------------
 BIND
   Returned by INQUIRE PERSESS and pointed to by BIND_PTR
   The definition of fields within the bind should be replaced
   by the official VTAM ones.
------------------------------------------------------------------------
```

Table 856.

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 !
(6)	111.		*	!
(6)	...1		BINBKFS	Bit X'10' Primary is brackets!
(6)	 1111		*	!
(7)	BIT(8)	1	BINAPACE	8 SLU send pacing !
(8)	BIT(8)	1	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 !
(E)	BIT(8)	1	BINLULEV	15 LU Type !
(F)	BIT(8)	1	BINARCH1	16 Arch info 1 !
(10)	CHARACTER	5	*	17-21 !
(15)	BIT(8)	1	BINFLG0	22 Flag byte !
(15)	1...		BINES	Bit X'80' Ext Sec Supp !
(15)	.111 1111		*	!
(16)	BIT(8)	1	BINFLG1	23 Flag byte !
(16)	111.		*	!
(16)	...1		BINCLSS	Bit X'01' Acc sec supp !
(16)	.... 11..		*	!
(16)	.... ..1.		BINAVFS	Bit X'02' Already verif !
(16)	1		BINPV	Bit X'01' Persist verif !
(17)	BIT(8)	1	BINFLG2	24 Flag byte !
(17)	1...		*	!
(17)	.1..		BINCSBK	Bit X'40' Sync level 2 !
(17)	..1.		BINCONF	Bit X'20' Sync level 1 !
(17)	...1		*	!
(17)	.... 1...		BINSECNH	Bit X'08' 2ry reinitiate !
(17)	.... .1..		BINPRIMH	Bit X'04' 1ry reinitiate !
(17)	.... ..1.		BINPSS	Bit X'02' parallel sess !
(17)	1		BINGDSVF	Bit X'01' CNOS supported !

Table 856. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(18)	BIT(8)	1	BINFLG3	25 Flag byte !
(18)	1...		*	!
(18)	.1..		BINLTDRC	Bit X'40' LR bit !
(18)	..11 1111		*	!
(19)	BIT(8)	1	BINCRCTL	26 Cryptography !
(1A)	UNSIGNED	1	BINPRIML	27 1ry LU name length !
(1B)	CHARACTER	8	BINPRIM	28-35 1ry LU name !

`-------------------------------------------------------------`
`-! 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 !
(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 857.

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 858.

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 859.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	38	TCT_BIND	
(0)	UNSIGNED	1	TCT_BIND_LENGTH	
(1)	CHARACTER	13	*	
(E)	UNSIGNED	1	TCT_BINLUP	
(F)	CHARACTER	23	*	

```
-------------------------------------------------------------------
 RPL_POOL
   Defines a set of 11 RPLs for use by DFHZGRP and DFHZGUB.
   The block is obtained from the ZCNIBLST variable length subpool
   when DFHZGRP is entered and deleted by DFHZGRP if all the
   RPLs are inactive.
   The ECB is for use by DFHZGUB to wait until an RPL becomes free.
   The first RPL is for use by DFHZGRP - INQUIRE and OPNDST.
   The next 10 are for DFHZGUB, which initiates up to 10 CLSDSTs
   or TERMSESS's. After that it needs to wait for one to become
   inactive.
 The RPL POOL is anchored from TCTV_PRSS_RPL_POOL_PTR.
 The last 10 RPLS for use by DFHZGUB are anchored from
 TCTV_PRSS_UNBIND_RPLS_PTR
-------------------------------------------------------------------
```

Table 860.

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 861.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	SEC_MECH_STRUCT	
(0)	UNSIGNED	1	SEC_MECH_LENGTH	Length of struct - 1
(1)	UNSIGNED	1	SEC_MECH_KEY	Key '14'
(2)	UNSIGNED	1	SEC_POLICY_LENGTH	security policy length
(3)	CHARACTER	*	*	

Table 862.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	EXT_SEC_MECH_STRUCT	
(0)	UNSIGNED	1	SEC_EXT_MECH_LEN	length of extended mechs

Table 862. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(1)	CHARACTER	*	SEC_EXT_MECH	mechanisms
(1)	CHARACTER	1	SEC_MECH_ID	mechanism id
(2)	UNSIGNED	1	SEC_MECH_POLICY	mechanism policy
(2)	1...		SEC_POLICY_REQD	Bit X'80' Req sec supp
(2)	.111 1111		*	

Constants

Table 863.

Len	Type	Value	Name	Description
---------- NIB_DATA_LENGTH Length of one NIB, PLIST and data returned by INQUIRE PERSESS Note - after VTAM APAR OY65251 LU62 NIB data will also contain key 04 from the bind user data - with a maximum length of 19 VTAM may add extra subfields in later releases - in which case this length must be increased. ----------				
4	DECIMAL	164	NIB_DATA_LENGTH	
---------- SHORTEST_NIB_DATA_LENGTH Length of the shortest possible NIB data returned by VTAM INQUIRE PERSESS. ----------				
4	DECIMAL	129	SHORTEST_NIB_DATA_ LENGTH	
---------- OPNDST_DATA_LENGTH Length of one set of CV29, FMH5, BIS + BID. ----------				
4	DECIMAL	163	OPNDST_DATA_LENGTH	

ZLUIT - ZCP local userid table definition

```
CONTROL BLOCK NAME = DFHZLUIT
DESCRIPTIVE NAME = CICS TS (ZCP) Local Userid Table definition.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1989
FUNCTION =
     This control block contains the DSECTs for:
     1) Local Userid Table (LUIT) entries.
        The LUIT contains a list of Userids, who are using
        Persistent Verification, and are considered ALREADY
        VERIFIED for use on this connection.
     2) The Local Userid Table Area (LUITA).
        This is the header for each LUIT, containing a pointer
        to the first LUIT entry, the SYSID associated with the
        LUIT, and some flags. This DSECT is physically part of
        the TCSE, but contains only those TCSE fields required
        by DFHZCUT to perform its functions.
     There is one LUIT per connection, composed of a LUITA
```

```
     header followed by one entry for each userid that is
     Persistently Signed On.
     Both of these control blocks are owned by DFHZCUT.
LIFETIME =
     For the LUITA - Lifetime of the TCSE - connection lifetime.
                     Destroyed when the TCSE is freed.
     For the LUIT entries - Task related. Tasks will attach and
                     add or reuse LUIT entries. As tasks end,
                     the use counts in the LUIT entries are
                     decremented. If the entries have not been
                     used for a set time (SIT - PVDELAY)
                     the LUIT entries will be deleted.
STORAGE CLASS =
     The LUITA is part of the TCSE
     The LUIT entries come from Subpool USIDTBL
     They have a fixed length of 32 bytes.
LOCATION =
     LOCAL_USERID_TABLE_AREA (LUITA) is a field in the TCSE.
     LOCAL_USERID_TABLE_ELEMENT is chained off:
       LUITA_HEAD_POINTER (TCSELUIT) for the first LUIT entry
       LUIT_FORWARD_POINTER for the next LUIT entry
            (end of chain = Null pointer)
INNER CONTROL BLOCKS =
     The LOCAL_USERID_TABLE_AREA is an inner control block of
     the TCSE defined at TCSEUTA
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
EXTERNAL REFERENCES =
      None
  DATA AREAS =
      None
  CONTROL BLOCKS =
      None
  GLOBAL VARIABLES (Macro pass) =
      None
-------------------------------------------------------------------
 The Local Userid Table Area is a sub control block within the
 TCSE - at TCSEUTA.
 DFHZCUT uses the LUITA as the head control block for the LUIT.
   HEAD_POINTER points to the start of the LUIT element chain.
   SYSID is the 4 char connection sysid associated with the LUIT.
   FLAGS that are used in Time Out of the LUIT entries:
     TIME_OUT_IN_PROGRESS
```

Table 864.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	LOCAL_USERID_TABLE_ AREA	
(0)	ADDRESS	4	LUITA_HEAD_POINTER	
(4)	CHARACTER	4	LUITA_SYSID	
(8)	BIT(8)	1	LUITA_FLAGS	
(8)	1...		LUITA_TIME_OUT_IN_ PROGRESS	
(8)	.111 1111		*	Reserved
(9)	CHARACTER	3	*	Reserved

```
The Local Userid Table Elements consist of userids that are using
Persistent Verification for a particular SYSID.
  FORWARD_POINTER is used to chain to the next element - search
  BACKWARD_POINTER is used when deleting entries from the middle
      of the list.
```

```
  TIME_LAST_END_BRACKET is set to zero when the entry is added
      to the list. Subsequently, it is set to the 4 High Order
      bytes of the STCK macro time, whenever tasks that use the
      entry send an end bracket to complete the session ( at task
      end). The time is used to remove the LUIT entry from the
      list if the count is zero, and the entry has not been used
      for a set time.
  USE_COUNT is the total number of transactions currently running
      that are using this LUIT entry.
  FLAGS
    LOGICALLY_DELETED indicates that the LUIT entry has logically
      and architecturally been deleted, however since the use
      count is non zero, we must wait for the transactions that
      are currently using it to end, before we can Freemain it.
      Note. Instead of adding a new entry to the list a logically
      deleted entry can be made valid again. This saves us from
      having multiple entries for the same userid.
  USERID is the userid (and length) that is using PV and can
      be considered Already Verified for use on the connection.
```

Table 865.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	LOCAL_USERID_TABLE_ ELEMENT	
(0)	ADDRESS	4	LUIT_FORWARD_POINTER	
(4)	ADDRESS	4	LUIT_BACKWARD_POINTER	
(8)	UNSIGNED	4	LUIT_TIME_LAST_END_ BRACKET	
(C)	HALFWORD	2	LUIT_USE_COUNT	
(E)	UNSIGNED	1	LUIT_FLAGS	
(E)	1...		LUIT_LOGICALLY_ DELETED	
(E)	.1..		LUIT_PENDING_TIME_OUT	
(E)	..11 1111		*	
(F)	CHARACTER	9	LUIT_USERID	
(F)	UNSIGNED	1	LUIT_USERID_LENGTH	
(10)	CHARACTER	8	LUIT_USERID_TEXT	
(18)	CHARACTER	8	*	Reserved

ZCCPS - CICS Client

```
  DESCRIPTIVE NAME = CICS Client control blocks
   This copybook provides the declarations and structures
   necessary for the CCIN and CTIN transactions.
 ------------------------------------------------------------------
==================================================================
   Data for CICS client CCIN transaction input
==================================================================
```

Table 866.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	R	Receive parameters !
(0)	CHARACTER	12	CCIN_HEADER	
(0)	FULLWORD	4	CCIN_LEN	

Table 866. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	UNSIGNED	1	CCIN_GROUP	
(5)	UNSIGNED	1	CCIN_FUNCTION	
(6)	UNSIGNED	1	CCIN_VERSION	
(7)	UNSIGNED	1	CCIN_RESPONSE	
(8)	UNSIGNED	2	CCIN_REASON	
(A)	UNSIGNED	2	CCIN_PARMNUM	

Table 867.

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 868.

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 869.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	CCIN_CAPABILITIES_ PARM	
(0)	FULLWORD	4	CCIN_CAPABILITIES_ LENGTH	
(4)	UNSIGNED	1	CCIN_CAPABILITIES_ PARM_TYPE	
(5)	BIT(8)	1	CCIN_ENVIRON_TYPE	
(5)	1111 11..		*	
(5)	.... ..1.		CCIN_EBCDIC	
(5)	1		CCIN_BIGENDIAN	
(6)	BIT(16)	2	CCIN_CLIENT_ CAPABILITIES	
(6)	BIT(8)	1	*	
(6)	1...		CCIN_EXIT_PROCESSING	
(6)	.1..		CCIN_TRANSLATE_ CAPABLE	
(6)	..1.		CCIN_DELETE_ENTRIES	
(6)	...1		CCIN_TCTUA_COMMAREA	
(6)	 1111		*	
(7)	BIT(8)	1	*	

Table 870.

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 871.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	CCIN_TIMEOUT_PARM	
(0)	FULLWORD	4	CCIN_TIMEOUT_LENGTH	
(4)	UNSIGNED	1	CCIN_TIMEOUT_PARM_ TYPE	
(5)	BIT(8)	1	*	
(5)	1...		CCIN_CONV_TIMEOUT_ SUPPORTED	
(5)	.111 1111		*	

```
======================================================================
  Data for CICS client CCIN transaction output
======================================================================
```

Table 872.

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 873.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	IN	Input parameters !
(0)	CHARACTER	12	CTIN_HEADER	

Table 873. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	FULLWORD	4	CTIN_LEN	
(4)	UNSIGNED	1	CTIN_GROUP	
(5)	UNSIGNED	1	CTIN_FUNCTION	
(6)	UNSIGNED	1	CTIN_VERSION	
(7)	UNSIGNED	1	CTIN_RESPONSE	
(8)	UNSIGNED	2	CTIN_REASON	
(A)	UNSIGNED	2	CTIN_PARMNUM	

Table 874.

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 875.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CTIN_MODELID_PARM	
(0)	FULLWORD	4	CTIN_MODELID_LENGTH	
(4)	UNSIGNED	1	CTIN_MODELID_PARM_ TYPE	
(5)	CHARACTER	*	CTIN_MODELID	

Table 876.

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 877.

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 878.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CTIN_TERMID_PARM	

Table 878. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	FULLWORD	4	CTIN_TERMID_LENGTH	
(4)	UNSIGNED	1	CTIN_TERMID_PARM_TYPE	
(5)	CHARACTER	*	CTIN_TERMID	

Table 879.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	CTIN_TERMSOC_PARM	
(0)	FULLWORD	4	CTIN_TERMSOC_LENGTH	
(4)	UNSIGNED	1	CTIN_TERMSOC_PARM_ TYPE	
(5)	UNSIGNED	1	CTIN_TERMSOC	signon capability !
(5)	1...		CTIN_TERMSOC_IND	1 - required ! 0 - not required !

```
======================================================================
  Data for CICS client CTIN transaction output
======================================================================
```

Table 880.

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 881.

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 882.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	CTIN_TERMSOCS_PARM	like ctin_termsoc_parm
(0)	FULLWORD	4	*	

Table 882. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(4)	UNSIGNED	1	*	
(5)	UNSIGNED	1	*	Signon capability
(5)	1...		*	1 - capable 0 - incapable

Constants

Table 883.

Len	Type	Value	Name	Description
== Declare the CCIN header block and response and reason codes == Constants for ccin_group				
1	DECIMAL	1	CCIN_CLIENT_FUNCTION	
Constants for ccin_function				
1	DECIMAL	1	CCIN_CLIENT_INSTALL_ REQUEST	
1	DECIMAL	2	CCIN_CLIENT_INSTALL_ RESPONSE	
1	DECIMAL	3	CCIN_CLIENT_UNINSTALL_ REQUEST	
Constants for CCIN parameter types				
1	DECIMAL	1	CCIN_APPLID_TYPE	
1	DECIMAL	3	CCIN_CODEPAGE_TYPE	
1	DECIMAL	4	CCIN_CAPABILITIES_TYPE	
1	DECIMAL	9	CCIN_SECURITY_TYPE	
1	DECIMAL	12	CCIN_TIMEOUT_TYPE	
Constants for ccin_response				
1	DECIMAL	0	CCIN_NORMAL	
1	DECIMAL	1	CCIN_EXCEPTION	
1	DECIMAL	2	CCIN_ERROR	
1	DECIMAL	4	CCIN_DISASTER	
Constants for ccin_reason				
2	DECIMAL	0	CCIN_OK	
2	DECIMAL	1	CCIN_ALREADY_INSTALLED	
2	DECIMAL	4	CCIN_INSTALL_CANCELLED	
2	DECIMAL	5	CCIN_SERVER_BUSY	
2	DECIMAL	6	CCIN_INVALID_REQUEST	
2	DECIMAL	7	CCIN_INVALID_CODEPAGE	
== Declare the CTIN header block and response and reason codes == Constants for ctin_group				

Table 883. (continued)

Len	Type	Value	Name	Description
1	DECIMAL	1	CTIN_CLIENT_FUNCTION	
Constants for ctin_function				
1	DECIMAL	17	CTIN_TERMINAL_INSTALL_ REQUEST	
1	DECIMAL	18	CTIN_TERMINAL_INSTALL_ RESPONSE	
1	DECIMAL	19	CTIN_TERMINAL_ UNINSTALL_REQUEST	
Constants for CTIN parameter types				
1	DECIMAL	1	CTIN_APPLID_TYPE	
1	DECIMAL	3	CTIN_CODEPAGE_TYPE	
1	DECIMAL	5	CTIN_NETNAME_TYPE	
1	DECIMAL	6	CTIN_MODELID_TYPE	
1	DECIMAL	7	CTIN_TERMDETAILS_TYPE	
1	DECIMAL	8	CTIN_TERMID_TYPE	
1	DECIMAL	10	CTIN_TERMSOC_TYPE	
Constants for ctin_response				
1	DECIMAL	0	CTIN_NORMAL	
1	DECIMAL	1	CTIN_EXCEPTION	
1	DECIMAL	2	CTIN_ERROR	
1	DECIMAL	4	CTIN_DISASTER	
Constants for ctin_reason				
2	DECIMAL	1	CTIN_ALREADY_INSTALLED	
2	DECIMAL	2	CTIN_UNKNOWN_TERMINAL	
2	DECIMAL	3	CTIN_UNKNOWN_MODEL	
2	DECIMAL	4	CTIN_INSTALL_CANCELLED	
2	DECIMAL	5	CTIN_SERVER_BUSY	
2	DECIMAL	6	CTIN_INVALID_REQUEST	
2	DECIMAL	7	CTIN_INVALID_CODEPAGE	
2	DECIMAL	8	CTIN_INVALID_SIGNON	
2	DECIMAL	9	CTIN_CCIN_INACTIVE	
2	DECIMAL	10	CTIN_INVALID_TERMID	
Constants for ctin_o_type				
1	DECIMAL	7	CTIN_O_TERM_BPS	

ZXQOD - XRF tracking queue organiser

```
CONTROL BLOCK NAME = DFHZXQOD
DESCRIPTIVE NAME = CICS TS XRF tracking queue organiser
                   (DFHZXQO) interface declaration.
     Licensed Materials - Property of IBM
```

```
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985, 1999
 FUNCTION = Declare interface to DFHZXQO.
 NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
  MODULE TYPE = Control block definition
-------------------------------------------------------------------
 EXTERNAL REFERENCES = None.
   DATA AREAS = None.
   CONTROL BLOCKS = CSZXQONA in the CSA.
   GLOBAL VARIABLES (Macro pass) = None.
-------------------------------------------------------------------
```

Table 884.

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 885.

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
NAME OF MATCHING PLS CONTROL BLOCK = NONE
DESCRIPTIVE NAME = CICS TS XRF tracking record header.
     Licensed Materials - Property of IBM
      Restricted Materials of IBM
     5655-Y04
     (C) Copyright IBM Corp. 1985, 2015
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 886.

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 887.

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 888.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XTR_XC_DATA	
(0)	BIT(8)	1	*	
(0)	1...		XTR_XC_STRM_WARM	Stream is cold
(1)	CHARACTER	1	* (*)	List of types in stream
(1)	CHARACTER	1	XTR_XC_TYPE_ELEM	Stream type

```
The following structure maps XTR_DATA_STRING when used
      for session-state tracking messages.
```

Table 889.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XTR_ST_DATA	
(0)	CHARACTER	5	XTR_ST_SHORT	Basic section
(0)	CHARACTER	4	XTR_ST_SESS_NAME	Session/terminal name
(4)	CHARACTER	1	XTR_ST_REQUEST	Request being shipped
(5)	BIT(8)	1	XTR_ST_FLAGS_1	
(5)	1...		XTR_ST_CAPABLE	XRF capable session
(6)	CHARACTER	*	XTR_ST_CORREL	Correlation id
(6)	UNSIGNED	1	XTR_ST_CORREL_LN	Length
(7)	CHARACTER	*	XTR_ST_CORREL_ID	Value

```
This is now externalised
```

Table 890.

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 891.

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 892.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XTR_SN_DATA	
(0)	CHARACTER	4	XTR_SN_SESS_NAME	
(4)	UNSIGNED	1	XTR_SN_REP_N	

Table 892. (continued)

Offset Hex	Type	Len	Name (Dim)	Description
(5)	CHARACTER	*	XTR_SN_REP	

Constants

Table 893.

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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- Developing applications
- Developing system programs
- RACF security overview
- Developing for external interfaces
- Reference: application developmenth
- Reference: system programming
- Reference: connectivity

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